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Cover Page

Order ID : P5277

Project ID : Tanner G. Duckrey Public School

Client : Kleinfelder

Lab Sample Number	Client Sample Number
P5277-01	COMP-1A
P5277-02	COMP-2A
P5277-03	COMP-3A
P5277-04	SB-13
P5277-05	SB-14
P5277-06	SB-15
P5277-07	SB-16
P5277-08	SB-17
P5277-09	SB-18
P5277-10	SB-19
P5277-11	SB-20
P5277-12	SB-21
P5277-13	SB-22
P5277-14	SB-23
P5277-15	SB-24

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: 12/18/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5277**

	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: **NILESH PRAJAPATI** **Date:** **12/18/2024**

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277 **Order ID:** P5277

Client: Kleinfelder **Project ID:** Tanner G. Duckrey Public School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-3A								
P5277-03	COMP-3A	SOIL	4,4-DDE	0.31	J	0.14	1.90	ug/kg
P5277-03	COMP-3A	SOIL	4,4-DDD	0.31	J	0.21	1.90	ug/kg
P5277-03	COMP-3A	SOIL	4,4-DDT	0.29	J	0.19	1.90	ug/kg
			Total Concentration:	**0.910**				

QC SUMMARY

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Surrogate Summary

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093230.D	PIBLK-PL093230.D	Decachlorobiphenyl	1	20	21.6	108		43	140
		Tetrachloro-m-xylene	1	20	21.2	106		77	126
		Decachlorobiphenyl	2	20	21.5	107		43	140
		Tetrachloro-m-xylene	2	20	20.4	102		77	126
I.BLK-PL093379.D	PIBLK-PL093379.D	Decachlorobiphenyl	1	20	25.2	126		43	140
		Tetrachloro-m-xylene	1	20	22.8	114		77	126
		Decachlorobiphenyl	2	20	21.3	107		43	140
		Tetrachloro-m-xylene	2	20	21.8	109		77	126
PB165647BL	PB165647BL	Decachlorobiphenyl	1	20	23.4	117		10	148
		Tetrachloro-m-xylene	1	20	19.8	99		10	159
		Decachlorobiphenyl	2	20	21.4	107		10	148
		Tetrachloro-m-xylene	2	20	19.0	95		10	159
PB165647BS	PB165647BS	Decachlorobiphenyl	1	20	23.4	117		10	148
		Tetrachloro-m-xylene	1	20	19.3	97		10	159
		Decachlorobiphenyl	2	20	20.9	104		10	148
		Tetrachloro-m-xylene	2	20	18.6	93		10	159
P5277-01	COMP-1A	Decachlorobiphenyl	1	20	20.5	103		10	148
		Tetrachloro-m-xylene	1	20	20.6	103		10	159
		Decachlorobiphenyl	2	20	21.2	106		10	148
		Tetrachloro-m-xylene	2	20	20.6	103		10	159
P5277-02	COMP-2A	Decachlorobiphenyl	1	20	20.4	102		10	148
		Tetrachloro-m-xylene	1	20	21.6	108		10	159
		Decachlorobiphenyl	2	20	18.3	91		10	148
		Tetrachloro-m-xylene	2	20	21.8	109		10	159
P5277-02MS	COMP-2AMS	Decachlorobiphenyl	1	20	17.1	86		10	148
		Tetrachloro-m-xylene	1	20	17.7	89		10	159
		Decachlorobiphenyl	2	20	18.6	93		10	148
		Tetrachloro-m-xylene	2	20	17.5	87		10	159
P5277-02MSD	COMP-2AMSD	Decachlorobiphenyl	1	20	18.3	91		10	148
		Tetrachloro-m-xylene	1	20	18.3	92		10	159
		Decachlorobiphenyl	2	20	19.1	95		10	148
		Tetrachloro-m-xylene	2	20	17.8	89		10	159
P5277-03	COMP-3A	Decachlorobiphenyl	1	20	23.7	119		10	148
		Tetrachloro-m-xylene	1	20	21.8	109		10	159
		Decachlorobiphenyl	2	20	22.0	110		10	148
		Tetrachloro-m-xylene	2	20	22.2	111		10	159
I.BLK-PL093392.D	PIBLK-PL093392.D	Decachlorobiphenyl	1	20	23.9	119		43	140
		Tetrachloro-m-xylene	1	20	21.3	107		77	126
		Decachlorobiphenyl	2	20	22.1	110		43	140
		Tetrachloro-m-xylene	2	20	21.3	106		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **DataFile :** PL093387.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**COMP-2AMS**											
P5277-02MS	Aldrin	21.07	0	21.0	ug/kg	100				49	139	
	Dieldrin	21.07	0	22.1	ug/kg	105				47	161	
	4,4'-DDE	21.07	0	22.0	ug/kg	104				55	136	
	4,4'-DDD	21.07	0	21.9	ug/kg	104				37	192	
	4,4'-DDT	21.07	0	22.3	ug/kg	106				51	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **DataFile :** PL093388.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**COMP-2AMSD**											
P5277-02MSD	Aldrin	21.11	0	22.0	ug/kg	104		4		49	139	20
	Dieldrin	21.11	0	23.1	ug/kg	109		4		47	161	20
	4,4'-DDE	21.11	0	22.9	ug/kg	108		4		55	136	20
	4,4'-DDD	21.11	0	22.7	ug/kg	108		4		37	192	20
	4,4'-DDT	21.11	0	22.8	ug/kg	108		2		51	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **Datafile :** PL093383.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165647BS	Aldrin	16.66	16.8	ug/kg	101				82	124	
	Dieldrin	16.66	17.7	ug/kg	106				85	121	
	4,4'-DDE	16.66	17.3	ug/kg	104				81	123	
	4,4'-DDD	16.66	17.3	ug/kg	104				80	131	
	4,4'-DDT	16.66	17.6	ug/kg	106				70	129	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165647BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab Sample ID: PB165647BL Lab File ID: PL093382.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 12/16/2024

Date Analyzed (1): 12/16/2024 Date Analyzed (2): 12/16/2024

Time Analyzed (1): 13:32 Time Analyzed (2): 13:32

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

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165647BS	PB165647BS	PL093383.D	12/16/2024	12/16/2024
COMP-1A	P5277-01	PL093385.D	12/16/2024	12/16/2024
COMP-2A	P5277-02	PL093386.D	12/16/2024	12/16/2024
COMP-2AMS	P5277-02MS	PL093387.D	12/16/2024	12/16/2024
COMP-2AMSD	P5277-02MSD	PL093388.D	12/16/2024	12/16/2024
COMP-3A	P5277-03	PL093389.D	12/16/2024	12/16/2024

COMMENTS:

SAMPLE DATA

Raw Data: **PL093385.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.5 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093385.D	1	12/16/24 08:51	12/16/24 14:13	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		10 - 148	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		10 - 159	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

Quantitation Report (QT Reviewed)

Sample Results: **PL093385.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093385.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:13
Operator : AR\AJ
Sample : P5277-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
COMP-1A

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:16:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.537	2.776	53469636	59292164	20.573m	20.559
28)	SA Decachlor...	9.053	7.912	35641328	60643566	20.501	21.230
	Target Compounds						

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

Sample Results: **PL093385.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093385.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:13
Operator : AR\AJ
Sample : P5277-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

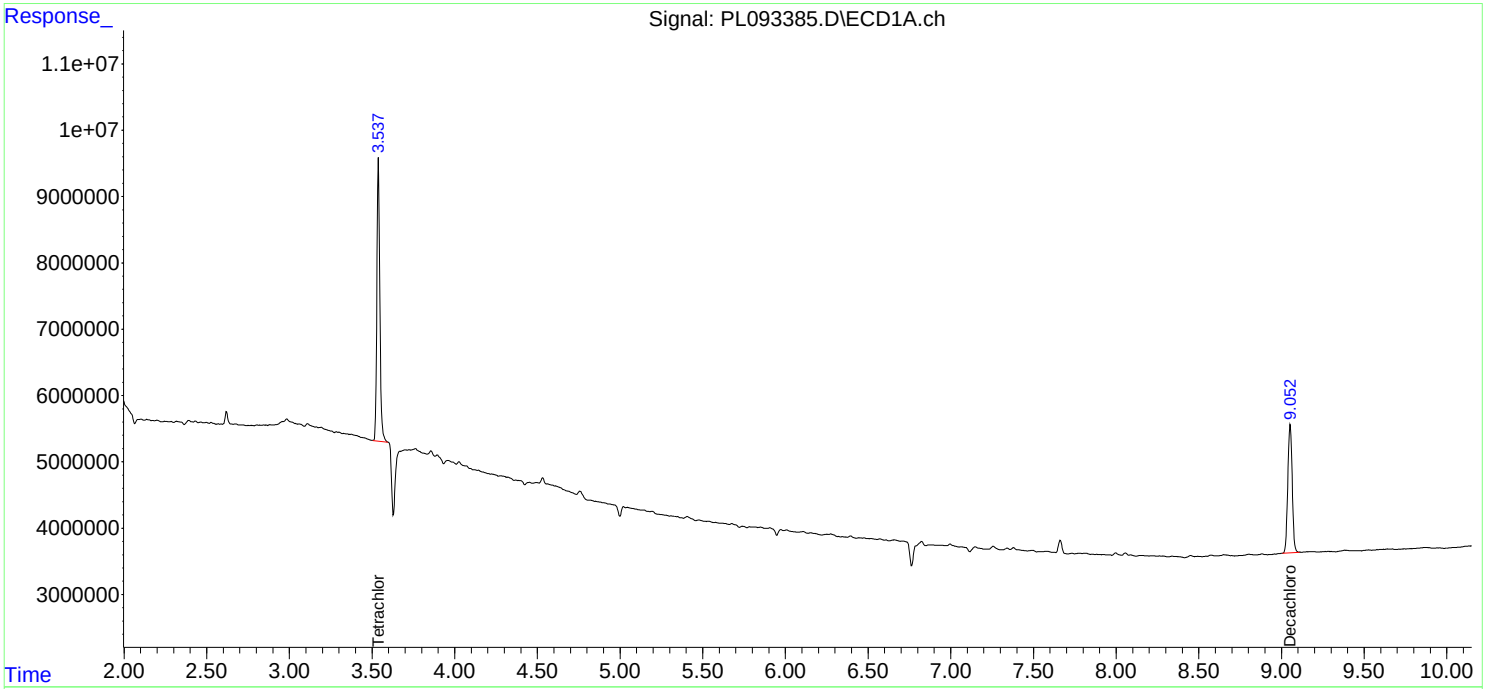
Instrument :
ECD_L
ClientSampleId :
COMP-1A

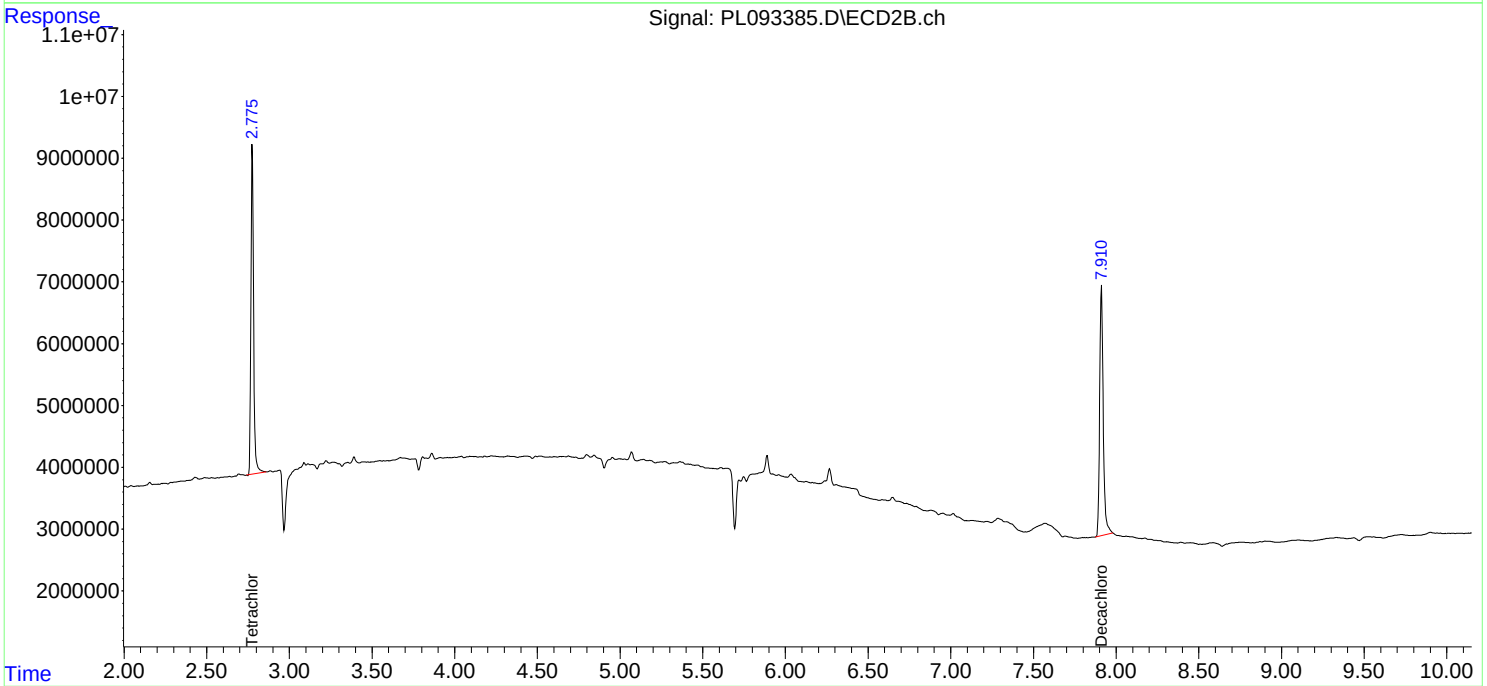
Manual Integrations APPROVED

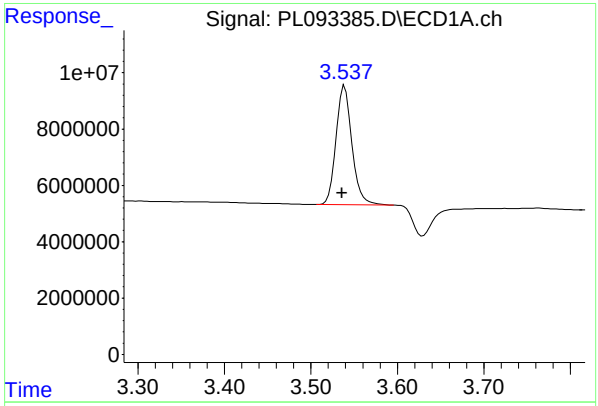
Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:16:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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







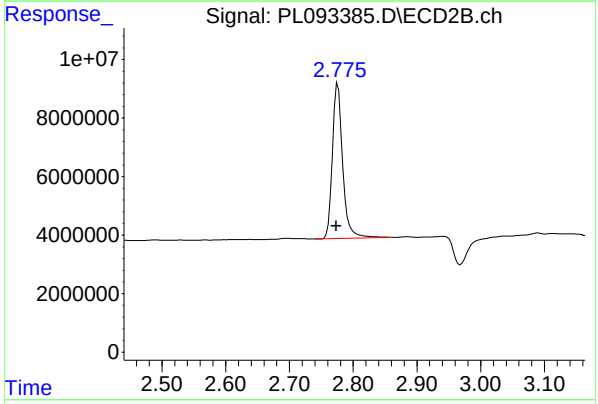
#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: 0.001 mi
Response: 53469636
Conc: 20.57 ng/m

Instrument :
ECD_L
ClientSampleId :
COMP-1A

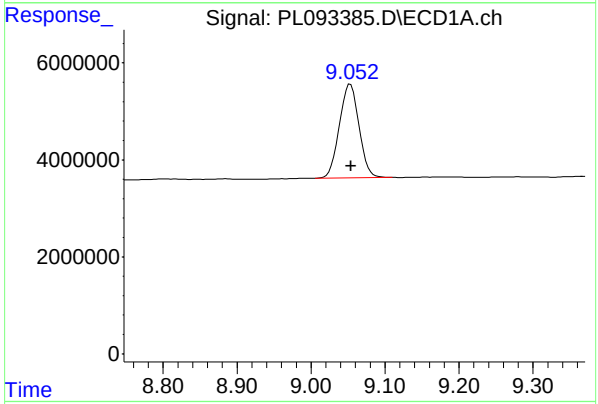
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024



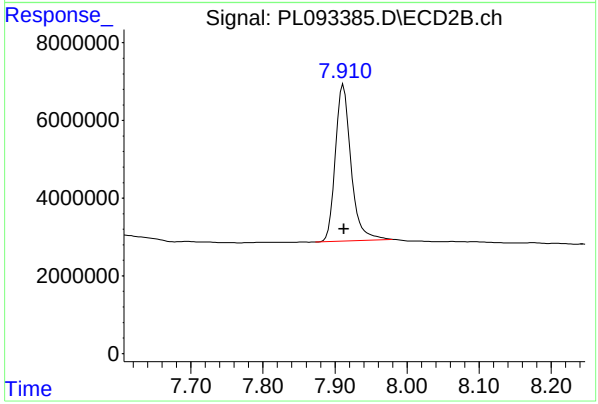
#1 Tetrachloro-m-xylene

R.T.: 2.776 min
Delta R.T.: 0.002 min
Response: 59292164
Conc: 20.56 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 min
Response: 35641328
Conc: 20.50 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.912 min
Delta R.T.: 0.000 min
Response: 60643566
Conc: 21.23 ng/ml

Raw Data: **PL093386.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093386.D	1	12/16/24 08:51	12/16/24 14:26	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.20	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.20	ug/kg
72-54-8	4,4-DDD	0.24	U	0.24	2.20	ug/kg
50-29-3	4,4-DDT	0.22	U	0.22	2.20	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		10 - 148	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.8		10 - 159	109%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093386.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093386.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:26
Operator : AR\AJ
Sample : P5277-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
COMP-2A

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.538	2.776	55997268	62955161	21.546m	21.829
28)	SA Decachlor...	9.052	7.910	35387641	52195023	20.355	18.273
	Target Compounds						

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

Sample Results: **PL093386.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093386.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:26
Operator : AR\AJ
Sample : P5277-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

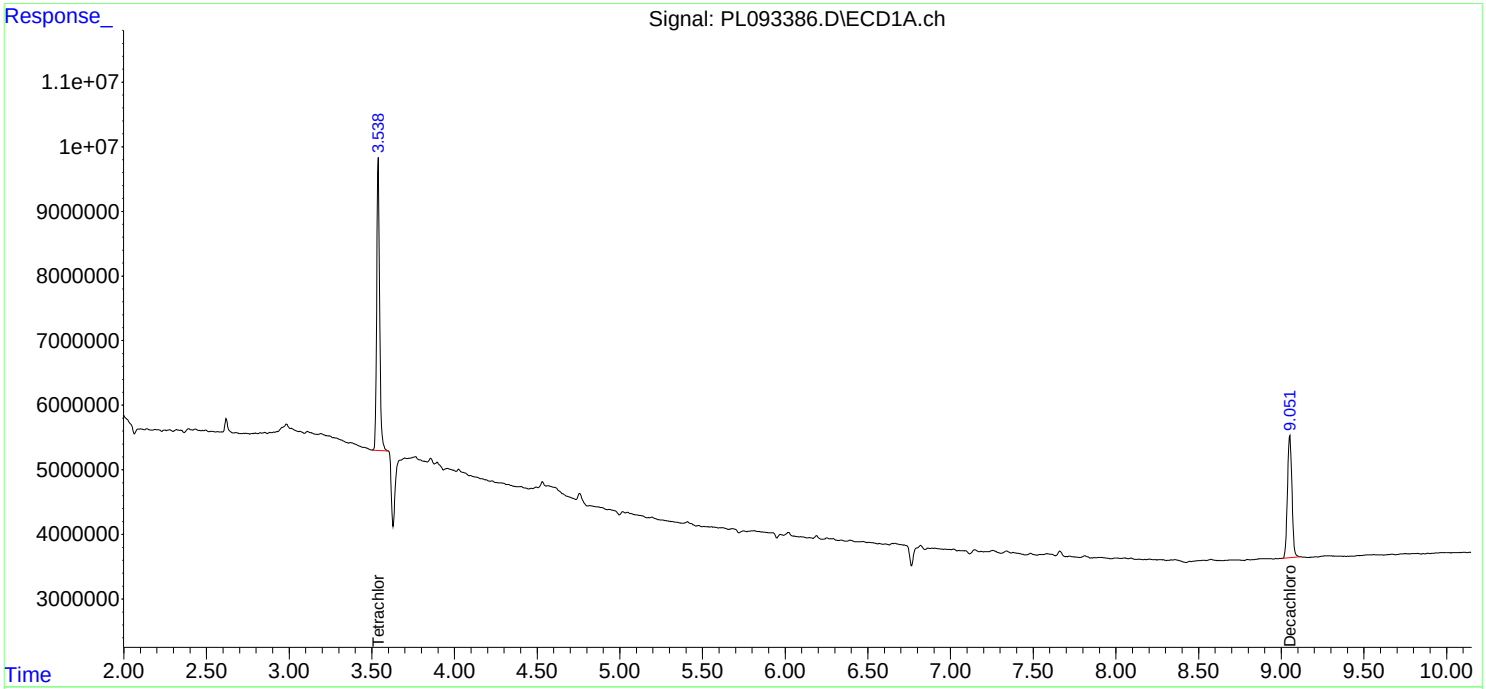
Instrument :
ECD_L
ClientSampleId :
COMP-2A

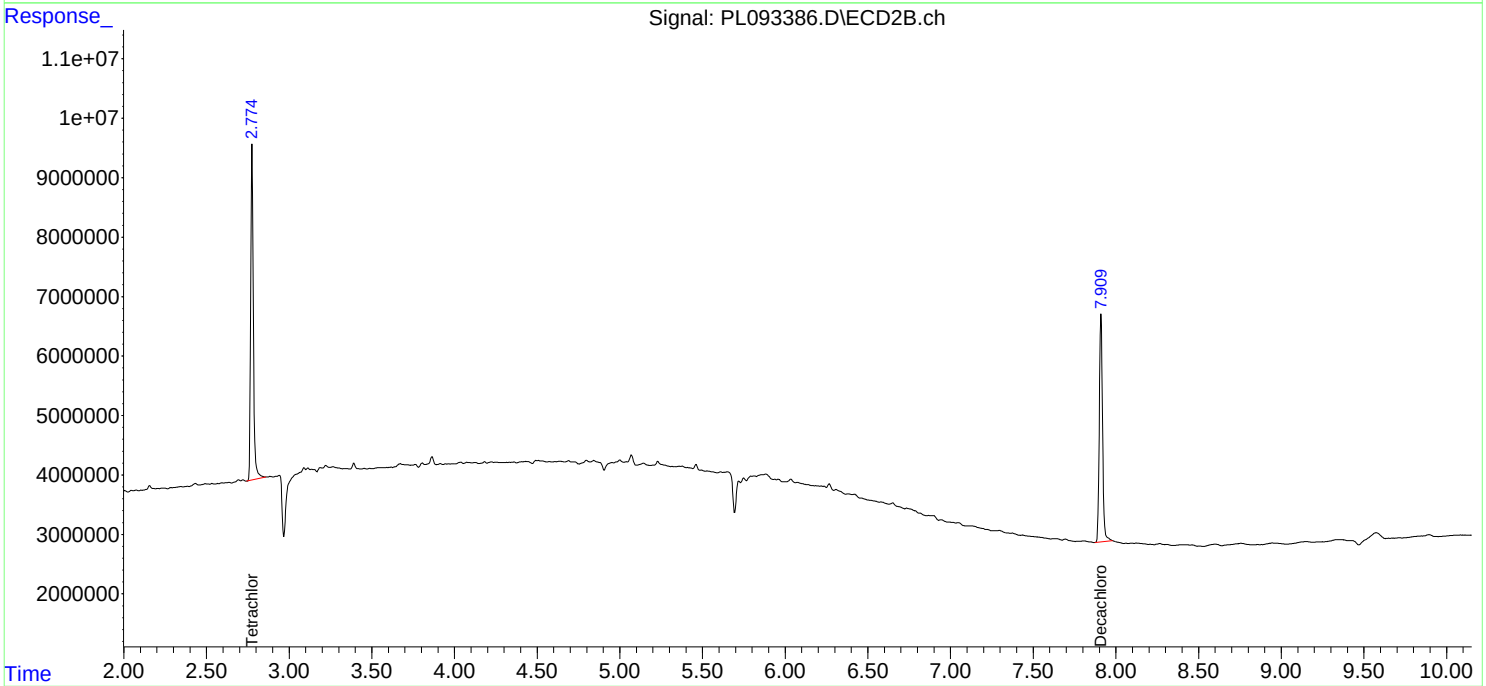
Manual Integrations APPROVED

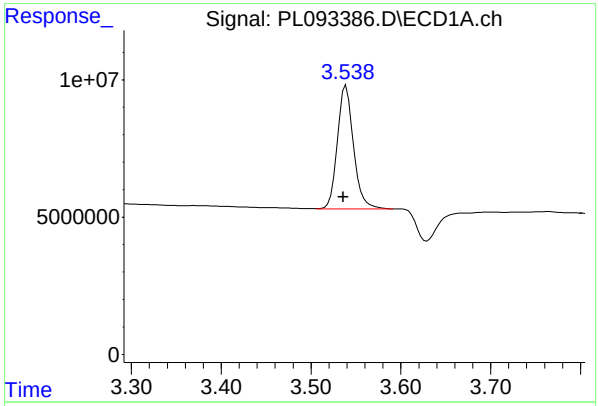
Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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







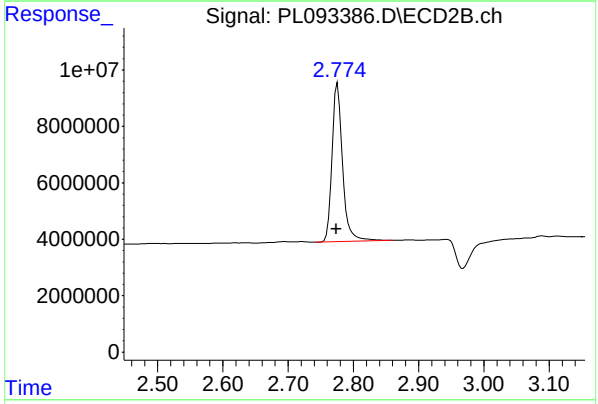
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.002 min
Response: 55997268
Conc: 21.55 ng/ml

Instrument :
ECD_L
ClientSampleId :
COMP-2A

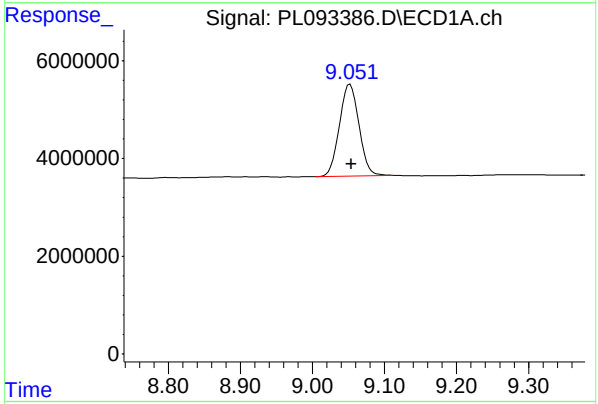
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024



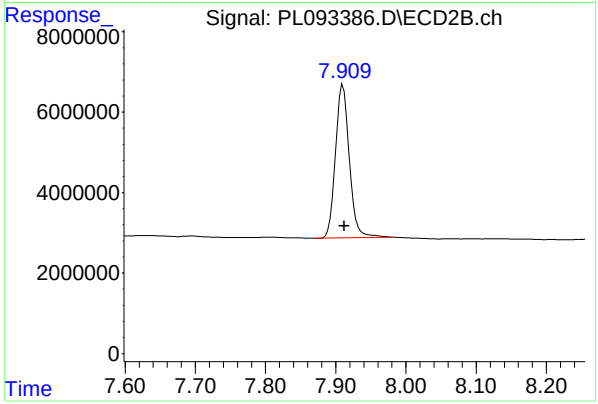
#1 Tetrachloro-m-xylene

R.T.: 2.776 min
Delta R.T.: 0.002 min
Response: 62955161
Conc: 21.83 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: -0.002 min
Response: 35387641
Conc: 20.35 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.910 min
Delta R.T.: -0.002 min
Response: 52195023
Conc: 18.27 ng/ml

Raw Data: **PL093389.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	89.9 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093389.D	1	12/16/24 08:51	12/16/24 15:07	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	0.31	J	0.14	1.90	ug/kg
72-54-8	4,4-DDD	0.31	J	0.21	1.90	ug/kg
50-29-3	4,4-DDT	0.29	J	0.19	1.90	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.7		10 - 148	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.2		10 - 159	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

Sample Results: **PL093389.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093389.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 15:07
Operator : AR\AJ
Sample : P5277-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
COMP-3A

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:18:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.537	2.775	56708463	63930551	21.820m	22.167
28) SA	Decachlor...	9.053	7.911	41255772	62843841	23.730	22.001
	Target Compounds						
11) B	alpha-Chl...	6.020	5.039	2065514	1662762	0.797m	0.458 #
12) B	4,4'-DDE	6.191	5.230	1931342	2487394	0.826	0.695
16) A	4,4'-DDD	6.707	5.785	989938	2321264	0.540m	0.828m#
17) MA	4,4'-DDT	7.021	6.033	1237733	2349094	0.642m	0.793m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093389.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 15:07
Operator : AR\AJ
Sample : P5277-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

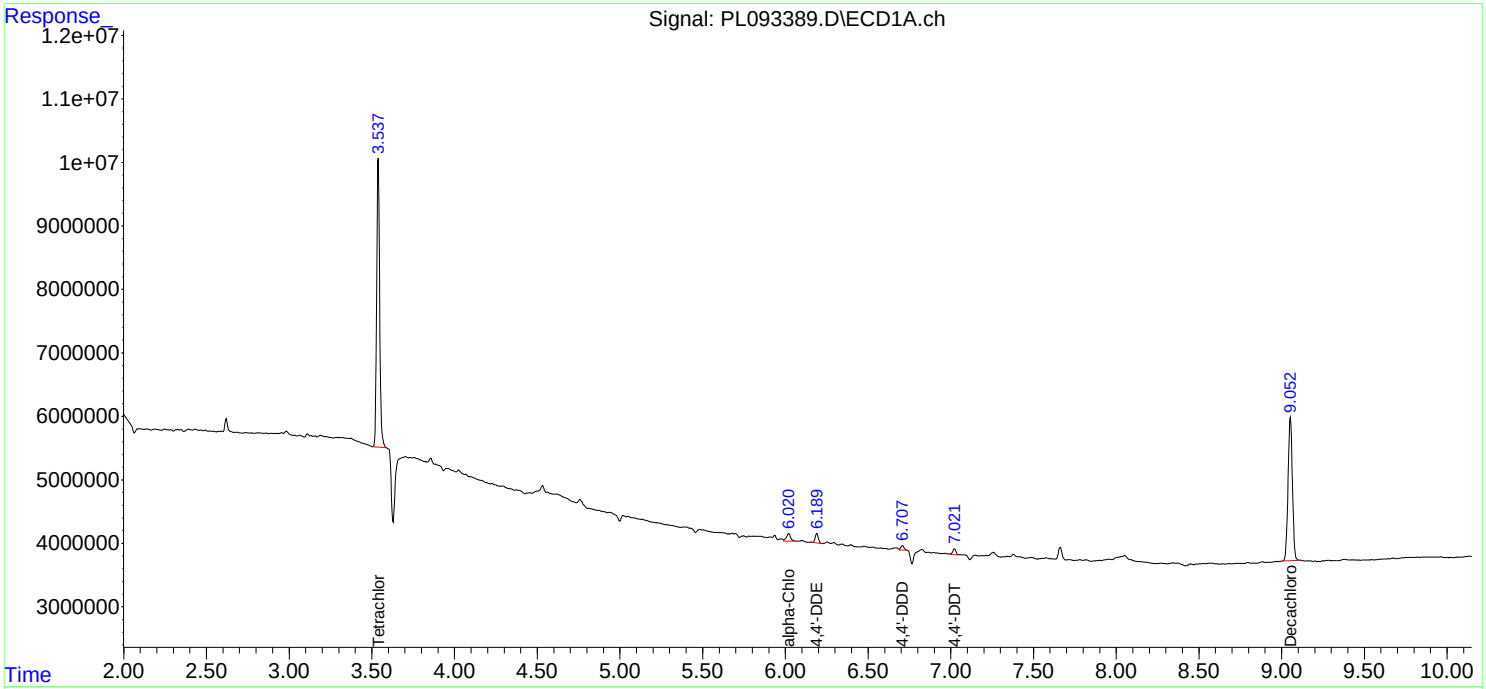
Instrument :
ECD_L
ClientSampleId :
COMP-3A

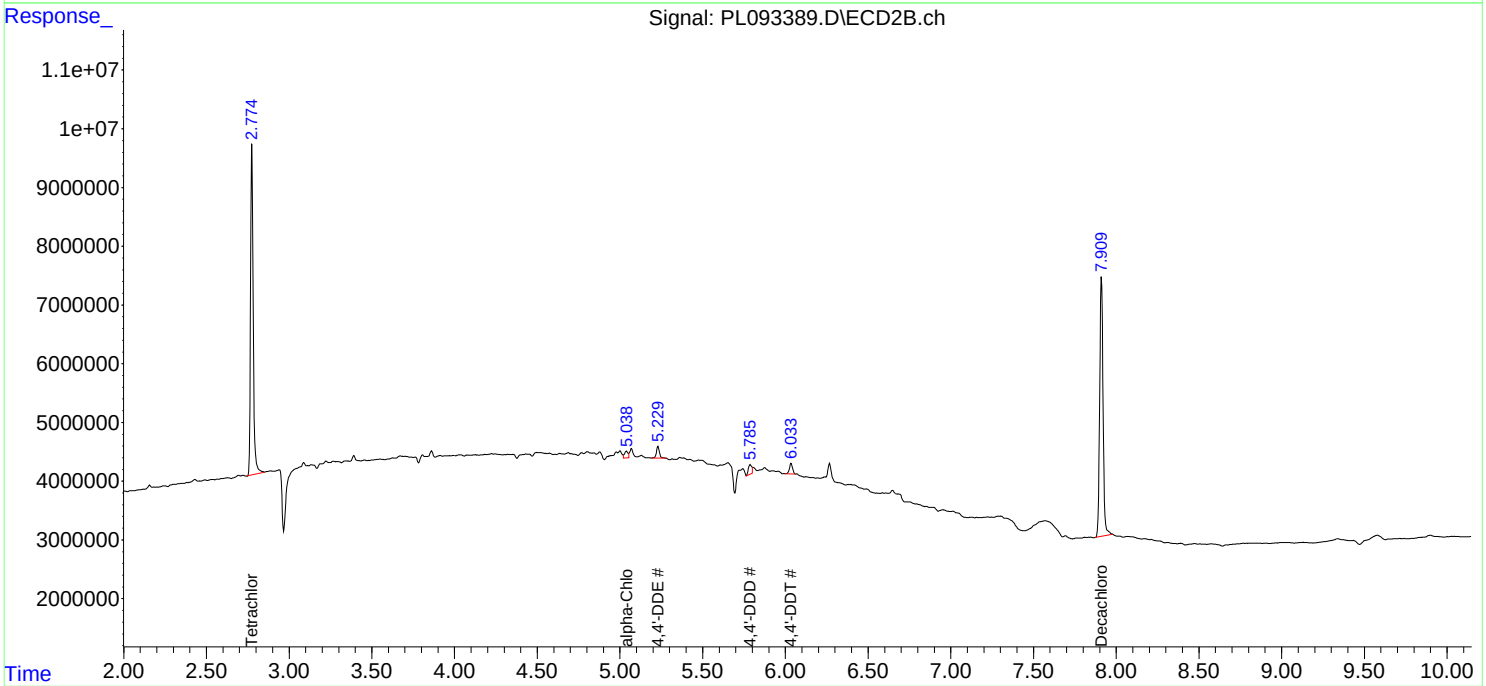
Manual Integrations APPROVED

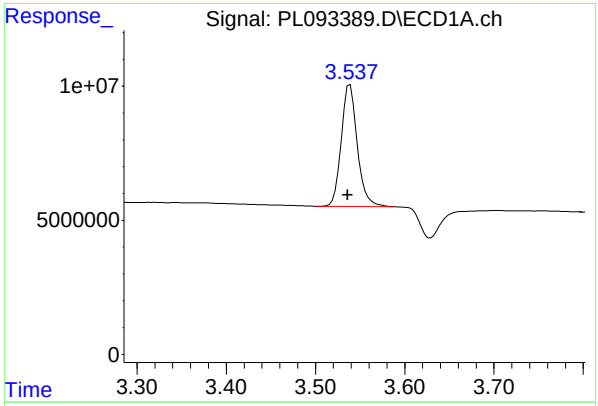
Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:18:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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







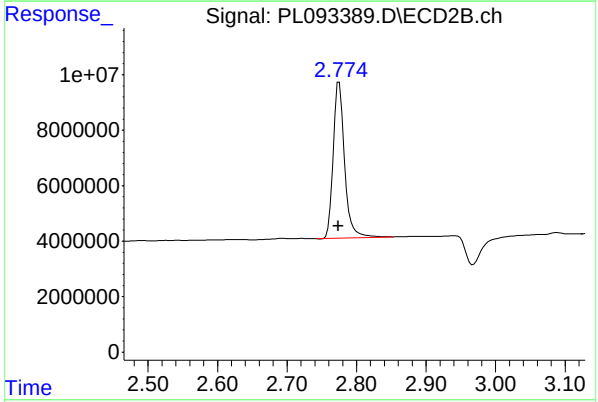
#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: 0.001 mi
Response: 56708463
Conc: 21.82 ng/m

Instrument :
ECD_L
ClientSampleId :
COMP-3A

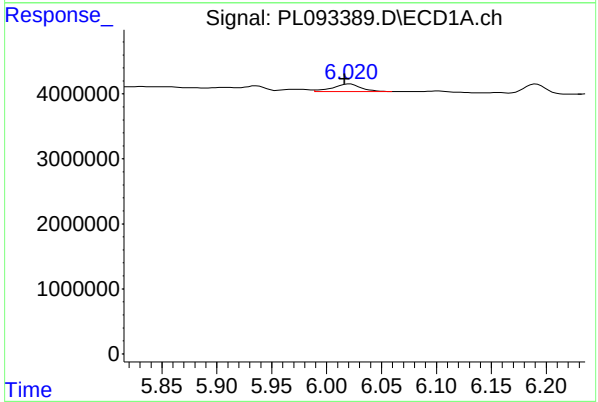
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024



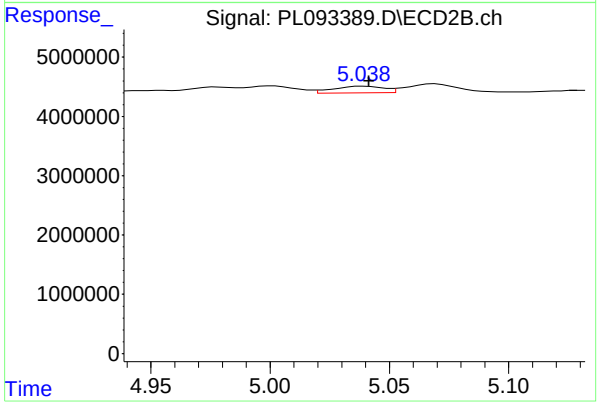
#1 Tetrachloro-m-xylene

R.T.: 2.775 min
Delta R.T.: 0.002 min
Response: 63930551
Conc: 22.17 ng/ml



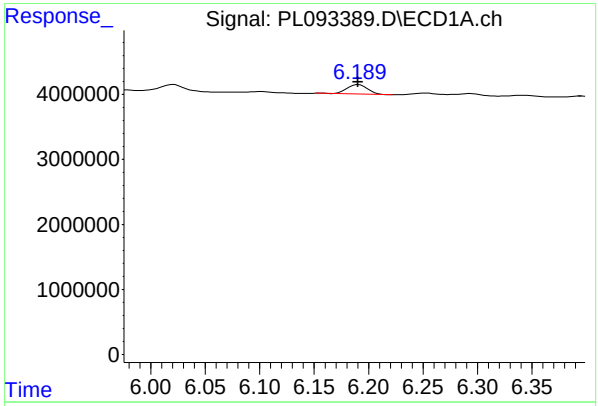
#11 alpha-Chlordane

R.T.: 6.020 min
Delta R.T.: 0.003 min
Response: 2065514
Conc: 0.80 ng/ml m



#11 alpha-Chlordane

R.T.: 5.039 min
Delta R.T.: -0.002 min
Response: 1662762
Conc: 0.46 ng/ml



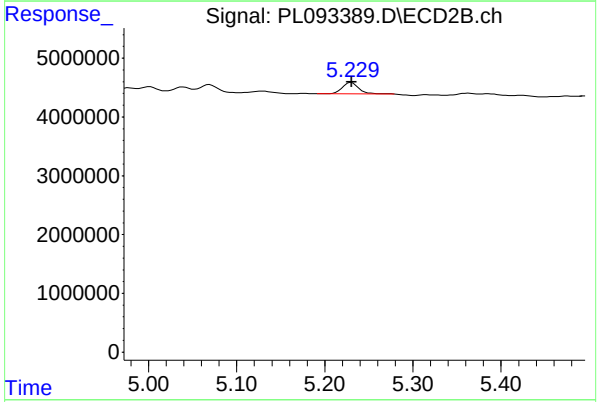
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.000 mi
Response: 1931342
Conc: 0.83 ng/m

Instrument :
ECD_L
ClientSampleId :
COMP-3A

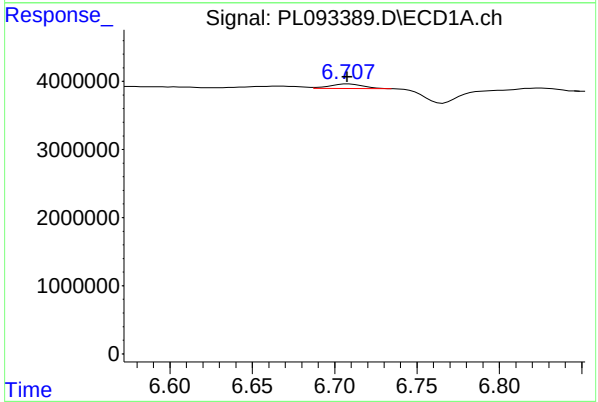
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024



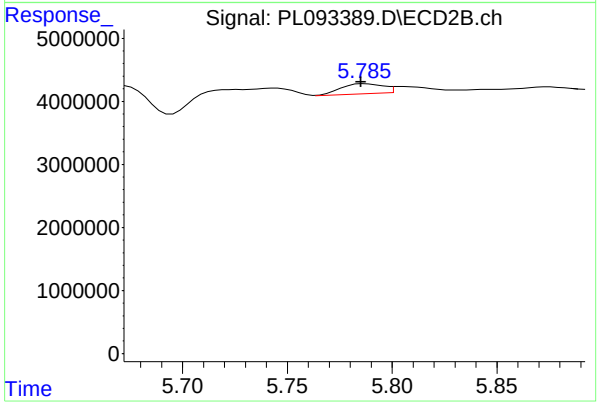
#12 4,4'-DDE

R.T.: 5.230 min
Delta R.T.: 0.000 min
Response: 2487394
Conc: 0.69 ng/ml



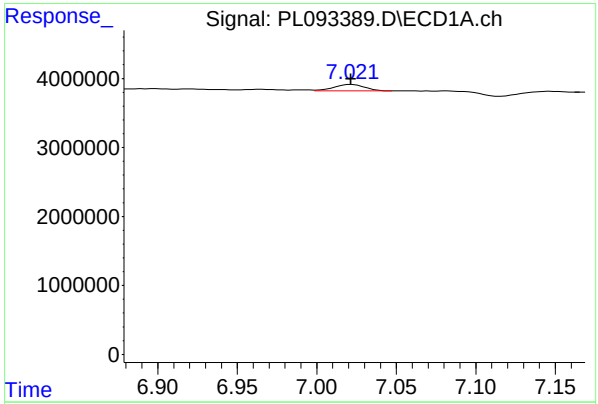
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: -0.001 min
Response: 989938
Conc: 0.54 ng/ml m



#16 4,4'-DDD

R.T.: 5.785 min
Delta R.T.: 0.000 min
Response: 2321264
Conc: 0.83 ng/ml m



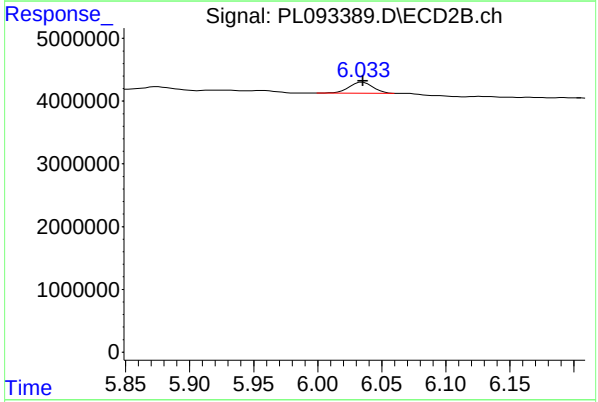
#17 4,4'-DDT

R.T.: 7.021 min
Delta R.T.: 0.000 mi
Response: 1237733
Conc: 0.64 ng/m

Instrument :
ECD_L
ClientSampleId :
COMP-3A

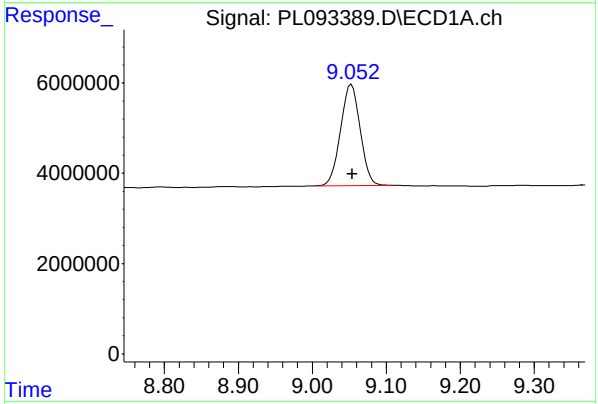
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024



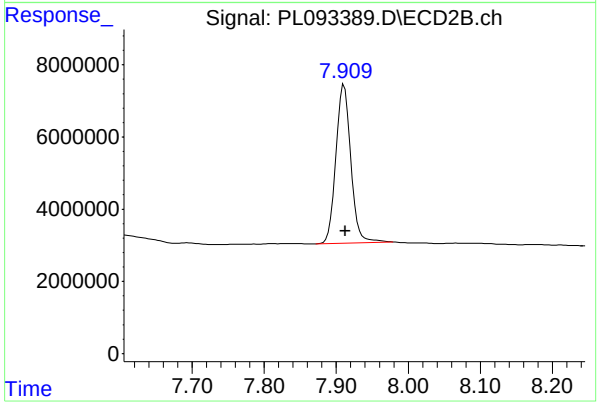
#17 4,4'-DDT

R.T.: 6.033 min
Delta R.T.: -0.002 min
Response: 2349094
Conc: 0.79 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: -0.001 min
Response: 41255772
Conc: 23.73 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.911 min
Delta R.T.: -0.001 min
Response: 62843841
Conc: 22.00 ng/ml

CALIBRATION SUMMARY

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L **Calibration Date(s):** 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

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

LAB FILE ID: RT 100 = PL093233.D RT 075 = PL093234.D

RT 050 = PL093235.D RT 025 = PL093236.D RT 005 = PL093237.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.25	5.26	5.26	5.25	5.26	5.25	5.15	5.35
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L **Calibration Date(s):** 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

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

LAB FILE ID: RT 100 = PL093233.D RT 075 = PL093234.D

RT 050 = PL093235.D RT 025 = PL093236.D RT 005 = PL093237.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.78	5.79	5.78	5.79	5.78	5.68	5.88
4,4'-DDE	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
4,4'-DDT	6.04	6.04	6.04	6.04	6.04	6.03	5.93	6.13
Aldrin	4.23	4.22	4.23	4.22	4.22	4.22	4.12	4.32
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
Dieldrin	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L

Calibration Date(s): 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

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

LAB FILE ID: **CF 100 =** PL093233.D **CF 075 =** PL093234.D

CF 050 = PL093235.D **CF 025 =** PL093236.D **CF 005 =** PL093237.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1733160000	1808650000	1850720000	1925860000	1843070000	1832290000	4
4,4'-DDE	2221210000	2350500000	2360510000	2470590000	2293780000	2339320000	4
4,4'-DDT	1832790000	1947390000	1967960000	2054550000	1836470000	1927830000	5
Aldrin	2864930000	2979570000	3025940000	3161520000	3003890000	3007170000	4
Decachlorobiphenyl	1636890000	1805930000	1768720000	1908190000	1572960000	1738540000	8
Dieldrin	2424230000	2526570000	2583130000	2696740000	2585100000	2563150000	4
Tetrachloro-m-xylene	2478960000	2567570000	2623850000	2737290000	2587160000	2598970000	4

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L **Calibration Date(s):** 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

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

LAB FILE ID: **CF 100 =** PL093233.D **CF 075 =** PL093234.D

CF 050 = PL093235.D **CF 025 =** PL093236.D **CF 005 =** PL093237.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2938310000	3008290000	2954750000	2869940000	2245840000	2803430000	11
4,4'-DDE	3669800000	3789570000	3752520000	3699990000	2988240000	3580020000	9
4,4'-DDT	3053250000	3213950000	3132520000	3008670000	2400480000	2961770000	11
Aldrin	4176660000	4246280000	4177830000	4064810000	3228690000	3978850000	11
Decachlorobiphenyl	2704170000	2907150000	2926840000	3026130000	2717990000	2856460000	5
Dieldrin	3827290000	3925470000	3861790000	3769600000	3043370000	3685500000	10
Tetrachloro-m-xylene	2925820000	2968760000	2977700000	3001480000	2546340000	2884020000	7

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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: _____ **Date(s) Analyzed:** _____ _____

GC Column: _____ **ID:** _____ (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
		1				
		2				
		3				
		4				
		5				

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:32
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:49:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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...	3.536	2.774	247.9E6	292.6E6	97.160	99.121
28)	SA	Decachlor...	9.053	7.912	163.7E6	270.4E6	96.129	96.046
		Target Compounds						
2)	A	alpha-BHC	3.991	3.276	354.7E6	458.4E6	98.878	100.691
3)	MA	gamma-BHC...	4.324	3.607	332.7E6	440.0E6	98.486	100.480
4)	MA	Heptachlor	4.912	3.945	286.5E6	416.0E6	96.479	99.138
5)	MB	Aldrin	5.254	4.225	286.5E6	417.7E6	97.267	99.986
6)	B	beta-BHC	4.522	3.906	138.4E6	176.2E6	95.399	98.041
7)	B	delta-BHC	4.769	4.135	315.6E6	441.2E6	97.668	99.420
8)	B	Heptachlo...	5.680	4.727	254.4E6	372.1E6	95.920	98.908
9)	A	Endosulfan I	6.066	5.097	227.6E6	341.4E6	96.313	98.766
10)	B	gamma-Chl...	5.937	4.977	244.3E6	380.0E6	96.670	99.452
11)	B	alpha-Chl...	6.016	5.041	243.0E6	372.0E6	96.540	99.033
12)	B	4,4'-DDE	6.189	5.230	222.1E6	367.0E6	96.960	98.886
13)	MA	Dieldrin	6.341	5.362	242.4E6	382.7E6	96.827	99.551
14)	MA	Endrin	6.571	5.637	201.5E6	328.5E6	97.479	99.448
15)	B	Endosulfa...	6.791	5.932	203.4E6	318.0E6	96.158	97.784
16)	A	4,4'-DDD	6.707	5.785	173.3E6	293.8E6	96.720	99.721
17)	MA	4,4'-DDT	7.020	6.035	183.3E6	305.3E6	96.444	98.718
18)	B	Endrin al...	6.921	6.111	164.9E6	254.5E6	95.035	97.099
19)	B	Endosulfa...	7.156	6.334	188.1E6	298.0E6	95.092	97.442
20)	A	Methoxychlor	7.497	6.610	96794611	148.6E6	94.729	96.637
21)	B	Endrin ke...	7.641	6.839	212.3E6	334.8E6	95.732	97.483
22)		Mirex	8.114	7.019	163.6E6	258.7E6	94.396	96.295

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

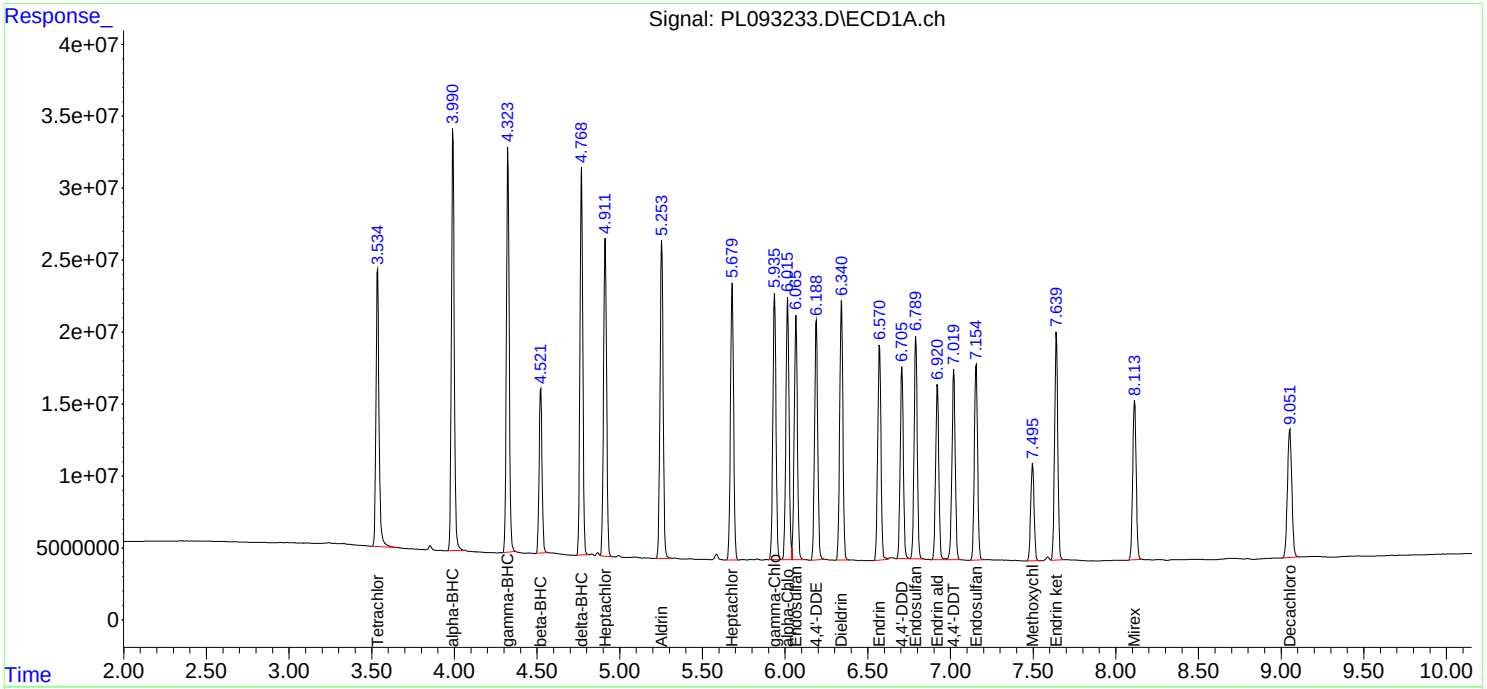
ICAL Form

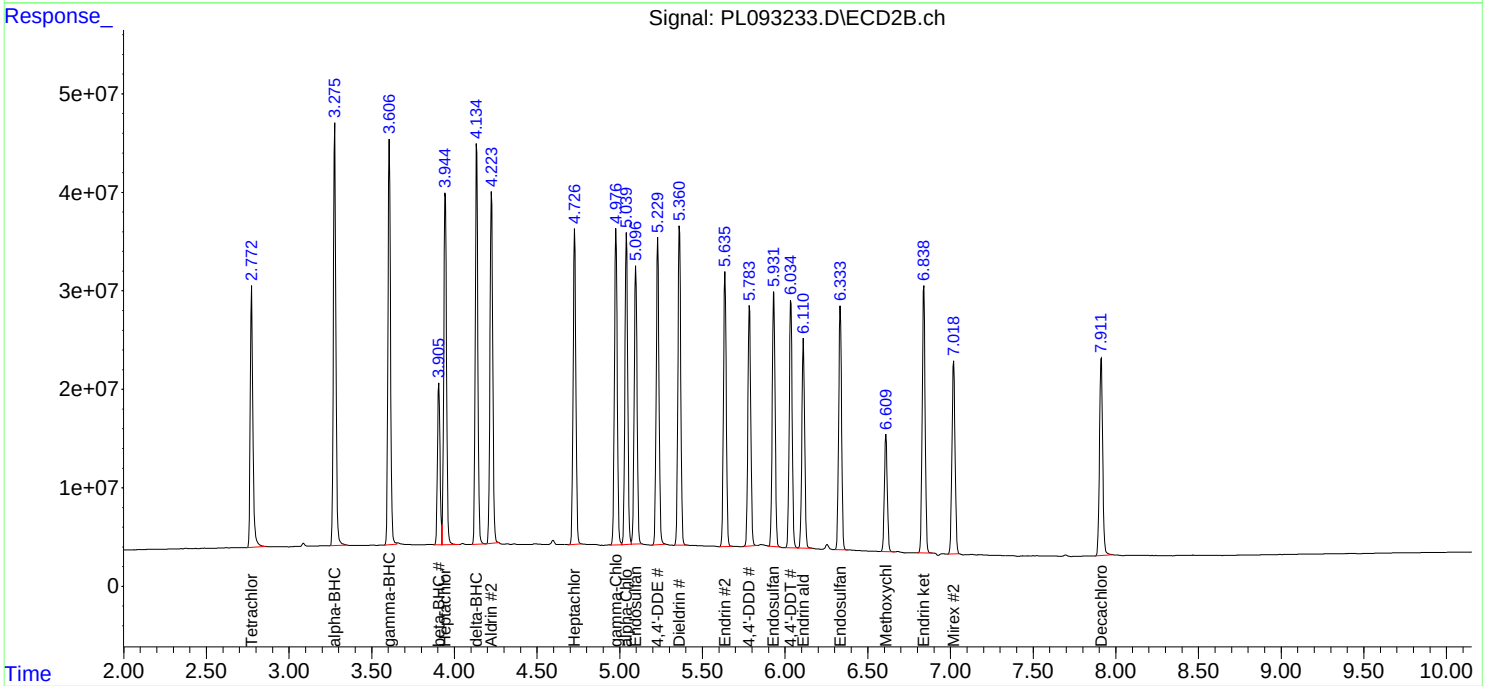
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:32
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:49:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:45
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:51:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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...	3.536	2.773	192.6E6	222.7E6	75.316	75.287
28) SA	Decachlor...	9.053	7.912	135.4E6	218.0E6	77.968	76.610
	Target Compounds						
2) A	alpha-BHC	3.992	3.276	272.6E6	344.9E6	75.666	75.499
3) MA	gamma-BHC...	4.325	3.606	257.2E6	333.3E6	75.757	75.742
4) MA	Heptachlor	4.913	3.945	225.9E6	320.2E6	75.723	75.863
5) MB	Aldrin	5.255	4.224	223.5E6	318.5E6	75.577	75.822
6) B	beta-BHC	4.523	3.906	110.0E6	136.3E6	75.524	75.543
7) B	delta-BHC	4.770	4.135	247.3E6	339.7E6	76.011	76.020
8) B	Heptachlo...	5.681	4.727	199.4E6	286.5E6	75.130	75.760
9) A	Endosulfan I	6.066	5.097	179.0E6	263.9E6	75.488	75.895
10) B	gamma-Chl...	5.937	4.977	191.5E6	291.5E6	75.510	75.853
11) B	alpha-Chl...	6.016	5.041	190.5E6	286.7E6	75.450	75.887
12) B	4,4'-DDE	6.190	5.230	176.3E6	284.2E6	76.290	76.049
13) MA	Dieldrin	6.342	5.361	189.5E6	294.4E6	75.456	76.045
14) MA	Endrin	6.571	5.637	158.4E6	255.5E6	76.062	76.534
15) B	Endosulfa...	6.791	5.931	160.5E6	249.4E6	75.603	76.124
16) A	4,4'-DDD	6.707	5.784	135.6E6	225.6E6	75.465	76.041
17) MA	4,4'-DDT	7.021	6.035	146.1E6	241.0E6	76.227	76.932
18) B	Endrin al...	6.921	6.111	131.7E6	200.0E6	75.610	75.865
19) B	Endosulfa...	7.156	6.333	150.4E6	234.0E6	75.659	75.996
20) A	Methoxychlor	7.497	6.610	78538622	118.8E6	76.231	76.489
21) B	Endrin ke...	7.641	6.839	169.8E6	262.9E6	76.039	76.023
22)	Mirex	8.115	7.019	131.1E6	204.7E6	75.405	75.784

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

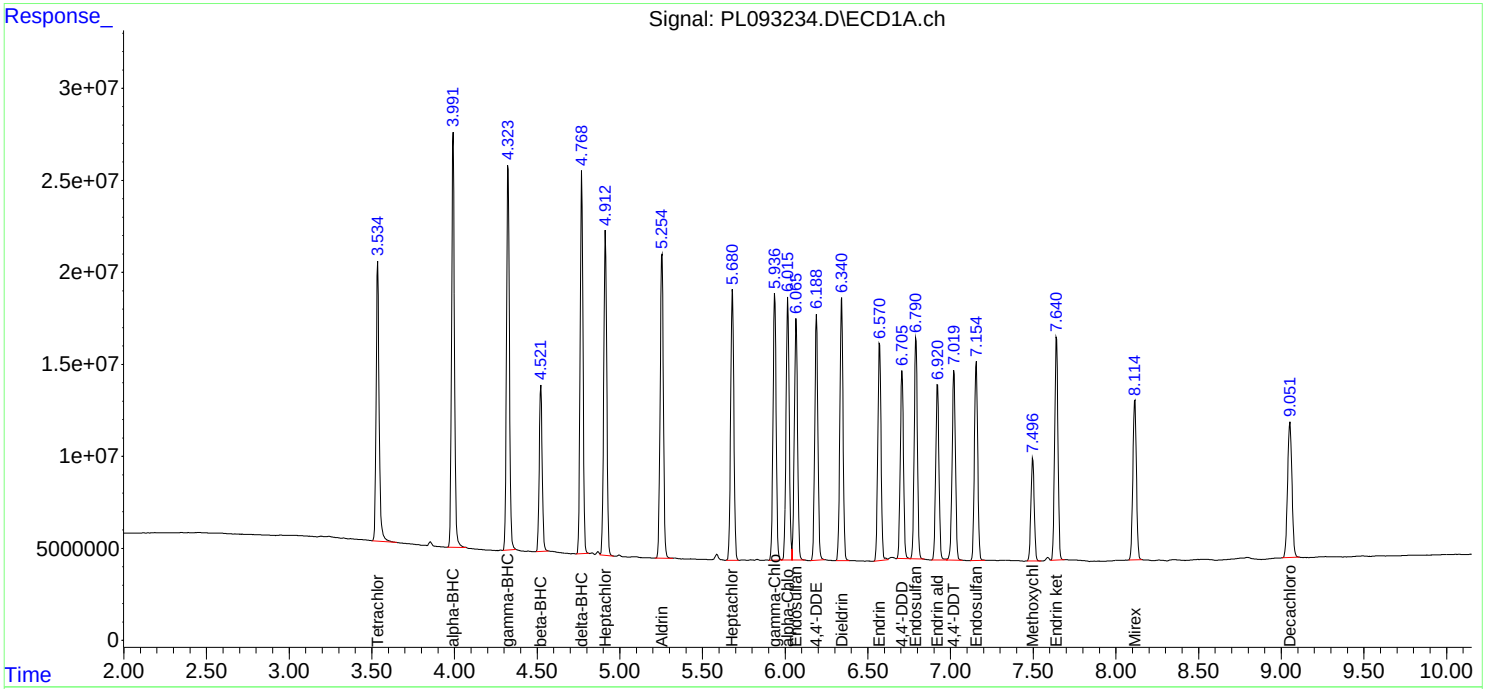
ICAL Form

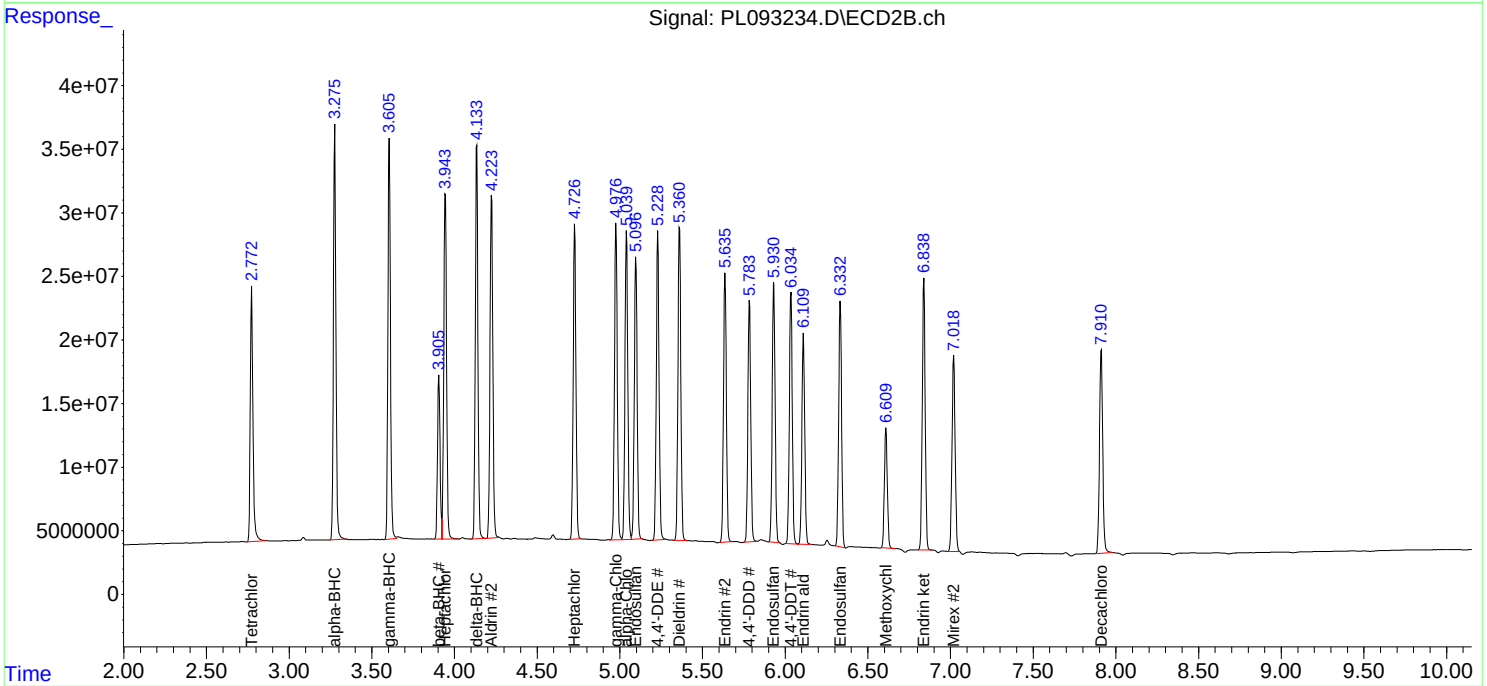
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:45
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:51:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:58
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:46:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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...	3.536	2.774	131.2E6	148.9E6	50.000	50.000
28) SA	Decachlor...	9.054	7.912	88436209	146.3E6	50.000	50.000
	Target Compounds						
2) A	alpha-BHC	3.992	3.276	181.4E6	226.1E6	50.000	50.000
3) MA	gamma-BHC...	4.325	3.606	171.4E6	217.9E6	50.000	50.000
4) MA	Heptachlor	4.913	3.945	153.7E6	211.6E6	50.000	50.000
5) MB	Aldrin	5.255	4.225	151.3E6	208.9E6	50.000	50.000
6) B	beta-BHC	4.523	3.907	75886772	91618837	50.000	50.000
7) B	delta-BHC	4.770	4.135	165.3E6	223.2E6	50.000	50.000
8) B	Heptachlo...	5.681	4.728	138.0E6	190.2E6	50.000	50.000
9) A	Endosulfan I	6.067	5.097	122.5E6	175.0E6	50.000	50.000
10) B	gamma-Chl...	5.938	4.978	130.6E6	192.1E6	50.000	50.000
11) B	alpha-Chl...	6.016	5.041	130.2E6	189.6E6	50.000	50.000
12) B	4,4'-DDE	6.190	5.230	118.0E6	187.6E6	50.000	50.000
13) MA	Dieldrin	6.342	5.362	129.2E6	193.1E6	50.000	50.000
14) MA	Endrin	6.572	5.637	106.0E6	166.1E6	50.000	50.000
15) B	Endosulfa...	6.792	5.932	109.8E6	166.2E6	50.000	50.000
16) A	4,4'-DDD	6.708	5.785	92535753	147.7E6	50.000	50.000
17) MA	4,4'-DDT	7.022	6.035	98398137	156.6E6	50.000	50.000
18) B	Endrin al...	6.922	6.111	91068660	134.9E6	50.000	50.000
19) B	Endosulfa...	7.156	6.334	103.8E6	156.8E6	50.000	50.000
20) A	Methoxychlor	7.498	6.610	53783402	79449183	50.000	50.000
21) B	Endrin ke...	7.642	6.839	115.6E6	176.0E6	50.000	50.000
22)	Mirex	8.115	7.020	91525626	139.3E6	50.000	50.000

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

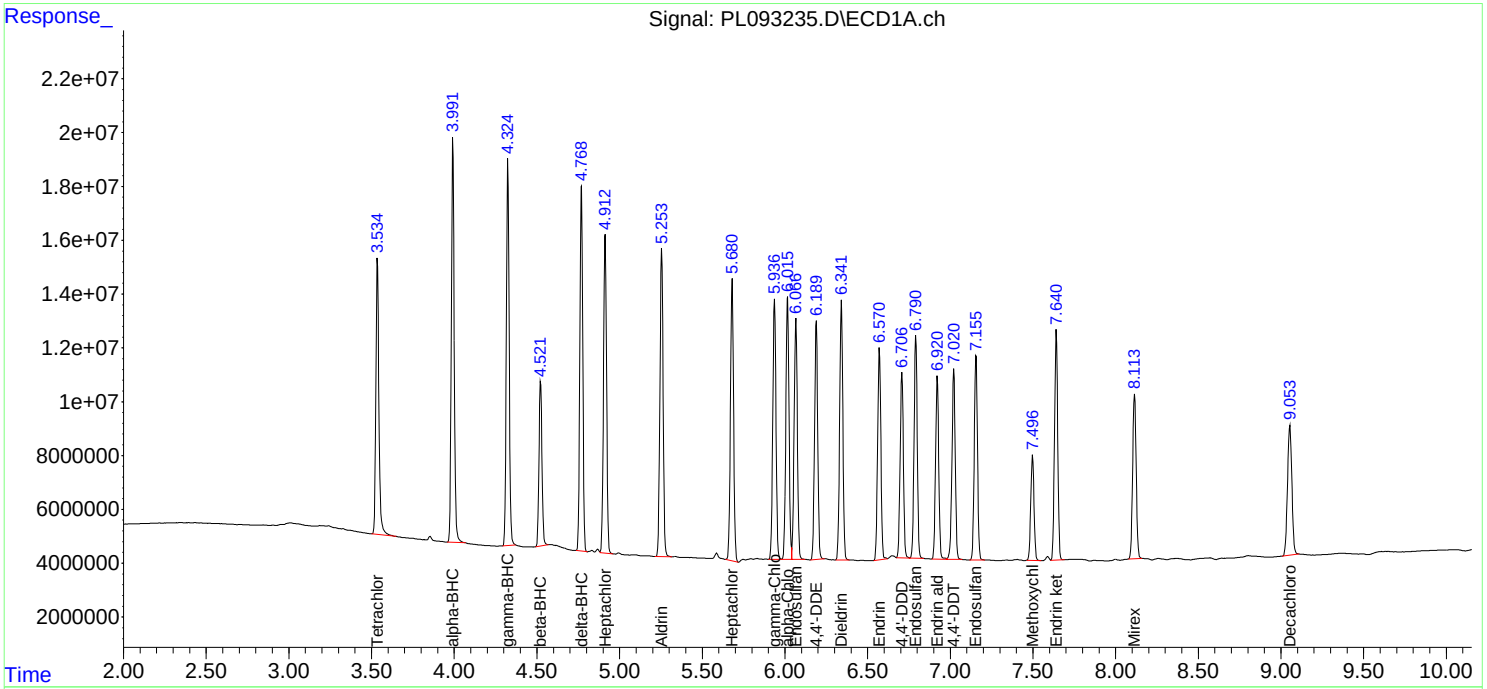
ICAL Form

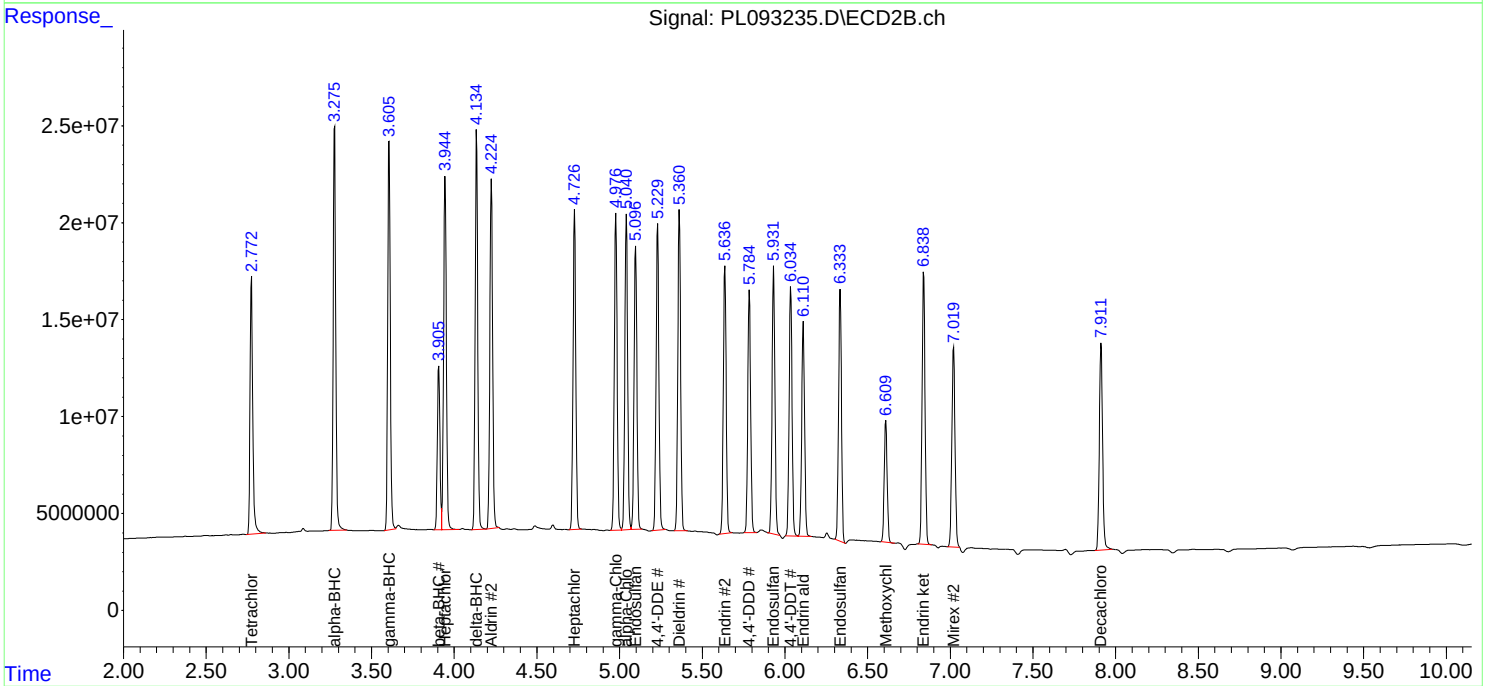
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:58
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:46:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 12:11
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:53:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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...	3.535	2.773	68432357	75037067	26.301	25.278
28)	SA	Decachlor...	9.052	7.912	47704738	75653139	26.801	26.168
		Target Compounds						
2)	A	alpha-BHC	3.991	3.276	91760662	108.1E6	25.349	23.982
3)	MA	gamma-BHC...	4.324	3.606	87651876	105.2E6	25.610	24.168
4)	MA	Heptachlor	4.912	3.945	80618924	104.6E6	26.485	24.835
5)	MB	Aldrin	5.254	4.224	79037930	101.6E6	26.276	24.390
6)	B	beta-BHC	4.522	3.906	40114208	46538246	26.865	25.596
7)	B	delta-BHC	4.769	4.135	84458229	107.8E6	25.715	24.345
8)	B	Heptachlo...	5.681	4.727	72923617	94744944	26.812	25.040
9)	A	Endosulfan I	6.066	5.097	64573475	86840358	26.642	24.980
10)	B	gamma-Chl...	5.937	4.977	68242573	95395801	26.407	24.870
11)	B	alpha-Chl...	6.016	5.040	68467935	94211296	26.554	24.950
12)	B	4,4'-DDE	6.189	5.230	61764792	92499641	26.275	24.812
13)	MA	Dieldrin	6.341	5.361	67418607	94240070	26.359	24.503
14)	MA	Endrin	6.570	5.636	55263639	80741640	26.141	24.387
15)	B	Endosulfa...	6.791	5.932	57939081	81312064	26.677	24.864
16)	A	4,4'-DDD	6.707	5.784	48146380	71748469	26.315	24.381
17)	MA	4,4'-DDT	7.021	6.035	51363851	75216763	26.331	24.247
18)	B	Endrin al...	6.921	6.110	48279210	67808844	26.979	25.534
19)	B	Endosulfa...	7.156	6.333	55318552	78047404	27.069	25.259
20)	A	Methoxychlor	7.497	6.610	28125645	40688463	26.686	25.893
21)	B	Endrin ke...	7.641	6.839	60069880	87685667	26.398	25.269
22)		Mirex	8.114	7.019	49057354	70720603	27.343	25.877

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

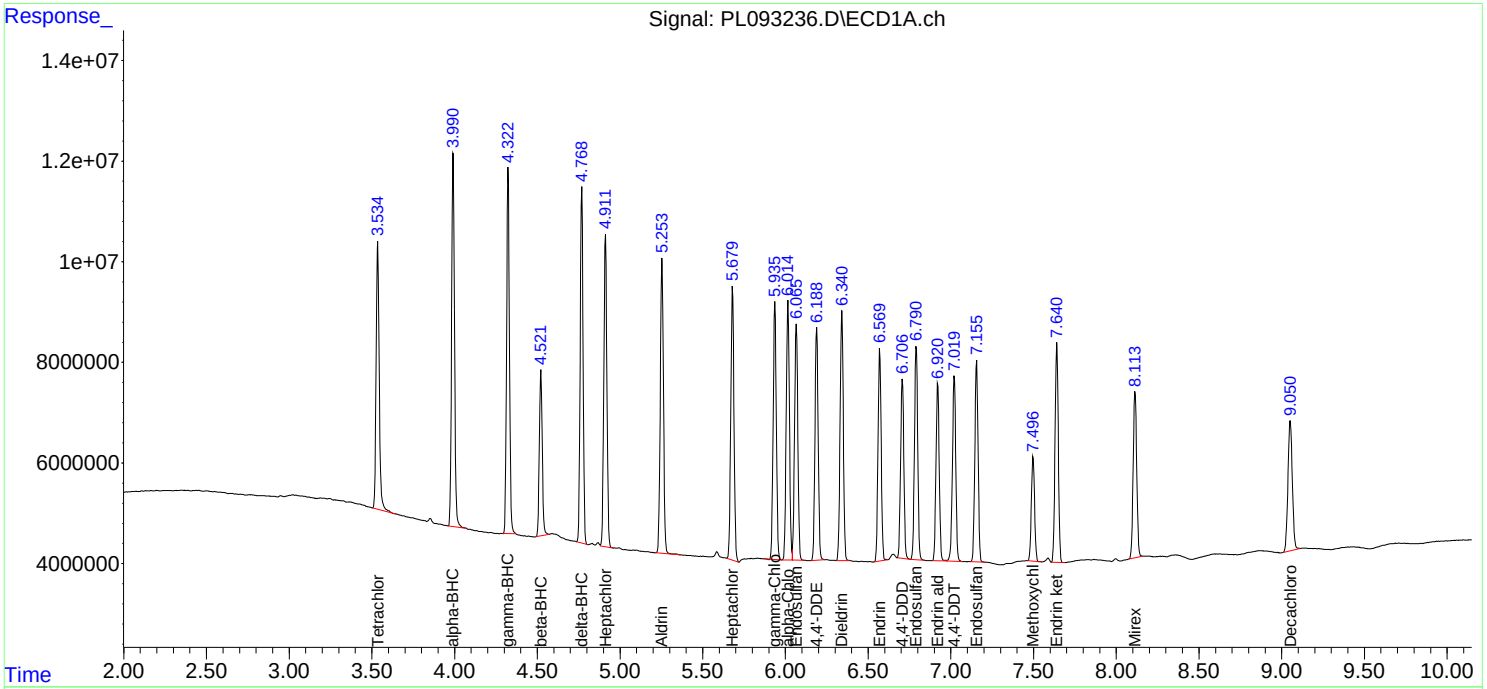
ICAL Form

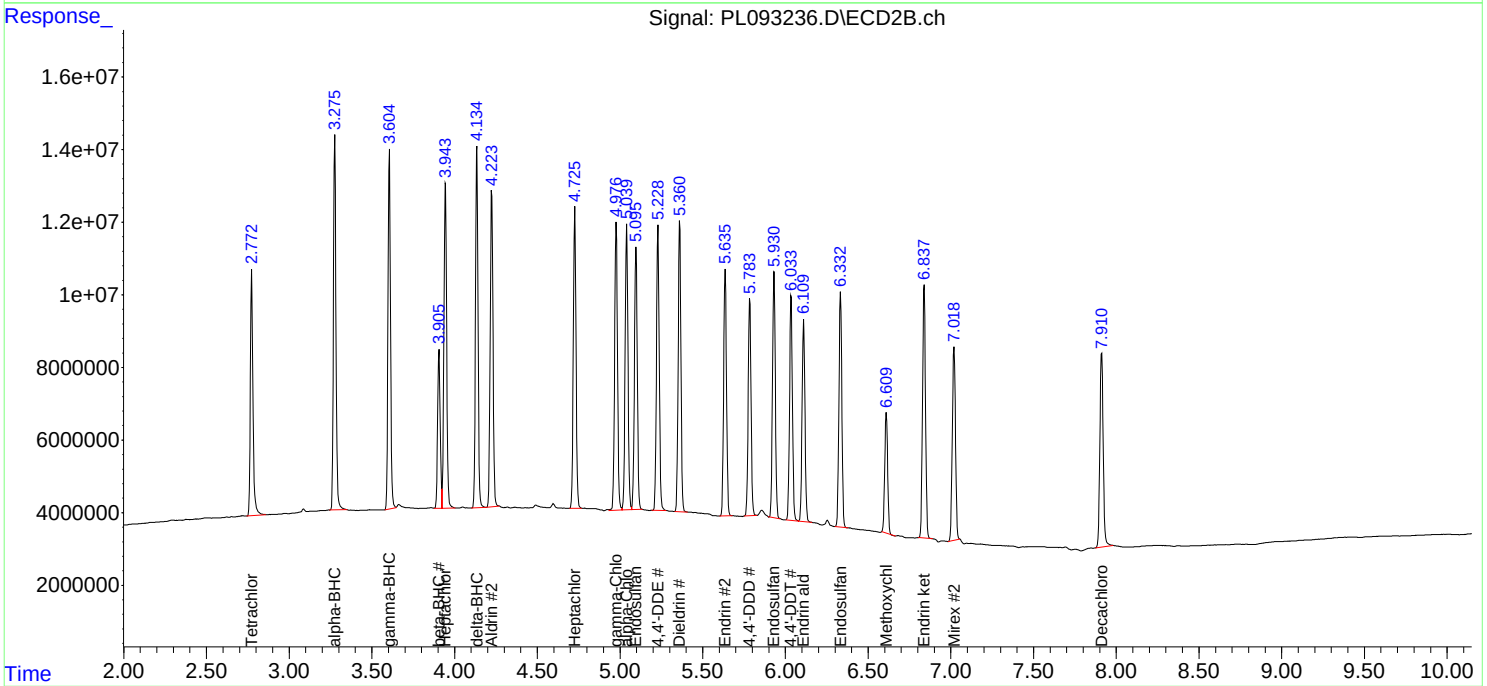
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 12:11
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:53:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:55:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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...	3.536	2.774	12935818	12731689	4.977	4.415
28)	SA	Decachlor...	9.053	7.912	7864790	13589966	4.531m	4.758
		Target Compounds						
2)	A	alpha-BHC	3.992	3.276	16814145	16598186	4.712	3.888
3)	MA	gamma-BHC...	4.324	3.606	16014261	16445252	4.740	3.973
4)	MA	Heptachlor	4.911	3.945	15523195	16915624	5.081m	4.181
5)	MB	Aldrin	5.255	4.224	15019448	16143434	4.995	4.057
6)	B	beta-BHC	4.523	3.907	7879453	8108565	5.219	4.558
7)	B	delta-BHC	4.770	4.135	17026788	18069674	5.146	4.235
8)	B	Heptachlo...	5.681	4.727	15020333	15380848	5.409	4.223
9)	A	Endosulfan I	6.067	5.097	12379386	14045867	5.086	4.202
10)	B	gamma-Chl...	5.937	4.977	12722617	15911800	4.938	4.295
11)	B	alpha-Chl...	6.016	5.041	13208242	15236516	5.098	4.197
12)	B	4,4'-DDE	6.190	5.230	11468908	14941224	4.903	4.174
13)	MA	Dieldrin	6.342	5.361	12925499	15216826	5.043	4.129
14)	MA	Endrin	6.572	5.637	10155319	13515384	4.842	4.238
15)	B	Endosulfa...	6.791	5.932	11074866	13820293	5.079	4.361
16)	A	4,4'-DDD	6.706	5.785	9215353	11229181	5.053m	4.006
17)	MA	4,4'-DDT	7.021	6.035	9182338	12002393	4.763	4.052
18)	B	Endrin al...	6.922	6.111	9374942	12445900	5.189	4.746
19)	B	Endosulfa...	7.157	6.334	10945325	14195138	5.281	4.670
20)	A	Methoxychlor	7.498	6.611	5042879	6745446	4.826	4.418
21)	B	Endrin ke...	7.642	6.839	11220438	14522912	4.945	4.326
22)		Mirex	8.115	7.018	9273747	12504313	5.134	4.647m

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

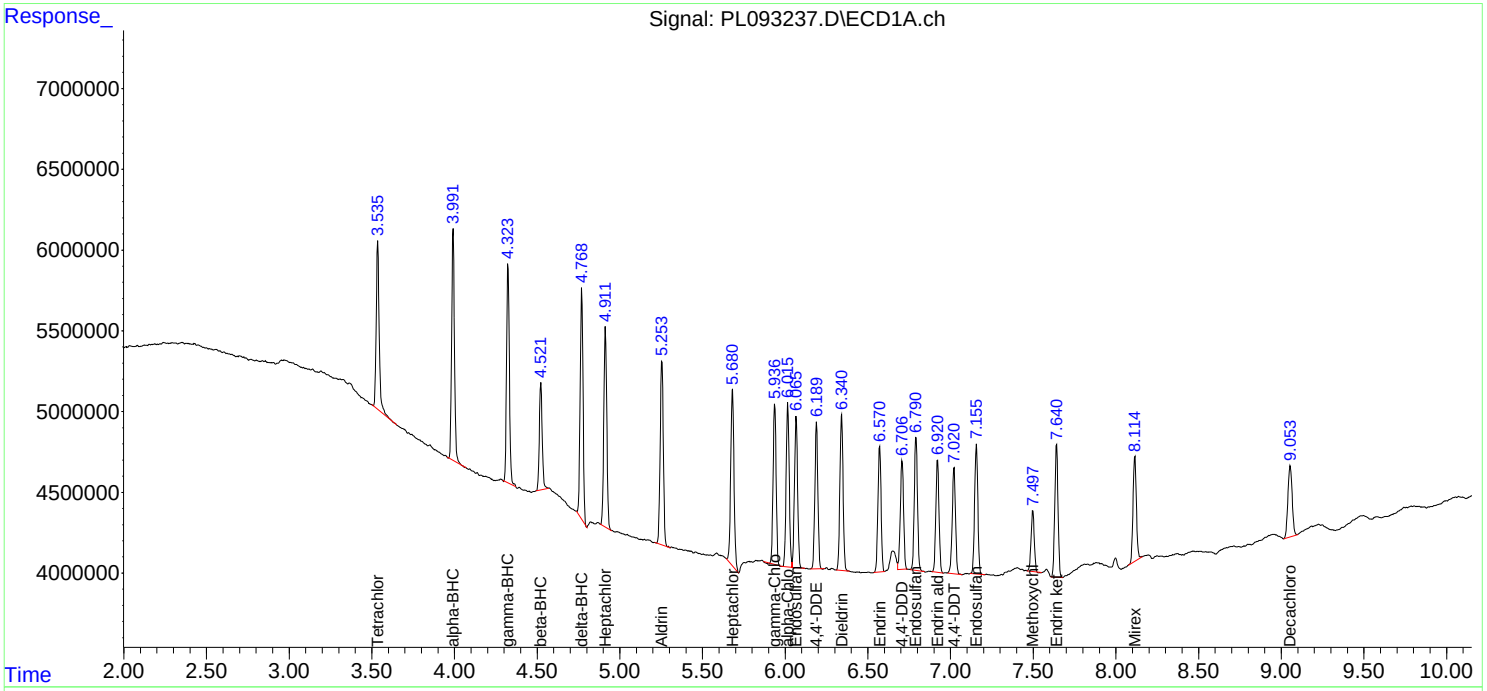
Instrument :
ECD_L
ClientSampleId :
PSTDICC005

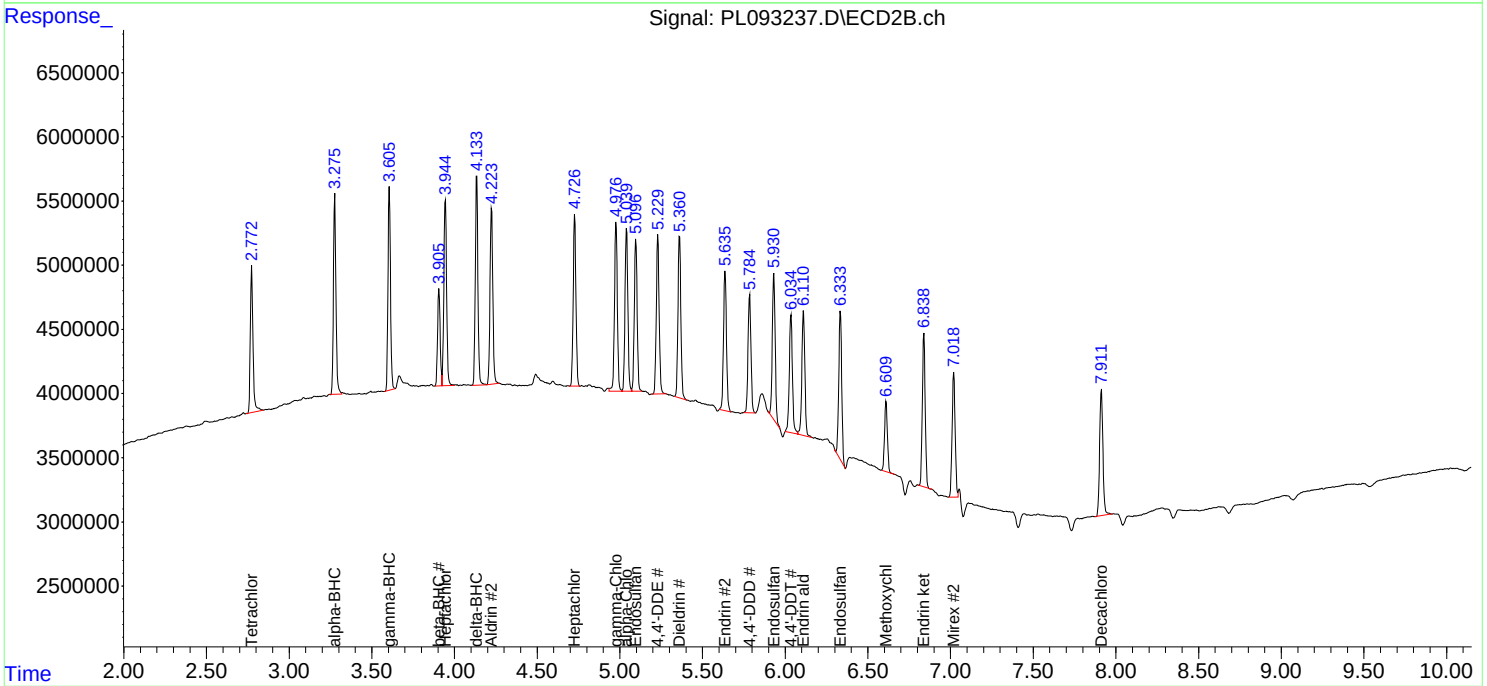
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:55:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:46:07 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093240.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 13:04
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: Nov 25 13:32:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:29:29 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...	3.537	2.773	128.9E6	183.0E6	50.000	50.000
28) SA	Decachlor...	9.054	7.913	88765425	148.3E6	50.000	50.000
	Target Compounds						
23)	Chlordane-1	4.698	3.771	57486281	60379931	500.000	500.000
24)	Chlordane-2	5.228	4.348	58385552	69547609	500.000	500.000
25)	Chlordane-3	5.939	4.978	192.8E6	210.3E6	500.000	500.000
26)	Chlordane-4	6.020	5.041	233.8E6	206.9E6	500.000	500.000
27)	Chlordane-5	6.870	5.936	46611842	71378576	500.000	500.000

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

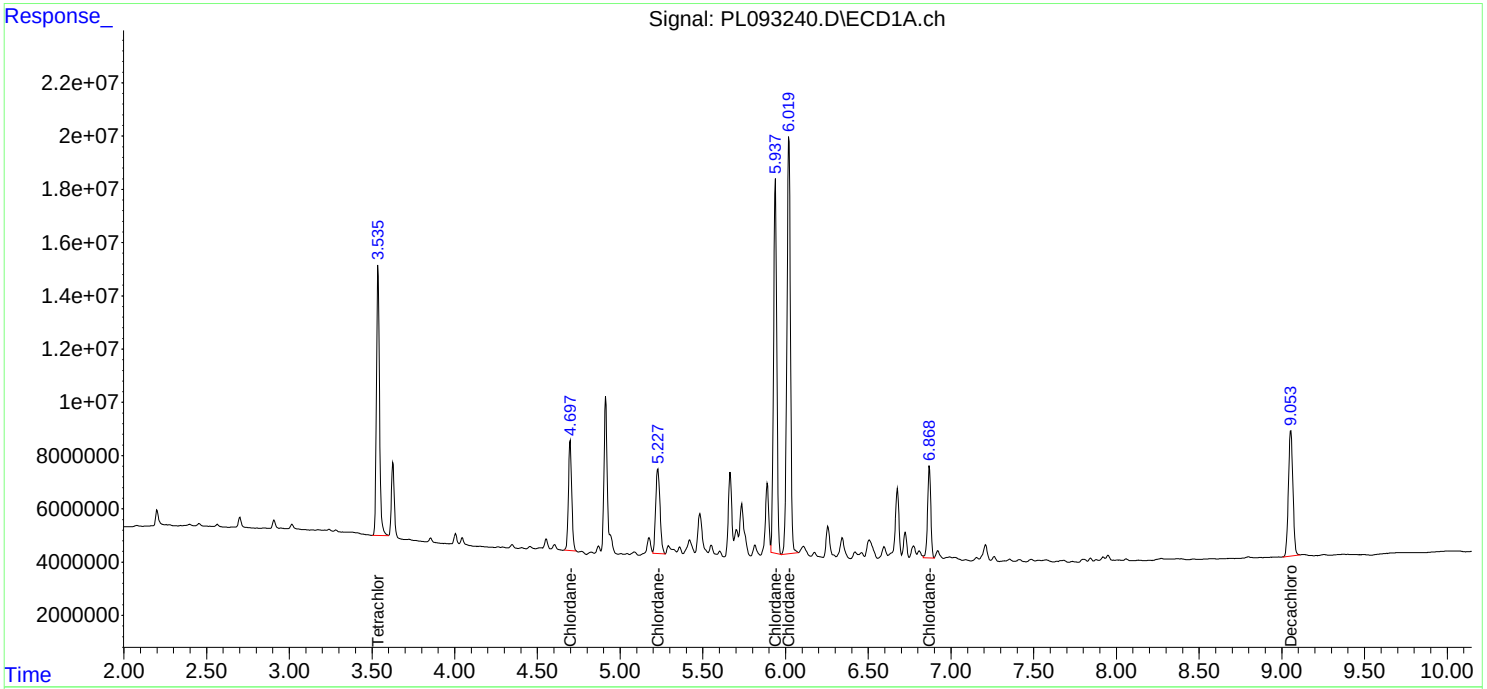
ICAL Form

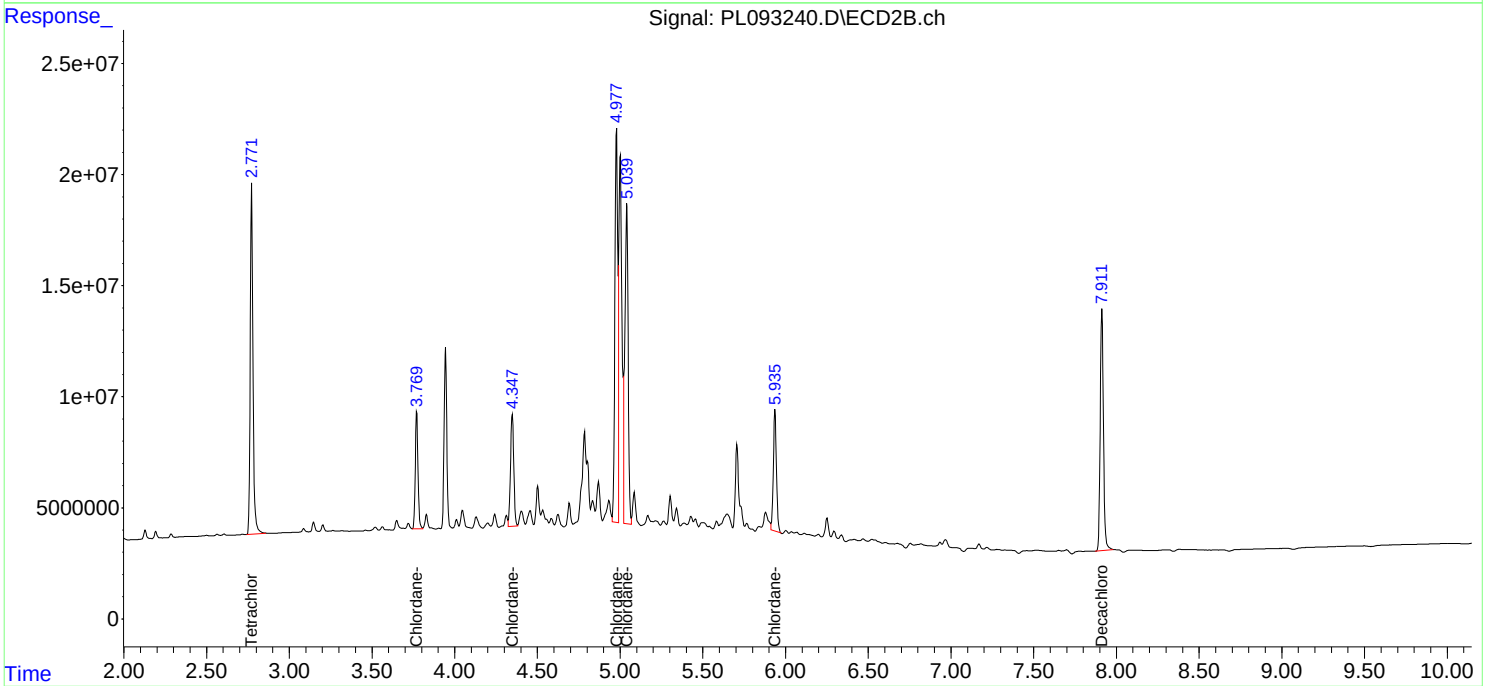
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093240.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 13:04
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 13:32:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:29:29 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093245.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 14:11
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:52:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 14:51:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.536	2.773	128.4E6	147.3E6	50.000	50.000
7) SA	Decachlor...	9.054	7.912	90599547	147.8E6	50.000	50.000
	Target Compounds						
2)	Toxaphene-1	6.234	5.002	12308632	10972167	500.000	500.000
3)	Toxaphene-2	6.438	5.327	7063895	11220994	500.000	500.000
4)	Toxaphene-3	7.056	5.686	38801303	12085952	500.000	500.000
5)	Toxaphene-4	7.148	6.600	28829059	37724703	500.000	500.000
6)	Toxaphene-5	7.932	7.041	21254992	36905670	500.000	500.000

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

Quantitation Report (QT Reviewed)

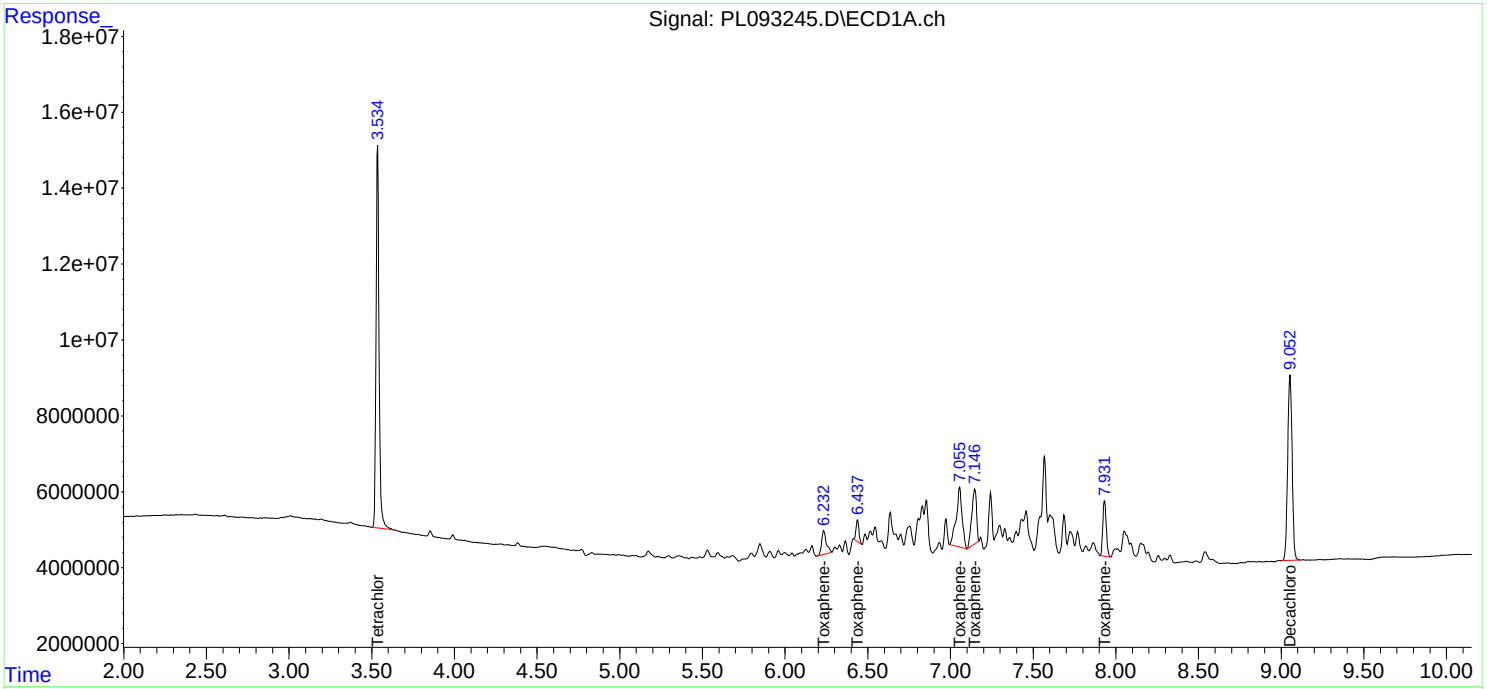
ICAL Form

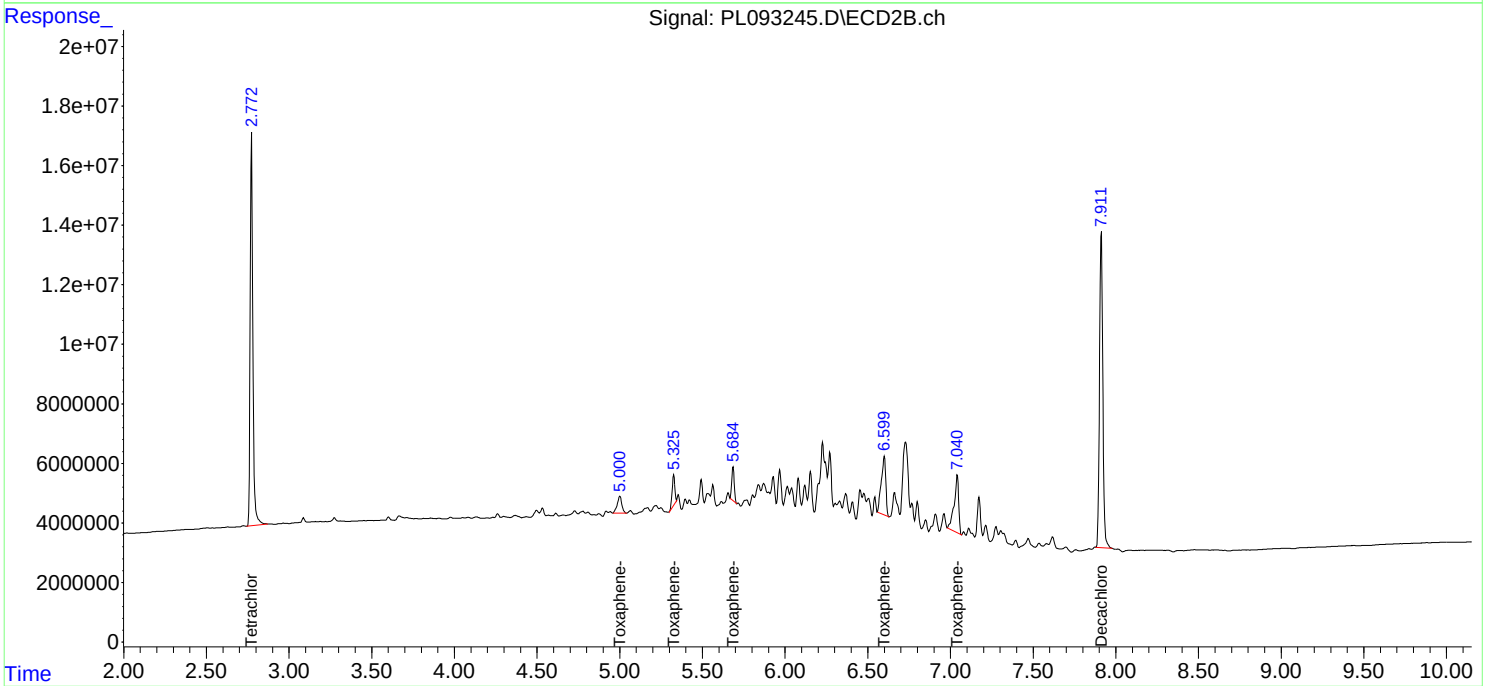
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093245.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 14:11
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:52:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 14:51:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093248.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 14:50
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL112524

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:00:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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...	3.536	2.773	129.3E6	147.5E6	49.763	51.136
28)	SA	Decachlor...	9.053	7.912	92002968	150.0E6	52.920	52.524
		Target Compounds						
2)	A	alpha-BHC	3.992	3.276	178.3E6	222.2E6	49.976	52.035
3)	MA	gamma-BHC...	4.324	3.606	168.9E6	216.0E6	50.003	52.174
4)	MA	Heptachlor	4.913	3.945	151.3E6	209.9E6	49.514	51.877
5)	MB	Aldrin	5.255	4.225	148.8E6	207.2E6	49.492	52.077
6)	B	beta-BHC	4.522	3.906	73986981	90112105	49.007	50.657
7)	B	delta-BHC	4.769	4.135	161.3E6	218.4E6	48.742	51.189
8)	B	Heptachlo...	5.681	4.727	135.3E6	189.4E6	48.718	51.996
9)	A	Endosulfan I	6.066	5.097	121.9E6	173.9E6	50.085	52.023
10)	B	gamma-Chl...	5.937	4.977	129.1E6	190.9E6	50.103	51.533
11)	B	alpha-Chl...	6.016	5.041	129.5E6	188.9E6	49.983	52.032
12)	B	4,4'-DDE	6.190	5.230	118.1E6	185.7E6	50.486	51.873
13)	MA	Dieldrin	6.342	5.361	129.6E6	191.0E6	50.574	51.815
14)	MA	Endrin	6.572	5.637	105.4E6	160.2E6	50.269	50.217
15)	B	Endosulfa...	6.792	5.932	111.6E6	163.8E6	51.170	51.679
16)	A	4,4'-DDD	6.708	5.785	94333249	147.1E6	51.484	52.455
17)	MA	4,4'-DDT	7.021	6.035	99251505	154.2E6	51.483	52.047
18)	B	Endrin al...	6.922	6.111	91865346	136.1E6	50.849	51.905
19)	B	Endosulfa...	7.157	6.334	104.3E6	156.2E6	50.336	51.391
20)	A	Methoxychlor	7.498	6.611	53894107	80802596	51.579	52.918
21)	B	Endrin ke...	7.642	6.840	118.0E6	182.1E6	51.995	54.233
22)		Mirex	8.115	7.020	92348459	141.0E6	51.127	52.488

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

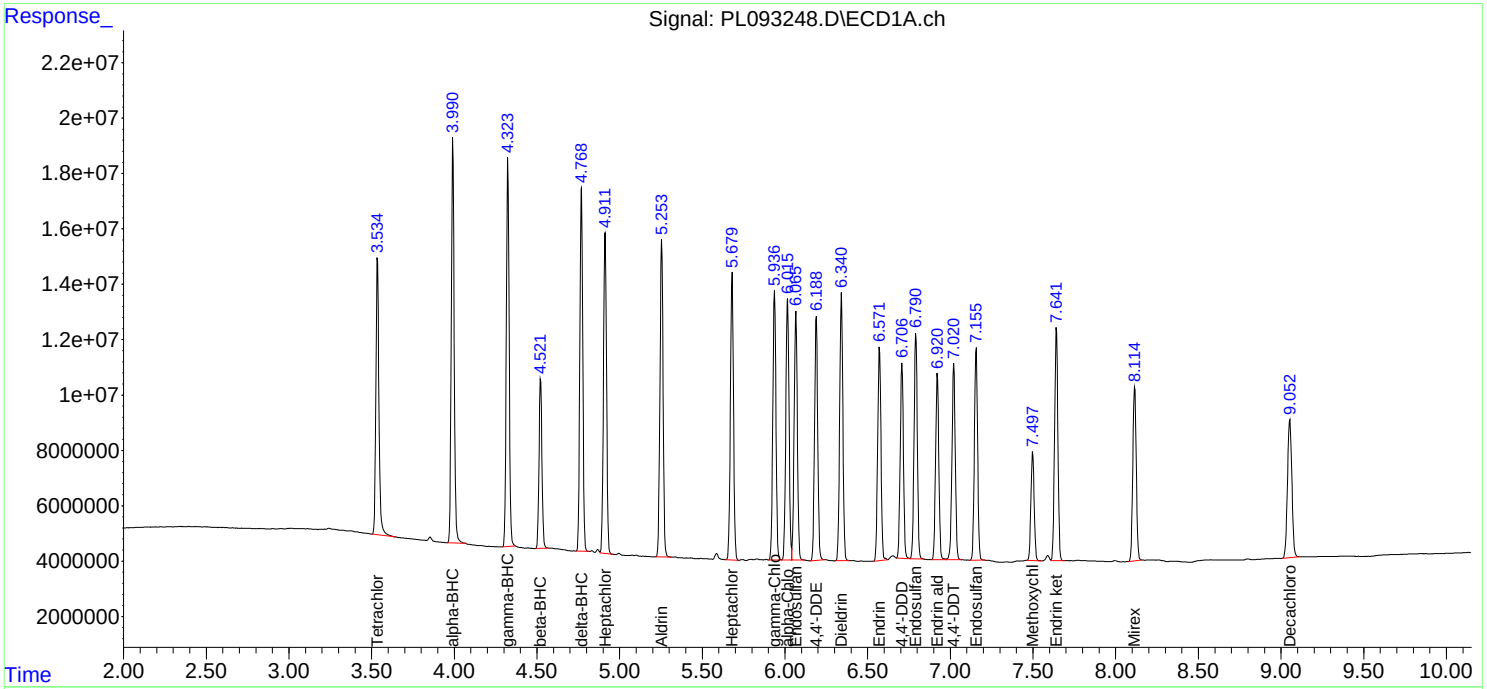
ICAL Form

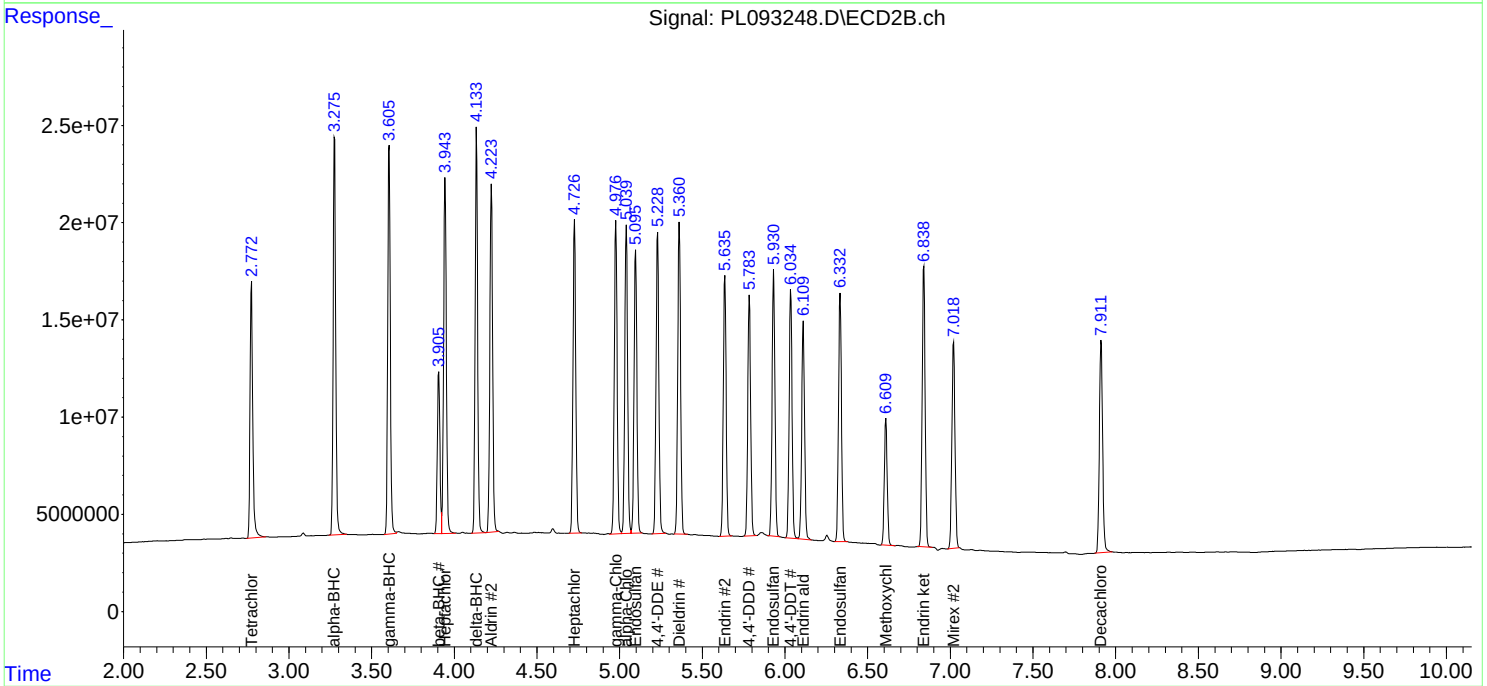
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093248.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 14:50
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL112524

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:00:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093249.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 15:03
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL112524

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:16:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:15:48 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...	3.535	2.772	128.4E6	180.1E6	50.373	51.259
28)	SA Decachlor...	9.053	7.912	90531989	150.6E6	52.009	51.939
	Target Compounds						
23)	Chlordane-1	4.697	3.769	56534519	58445689	505.563	502.849m
24)	Chlordane-2	5.225	4.347	59061655	67878821	515.095m	506.575
25)	Chlordane-3	5.937	4.977	188.6E6	205.8E6	494.626	512.206
26)	Chlordane-4	6.019	5.040	229.2E6	199.1E6	493.150	510.353
27)	Chlordane-5	6.867	5.934	44260909	71064748	489.209m	518.628m

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093249.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 15:03
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

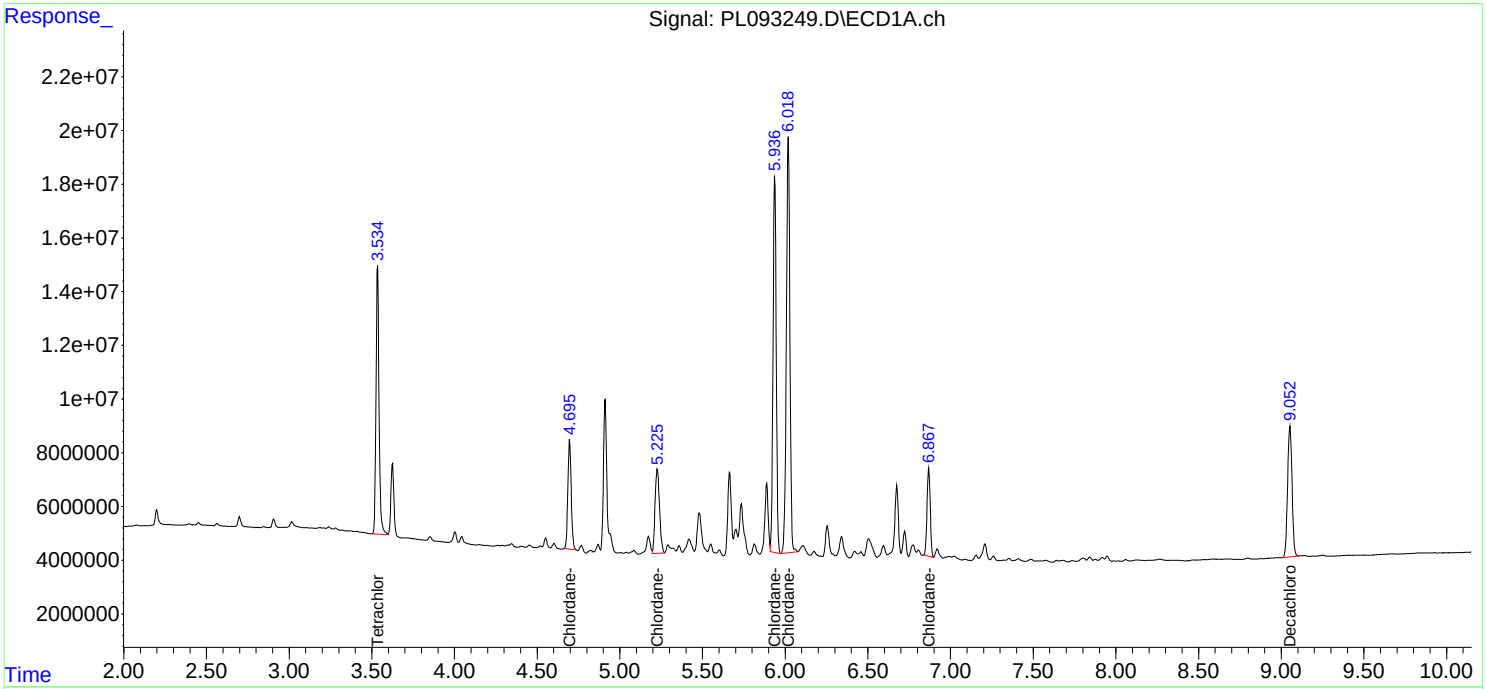
Instrument :
ECD_L
ClientSampleId :
ICVPL112524

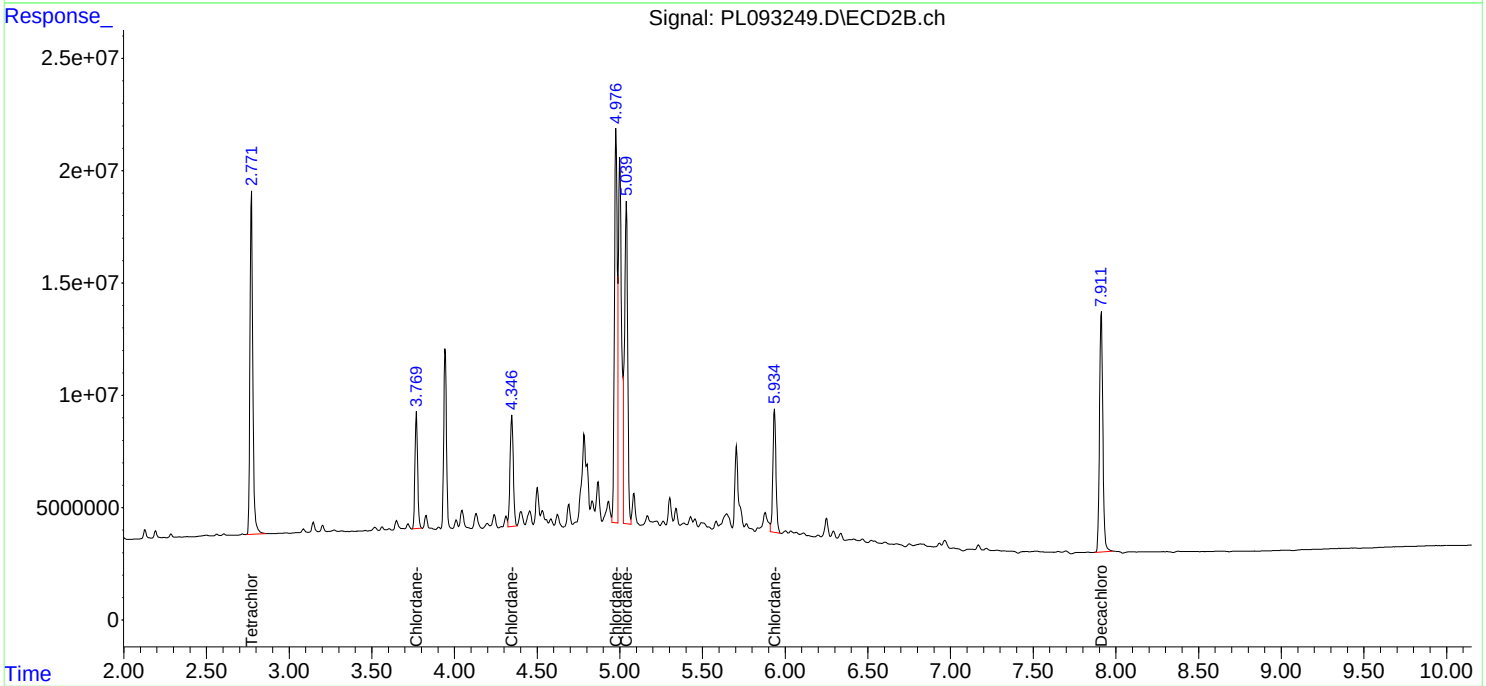
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:16:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:15:48 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093250.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 15:16
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL112524

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:25:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 14:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.536	2.773	131.0E6	148.7E6	49.264	49.881
7) SA	Decachlor...	9.054	7.912	93410824	152.0E6	51.011	50.082
	Target Compounds						
2)	Toxaphene-1	6.234	5.001	12144120	11195448	485.466	493.902
3)	Toxaphene-2	6.438	5.326	7342033	11738327	493.629	522.596
4)	Toxaphene-3	7.056	5.685	38962175	12257339	493.622	511.999
5)	Toxaphene-4	7.148	6.600	29268978	38486297	497.217	518.448
6)	Toxaphene-5	7.932	7.041	21249303	37044403	491.440	501.727

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

Quantitation Report (QT Reviewed)

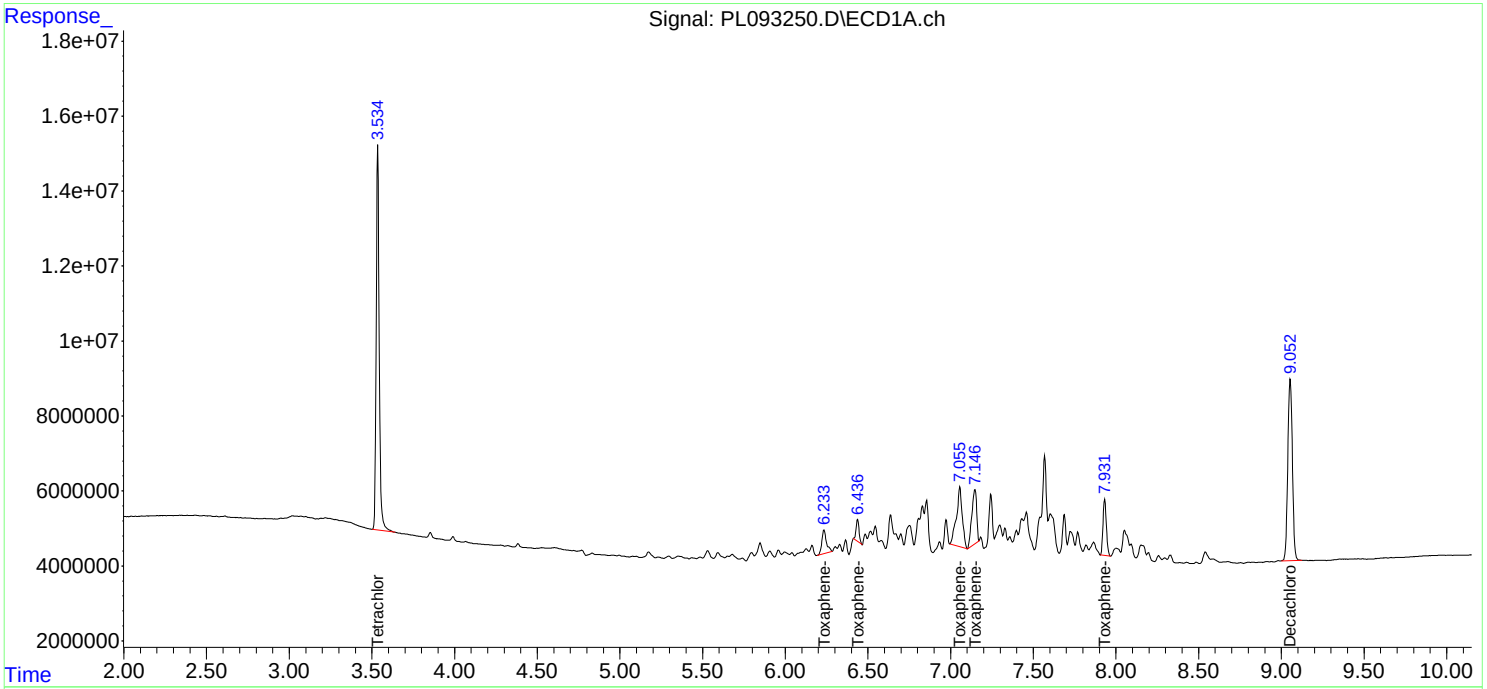
ICAL Form

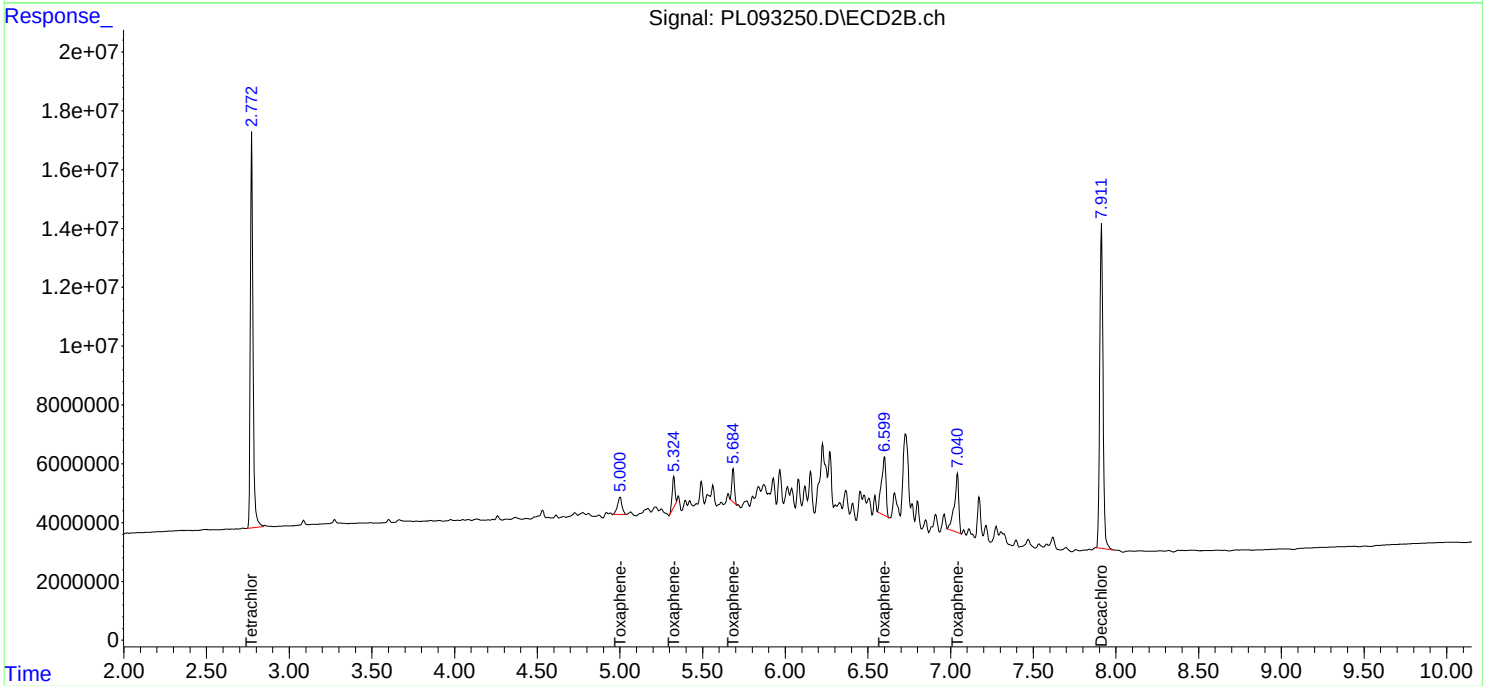
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093250.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 15:16
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL112524

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 15:25:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 14:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PL093381.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 10:35 **Initial Calibration Time(s):** 11:32 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
Aldrin	5.27	5.26	5.16	5.36	-0.01
Dieldrin	6.35	6.34	6.24	6.44	-0.01
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01

Raw Data: **PL093381.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 10:35 **Initial Calibration Time(s):** 11:32 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.77	2.67	2.87	-0.01
Aldrin	4.23	4.23	4.13	4.33	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00

Raw Data: **PL093381.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093381.D **Time Analyzed:** 10:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.717	6.608	6.808	51.220	50.000	2.4
4,4'-DDE	6.199	6.090	6.290	50.020	50.000	0.0
4,4'-DDT	7.031	6.922	7.122	49.370	50.000	-1.3
Aldrin	5.266	5.155	5.355	50.780	50.000	1.6
Decachlorobiphenyl	9.061	8.954	9.154	55.720	50.000	11.4
Dieldrin	6.352	6.242	6.442	50.460	50.000	0.9
Tetrachloro-m-xylene	3.547	3.436	3.636	50.930	50.000	1.9

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093381.D **Time Analyzed:** 10:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.788	5.685	5.885	53.710	50.000	7.4
4,4'-DDE	5.233	5.130	5.330	53.120	50.000	6.2
4,4'-DDT	6.038	5.935	6.135	52.470	50.000	4.9
Aldrin	4.228	4.125	4.325	54.270	50.000	8.5
Decachlorobiphenyl	7.914	7.812	8.012	52.810	50.000	5.6
Dieldrin	5.364	5.262	5.462	55.020	50.000	10.0
Tetrachloro-m-xylene	2.776	2.674	2.874	52.640	50.000	5.3

Quantitation Report (QT Reviewed)

Sample Results: **PL093381.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 10:35
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:14:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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	2.776	132.4E6	151.8E6	50.927	52.644
28)	SA	Decachlor...	9.061	7.914	96863093	150.9E6	55.715m	52.814
		Target Compounds						
2)	A	alpha-BHC	4.003	3.279	183.7E6	229.1E6	51.483	53.666
3)	MA	gamma-BHC...	4.336	3.609	171.2E6	221.5E6	50.679	53.499
4)	MA	Heptachlor	4.924	3.948	151.4E6	211.6E6	49.535	52.309
5)	MB	Aldrin	5.266	4.228	152.7E6	215.9E6	50.782	54.271
6)	B	beta-BHC	4.533	3.909	74557508	91368686	49.385	51.363
7)	B	delta-BHC	4.780	4.138	161.5E6	219.3E6	48.814	51.399
8)	B	Heptachlo...	5.691	4.730	133.1E6	195.9E6	47.929	53.798
9)	A	Endosulfan I	6.077	5.100	122.2E6	181.8E6	50.219	54.393
10)	B	gamma-Chl...	5.948	4.980	131.3E6	201.8E6	50.952	54.476
11)	B	alpha-Chl...	6.027	5.044	131.4E6	197.4E6	50.706	54.383
12)	B	4,4'-DDE	6.199	5.233	117.0E6	190.2E6	50.024	53.123
13)	MA	Dieldrin	6.352	5.364	129.3E6	202.8E6	50.455	55.020
14)	MA	Endrin	6.580	5.639	105.8E6	168.1E6	50.462m	52.712
15)	B	Endosulfa...	6.801	5.935	110.3E6	174.4E6	50.587	55.048
16)	A	4,4'-DDD	6.717	5.788	93843056	150.6E6	51.216	53.707
17)	MA	4,4'-DDT	7.031	6.038	95177808	155.4E6	49.370	52.465
18)	B	Endrin al...	6.931	6.114	90491942	139.3E6	50.089	53.125
19)	B	Endosulfa...	7.165	6.337	104.3E6	161.5E6	50.318	53.139
20)	A	Methoxychlor	7.506	6.613	52463544	74227890	50.210	48.612
21)	B	Endrin ke...	7.650	6.842	118.6E6	192.1E6	52.247	57.215
22)		Mirex	8.123	7.022	95788330	154.0E6	53.032	57.334

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 10:35
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

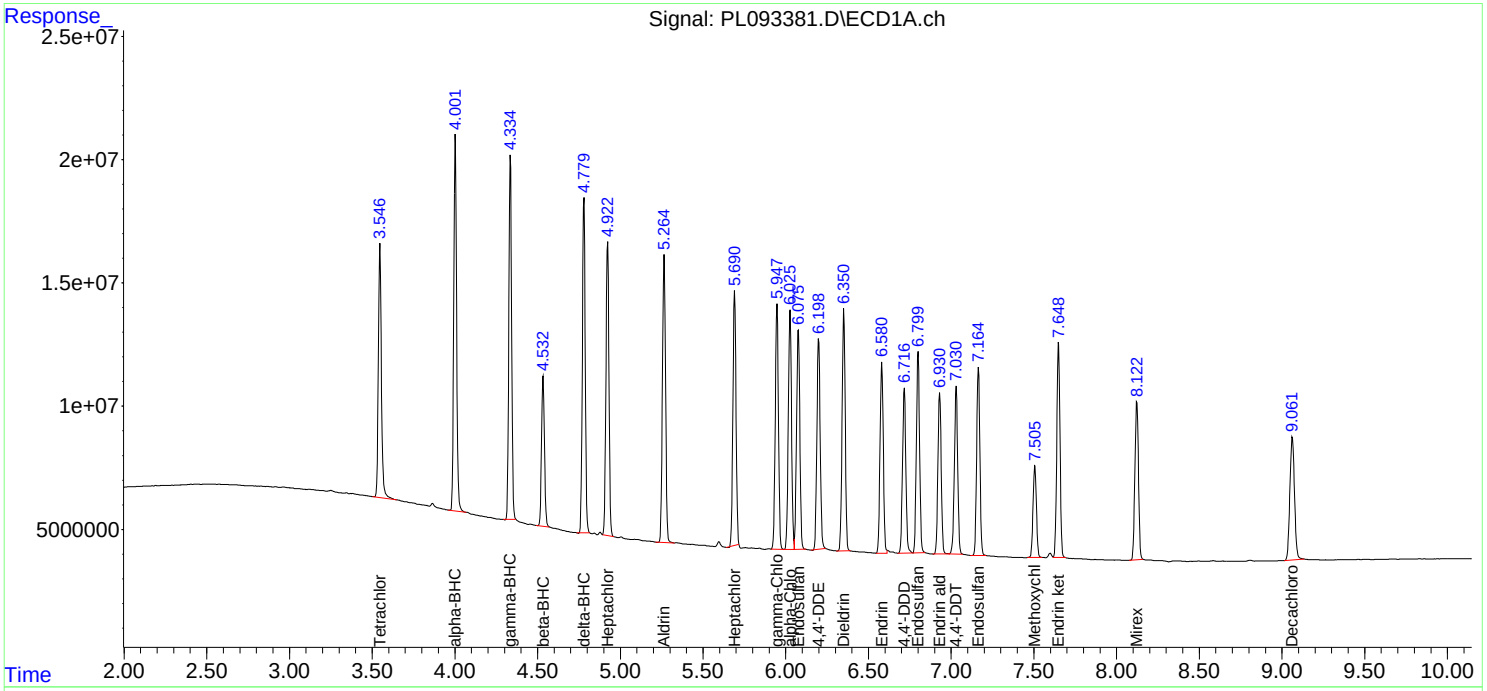
Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

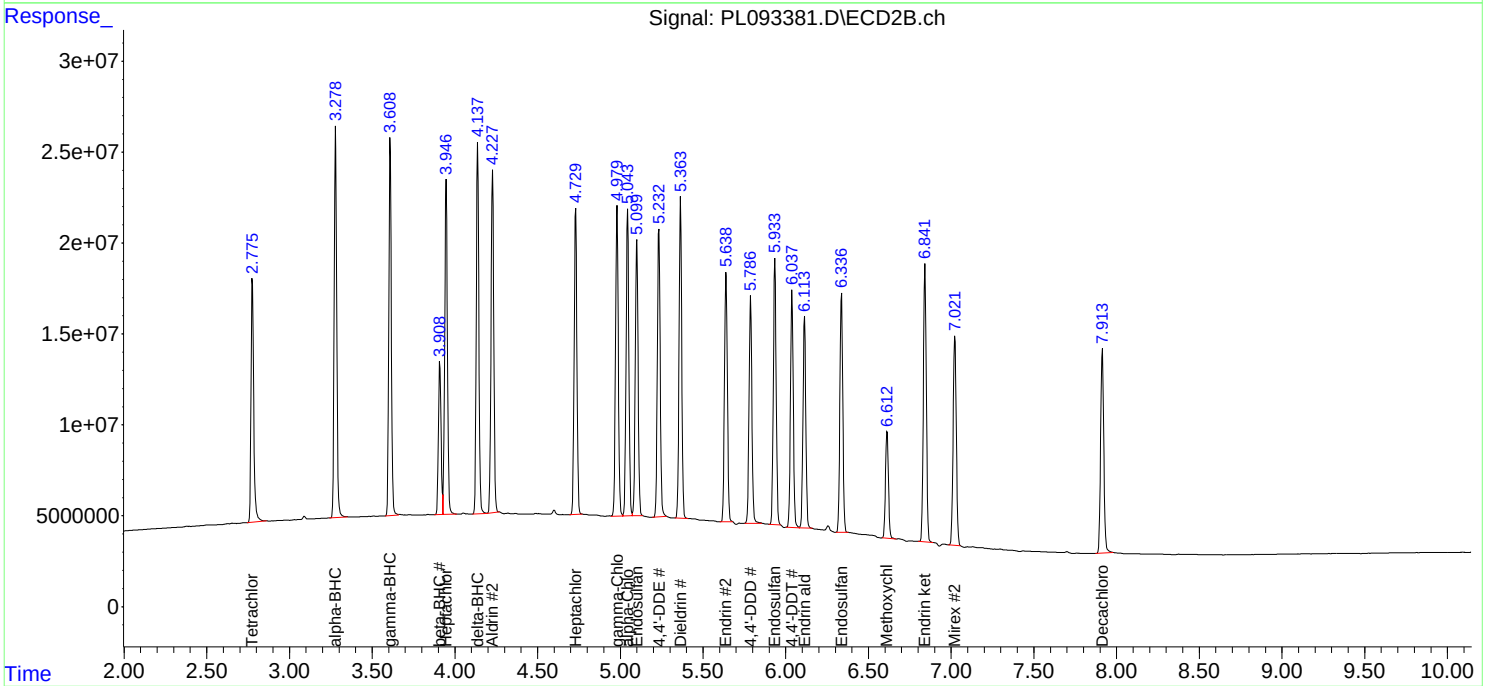
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:14:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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





Raw Data: **PL093393.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 16:44 **Initial Calibration Time(s):** 11:32 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
Aldrin	5.26	5.26	5.16	5.36	0.00
Dieldrin	6.35	6.34	6.24	6.44	-0.01
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01

Raw Data: **PL093393.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 16:44 **Initial Calibration Time(s):** 11:32 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.77	2.67	2.87	-0.01
Aldrin	4.23	4.23	4.13	4.33	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00

Raw Data: **PL093393.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093393.D **Time Analyzed:** 16:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.715	6.608	6.808	54.550	50.000	9.1
4,4'-DDE	6.197	6.090	6.290	50.770	50.000	1.5
4,4'-DDT	7.028	6.922	7.122	42.130	50.000	-15.7
Aldrin	5.263	5.155	5.355	51.480	50.000	3.0
Decachlorobiphenyl	9.059	8.954	9.154	55.780	50.000	11.6
Dieldrin	6.349	6.242	6.442	51.060	50.000	2.1
Tetrachloro-m-xylene	3.545	3.436	3.636	51.960	50.000	3.9

Raw Data: **PL093393.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093393.D **Time Analyzed:** 16:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.787	5.685	5.885	59.220	50.000	18.4
4,4'-DDE	5.232	5.130	5.330	54.650	50.000	9.3
4,4'-DDT	6.037	5.935	6.135	43.300	50.000	-13.4
Aldrin	4.227	4.125	4.325	55.890	50.000	11.8
Decachlorobiphenyl	7.913	7.812	8.012	55.030	50.000	10.1
Dieldrin	5.364	5.262	5.462	55.860	50.000	11.7
Tetrachloro-m-xylene	2.776	2.674	2.874	54.540	50.000	9.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093393.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 16:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:20:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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	2.776	135.0E6	157.3E6	51.956	54.543
28)	SA Decachlor...	9.059	7.913	96981983	157.2E6	55.784	55.027
	Target Compounds						
2)	A alpha-BHC	4.001	3.279	187.5E6	237.2E6	52.534	55.548
3)	MA gamma-BHC...	4.333	3.609	175.2E6	228.2E6	51.851	55.121
4)	MA Heptachlor	4.921	3.947	145.5E6	208.5E6	47.603	51.546
5)	MB Aldrin	5.263	4.227	154.8E6	222.4E6	51.485	55.893
6)	B beta-BHC	4.532	3.908	75821948	95150083	50.222	53.489
7)	B delta-BHC	4.778	4.137	166.2E6	230.2E6	50.230	53.965
8)	B Heptachlo...	5.689	4.729	136.9E6	201.5E6	49.298	55.322
9)	A Endosulfan I	6.075	5.099	123.8E6	183.5E6	50.852	54.899
10)	B gamma-Chl...	5.945	4.978	133.9E6	205.4E6	51.987	55.448m
11)	B alpha-Chl...	6.024	5.043	132.9E6	201.7E6	51.280	55.557
12)	B 4,4'-DDE	6.197	5.232	118.8E6	195.7E6	50.770	54.652
13)	MA Dieldrin	6.349	5.364	130.9E6	205.9E6	51.064	55.864
14)	MA Endrin	6.577	5.639	98649129	155.9E6	47.032m	48.893
15)	B Endosulfa...	6.799	5.934	112.0E6	175.1E6	51.370	55.252
16)	A 4,4'-DDD	6.715	5.787	99960583	166.0E6	54.555	59.216
17)	MA 4,4'-DDT	7.028	6.037	81226145	128.2E6	42.133	43.298
18)	B Endrin al...	6.929	6.113	92300741	141.3E6	51.090	53.877
19)	B Endosulfa...	7.163	6.337	106.4E6	166.6E6	51.332	54.816
20)	A Methoxychlor	7.504	6.613	44677206	67553781	42.758	44.241
21)	B Endrin ke...	7.648	6.842	123.7E6	200.7E6	54.517	59.790
22)	Mirex	8.121	7.022	95677098	152.0E6	52.970	56.592

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093393.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 16:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

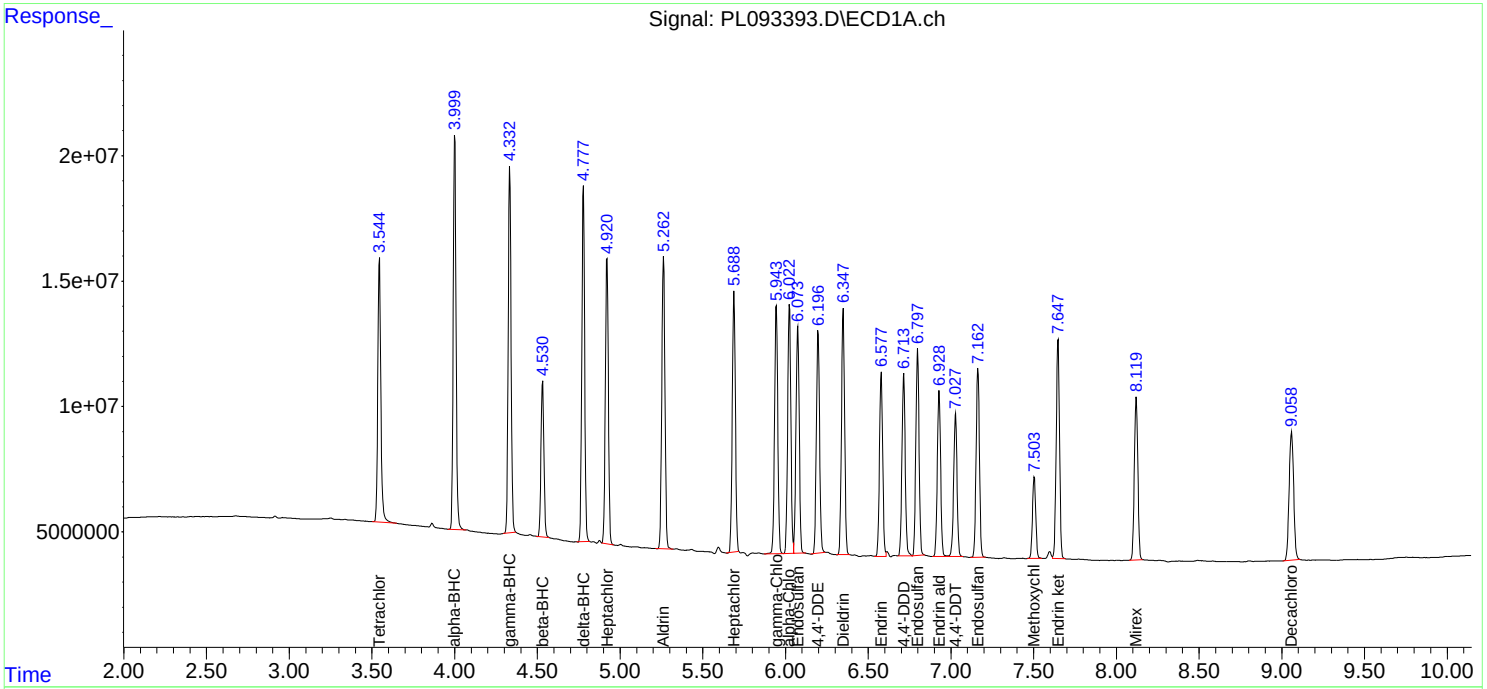
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:20:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 2024
Response via : Initial Calibration
Integrator: ChemStation

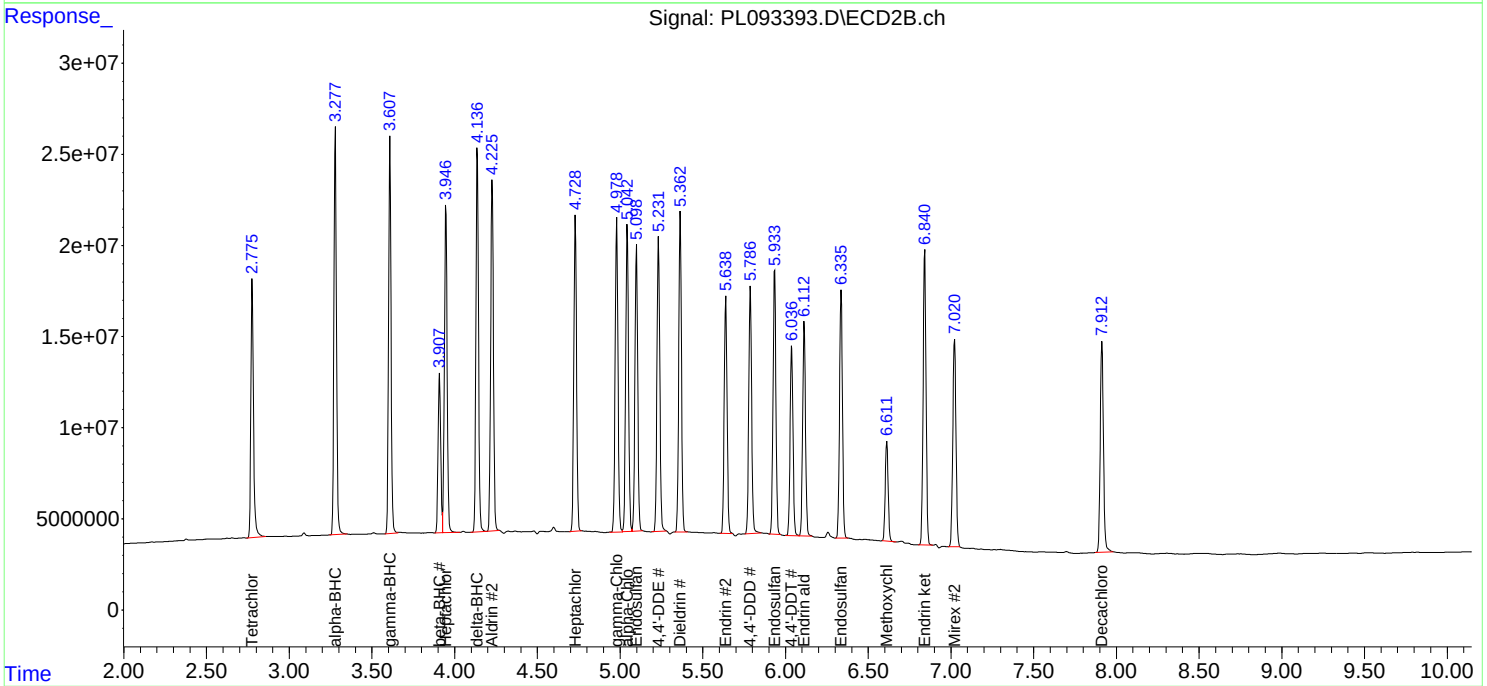
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024





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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093231.D **Date Analyzed:** 11/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	20.040	20.000	0.2
Tetrachloro-m-xylene	3.536	3.490	3.590	20.160	20.000	0.8
alpha-BHC	3.991	3.940	4.040	10.350	10.000	3.5
beta-BHC	4.522	4.470	4.570	10.650	10.000	6.5
gamma-BHC (Lindane)	4.324	4.270	4.370	10.190	10.000	1.9
Endrin	6.572	6.500	6.640	45.410	50.000	-9.2
4,4'-DDT	7.022	6.950	7.090	89.610	100.000	-10.4
Methoxychlor	7.497	7.430	7.570	212.340	250.000	-15.1

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093231.D **Date Analyzed:** 11/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.912	7.810	8.010	19.260	20.000	-3.7
Tetrachloro-m-xylene	2.774	2.720	2.820	19.400	20.000	-3.0
alpha-BHC	3.276	3.230	3.330	9.230	10.000	-7.7
beta-BHC	3.906	3.860	3.960	9.990	10.000	-0.1
gamma-BHC (Lindane)	3.607	3.560	3.660	8.790	10.000	-12.1
Endrin	5.637	5.570	5.710	46.140	50.000	-7.7
4,4'-DDT	6.036	5.970	6.110	100.270	100.000	0.3
Methoxychlor	6.610	6.540	6.680	224.790	250.000	-10.1

PEM

Data File: PL093231.D **Date Acquired** 11/25/2024 11:05

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.57	95247100.31	103950306.7	8703206.42	**8.37**
Endrin aldehyde	6.92	2989353.181			
Endrin ketone	7.64	5713853.239			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.64	147167852.9	160922995.7	13755142.8	**8.55**
Endrin aldehyde #2	6.11	5605406.228			
Endrin ketone #2	6.84	8149736.522			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	172758051	174900110.4	2142059.36	**1.22**
4,4'-DDE	0.00	0			
4,4'-DDD	6.71	2142059.361			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.04	296971450.6	299670366	2698915.34	**0.90**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.79	2698915.344			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:05
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:01:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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...	3.536	2.774	52384811	55942252	20.156	19.397	
28) SA	Decachlor...	9.054	7.912	34835122	55010092	20.037	19.258	
	Target Compounds							
2) A	alpha-BHC	3.991	3.276	36948067	39395649	10.354	9.227	
3) MA	gamma-BHC...	4.324	3.607	34434272	36380083	10.192	8.788	
6) B	beta-BHC	4.522	3.906	16076799	17778091	10.649	9.994	
14) MA	Endrin	6.572	5.637	95247100	147.2E6	45.410	46.145	
16) A	4,4'-DDD	6.706	5.785	2142059	2698915	1.169m	0.963	
17) MA	4,4'-DDT	7.022	6.036	172.8E6	297.0E6	89.613	100.268	
18) B	Endrin al...	6.921	6.111	2989353	5605406	1.655	2.138	#
20) A	Methoxychlor	7.497	6.610	221.9E6	343.2E6	212.343	224.787	
21) B	Endrin ke...	7.641	6.839	5713853	8149737	2.518	2.428	

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:05
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

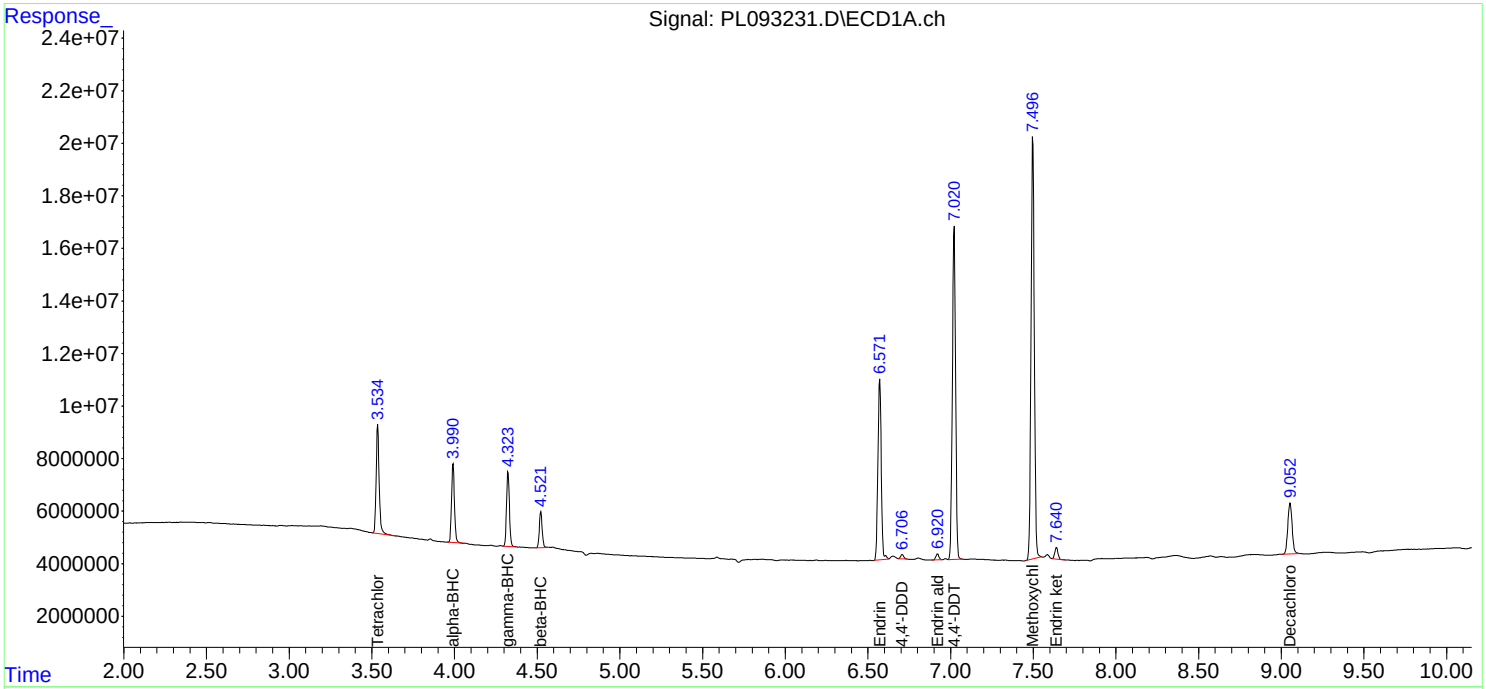
Instrument :
ECD_L
ClientSampleId :
PEM

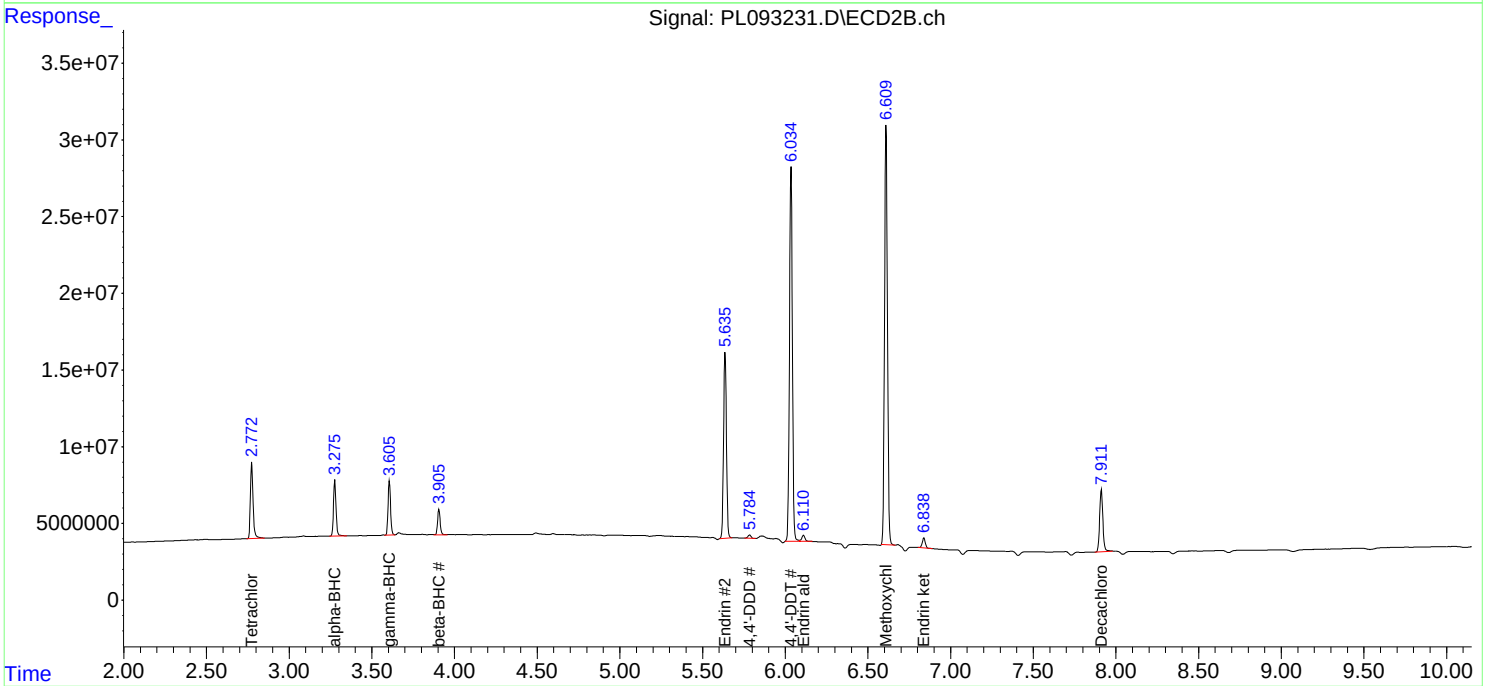
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:01:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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





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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093380.D **Date Analyzed:** 12/16/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	23.190	20.000	16.0
Tetrachloro-m-xylene	3.539	3.490	3.590	21.540	20.000	7.7
alpha-BHC	3.995	3.940	4.050	11.090	10.000	10.9
beta-BHC	4.525	4.470	4.580	11.600	10.000	16.0
gamma-BHC (Lindane)	4.327	4.280	4.380	11.010	10.000	10.1
Endrin	6.572	6.500	6.640	44.650	50.000	-10.7
4,4'-DDT	7.023	6.950	7.090	91.610	100.000	-8.4
Methoxychlor	7.499	7.430	7.570	205.760	250.000	-17.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093380.D **Date Analyzed:** 12/16/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.910	7.810	8.010	20.640	20.000	3.2
Tetrachloro-m-xylene	2.776	2.730	2.830	20.900	20.000	4.5
alpha-BHC	3.278	3.230	3.330	10.120	10.000	1.2
beta-BHC	3.907	3.860	3.960	10.850	10.000	8.5
gamma-BHC (Lindane)	3.608	3.560	3.660	9.730	10.000	-2.7
Endrin	5.637	5.570	5.710	47.050	50.000	-5.9
4,4'-DDT	6.035	5.960	6.110	106.400	100.000	6.4
Methoxychlor	6.608	6.540	6.680	223.430	250.000	-10.6

PEM

Data File: PL093380.D **Date Acquired** 12/16/2024 9:46

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
					Down
Endrin	6.57	93651085.28	107195501.3	13544416	**12.64**
Endrin aldehyde	6.92	4849797.892			
Endrin ketone	7.64	8694618.127			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.64	150044199.5	171467129.7	21422930.2	**12.49**
Endrin aldehyde #2	6.11	7552007.08			
Endrin ketone #2	6.84	13870923.14			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	176601731	182200887.7	5599156.71	**3.07**
4,4'-DDE	6.19	482639.103			
4,4'-DDD	6.71	5116517.61			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.04	315117892.1	321839134	6721241.91	**2.09**
4,4'-DDE #2	5.23	538066.321			
4,4'-DDD #2	5.79	6183175.585			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 09:46
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:13:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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	2.776	55994068	60279169	21.545	20.901
28)	SA Decachlor...	9.052	7.910	40322595	58943587	23.193	20.635
	Target Compounds						
2)	A alpha-BHC	3.995	3.278	39565403	43186784	11.088	10.115
3)	MA gamma-BHC...	4.327	3.608	37191406	40268242	11.008	9.727
6)	B beta-BHC	4.525	3.907	17512901	19292420	11.600	10.845
12)	B 4,4'-DDE	6.188	5.230	482639	538066	0.206m	0.150m#
14)	MA Endrin	6.572	5.637	93651085	150.0E6	44.649m	47.047
16)	A 4,4'-DDD	6.709	5.785	5116518	6183176	2.792	2.206
17)	MA 4,4'-DDT	7.023	6.035	176.6E6	315.1E6	91.606	106.395
18)	B Endrin al...	6.923	6.111	4849798	7552007	2.684	2.880
20)	A Methoxychlor	7.499	6.608	215.0E6	341.2E6	205.762	223.428m
21)	B Endrin ke...	7.642	6.838	8694618	13870923	3.831	4.132

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

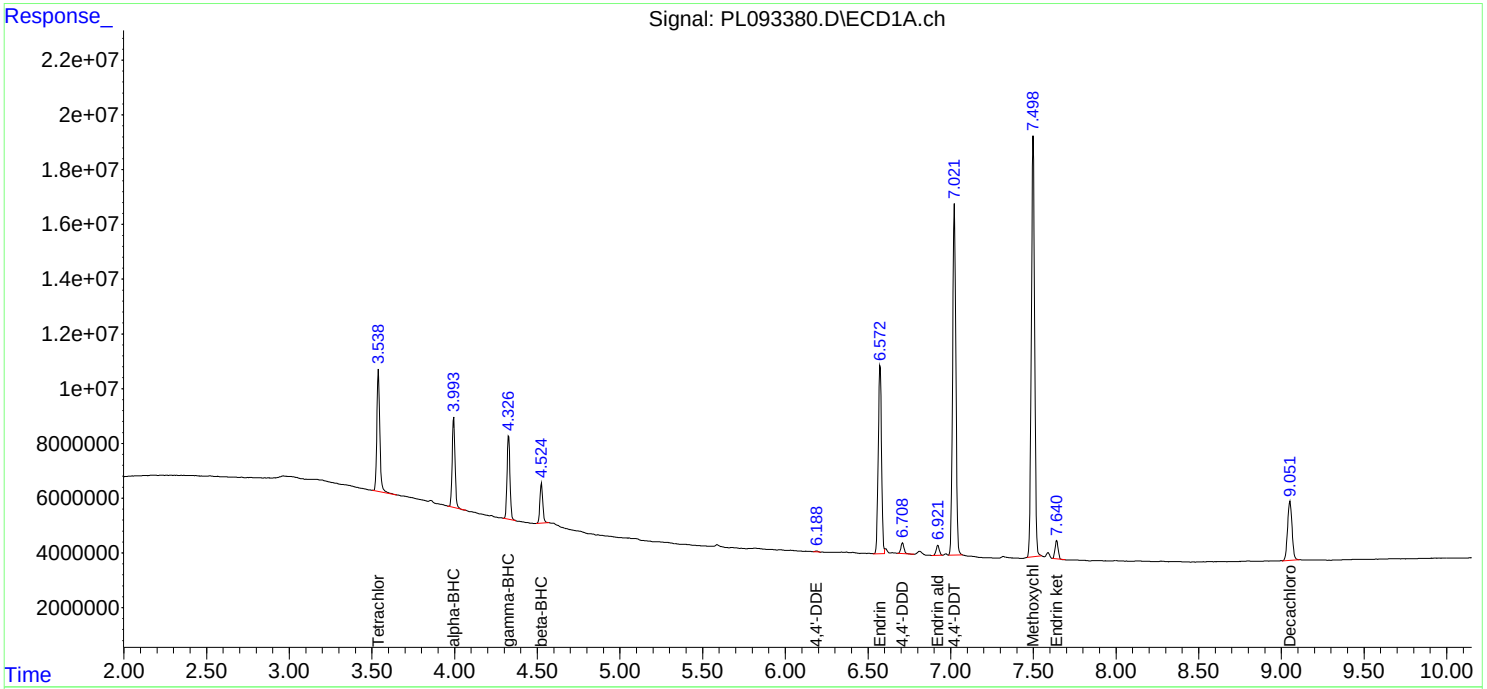
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 09:46
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

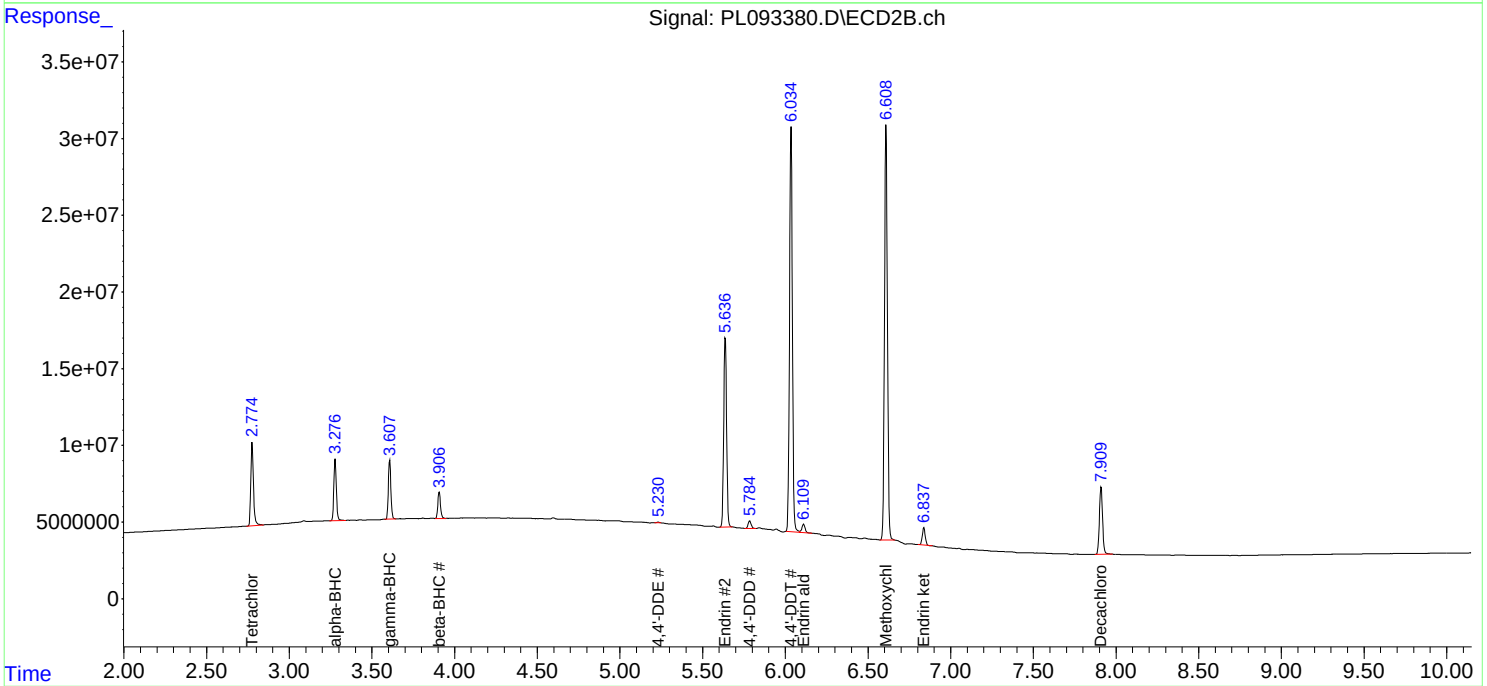
Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:13:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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





Chromatographic Resolution Report

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093232.D
Acq On : 25 Nov 2024 11:18
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Title : GC Extractables
Last Update : Mon Nov 25 13:59:47 2024
Integrator: ChemStation

RT#1	RT#2	Resolution
3.535	5.936	100.00%
5.936	6.066	100.00%
6.066	6.189	100.00%
6.189	6.341	100.00%
6.341	7.155	100.00%
7.155	7.498	100.00%
7.498	7.641	100.00%
7.641	9.053	100.00%

Signal #2

2.773	4.977	100.00%
4.977	5.097	100.00%
5.097	5.230	100.00%
5.230	5.361	100.00%
5.361	6.334	100.00%
6.334	6.610	100.00%
6.610	6.839	100.00%
6.839	7.912	100.00%

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:05
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:01:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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...	3.536	2.774	52384811	55942252	20.156	19.397	
28) SA	Decachlor...	9.054	7.912	34835122	55010092	20.037	19.258	
	Target Compounds							
2) A	alpha-BHC	3.991	3.276	36948067	39395649	10.354	9.227	
3) MA	gamma-BHC...	4.324	3.607	34434272	36380083	10.192	8.788	
6) B	beta-BHC	4.522	3.906	16076799	17778091	10.649	9.994	
14) MA	Endrin	6.572	5.637	95247100	147.2E6	45.410	46.145	
16) A	4,4'-DDD	6.706	5.785	2142059	2698915	1.169m	0.963	
17) MA	4,4'-DDT	7.022	6.036	172.8E6	297.0E6	89.613	100.268	
18) B	Endrin al...	6.921	6.111	2989353	5605406	1.655	2.138	#
20) A	Methoxychlor	7.497	6.610	221.9E6	343.2E6	212.343	224.787	
21) B	Endrin ke...	7.641	6.839	5713853	8149737	2.518	2.428	

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 11:05
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

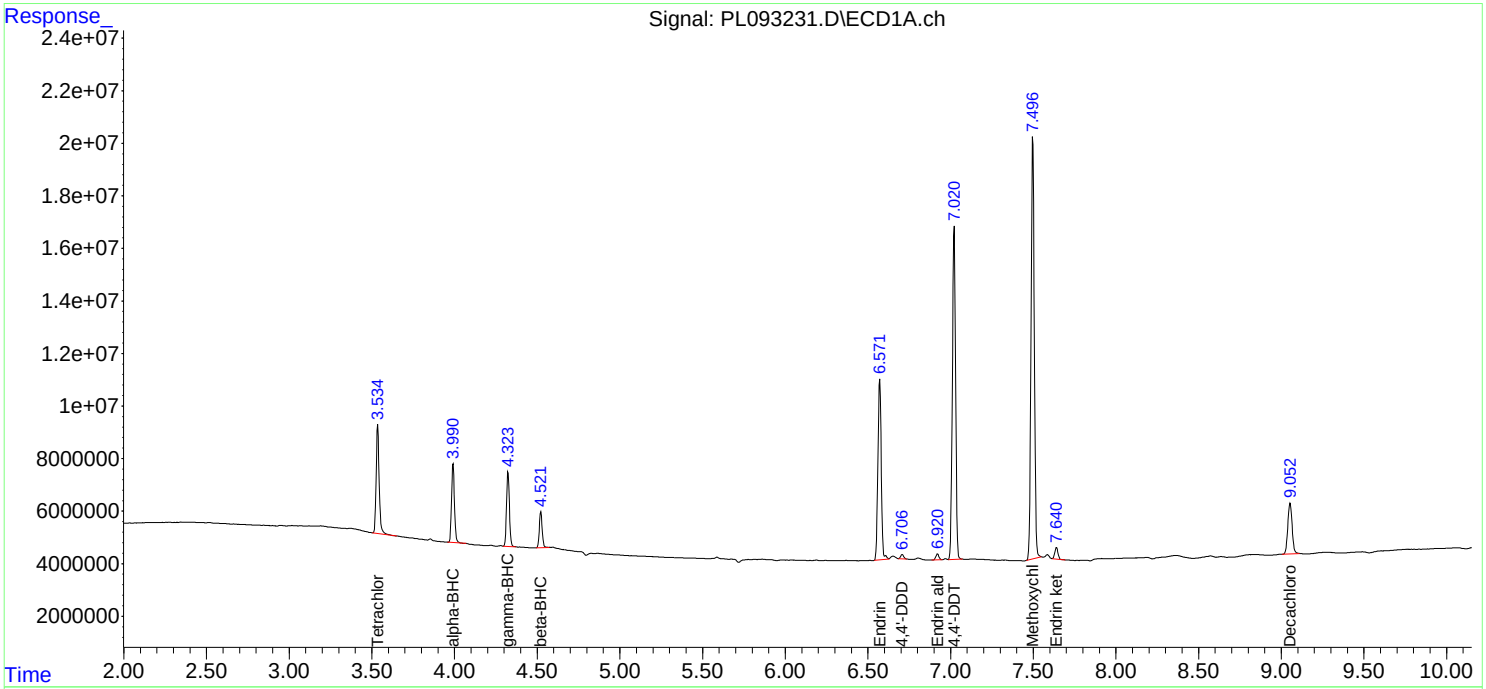
Instrument :
ECD_L
ClientSampleId :
PEM

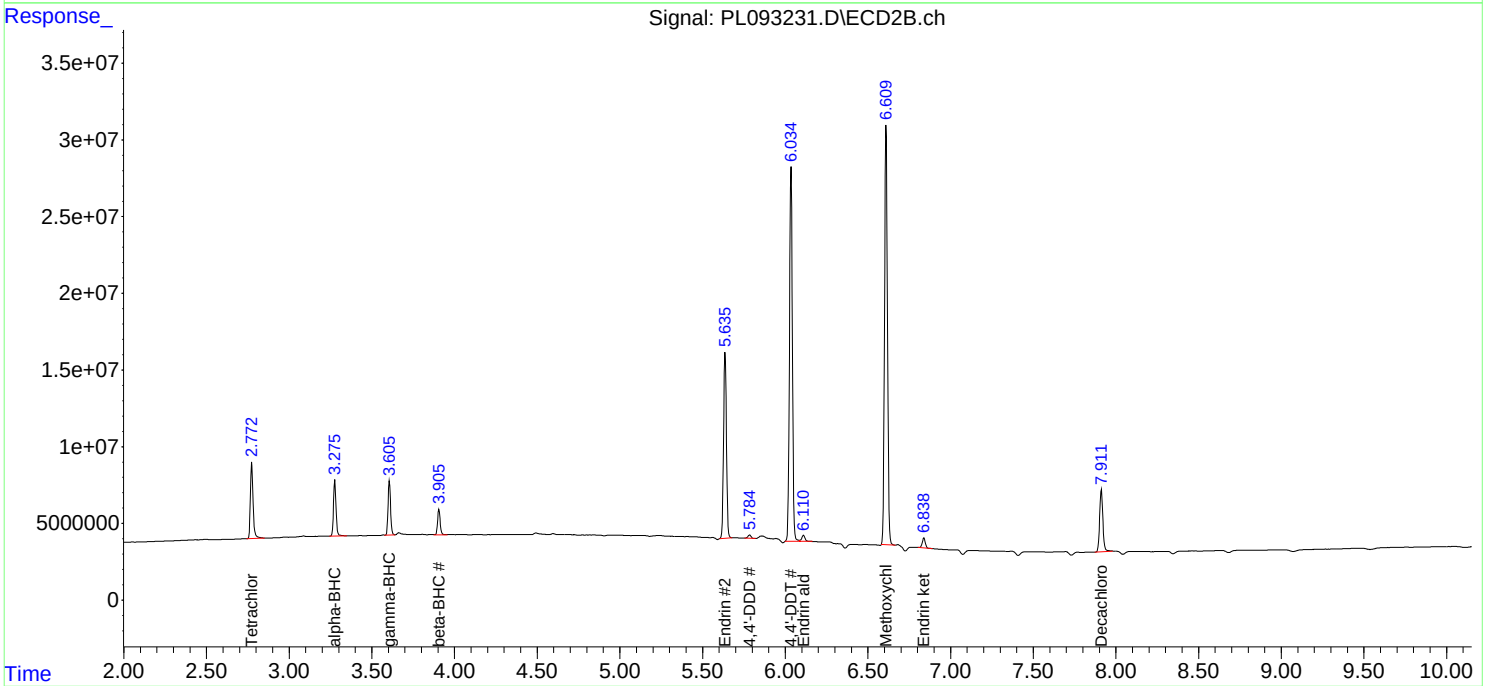
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/26/2024
Supervised By :Ankita Jodhani 11/26/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:01:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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





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

Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/25/2024 11/25/2024

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 #
I.BLK	I.BLK	11/25/2024	10:52	PL093230.D	9.05	3.54
PEM	PEM	11/25/2024	11:05	PL093231.D	9.05	3.54
RESCHK	RESCHK	11/25/2024	11:18	PL093232.D	9.05	3.54
PSTDICC100	PSTDICC100	11/25/2024	11:32	PL093233.D	9.05	3.54
PSTDICC075	PSTDICC075	11/25/2024	11:45	PL093234.D	9.05	3.54
PSTDICC050	PSTDICC050	11/25/2024	11:58	PL093235.D	9.05	3.54
PSTDICC025	PSTDICC025	11/25/2024	12:11	PL093236.D	9.05	3.54
PSTDICC005	PSTDICC005	11/25/2024	12:25	PL093237.D	9.05	3.54
PCHLORICC500	PCHLORICC500	11/25/2024	13:04	PL093240.D	9.05	3.54
PTOXICC500	PTOXICC500	11/25/2024	14:11	PL093245.D	9.05	3.54
I.BLK	I.BLK	12/16/2024	09:32	PL093379.D	9.05	3.54
PEM	PEM	12/16/2024	09:46	PL093380.D	9.05	3.54
PSTDCCC050	PSTDCCC050	12/16/2024	10:35	PL093381.D	9.06	3.55
PB165647BL	PB165647BL	12/16/2024	13:32	PL093382.D	9.06	3.55
PB165647BS	PB165647BS	12/16/2024	13:45	PL093383.D	9.05	3.54
COMP-1A	P5277-01	12/16/2024	14:13	PL093385.D	9.05	3.54
COMP-2A	P5277-02	12/16/2024	14:26	PL093386.D	9.05	3.54
COMP-2AMS	P5277-02MS	12/16/2024	14:40	PL093387.D	9.05	3.54
COMP-2AMSD	P5277-02MSD	12/16/2024	14:53	PL093388.D	9.05	3.54
COMP-3A	P5277-03	12/16/2024	15:07	PL093389.D	9.05	3.54
I.BLK	I.BLK	12/16/2024	15:47	PL093392.D	9.05	3.54
PSTDCCC050	PSTDCCC050	12/16/2024	16:44	PL093393.D	9.06	3.55

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Fax : 908 789 8922

Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/25/2024 11/25/2024

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 #
I.BLK	I.BLK	11/25/2024	10:52	PL093230.D	7.91	2.77
PEM	PEM	11/25/2024	11:05	PL093231.D	7.91	2.77
RESCHK	RESCHK	11/25/2024	11:18	PL093232.D	7.91	2.77
PSTDICC100	PSTDICC100	11/25/2024	11:32	PL093233.D	7.91	2.77
PSTDICC075	PSTDICC075	11/25/2024	11:45	PL093234.D	7.91	2.77
PSTDICC050	PSTDICC050	11/25/2024	11:58	PL093235.D	7.91	2.77
PSTDICC025	PSTDICC025	11/25/2024	12:11	PL093236.D	7.91	2.77
PSTDICC005	PSTDICC005	11/25/2024	12:25	PL093237.D	7.91	2.77
PCHLORICC500	PCHLORICC500	11/25/2024	13:04	PL093240.D	7.91	2.77
PTOXICC500	PTOXICC500	11/25/2024	14:11	PL093245.D	7.91	2.77
I.BLK	I.BLK	12/16/2024	09:32	PL093379.D	7.91	2.78
PEM	PEM	12/16/2024	09:46	PL093380.D	7.91	2.78
PSTDCCC050	PSTDCCC050	12/16/2024	10:35	PL093381.D	7.91	2.78
PB165647BL	PB165647BL	12/16/2024	13:32	PL093382.D	7.91	2.78
PB165647BS	PB165647BS	12/16/2024	13:45	PL093383.D	7.91	2.78
COMP-1A	P5277-01	12/16/2024	14:13	PL093385.D	7.91	2.78
COMP-2A	P5277-02	12/16/2024	14:26	PL093386.D	7.91	2.78
COMP-2AMS	P5277-02MS	12/16/2024	14:40	PL093387.D	7.91	2.78
COMP-2AMSD	P5277-02MSD	12/16/2024	14:53	PL093388.D	7.91	2.78
COMP-3A	P5277-03	12/16/2024	15:07	PL093389.D	7.91	2.78
I.BLK	I.BLK	12/16/2024	15:47	PL093392.D	7.91	2.78
PSTDCCC050	PSTDCCC050	12/16/2024	16:44	PL093393.D	7.91	2.78

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

COMP-2AMS

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-02MS **Date(s) Analyzed:** 12/16/2024 12/16/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	21.0	4.2
	2	5.79	5.74	5.84	21.9	
4,4'-DDE	1	6.19	6.14	6.24	20.7	6.1
	2	5.23	5.18	5.28	22.0	
4,4'-DDT	1	7.02	6.97	7.07	20.6	7.9
	2	6.04	5.99	6.09	22.3	
Aldrin	1	5.26	5.21	5.31	19.7	6.4
	2	4.23	4.18	4.28	21.0	
Dieldrin	1	6.34	6.29	6.39	20.5	7.5
	2	5.36	5.31	5.41	22.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

COMP-2AMSD

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-02MSD **Date(s) Analyzed:** 12/16/2024 12/16/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	21.8	4
	2	5.79	5.74	5.84	22.7	
4,4'-DDT	1	7.02	6.97	7.07	21.7	4.9
	2	6.04	5.99	6.09	22.8	
Aldrin	1	5.26	5.21	5.31	20.3	8
	2	4.23	4.18	4.28	22.0	
4,4'-DDE	1	6.19	6.14	6.24	21.3	7.2
	2	5.23	5.18	5.28	22.9	
Dieldrin	1	6.34	6.29	6.39	21.2	8.6
	2	5.36	5.31	5.41	23.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

COMP-3A

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-03 **Date(s) Analyzed:** 12/16/2024 12/16/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDT	1	7.02	6.97	7.07	0.24	21
	2	6.03	5.98	6.08	0.29	
4,4'-DDE	1	6.19	6.14	6.24	0.31	18.4
	2	5.23	5.18	5.28	0.26	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165647BS

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: PB165647BS **Date(s) Analyzed:** 12/16/2024 12/16/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	16.9	2.3
	2	5.79	5.74	5.84	17.3	
4,4'-DDT	1	7.02	6.97	7.07	17.2	2.3
	2	6.04	5.99	6.09	17.6	
Aldrin	1	5.26	5.21	5.31	15.6	7.4
	2	4.23	4.18	4.28	16.8	
4,4'-DDE	1	6.19	6.14	6.24	16.5	4.7
	2	5.23	5.18	5.28	17.3	
Dieldrin	1	6.34	6.29	6.39	16.5	7
	2	5.36	5.31	5.41	17.7	

QC SAMPLE DATA

Raw Data: **PL093382.D**

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165647BL	SDG No.:	P5277
Lab Sample ID:	PB165647BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093382.D	1	12/16/24 08:51	12/16/24 13:32	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	0.13	U	0.13	1.70	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	1.70	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		10 - 148	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		10 - 159	99%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093382.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093382.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 13:32
Operator : AR\AJ
Sample : PB165647BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165647BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:14:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.546	2.776	51424425	54853383	19.786	19.020
28)	SA Decachlor...	9.061	7.914	40661184	61200943	23.388	21.425
	Target Compounds						

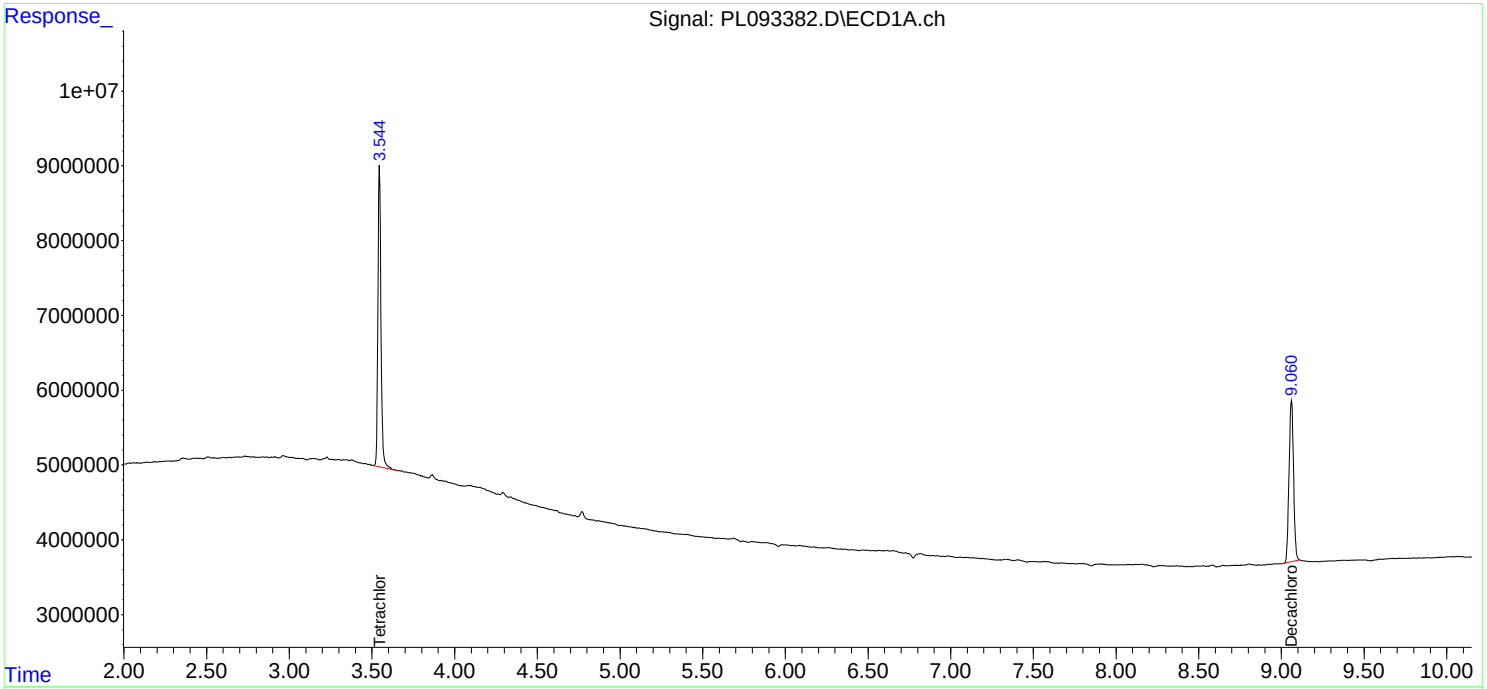
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

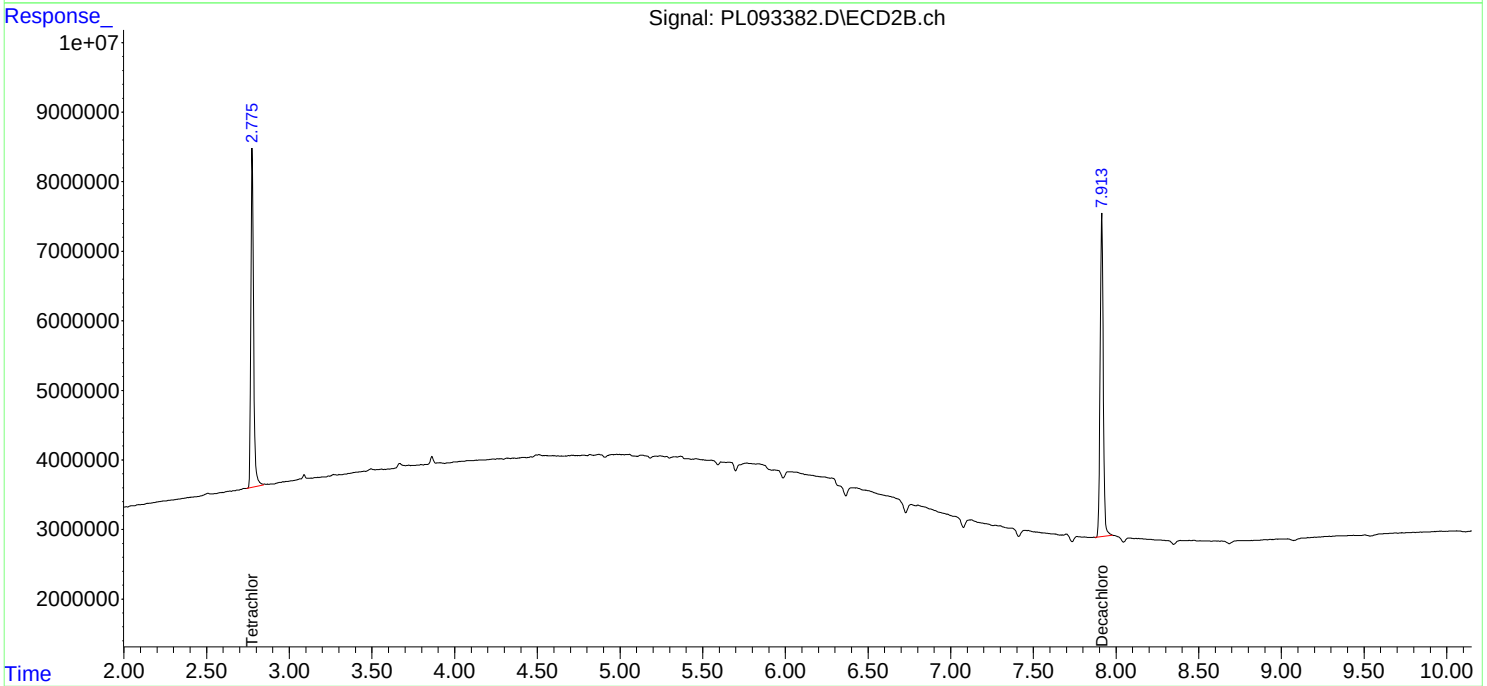
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093382.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 13:32
Operator : AR\AJ
Sample : PB165647BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

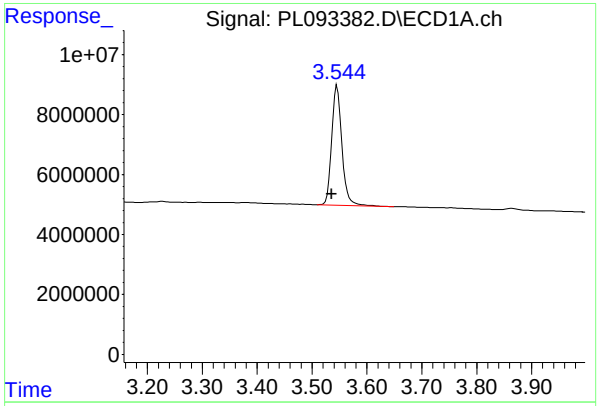
Instrument :
ECD_L
ClientSampleId :
PB165647BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:14:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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



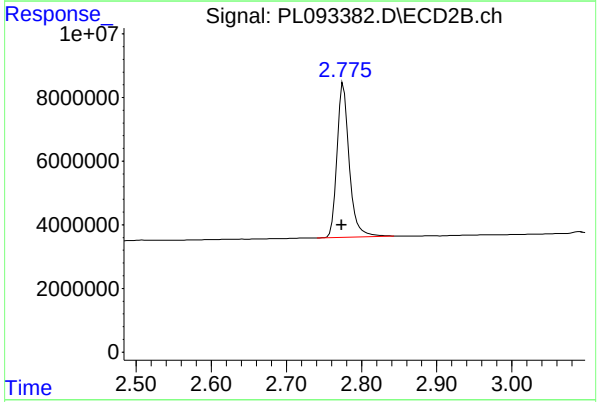




#1 Tetrachloro-m-xylene

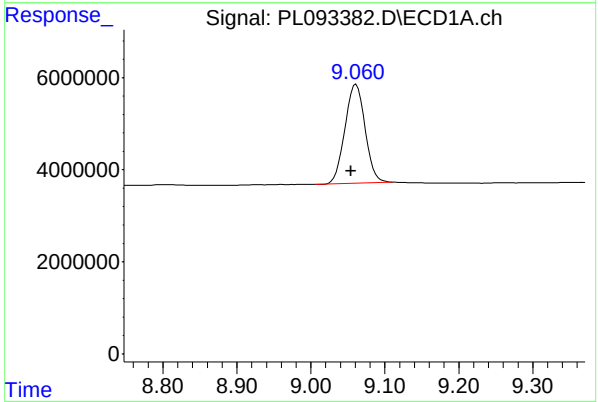
R.T.: 3.546 min
Delta R.T.: 0.010 min
Response: 51424425
Conc: 19.79 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB165647BL



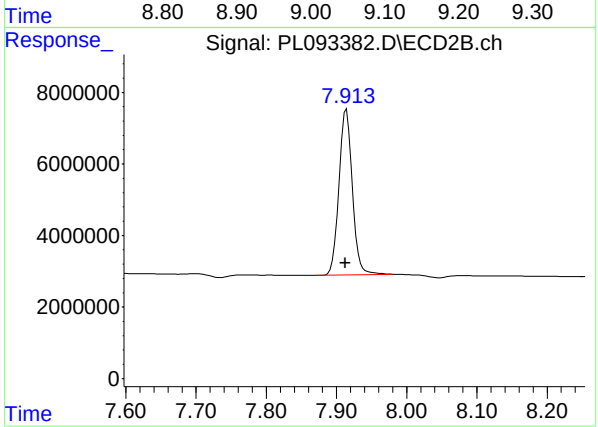
#1 Tetrachloro-m-xylene

R.T.: 2.776 min
Delta R.T.: 0.002 min
Response: 54853383
Conc: 19.02 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.007 min
Response: 40661184
Conc: 23.39 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.914 min
Delta R.T.: 0.002 min
Response: 61200943
Conc: 21.43 ng/ml

Raw Data: **PL093230.D**

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Report of Analysis

Client:	Kleinfelder	Date Collected:	11/25/24
Project:	Tanner G. Duckrey Public School	Date Received:	11/25/24
Client Sample ID:	PIBLK-PL093230.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093230.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 Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093230.D	1		11/25/24	PL112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		43 - 140	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.2		77 - 126	106%	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\PL112524\
Data File : PL093230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 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: Nov 25 14:00:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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...	3.536	2.773	54990096	58902224	21.158	20.424
28)	SA Decachlor...	9.053	7.912	37507670	61358215	21.574	21.481
	Target Compounds						

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

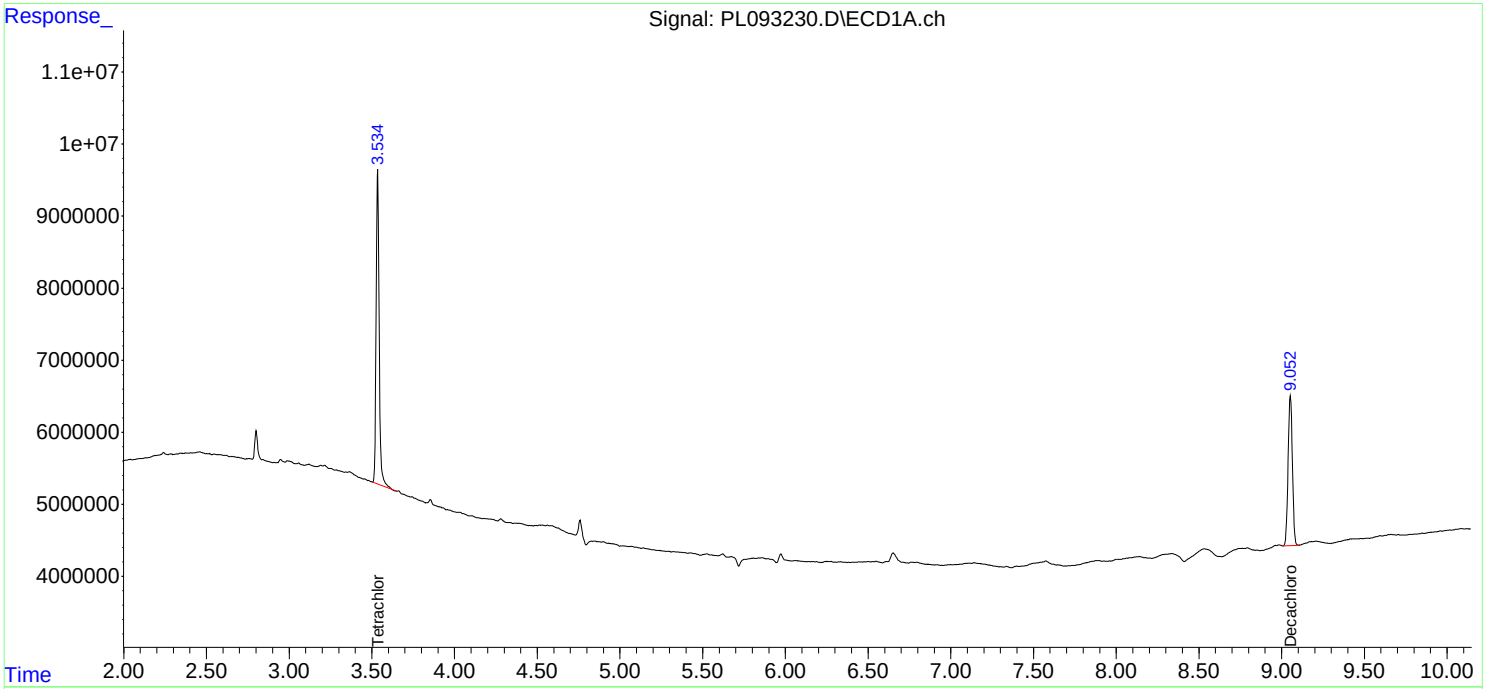
Sample Results: **PL093230.D**

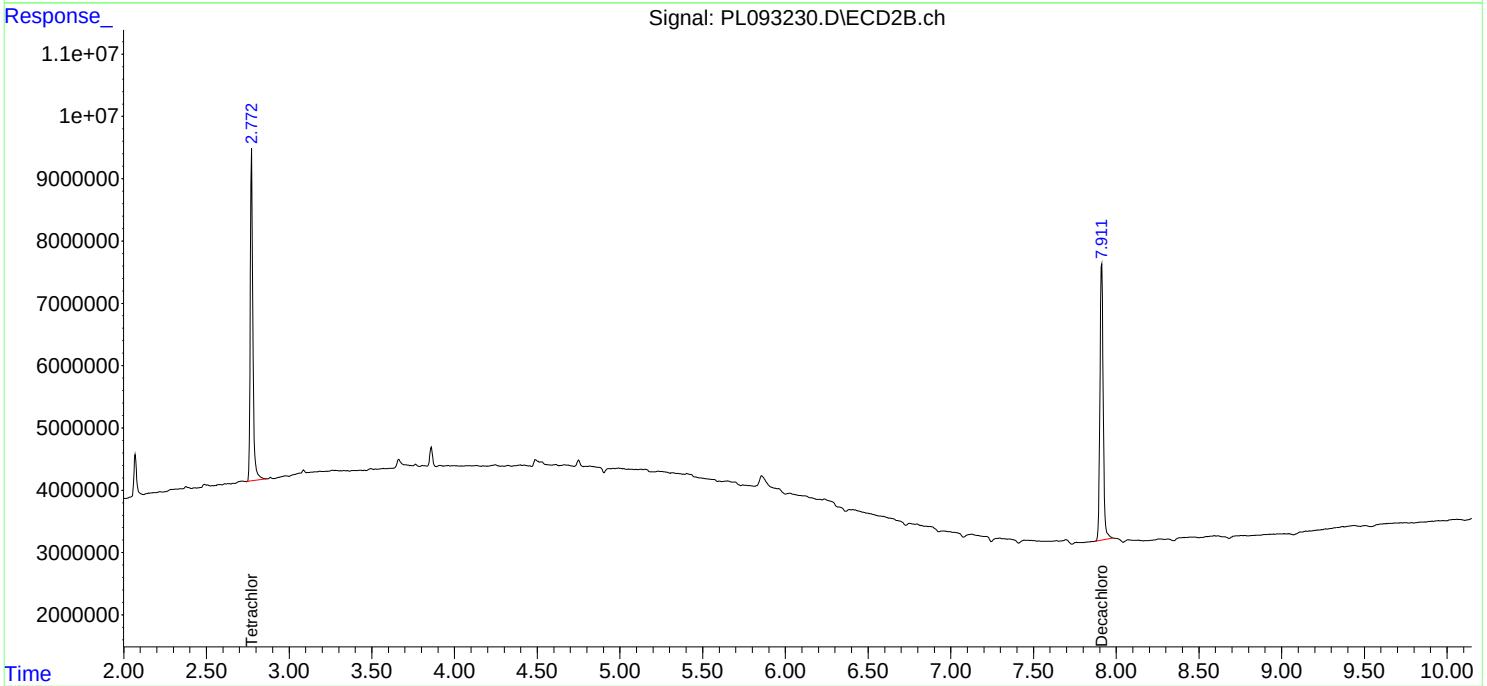
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112524\
Data File : PL093230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Nov 2024 10:52
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

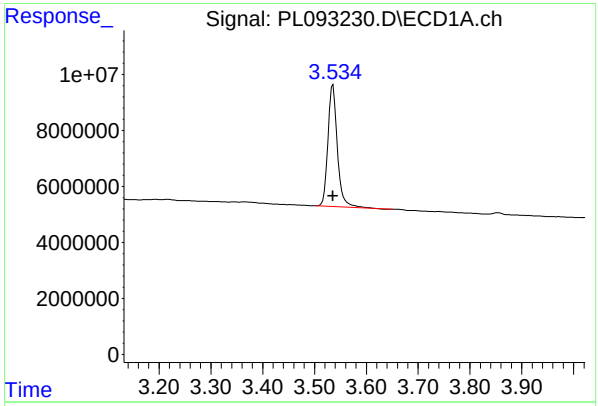
Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 25 14:00:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 13:59:47 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



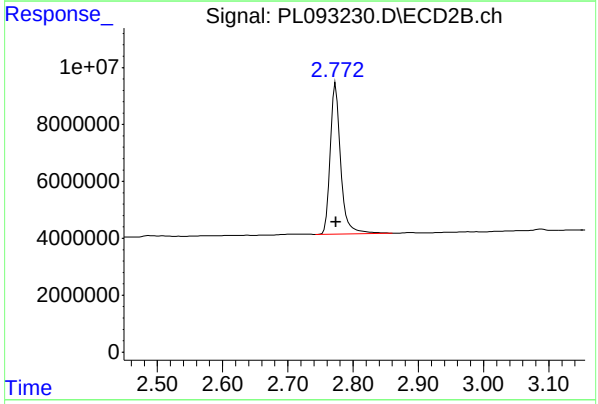




#1 Tetrachloro-m-xylene

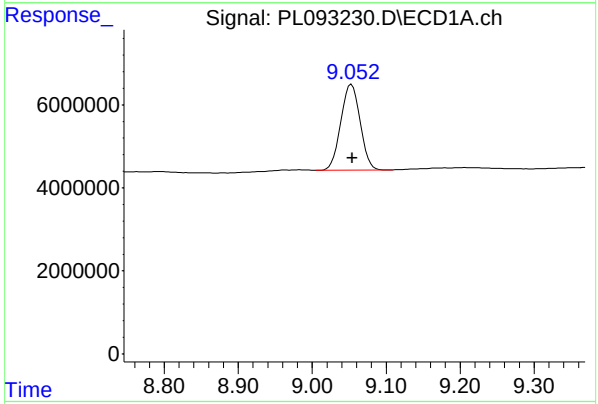
R.T.: 3.536 min
Delta R.T.: 0.000 min
Response: 54990096
Conc: 21.16 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



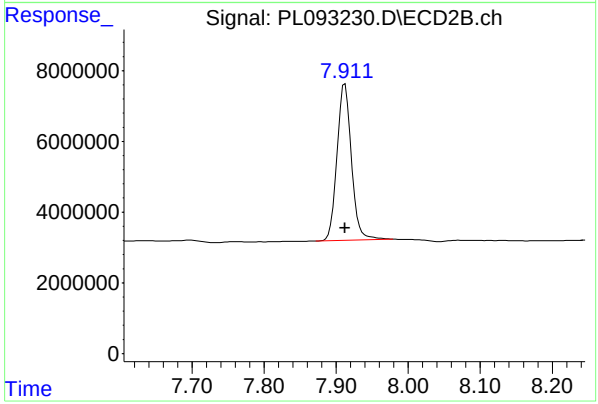
#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: 0.000 min
Response: 58902224
Conc: 20.42 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 min
Response: 37507670
Conc: 21.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.912 min
Delta R.T.: 0.000 min
Response: 61358215
Conc: 21.48 ng/ml

Raw Data: **PL093379.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PL093379.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093379.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 Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093379.D	1		12/16/24	pl121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.2		43 - 140	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.8		77 - 126	114%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093379.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 09:32
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: Dec 17 00:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.540	2.775	59166757	62762343	22.765	21.762
28)	SA Decachlor...	9.053	7.911	43751883	60862625	25.166	21.307
	Target Compounds						

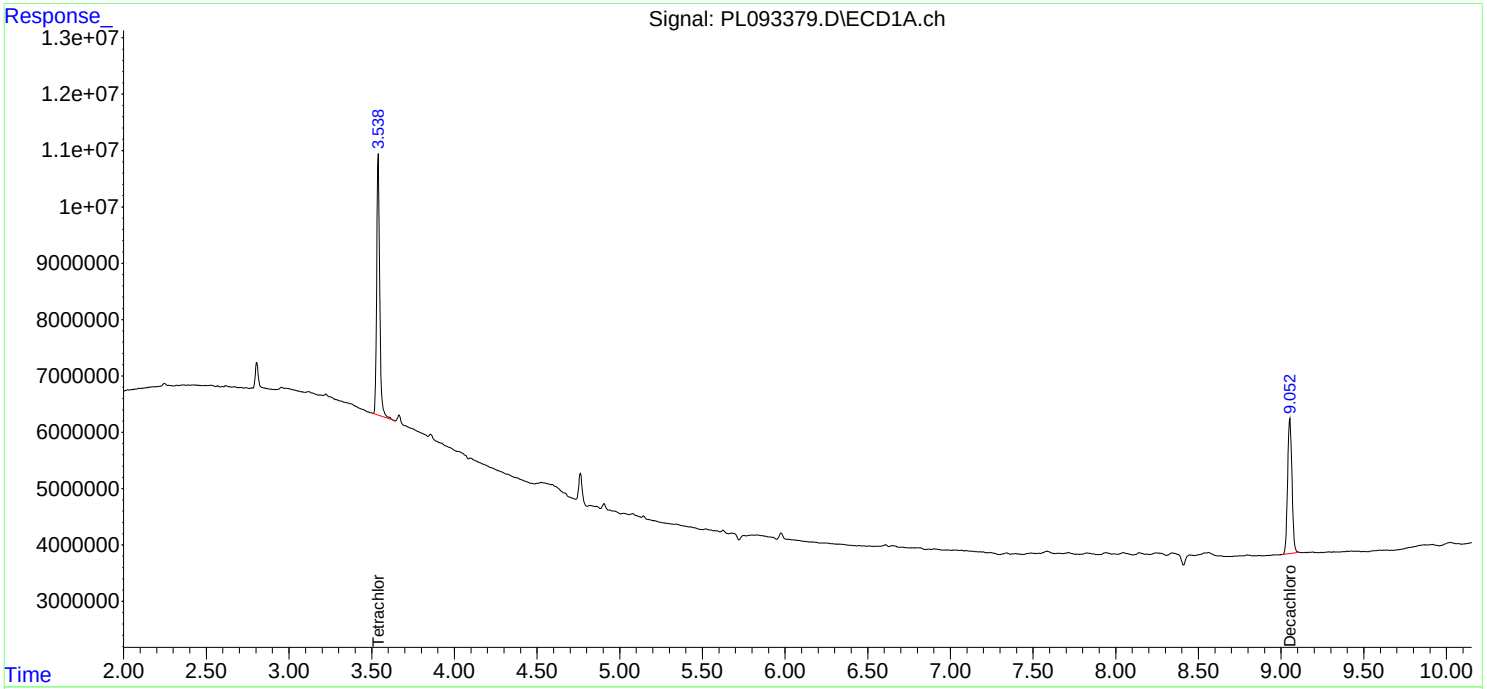
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

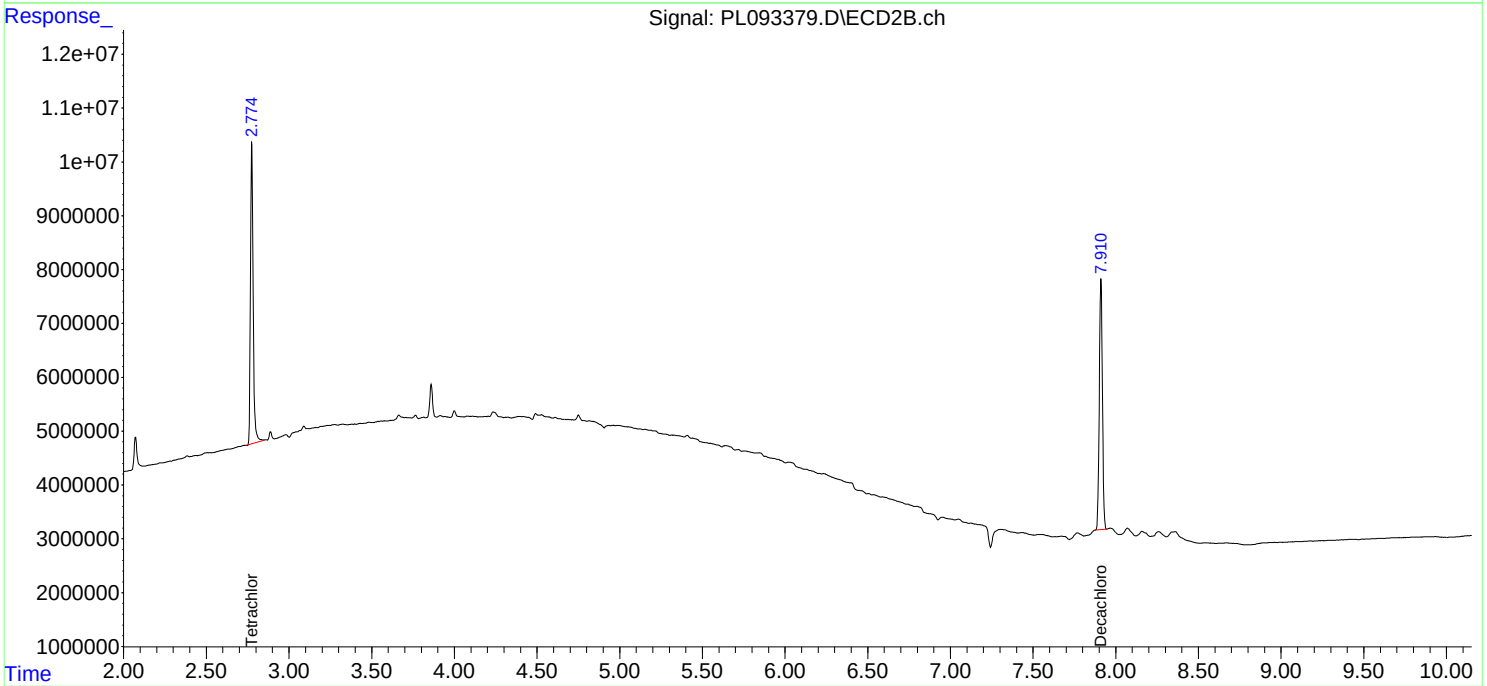
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 09:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

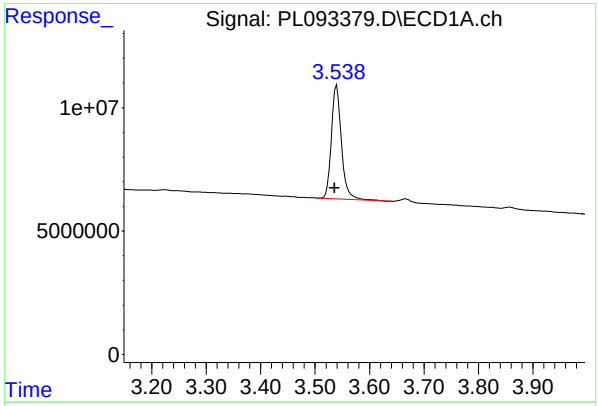
Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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



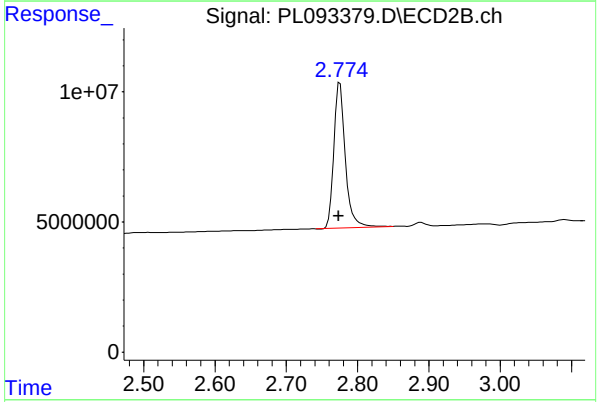




#1 Tetrachloro-m-xylene

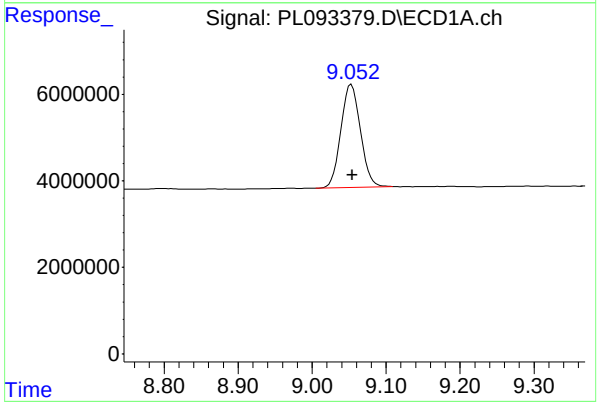
R.T.: 3.540 min
Delta R.T.: 0.004 min
Response: 59166757
Conc: 22.77 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



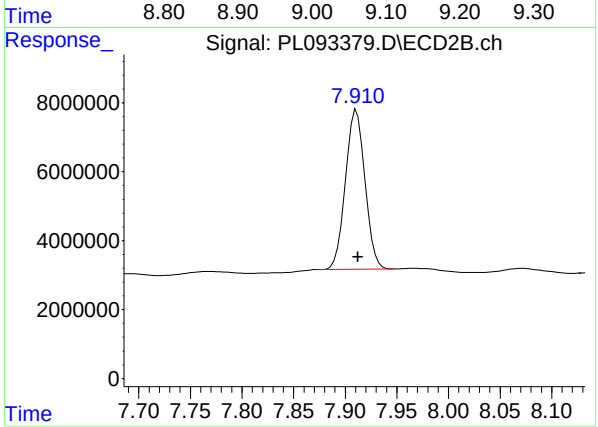
#1 Tetrachloro-m-xylene

R.T.: 2.775 min
Delta R.T.: 0.002 min
Response: 62762343
Conc: 21.76 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: -0.001 min
Response: 43751883
Conc: 25.17 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.911 min
Delta R.T.: -0.001 min
Response: 60862625
Conc: 21.31 ng/ml

Raw Data: **PL093392.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PL093392.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093392.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 Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093392.D	1		12/16/24	pl121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		43 - 140	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		77 - 126	107%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093392.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093392.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 15:47
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: Dec 17 00:19:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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	2.776	55447618	61297771	21.334	21.254
28)	SA Decachlor...	9.051	7.910	41467772	63022344	23.852	22.063
	Target Compounds						

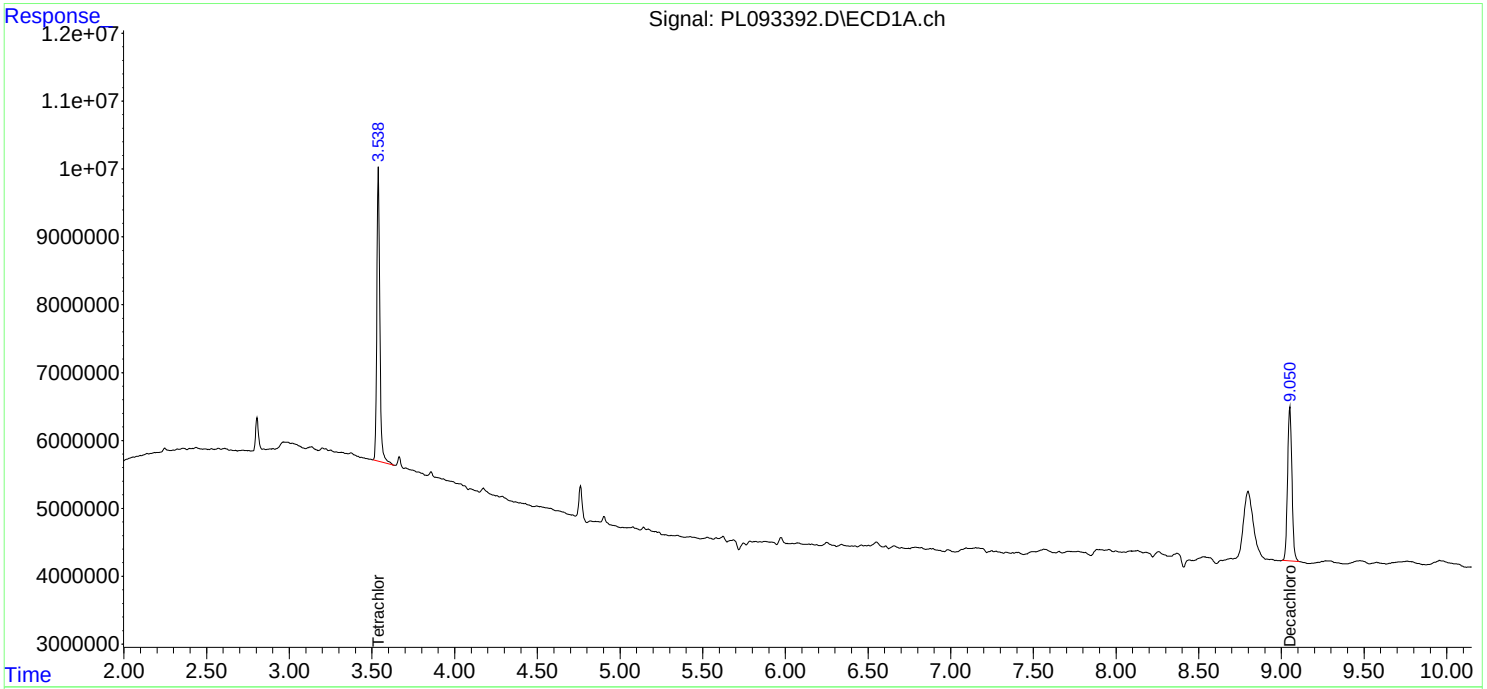
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

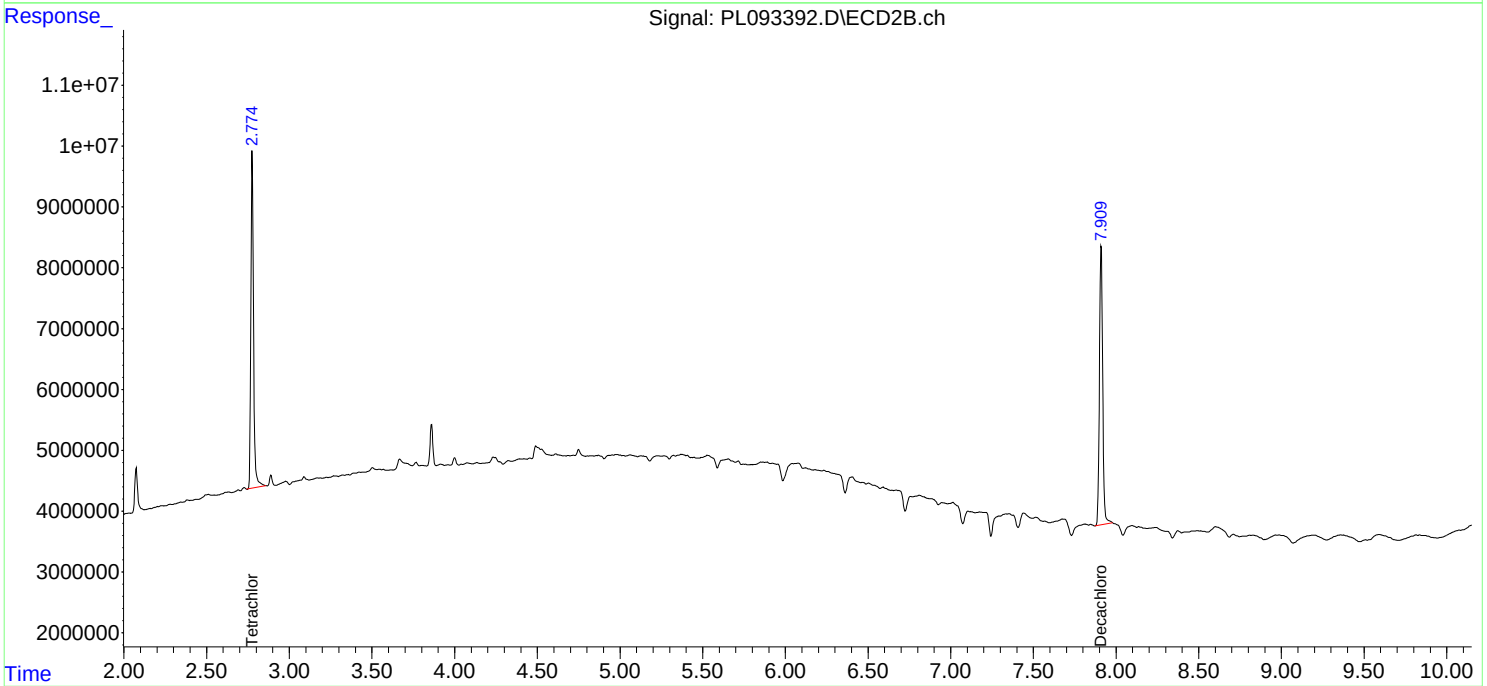
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093392.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 15:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

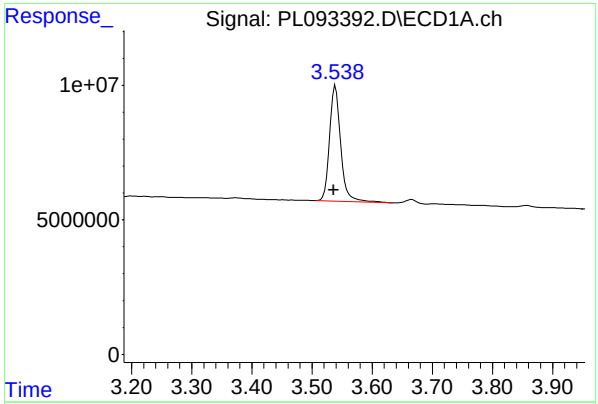
Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:19:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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



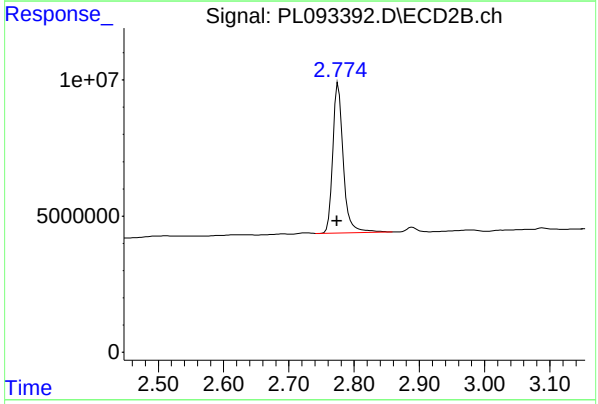




#1 Tetrachloro-m-xylene

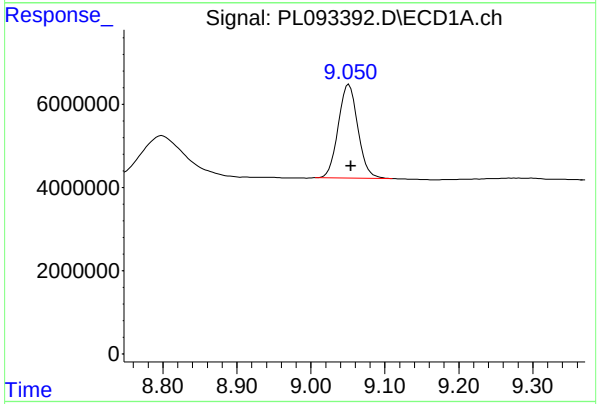
R.T.: 3.539 min
Delta R.T.: 0.003 min
Response: 55447618
Conc: 21.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



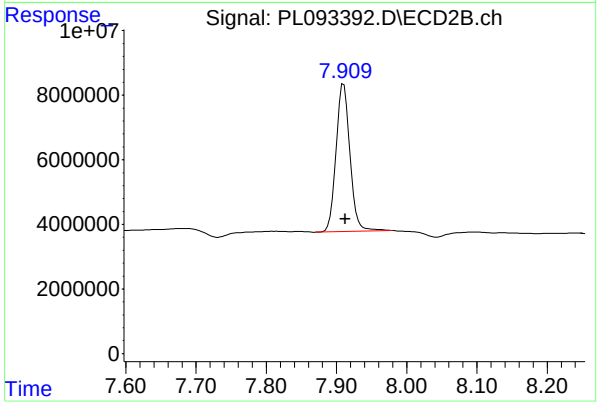
#1 Tetrachloro-m-xylene

R.T.: 2.776 min
Delta R.T.: 0.002 min
Response: 61297771
Conc: 21.25 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.051 min
Delta R.T.: -0.003 min
Response: 41467772
Conc: 23.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.910 min
Delta R.T.: -0.002 min
Response: 63022344
Conc: 22.06 ng/ml

Raw Data: **PL093383.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165647BS	SDG No.:	P5277
Lab Sample ID:	PB165647BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093383.D	1	12/16/24 08:51	12/16/24 13:45	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	16.8		0.14	1.70	ug/kg
60-57-1	Dieldrin	17.7		0.15	1.70	ug/kg
72-55-9	4,4-DDE	17.3		0.13	1.70	ug/kg
72-54-8	4,4-DDD	17.3		0.19	1.70	ug/kg
50-29-3	4,4-DDT	17.6		0.17	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		10 - 148	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		10 - 159	97%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093383.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093383.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 13:45
Operator : AR\AJ
Sample : PB165647BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165647BS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:15:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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	2.776	50161249	53703335	19.300	18.621
28) SA	Decachlor...	9.053	7.911	40596389	59696757	23.351	20.899
	Target Compounds						
2) A	alpha-BHC	3.995	3.278	170.6E6	215.5E6	47.814	50.482
3) MA	gamma-BHC...	4.328	3.608	159.0E6	206.3E6	47.054	49.825
4) MA	Heptachlor	4.916	3.946	148.7E6	211.5E6	48.649	52.278
5) MB	Aldrin	5.257	4.226	141.1E6	200.2E6	46.916	50.305
6) B	beta-BHC	4.526	3.908	71867041	88713668	47.603	49.871
7) B	delta-BHC	4.773	4.136	145.3E6	198.1E6	43.901	46.442
8) B	Heptachlo...	5.684	4.728	129.9E6	188.6E6	46.796	51.771
9) A	Endosulfan I	6.069	5.098	119.7E6	178.7E6	49.176	53.456
10) B	gamma-Chl...	5.940	4.978	128.2E6	199.1E6	49.762	53.736
11) B	alpha-Chl...	6.019	5.042	128.5E6	194.7E6	49.602	53.624
12) B	4,4'-DDE	6.192	5.231	115.6E6	186.0E6	49.397	51.947
13) MA	Dieldrin	6.344	5.362	126.6E6	196.3E6	49.391	53.266
14) MA	Endrin	6.573	5.638	103.0E6	165.5E6	49.113m	51.885
15) B	Endosulfa...	6.794	5.932	110.3E6	172.9E6	50.602	54.556
16) A	4,4'-DDD	6.710	5.785	92786865	145.9E6	50.640	52.051
17) MA	4,4'-DDT	7.023	6.036	99318389	156.7E6	51.518	52.917
18) B	Endrin al...	6.924	6.111	87500918	133.4E6	48.434	50.887
19) B	Endosulfa...	7.158	6.334	103.2E6	160.7E6	49.787	52.878
20) A	Methoxychlor	7.500	6.611	51318333	75753720	49.114	49.611
21) B	Endrin ke...	7.643	6.840	116.7E6	190.2E6	51.446	56.666
22)	Mirex	8.116	7.020	88776069	140.1E6	49.150	52.157

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093383.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 13:45
Operator : AR\AJ
Sample : PB165647BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

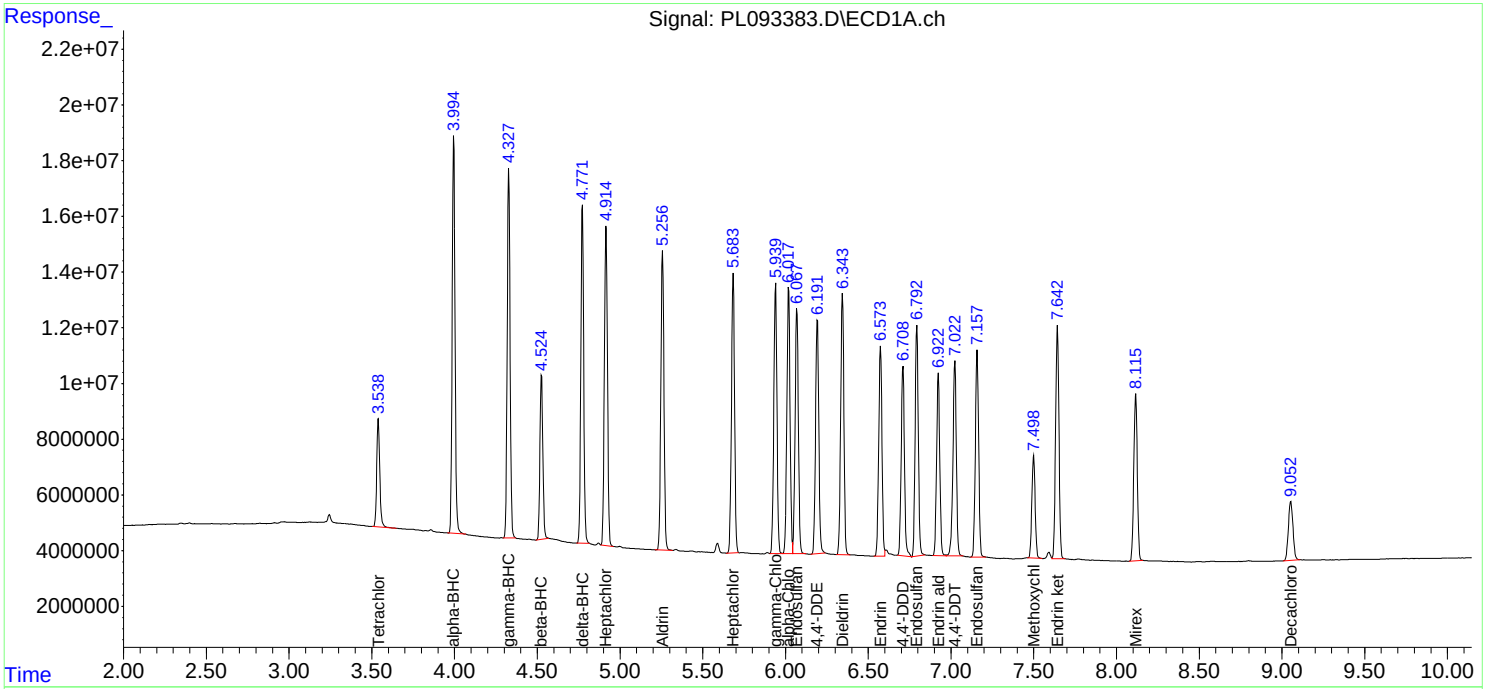
Instrument :
ECD_L
ClientSampleId :
PB165647BS

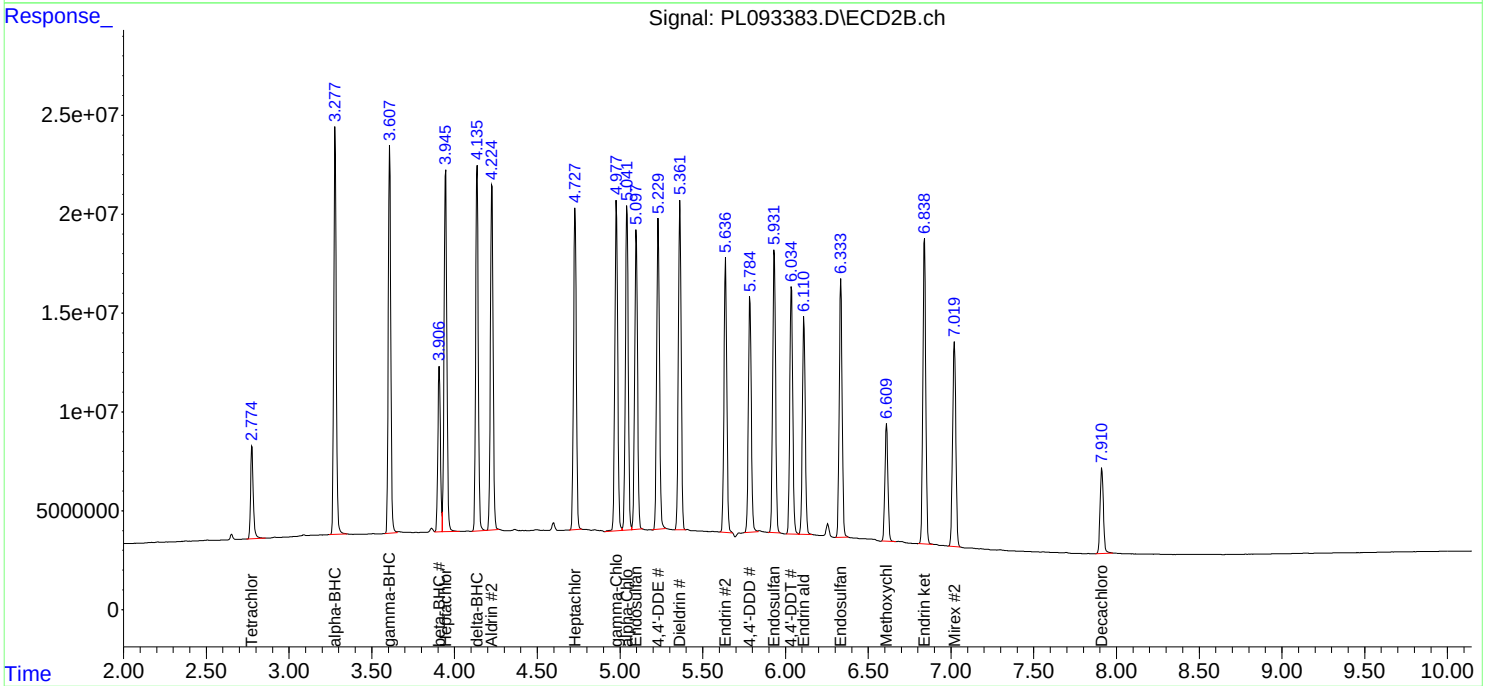
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:15:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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





Raw Data: **PL093387.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2AMS	SDG No.:	P5277
Lab Sample ID:	P5277-02MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093387.D	1	12/16/24 08:51	12/16/24 14:40	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	21.0		0.18	2.10	ug/kg
60-57-1	Dieldrin	22.1		0.19	2.10	ug/kg
72-55-9	4,4-DDE	22.0		0.16	2.10	ug/kg
72-54-8	4,4-DDD	21.9		0.24	2.10	ug/kg
50-29-3	4,4-DDT	22.3		0.22	2.10	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		10 - 148	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		10 - 159	89%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093387.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093387.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:40
Operator : AR\AJ
Sample : P5277-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
COMP-2AMS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.537	2.775	46044536	50425149	17.716m	17.484
28)	SA Decachlor...	9.052	7.912	29811341	52984667	17.147	18.549
	Target Compounds						
2)	A alpha-BHC	3.995	3.278	170.3E6	213.7E6	47.713	50.043
3)	MA gamma-BHC...	4.327	3.608	158.0E6	202.6E6	46.754	48.931
4)	MA Heptachlor	4.915	3.947	145.6E6	206.6E6	47.631	51.067
5)	MB Aldrin	5.257	4.226	140.3E6	198.0E6	46.667	49.756
6)	B beta-BHC	4.525	3.908	72168356	88339491	47.802	49.661
7)	B delta-BHC	4.772	4.136	144.9E6	197.5E6	43.798	46.287
8)	B Heptachlo...	5.683	4.728	129.3E6	185.3E6	46.572	50.878
9)	A Endosulfan I	6.068	5.098	118.5E6	177.3E6	48.666	53.037
10)	B gamma-Chl...	5.939	4.976	122.6E6	196.3E6	47.573	52.994m
11)	B alpha-Chl...	6.018	5.042	127.6E6	195.1E6	49.236	53.742
12)	B 4,4'-DDE	6.192	5.230	114.7E6	186.9E6	49.027	52.202
13)	MA Dieldrin	6.343	5.362	124.5E6	193.5E6	48.569	52.514
14)	MA Endrin	6.571	5.636	105.8E6	174.7E6	50.440m	54.784m
15)	B Endosulfa...	6.791	5.932	103.8E6	171.7E6	47.621m	54.186
16)	A 4,4'-DDD	6.707	5.785	91486438	145.4E6	49.930m	51.851
17)	MA 4,4'-DDT	7.022	6.035	94451893	156.9E6	48.994	52.981
18)	B Endrin al...	6.922	6.111	85878728	130.2E6	47.536	49.638
19)	B Endosulfa...	7.157	6.334	102.3E6	157.3E6	49.370	51.757
20)	A Methoxychlor	7.498	6.610	52463287	73313692	50.210	48.013
21)	B Endrin ke...	7.642	6.839	115.2E6	180.8E6	50.777	53.855
22)	Mirex	8.115	7.019	87597185	136.7E6	48.497	50.867

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093387.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:40
Operator : AR\AJ
Sample : P5277-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

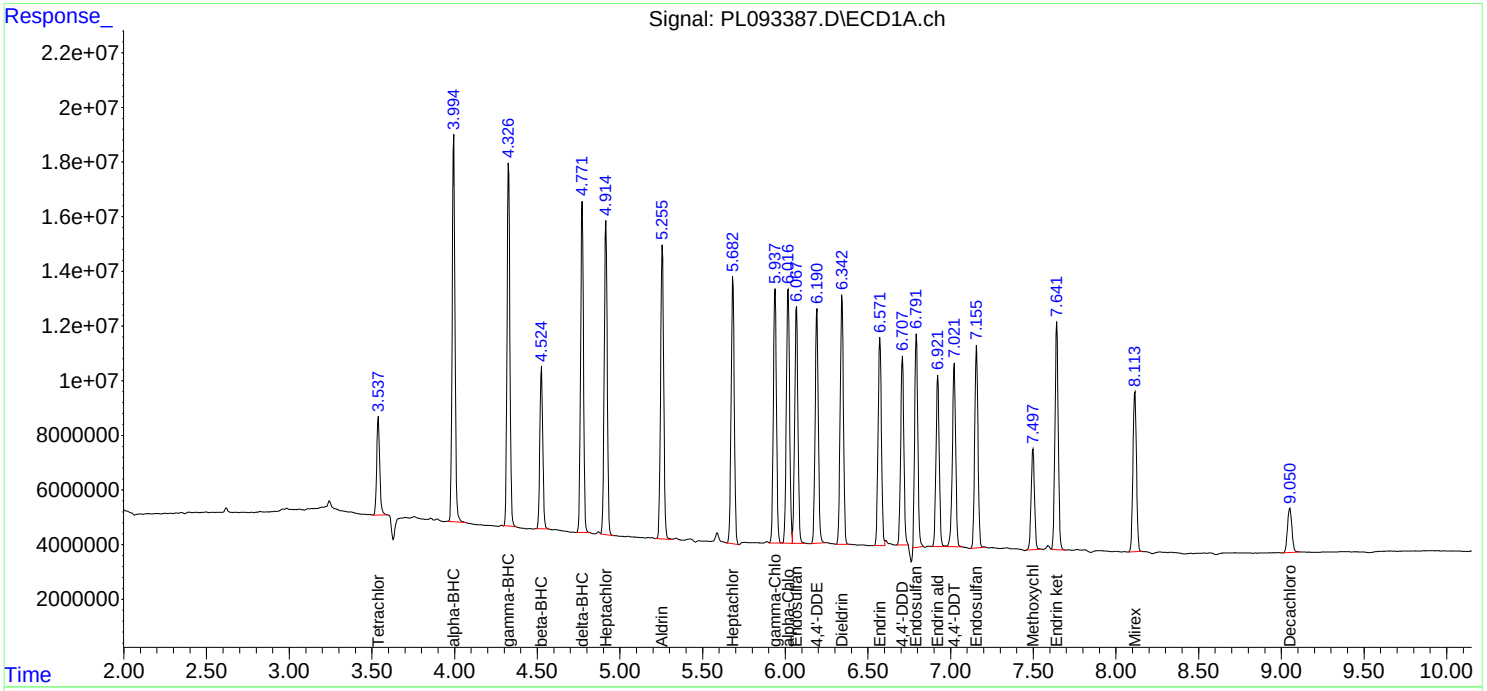
Instrument :
ECD_L
ClientSampleId :
COMP-2AMS

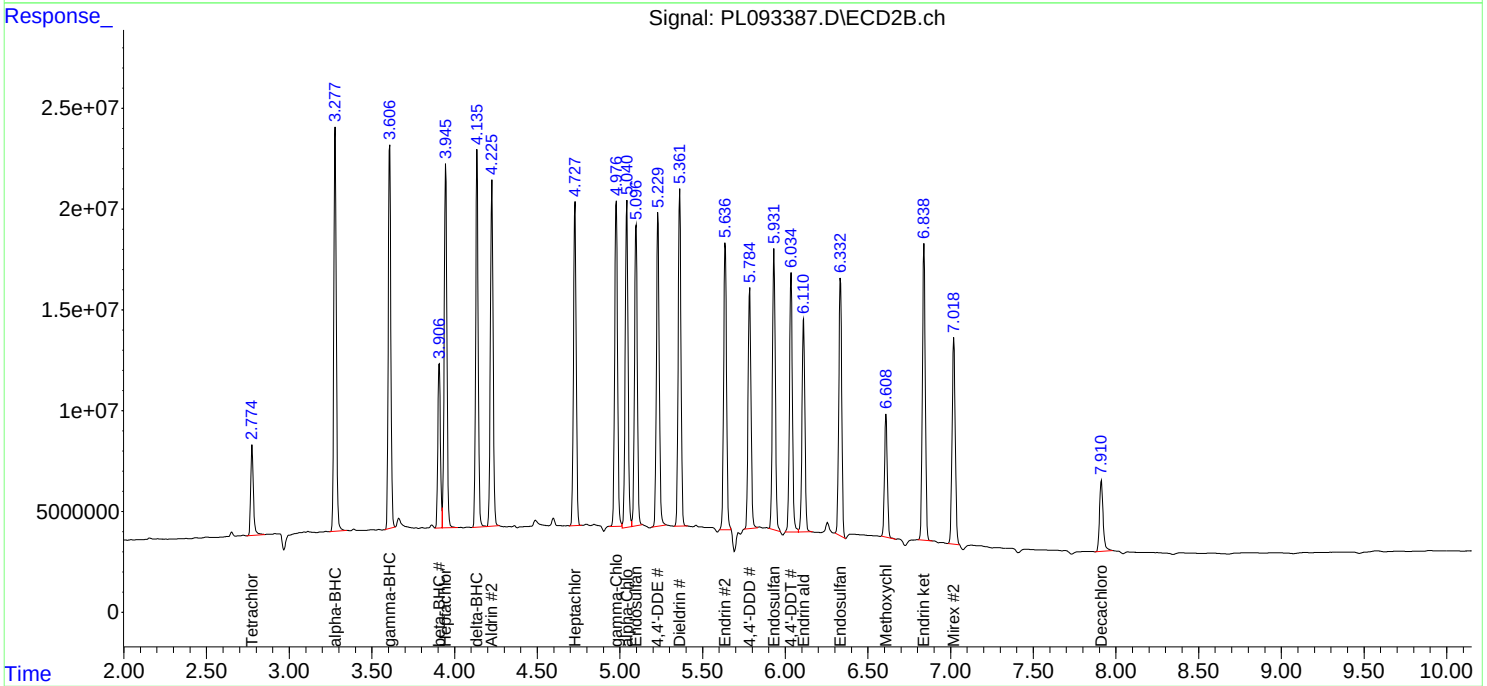
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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





Raw Data: **PL093388.D**

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2AMSD	SDG No.:	P5277
Lab Sample ID:	P5277-02MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093388.D	1	12/16/24 08:51	12/16/24 14:53	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	22.0		0.18	2.20	ug/kg
60-57-1	Dieldrin	23.1		0.19	2.20	ug/kg
72-55-9	4,4-DDE	22.9		0.16	2.20	ug/kg
72-54-8	4,4-DDD	22.7		0.24	2.20	ug/kg
50-29-3	4,4-DDT	22.8		0.22	2.20	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		10 - 148	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		10 - 159	92%	SPK: 20

Comments:

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

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

Quantitation Report (QT Reviewed)

Sample Results: **PL093388.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093388.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:53
Operator : AR\AJ
Sample : P5277-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
COMP-2AMSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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...	3.538	2.776	47647188	51261400	18.333m	17.774
28)	SA	Decachlor...	9.053	7.912	31772557	54537549	18.275	19.093
		Target Compounds						
2)	A	alpha-BHC	3.995	3.278	177.1E6	221.8E6	49.622	51.958
3)	MA	gamma-BHC...	4.327	3.608	164.3E6	211.6E6	48.630	51.108
4)	MA	Heptachlor	4.915	3.946	150.9E6	216.7E6	49.371	53.562
5)	MB	Aldrin	5.257	4.226	144.6E6	207.0E6	48.094	52.030
6)	B	beta-BHC	4.525	3.907	74566959	91938864	49.391	51.684
7)	B	delta-BHC	4.772	4.136	150.2E6	207.0E6	45.408	48.528
8)	B	Heptachlo...	5.683	4.728	133.5E6	192.6E6	48.064	52.883
9)	A	Endosulfan I	6.069	5.097	122.0E6	184.4E6	50.136	55.171
10)	B	gamma-Chl...	5.939	4.977	126.9E6	204.9E6	49.237	55.300m
11)	B	alpha-Chl...	6.018	5.042	131.5E6	204.6E6	50.759	56.346
12)	B	4,4'-DDE	6.191	5.230	118.1E6	193.8E6	50.491	54.126
13)	MA	Dieldrin	6.344	5.362	128.7E6	202.1E6	50.204	54.833
14)	MA	Endrin	6.572	5.636	108.7E6	178.5E6	51.842m	55.973m
15)	B	Endosulfa...	6.792	5.932	108.6E6	174.8E6	49.798m	55.157
16)	A	4,4'-DDD	6.707	5.785	94502583	150.8E6	51.576m	53.775
17)	MA	4,4'-DDT	7.023	6.035	99008842	159.8E6	51.358	53.944
18)	B	Endrin al...	6.923	6.111	88588081	134.1E6	49.035	51.151
19)	B	Endosulfa...	7.158	6.334	105.5E6	163.2E6	50.881	53.682
20)	A	Methoxychlor	7.499	6.610	53217173	78377459	50.931	51.330
21)	B	Endrin ke...	7.643	6.839	118.4E6	187.8E6	52.156	55.938
22)		Mirex	8.116	7.020	89222350	141.0E6	49.397	52.474

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL121624\
Data File : PL093388.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Dec 2024 14:53
Operator : AR\AJ
Sample : P5277-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

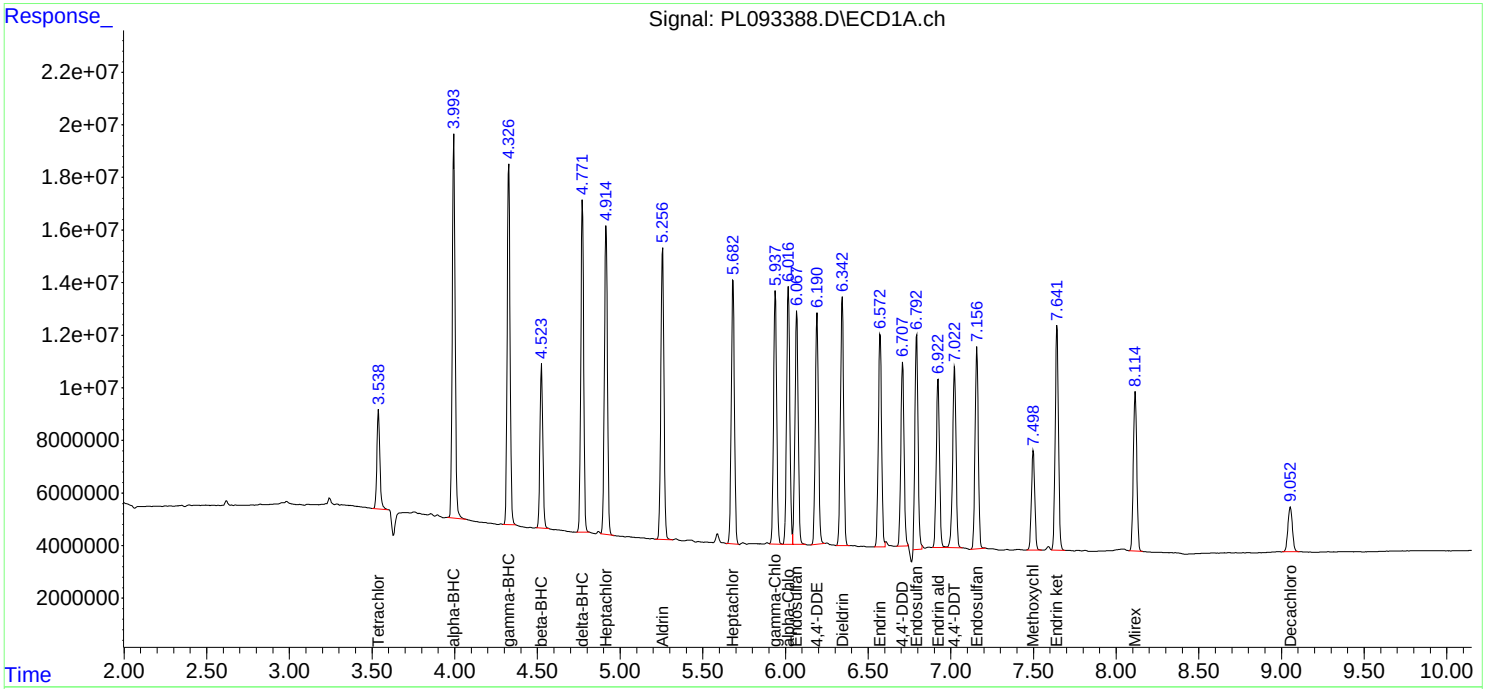
Instrument :
ECD_L
ClientSampleId :
COMP-2AMSD

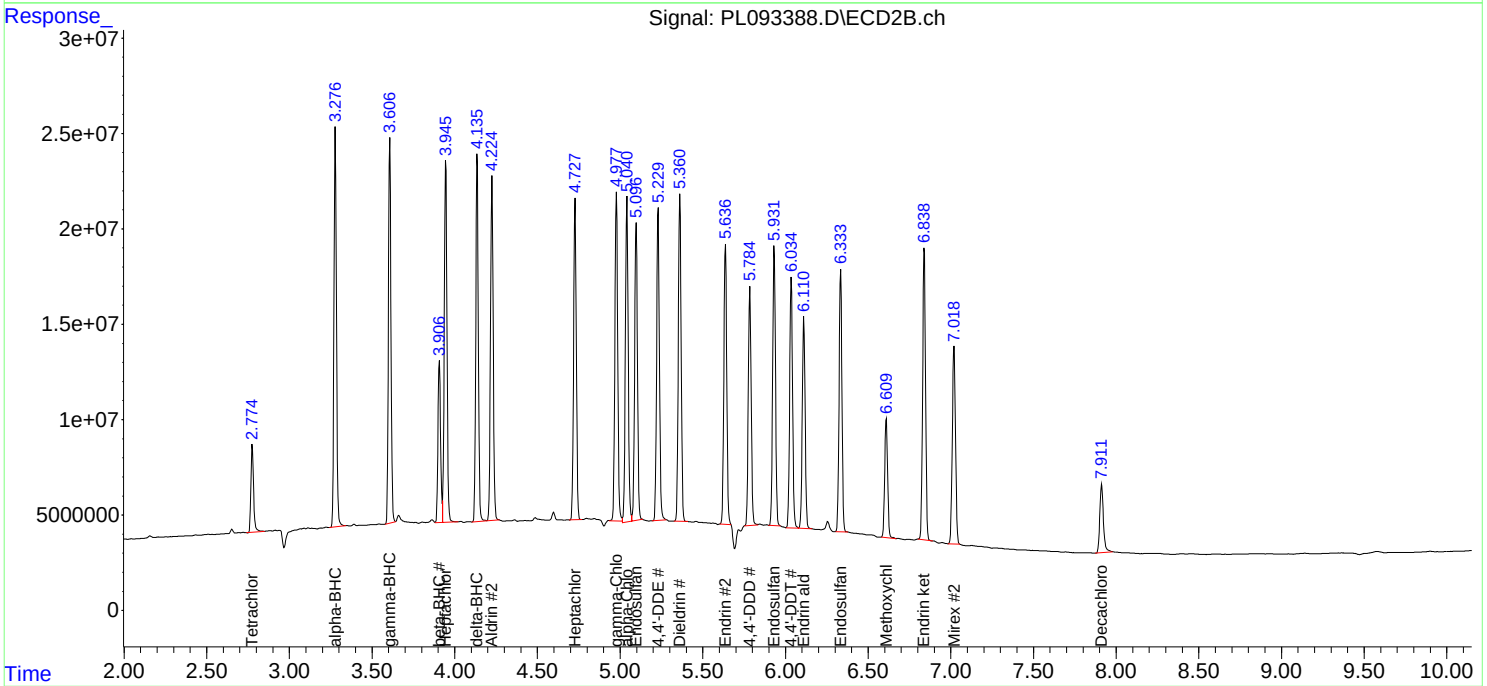
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/17/2024
Supervised By :Ankita Jodhani 12/17/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 17 00:17:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL112524.M
Quant Title : GC Extractables
QLast Update : Mon Nov 25 15:18:43 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





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Manual Integration Report

Sequence:	PL112524	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL093231.D	4,4"-DDD	yogesh	11/26/2024 8:18:02 AM	Ankita	11/26/2024 4:22:38	Peak Integrated by Software
PSTDICC005	PL093237.D	4,4"-DDD	yogesh	11/26/2024 8:18:03 AM	Ankita	11/26/2024 4:22:39	Peak Integrated by Software
PSTDICC005	PL093237.D	Decachlorobiphenyl	yogesh	11/26/2024 8:18:03 AM	Ankita	11/26/2024 4:22:39	Peak Integrated by Software
PSTDICC005	PL093237.D	Heptachlor	yogesh	11/26/2024 8:18:03 AM	Ankita	11/26/2024 4:22:39	Peak Integrated by Software
PSTDICC005	PL093237.D	Mirex #2	yogesh	11/26/2024 8:18:03 AM	Ankita	11/26/2024 4:22:39	Peak Integrated by Software
PCHLORICV500	PL093249.D	Chlordane-1 #2	yogesh	11/26/2024 8:18:08 AM	Ankita	11/26/2024 4:22:45	Peak Integrated by Software
PCHLORICV500	PL093249.D	Chlordane-2	yogesh	11/26/2024 8:18:08 AM	Ankita	11/26/2024 4:22:45	Peak Integrated by Software
PCHLORICV500	PL093249.D	Chlordane-5	yogesh	11/26/2024 8:18:08 AM	Ankita	11/26/2024 4:22:45	Peak Integrated by Software
PCHLORICV500	PL093249.D	Chlordane-5 #2	yogesh	11/26/2024 8:18:08 AM	Ankita	11/26/2024 4:22:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl121624	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL093380.D	4,4"-DDE	Abdul	12/17/2024 8:45:07 AM	Ankita	12/17/2024 9:42:17	Peak Integrated by Software
PEM	PL093380.D	4,4"-DDE #2	Abdul	12/17/2024 8:45:07 AM	Ankita	12/17/2024 9:42:17	Peak Integrated by Software
PEM	PL093380.D	Endrin	Abdul	12/17/2024 8:45:07 AM	Ankita	12/17/2024 9:42:17	Peak Integrated by Software
PEM	PL093380.D	Methoxychlor #2	Abdul	12/17/2024 8:45:07 AM	Ankita	12/17/2024 9:42:17	Peak Integrated by Software
PSTDCCC050	PL093381.D	Decachlorobiphenyl	Abdul	12/17/2024 8:45:17 AM	Ankita	12/17/2024 9:42:19	Peak Integrated by Software
PSTDCCC050	PL093381.D	Endrin	Abdul	12/17/2024 8:45:17 AM	Ankita	12/17/2024 9:42:19	Peak Integrated by Software
PB165647BS	PL093383.D	Endrin	Abdul	12/17/2024 8:45:21 AM	Ankita	12/17/2024 9:42:20	Peak Integrated by Software
P5277-01	PL093385.D	Tetrachloro-m-xylene	Abdul	12/17/2024 8:45:35 AM	Ankita	12/17/2024 9:42:23	Peak Integrated by Software
P5277-02	PL093386.D	Tetrachloro-m-xylene	Abdul	12/17/2024 8:45:38 AM	Ankita	12/17/2024 9:42:25	Peak Integrated by Software
P5277-02MS	PL093387.D	4,4"-DDD	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software
P5277-02MS	PL093387.D	Endosulfan II	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software
P5277-02MS	PL093387.D	Endrin	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software
P5277-02MS	PL093387.D	Endrin #2	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software

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

Manual Integration Report

Sequence:	pl121624	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5277-02MS	PL093387.D	gamma-Chlordane #2	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software
P5277-02MS	PL093387.D	Tetrachloro-m-xylene	Abdul	12/17/2024 8:45:42 AM	Ankita	12/17/2024 9:42:26	Peak Integrated by Software
P5277-02MSD	PL093388.D	4,4"-DDD	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-02MSD	PL093388.D	Endosulfan II	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-02MSD	PL093388.D	Endrin	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-02MSD	PL093388.D	Endrin #2	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-02MSD	PL093388.D	gamma-Chlordane #2	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-02MSD	PL093388.D	Tetrachloro-m-xylene	Abdul	12/17/2024 8:45:49 AM	Ankita	12/17/2024 9:42:28	Peak Integrated by Software
P5277-03	PL093389.D	4,4"-DDD	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software
P5277-03	PL093389.D	4,4"-DDD #2	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software
P5277-03	PL093389.D	4,4"-DDT	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software
P5277-03	PL093389.D	4,4"-DDT #2	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software
P5277-03	PL093389.D	alpha-Chlordane	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software

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

Manual Integration Report

Sequence:	pl121624	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5277-03	PL093389.D	Tetrachloro-m-xylene	Abdul	12/17/2024 8:45:54 AM	Ankita	12/17/2024 9:42:29	Peak Integrated by Software
PSTDCCC050	PL093393.D	Endrin	Abdul	12/17/2024 8:46:16 AM	Ankita	12/17/2024 9:42:33	Peak Integrated by Software
PSTDCCC050	PL093393.D	gamma-Chlordane #2	Abdul	12/17/2024 8:46:16 AM	Ankita	12/17/2024 9:42:33	Peak Integrated by Software

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112524

Review By	yogesh	Review On	11/26/2024 8:18:30 AM		
Supervise By	Ankita	Supervise On	11/26/2024 4:22:56 PM		
SubDirectory	PL112524	HP Acquire Method		HP Processing Method	PL112524

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093229.D	25 Nov 2024 10:39	AR\AJ	Ok
2	I.BLK	PL093230.D	25 Nov 2024 10:52	AR\AJ	Ok
3	PEM	PL093231.D	25 Nov 2024 11:05	AR\AJ	Ok,M
4	RESCHK	PL093232.D	25 Nov 2024 11:18	AR\AJ	Ok
5	PSTDICC100	PL093233.D	25 Nov 2024 11:32	AR\AJ	Ok
6	PSTDICC075	PL093234.D	25 Nov 2024 11:45	AR\AJ	Ok
7	PSTDICC050	PL093235.D	25 Nov 2024 11:58	AR\AJ	Ok
8	PSTDICC025	PL093236.D	25 Nov 2024 12:11	AR\AJ	Ok
9	PSTDICC005	PL093237.D	25 Nov 2024 12:25	AR\AJ	Ok,M
10	PCHLORICC1000	PL093238.D	25 Nov 2024 12:38	AR\AJ	Ok
11	PCHLORICC750	PL093239.D	25 Nov 2024 12:51	AR\AJ	Ok
12	PCHLORICC500	PL093240.D	25 Nov 2024 13:04	AR\AJ	Ok
13	PCHLORICC250	PL093241.D	25 Nov 2024 13:18	AR\AJ	Ok
14	PCHLORICC050	PL093242.D	25 Nov 2024 13:31	AR\AJ	Ok,M
15	PTOXICC1000	PL093243.D	25 Nov 2024 13:44	AR\AJ	Ok
16	PTOXICC750	PL093244.D	25 Nov 2024 13:57	AR\AJ	Ok
17	PTOXICC500	PL093245.D	25 Nov 2024 14:11	AR\AJ	Ok
18	PTOXICC250	PL093246.D	25 Nov 2024 14:24	AR\AJ	Ok
19	PTOXICC100	PL093247.D	25 Nov 2024 14:37	AR\AJ	Ok,M
20	PSTDICV050	PL093248.D	25 Nov 2024 14:50	AR\AJ	Ok
21	PCHLORICV500	PL093249.D	25 Nov 2024 15:03	AR\AJ	Ok,M

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112524

Review By	yogesh	Review On	11/26/2024 8:18:30 AM		
Supervise By	Ankita	Supervise On	11/26/2024 4:22:56 PM		
SubDirectory	PL112524	HP Acquire Method		HP Processing Method	PL112524

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093250.D	25 Nov 2024 15:16	AR\AJ	Ok
23	I.BLK	PL093251.D	25 Nov 2024 15:30	AR\AJ	Ok
24	PEM	PL093252.D	25 Nov 2024 15:43	AR\AJ	Ok
25	PSTDCCC050	PL093253.D	25 Nov 2024 15:56	AR\AJ	Ok
26	PB165184BS	PL093254.D	25 Nov 2024 16:22	AR\AJ	Ok,M
27	PB165202BL	PL093255.D	25 Nov 2024 16:37	AR\AJ	Ok
28	PB165202BS	PL093256.D	25 Nov 2024 16:50	AR\AJ	Ok,M
29	PB165202BSD	PL093257.D	25 Nov 2024 17:03	AR\AJ	Ok,M
30	P4947-01	PL093258.D	25 Nov 2024 17:16	AR\AJ	Ok
31	I.BLK	PL093259.D	25 Nov 2024 17:29	AR\AJ	Ok
32	PSTDCCC050	PL093260.D	25 Nov 2024 17:42	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL121624

Review By	Abdul	Review On	12/17/2024 8:50:06 AM		
Supervise By	Ankita	Supervise On	12/17/2024 9:42:49 AM		
SubDirectory	PL121624	HP Acquire Method		HP Processing Method	pl112524 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093378.D	16 Dec 2024 09:19	AR\AJ	Ok
2	I.BLK	PL093379.D	16 Dec 2024 09:32	AR\AJ	Ok
3	PEM	PL093380.D	16 Dec 2024 09:46	AR\AJ	Ok,M
4	PSTDCCC050	PL093381.D	16 Dec 2024 10:35	AR\AJ	Ok,M
5	PB165647BL	PL093382.D	16 Dec 2024 13:32	AR\AJ	Ok
6	PB165647BS	PL093383.D	16 Dec 2024 13:45	AR\AJ	Ok,M
7	P5268-01	PL093384.D	16 Dec 2024 13:59	AR\AJ	Ok,M
8	P5277-01	PL093385.D	16 Dec 2024 14:13	AR\AJ	Ok,M
9	P5277-02	PL093386.D	16 Dec 2024 14:26	AR\AJ	Ok,M
10	P5277-02MS	PL093387.D	16 Dec 2024 14:40	AR\AJ	Ok,M
11	P5277-02MSD	PL093388.D	16 Dec 2024 14:53	AR\AJ	Ok,M
12	P5277-03	PL093389.D	16 Dec 2024 15:07	AR\AJ	Ok,M
13	P5287-03	PL093390.D	16 Dec 2024 15:20	AR\AJ	Ok,M
14	P5287-01	PL093391.D	16 Dec 2024 15:34	AR\AJ	Ok,M
15	I.BLK	PL093392.D	16 Dec 2024 15:47	AR\AJ	Ok
16	PSTDCCC050	PL093393.D	16 Dec 2024 16:44	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112524

Review By	yogesh	Review On	11/26/2024 8:18:30 AM		
Supervise By	Ankita	Supervise On	11/26/2024 4:22:56 PM		
SubDirectory	PL112524	HP Acquire Method		HP Processing Method	PL112524

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093229.D	25 Nov 2024 10:39		AR\AJ	Ok
2	I.BLK	I.BLK	PL093230.D	25 Nov 2024 10:52		AR\AJ	Ok
3	PEM	PEM	PL093231.D	25 Nov 2024 11:05		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL093232.D	25 Nov 2024 11:18		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL093233.D	25 Nov 2024 11:32		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL093234.D	25 Nov 2024 11:45		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL093235.D	25 Nov 2024 11:58		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL093236.D	25 Nov 2024 12:11		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL093237.D	25 Nov 2024 12:25		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL093238.D	25 Nov 2024 12:38		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL093239.D	25 Nov 2024 12:51		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL093240.D	25 Nov 2024 13:04		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL093241.D	25 Nov 2024 13:18		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL093242.D	25 Nov 2024 13:31		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL093243.D	25 Nov 2024 13:44		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL093244.D	25 Nov 2024 13:57		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL093245.D	25 Nov 2024 14:11		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL093246.D	25 Nov 2024 14:24		AR\AJ	Ok

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL112524

Review By	yogesh	Review On	11/26/2024 8:18:30 AM		
Supervise By	Ankita	Supervise On	11/26/2024 4:22:56 PM		
SubDirectory	PL112524	HP Acquire Method		HP Processing Method	PL112524

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093247.D	25 Nov 2024 14:37		AR\AJ	Ok,M
20	PSTDICV050	ICVPL112524	PL093248.D	25 Nov 2024 14:50		AR\AJ	Ok
21	PCHLORICV500	ICVPL112524	PL093249.D	25 Nov 2024 15:03		AR\AJ	Ok,M
22	PTOXICV500	ICVPL112524	PL093250.D	25 Nov 2024 15:16		AR\AJ	Ok
23	I.BLK	I.BLK	PL093251.D	25 Nov 2024 15:30		AR\AJ	Ok
24	PEM	PEM	PL093252.D	25 Nov 2024 15:43		AR\AJ	Ok
25	PSTDCCC050	PSTDCCC050	PL093253.D	25 Nov 2024 15:56		AR\AJ	Ok
26	PB165184BS	PB165184BS	PL093254.D	25 Nov 2024 16:22		AR\AJ	Ok,M
27	PB165202BL	PB165202BL	PL093255.D	25 Nov 2024 16:37		AR\AJ	Ok
28	PB165202BS	PB165202BS	PL093256.D	25 Nov 2024 16:50	Recovery high for methoxychlor	AR\AJ	Ok,M
29	PB165202BSD	PB165202BSD	PL093257.D	25 Nov 2024 17:03	Recovery high for methoxychlor	AR\AJ	Ok,M
30	P4947-01	A3988	PL093258.D	25 Nov 2024 17:16		AR\AJ	Ok
31	I.BLK	I.BLK	PL093259.D	25 Nov 2024 17:29		AR\AJ	Ok
32	PSTDCCC050	PSTDCCC050	PL093260.D	25 Nov 2024 17:42		AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL121624

Review By	Abdul	Review On	12/17/2024 8:50:06 AM		
Supervise By	Ankita	Supervise On	12/17/2024 9:42:49 AM		
SubDirectory	PL121624	HP Acquire Method		HP Processing Method	pl112524 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,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	PL093378.D	16 Dec 2024 09:19		AR\AJ	Ok
2	I.BLK	I.BLK	PL093379.D	16 Dec 2024 09:32		AR\AJ	Ok
3	PEM	PEM	PL093380.D	16 Dec 2024 09:46		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL093381.D	16 Dec 2024 10:35		AR\AJ	Ok,M
5	PB165647BL	PB165647BL	PL093382.D	16 Dec 2024 13:32		AR\AJ	Ok
6	PB165647BS	PB165647BS	PL093383.D	16 Dec 2024 13:45		AR\AJ	Ok,M
7	P5268-01	OR-02-12122024	PL093384.D	16 Dec 2024 13:59		AR\AJ	Ok,M
8	P5277-01	COMP-1A	PL093385.D	16 Dec 2024 14:13		AR\AJ	Ok,M
9	P5277-02	COMP-2A	PL093386.D	16 Dec 2024 14:26		AR\AJ	Ok,M
10	P5277-02MS	COMP-2AMS	PL093387.D	16 Dec 2024 14:40		AR\AJ	Ok,M
11	P5277-02MSD	COMP-2AMSD	PL093388.D	16 Dec 2024 14:53		AR\AJ	Ok,M
12	P5277-03	COMP-3A	PL093389.D	16 Dec 2024 15:07		AR\AJ	Ok,M
13	P5287-03	STONES-B	PL093390.D	16 Dec 2024 15:20		AR\AJ	Ok,M
14	P5287-01	STONES-A	PL093391.D	16 Dec 2024 15:34		AR\AJ	Ok,M
15	I.BLK	I.BLK	PL093392.D	16 Dec 2024 15:47		AR\AJ	Ok
16	PSTDCCC050	PSTDCCC050	PL093393.D	16 Dec 2024 16:44		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/16/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 12/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133946

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5277-01	COMP-1A	1	1.15	8.66	9.81	8.81	88.5	
P5277-02	COMP-2A	2	1.16	8.64	9.8	7.98	78.9	
P5277-03	COMP-3A	3	1.19	8.45	9.64	8.79	89.9	
P5277-04	SB-13	4	1.14	8.61	9.75	8.89	90.0	
P5277-05	SB-14	5	1.15	8.81	9.96	9.14	90.7	
P5277-06	SB-15	6	1.18	8.74	9.92	9.08	90.4	
P5277-07	SB-16	7	1.15	8.81	9.96	8.68	85.5	
P5277-08	SB-17	8	1.12	8.86	9.98	7.98	77.4	
P5277-09	SB-18	9	1.16	8.74	9.9	8.34	82.2	
P5277-10	SB-19	10	1.14	8.83	9.97	8.42	82.4	
P5277-11	SB-20	11	1.19	8.52	9.71	8.13	81.5	
P5277-12	SB-21	12	1.17	8.72	9.89	9.05	90.4	
P5277-13	SB-22	13	1.15	8.80	9.95	9.03	89.5	
P5277-14	SB-23	14	1.14	8.61	9.75	8.51	85.6	
P5277-15	SB-24	15	1.16	8.40	9.56	8.68	89.5	
P5279-01	ROCKAWAY-PARK	16	1.18	8.47	9.65	9.11	93.6	
P5279-03	ROCKAWAY-PARK	17	1.15	8.50	9.65	9.14	94.0	
P5287-01	STONES-A	18	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-02	STONES-A-E2	19	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-03	STONES-B	20	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5287-04	STONES-B-E2	21	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P5288-05	SVOC-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
P5288-06	PEST-GPC-BLANK	23	1.00	1.00	2.00	2.00	100.0	
P5288-07	PEST-GPC-BLANK-SPIKE	24	1.00	1.00	2.00	2.00	100.0	
P5288-08	PCB-GPC-BLANK	25	1.00	1.00	2.00	2.00	100.0	
P5288-09	PCB-GPC-BLANK-SPIKE	26	1.00	1.00	2.00	2.00	100.0	
P5288-10	SVOC-GPC2-BLANK	27	1.00	1.00	2.00	2.00	100.0	
P5288-11	PEST-GPC2-BLANK	28	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/16/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 12/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133946

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5288-12	PEST-GPC2-BLANK-SPIKE	29	1.00	1.00	2.00	2.00	100.0	
P5288-13	PCB-GPC2-BLANK	30	1.00	1.00	2.00	2.00	100.0	
P5288-14	PCB-GPC2-BLANK-SPIKE	31	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165647

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	12/16/2024
Matrix :	Solid			**Extraction Start Time :**	08:51
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	12/16/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:50
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
Surrogate	1.0ML	200 PPB	PP23985
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
Hexane/Acetone/1:1	N/A	EP2561
Baked Na2SO4	N/A	EP2571
Sand	N/A	E2865
Hexane	N/A	E3844
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/16/24	RP (Ref. Lab)	AJ TEST PCA Lab
11:55	**Preparation Group**	**Analysis Group**

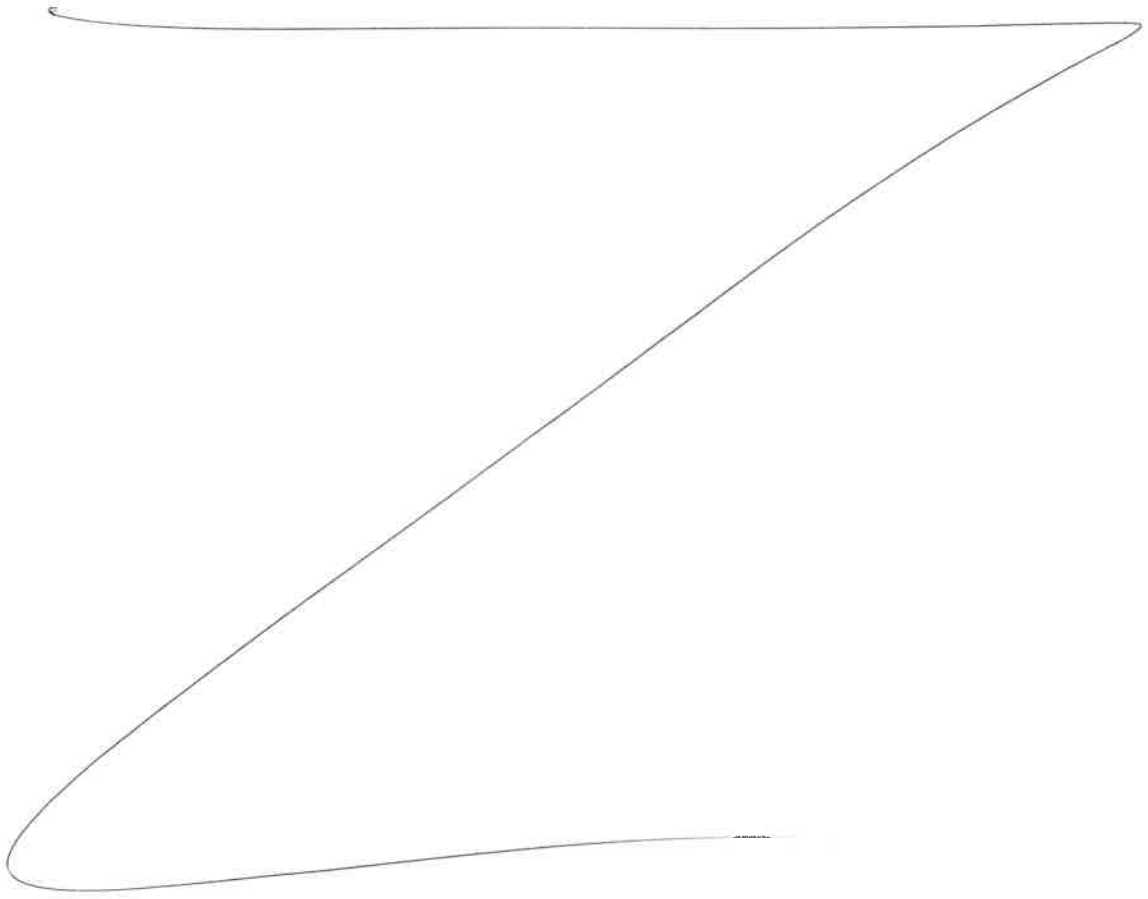
Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165647

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 12/16/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165647BL	PBLK647	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			U2-1
PB165647BS	PLCS647	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10			2
P5268-01	OR-02-12122024	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10			3
P5277-01	COMP-1A	PESTICIDE Group1	30.06	N/A	ritesh	Evelyn	10	D		4
P5277-02	COMP-2A	PESTICIDE Group1	30.01	N/A	ritesh	Evelyn	10	D		5
P5277-02MS	COMP-2AMS	PESTICIDE Group1	30.07	N/A	ritesh	Evelyn	10	D		6
P5277-02MSD	COMP-2AMSD	PESTICIDE Group1	30.02	N/A	ritesh	Evelyn	10	D		U4-1
P5277-03	COMP-3A	PESTICIDE Group1	30.05	N/A	ritesh	Evelyn	10	A		2
P5287-01	STONES-A	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E	Stone	3
P5287-03	STONES-B	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E	Stone	4



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

12/16/24

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165647

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	12/16/2024
Matrix :	Solid			**Extraction Start Time :**	08:51
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	12/16/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:50
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
Surrogate	1.0ML	200 PPB	PP23985
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
Hexane/Acetone/1:1	N/A	EP2561
Baked Na2SO4	N/A	EP2571
Sand	N/A	E2865
Hexane	N/A	E3844
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/16/24	RP (Ref. Lab)	AJ TEST PCA Lab
11:55	**Preparation Group**	**Analysis Group**

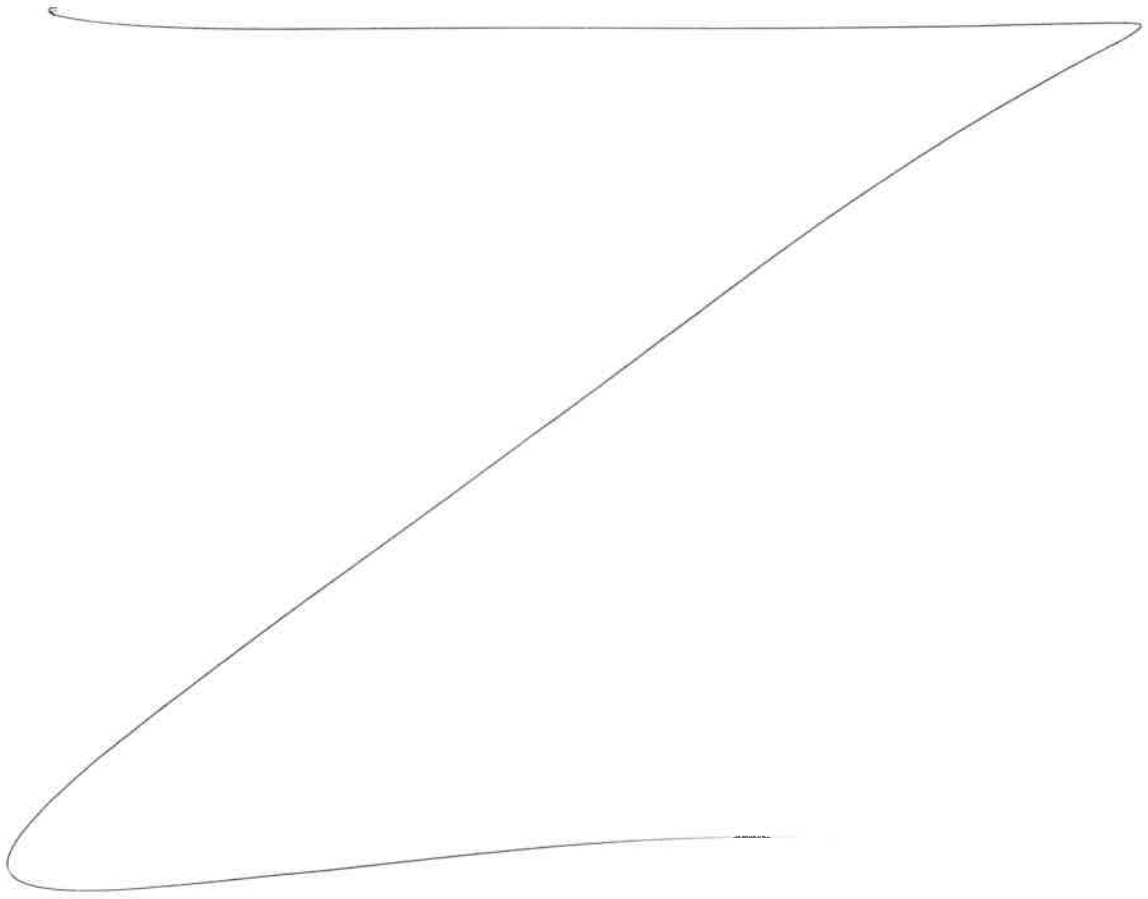
Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165647

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 12/16/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165647BL	PBLK647	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			U2-1
PB165647BS	PLCS647	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10			2
P5268-01	OR-02-12122024	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10			3
P5277-01	COMP-1A	PESTICIDE Group1	30.06	N/A	ritesh	Evelyn	10	D		4
P5277-02	COMP-2A	PESTICIDE Group1	30.01	N/A	ritesh	Evelyn	10	D		5
P5277-02MS	COMP-2AMS	PESTICIDE Group1	30.07	N/A	ritesh	Evelyn	10	D		6
P5277-02MSD	COMP-2AMSD	PESTICIDE Group1	30.02	N/A	ritesh	Evelyn	10	D		U4-1
P5277-03	COMP-3A	PESTICIDE Group1	30.05	N/A	ritesh	Evelyn	10	A		2
P5287-01	STONES-A	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E	Stone	3
P5287-03	STONES-B	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E	Stone	4



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

12/16/24

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

Prep Standard - Chemical Standard Summary

Order ID : P5277

Test : PESTICIDE Group1

Prepbatch ID : PB165647,

Sequence ID/Qc Batch ID: pl121624,

Standard ID :
EP2561,EP2571,PP23517,PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683,PP23686,PP23687,PP23690,PP23693,PP23695,PP23698,PP23733,PP23793,PP23928,PP23985,

Chemical ID :
E2865,E3551,E3770,E3792,E3805,E3806,E3818,E3826,E3827,E3844,P11146,P11896,P13036,P13039,P13244,P13349,P13350,P13352,P13359,P13402,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
230	1:1ACETONE/HEXANE	EP2561	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3826 + 8000.00000ml of E3827 = Final Quantity: 8000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2571	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Yogesh Patel 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3632	50 PPB ICAL PEST STD(RESTEK)	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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

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

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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
84	Pest/PCB Surrogate Stock 20 PPM	PP23733	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel 10/03/2024

FROM 1.00000ml of P13350 + 9.00000ml of E3805 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
518	Pest/PCB I.BLK 20 PPB	PP23793	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel 10/03/2024

FROM 99.90000ml of E3805 + 0.10000ml of PP23733 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
79	500 PPB Pesticide Spike Solution	PP23928	10/30/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/30/2024

FROM 95.00000ml of E3818 + 2.50000ml of PP23675 + 2.50000ml of PP23677 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
465	200 PPB Pest/PCB Surrogate Spike	PP23985	11/15/2024	05/08/2025	Ankita Jodhani	None	None	Yogesh Patel 11/18/2024

FROM 1.00000ml of P13352 + 999.00000ml of E3827 = Final Quantity: 1000.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	05/09/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3770

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 #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	03/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	06/09/2025	12/09/2024 / Rajesh	12/05/2024 / Rajesh	E3844

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	32021 / Chlordane Std.	A0181737	03/21/2025	09/21/2024 / Abdul	06/17/2022 / Abdul	P11896

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

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	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	04/03/2025	10/03/2024 / Ankita	04/22/2024 / Abdul	P13350

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	05/15/2025	11/15/2024 / Ankita	04/22/2024 / Abdul	P13352

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	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

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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 ($(CH_3)_2CO$) (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
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 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

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd by RP on 09/11/24

E 3792

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

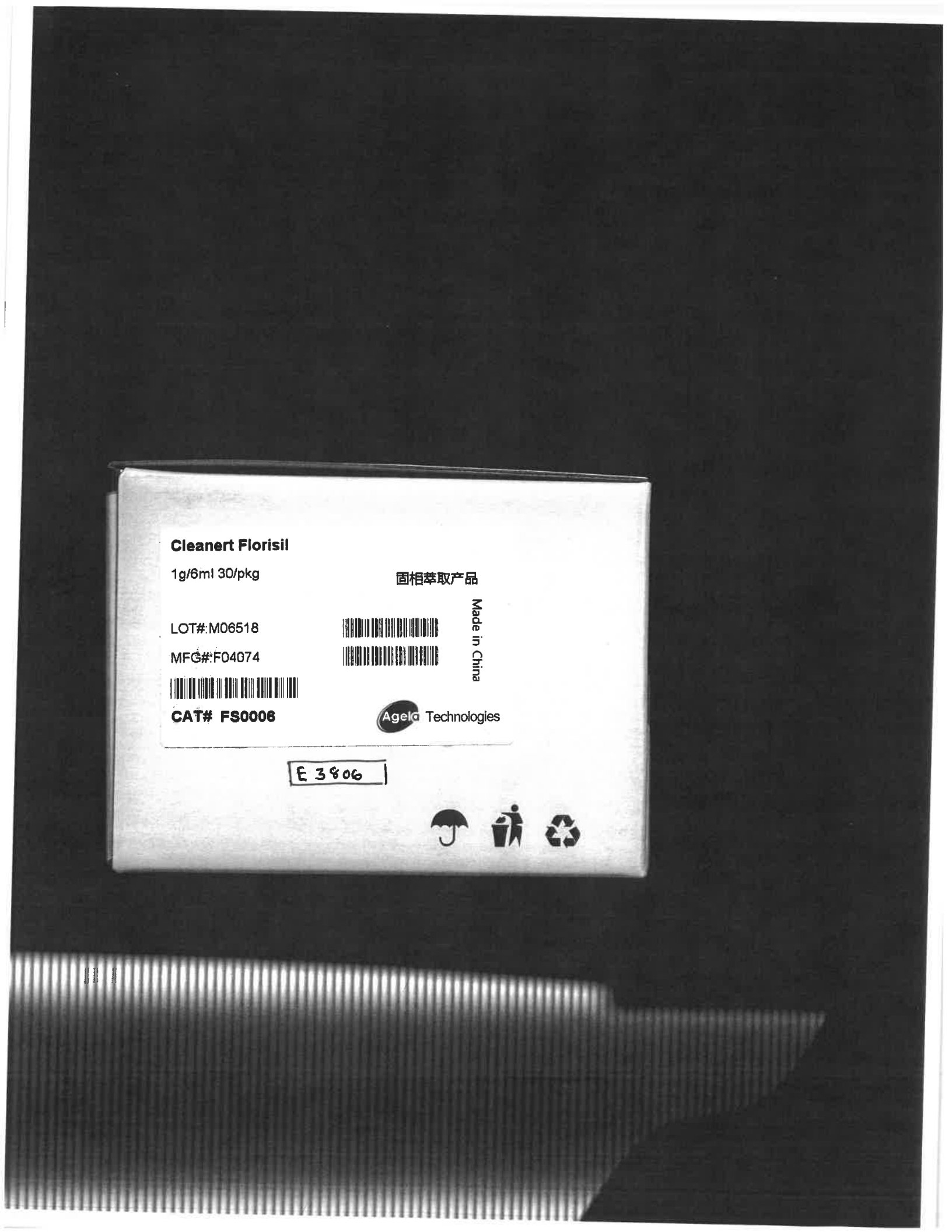
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 9/25/24

E3805

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production


Cleanert Florisil
1g/6ml 30/pkg
固相萃取产品
LOT#:M06518
MFG#:F04074
CAT# FS0006
Made in China
Agela Technologies
E3806

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

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

Certificate of Analysis

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

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

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

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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

Certificate of Analysis

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

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

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

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 121524

E 3844

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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%

P 11892 ↓ P 11896 (5)

06/17/2022

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

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

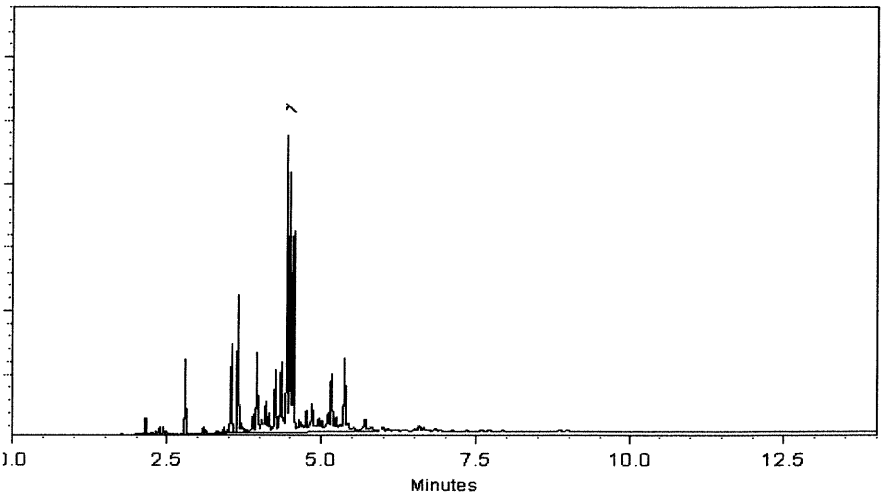
Carrier Gas:
helium-constant pressure 20 psi.

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

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

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CERTIFIED REFERENCE MATERIAL

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P130397 } 5
↓
P130431

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

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 5
↓
P 13043 1
12/26/23

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

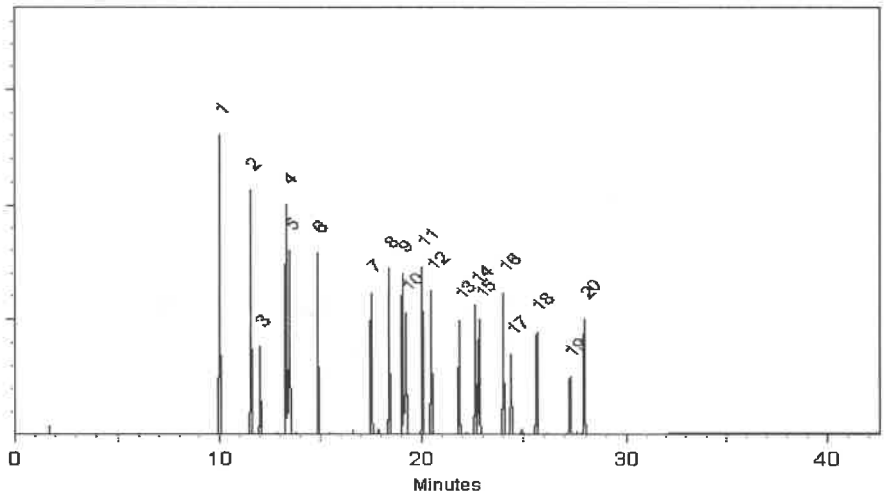
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Josh McCloskey - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part Number: 79136
Lot Number: 102821
Description: Mirex

Expiration Date: 102826
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

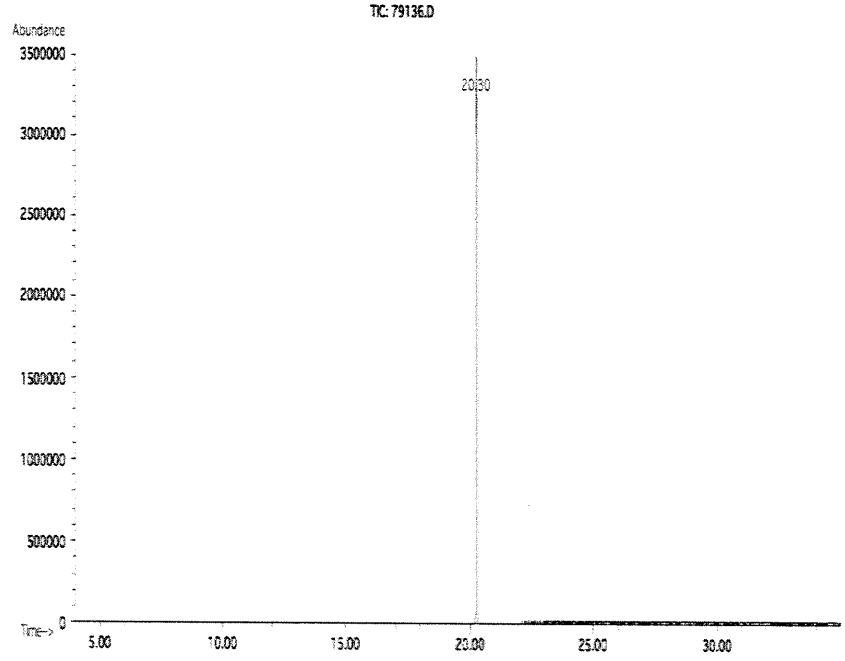
Solvent(s): **Lot#**
Acetone 81025

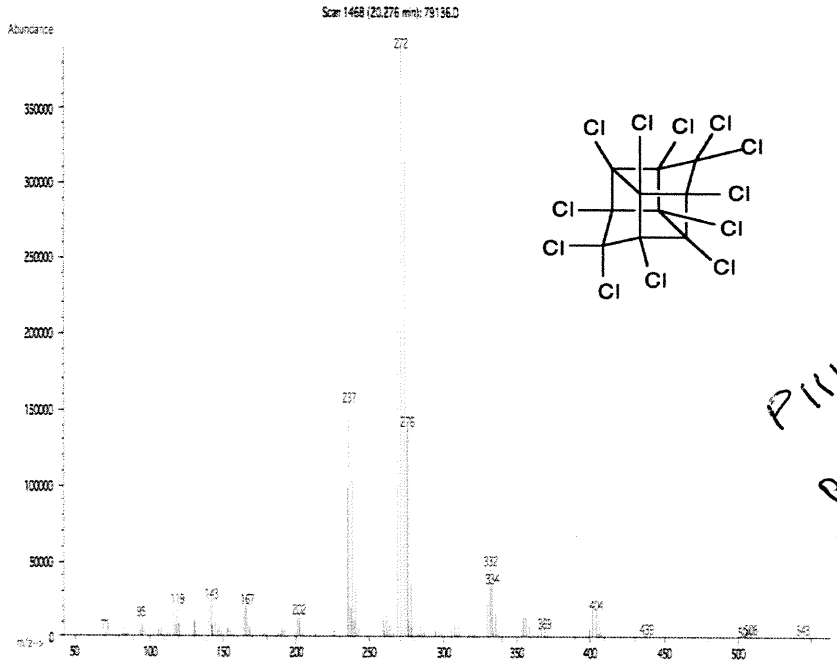
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.006 Flask Uncertainty

Eli Aliaga	102821
Formulated By: Eli Aliaga	DATE
Pedro Rentas	102821
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Mirex	437	9492400	1000	99.4	0.5	0.05034	0.05039	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.





P11142 To P11146
AR 11/02/21

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

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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P 13034 ↓ P 13038 5

12.26.2023

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

Description : Organochlorine Pesticide Mix AB #1

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

P13034) 5
↓
P13038 1

12/26/2023

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

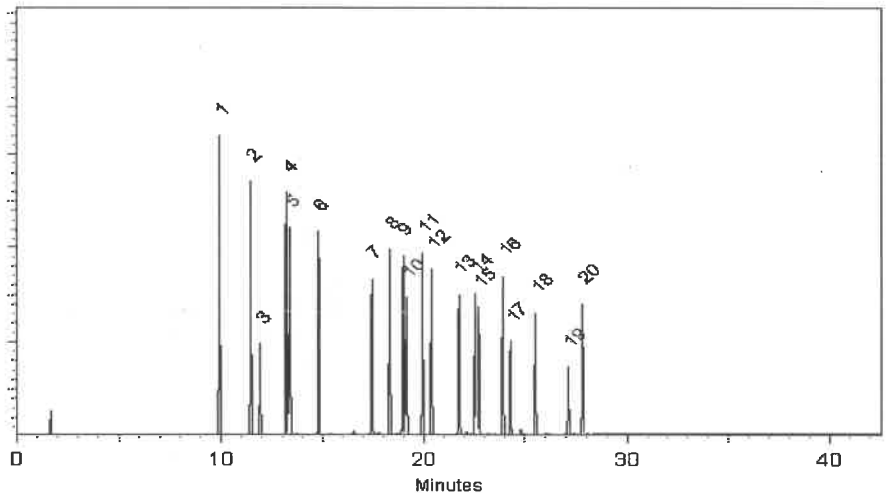
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

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

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

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

5E-05 Balance Uncertainty

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

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

P13243 } (5)
thru
P13247

02/9/2024

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P13348 ↓ P13357 (10)

04/25/2024

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hellum-constant pressure 20 psi.

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

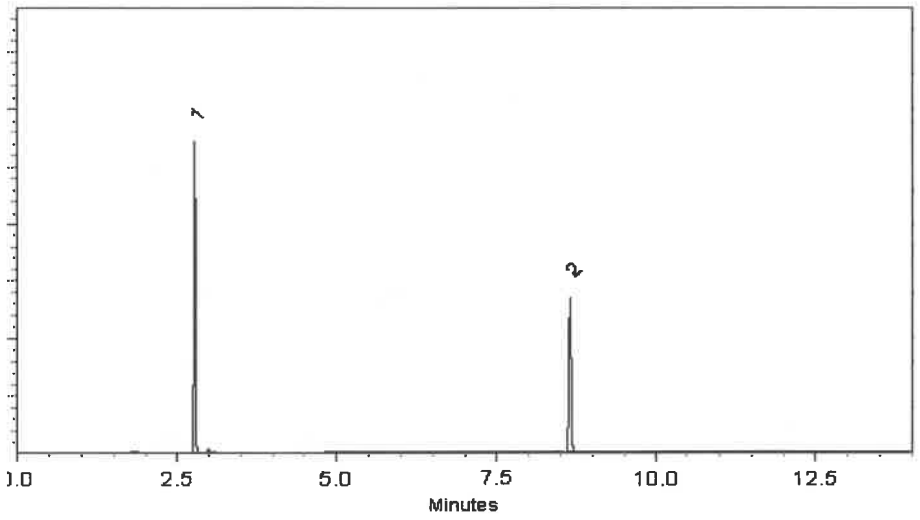
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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P13348 ↓ P13357 (10)

04/25/2024

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hellum-constant pressure 20 psi.

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

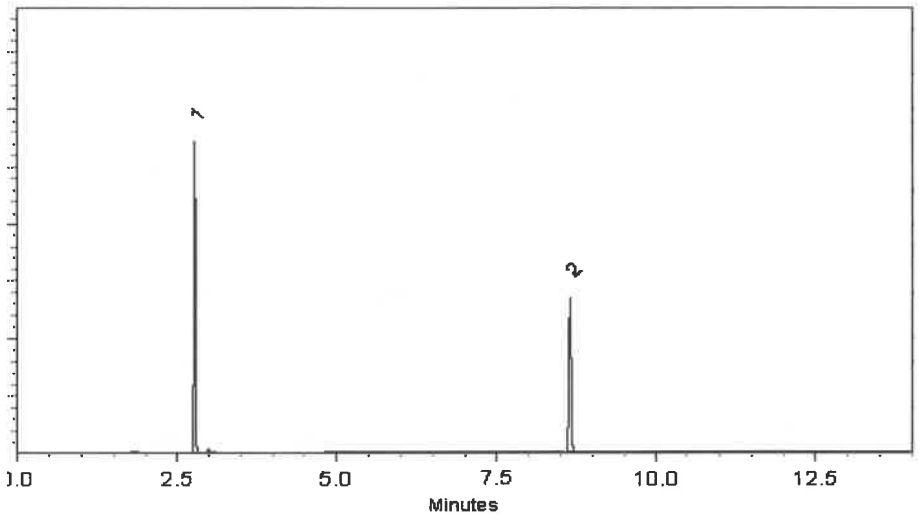
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

RESTEK
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Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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P13348 ↓ P13357 (10)

04/25/2024

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

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.)

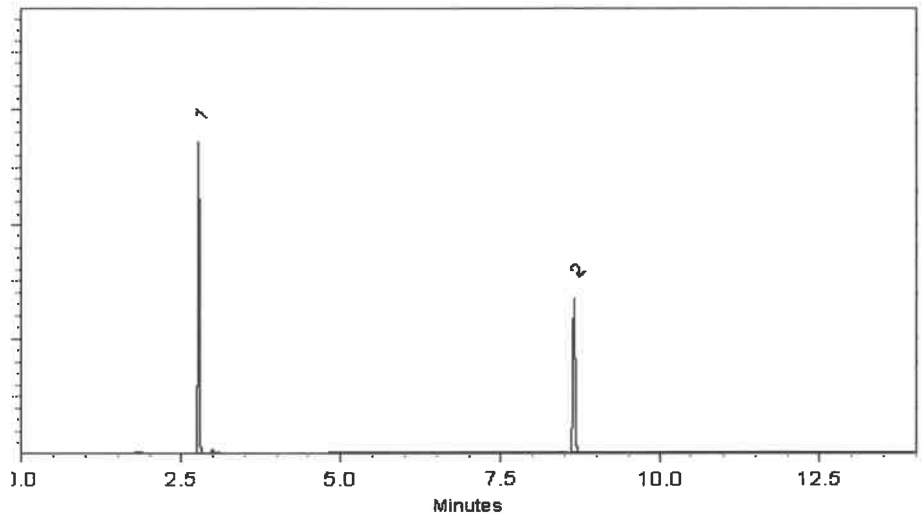
Inj. Temp:
250°C

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

P 13348
↓
P 13357

10

SAUF
04/25/2025

RESTEK
110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32005 **Lot No.:** 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%

P13358 (12)
↓
P13369

05-06-2024

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

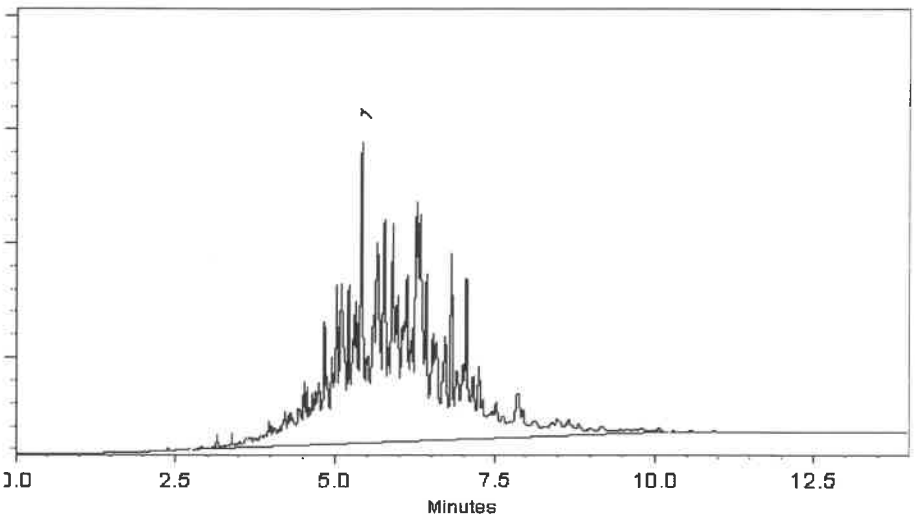
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
0.2µl



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

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13358 (12)

P13369

05-06-2024

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P13402 & P13406 (5)

5/22/2024

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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

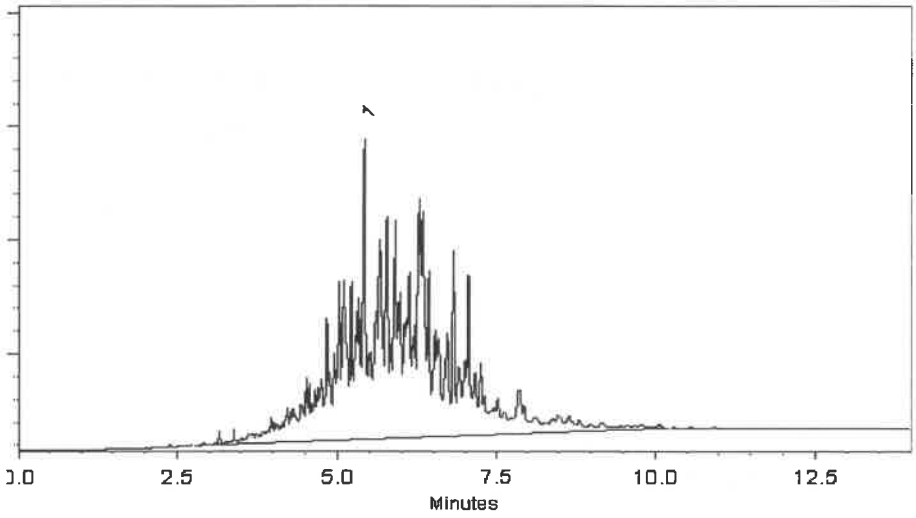
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
0.2µl



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

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13402
↓
P13406
5

5/22/2024

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO.
QUOTE NO. P5277
COC Number 2042290

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 25 Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 20004341.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 HAVEP List: Fill Clean E-F Parameters 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	COMP-1A	Soil	✓		12/12/24	3	10:40	E									
2.	COMP-2A		↓			↓	11:05	✓									
3.	COMP-3A		↓			↓	11:45										
4.	SB-13			✓		1	10:10										
5.	SB-14			↓		↓	10:20										
6.	SB-15						10:25										
7.	SB-16						10:35										
8.	SB-17						10:45										
9.	SB-18	↓		↓	↓	↓	10:50	↓									
10.	SB-19						10:55										

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/12/14 15:00	1.
2. FedEx	12-13-24 820	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C °C
Comments: Put grabs on hold until further notice

Page 1 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. P5277
QUOTE NO.
COC Number 2041891

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 25 Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 484-883-3890 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 24004341.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

PADEP HSF Full TCL + Full E-II Parameters

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E									← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	SB-20	Soil		✓	12/12/24	11:00	1	✓									
2.	SB-21					11:15											
3.	SB-22					11:25											
4.	SB-23					11:30											
5.	SB-24					11:40											
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/12/24 15:00	1.
2. FedEx	12-13-24 11:20	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C
Comments: Put grabs on hold until further notice

Page 2 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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

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

Laboratory Certification

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

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5277 POWE02
Client Name : Kleinfelder
Client Contact : Mark Warchol
Invoice Name : Kleinfelder
Invoice Contact : Mark Warchol

Order Date : 12/13/2024 11:44:00 AM
Project Name : Tanner G. Duckrey Public S
Receive DateTime : 12/13/2024 11:20:00 AM
Purchase Order :

Project Mgr :
Report Type : Results+QC
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5277-01	COMP-1A	Solid	12/12/2024	10:40					
					VOCMS Group1		8260D		3 Bus. Days
P5277-02	COMP-2A	Solid	12/12/2024	11:05					
					VOCMS Group1		8260D		3 Bus. Days
P5277-03	COMP-3A	Solid	12/12/2024	11:45					
					VOCMS Group1		8260D		3 Bus. Days

Relinguished By :
Date / Time : 12/13/24 1212

Received By :
Date / Time : 12/13/24 12:12

Storage Area : VOA Refridgerator Room