

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q1744	OrderDate:	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	B-158-SB01	SOIL	PCB	8082A	04/05/25	04/08/25	04/08/25	04/07/25
			TPH GC	8015D		04/08/25	04/08/25	
Q1744-03	B-158-SB02	SOIL	PCB	8082A	04/05/25	04/08/25	04/08/25	04/07/25
			TPH GC	8015D		04/08/25	04/08/25	



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1744

Order ID: Q1744

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

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

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PP070916.D	PIBLK-PP070916.D	Tetrachloro-m-xylene	1	20	18.8	94		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.4	97		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.4	117		70 (60)	130 (140)
I.BLK-PP071140.D	PIBLK-PP071140.D	Tetrachloro-m-xylene	1	20	22.8	114		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.9	119		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	23.1	116		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	108		70 (60)	130 (140)
Q1742-01MS	TR-06-040725MS	Tetrachloro-m-xylene	1	20	18.7	94		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.0	115		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.9	100		30 (32)	150 (175)
Q1742-01MSD	TR-06-040725MSD	Tetrachloro-m-xylene	1	20	17.4	87		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.3	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.5	103		30 (32)	150 (175)
Q1744-01	B-158-SB01	Tetrachloro-m-xylene	1	20	24.8	124		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.3	116		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	30.3	151	*	30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.9	99		30 (32)	150 (175)
I.BLK-PP071155.D	PIBLK-PP071155.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.4	92		70 (60)	130 (140)
PB167507BL	PB167507BL	Tetrachloro-m-xylene	1	20	26.5	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.9	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.7	138		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.0	120		30 (32)	150 (175)
PB167507BS	PB167507BS	Tetrachloro-m-xylene	1	20	26.3	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.7	129		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.7	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.6	113		30 (32)	150 (175)
Q1744-03	B-158-SB02	Tetrachloro-m-xylene	1	20	22.8	114		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.9	84		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	23.0	115		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	15.4	77		30 (32)	150 (175)
I.BLK-PP071168.D	PIBLK-PP071168.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.8	99		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.1	100		70 (60)	130 (140)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

DataFile : PP071147.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-040725MS											
Q1742-01MS	AR1016	189.9	0	176	ug/kg	93				40 (55)	140 (146)	
	AR1260	189.9	0	188	ug/kg	99				40 (31)	140 (146)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

DataFile : PP071148.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-040725MSD											
Q1742-01MSD	AR1016	189.7	0	173	ug/kg	91		2		40 (55)	140 (146)	30 (20)
	AR1260	189.7	0	177	ug/kg	93		6		40 (31)	140 (146)	30 (20)



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A Datafile : PP071157.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167507BS	AR1016	166.6	181	ug/kg	109				40 (71)	140 (120)	
	AR1260	166.6	188	ug/kg	113				40 (65)	140 (130)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167507BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1744

SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: PB167507BL

Lab File ID: PP071156.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 04/08/2025

Date Analyzed (1): 04/08/2025

Date Analyzed (2): 04/08/2025

Time Analyzed (1): 17:07

Time Analyzed (2): 17:07

Instrument ID (1): ECD_P

Instrument ID (2): ECD_P

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
TR-06-040725MS	Q1742-01MS	PP071147.D	04/08/2025	04/08/2025
TR-06-040725MSD	Q1742-01MSD	PP071148.D	04/08/2025	04/08/2025
B-158-SB01	Q1744-01	PP071150.D	04/08/2025	04/08/2025
PB167507BS	PB167507BS	PP071157.D	04/08/2025	04/08/2025
B-158-SB02	Q1744-03	PP071158.D	04/08/2025	04/08/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071150.D	1	04/08/25 08:11	04/08/25 14:30	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	18.9	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	18.9	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.9	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	18.9	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	18.9	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	18.9	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	18.9	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.9	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	30.3	*	30 (32) - 150 (144)	151%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		30 (32) - 150 (175)	116%	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_P\Data\PP040825\
 Data File : PP071150.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 14:30
 Operator : YP\AJ
 Sample : Q1744-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-158-SB01

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 15:39:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.815	36248933	31402835	24.801	30.293
2) SA Decachlor...	10.244	8.859	24486285	15643655	23.262	19.847

Target Compounds

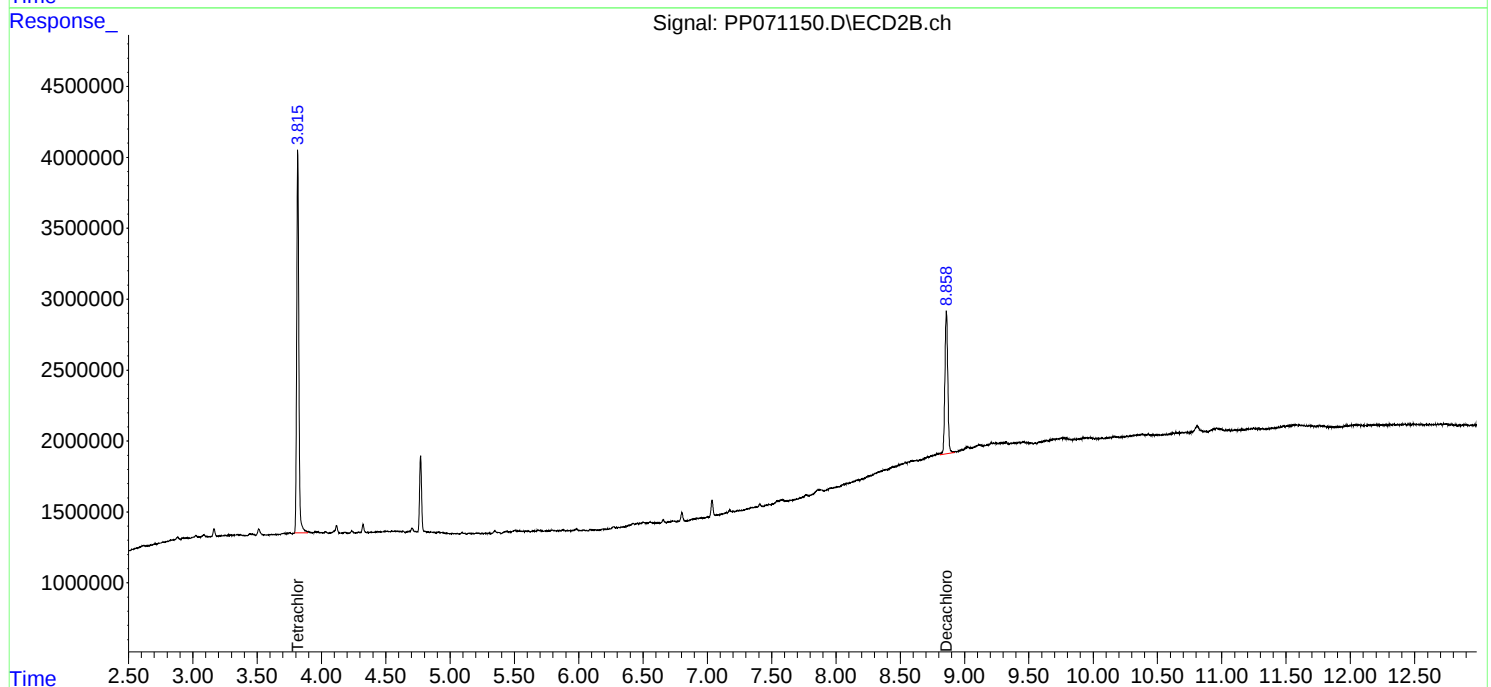
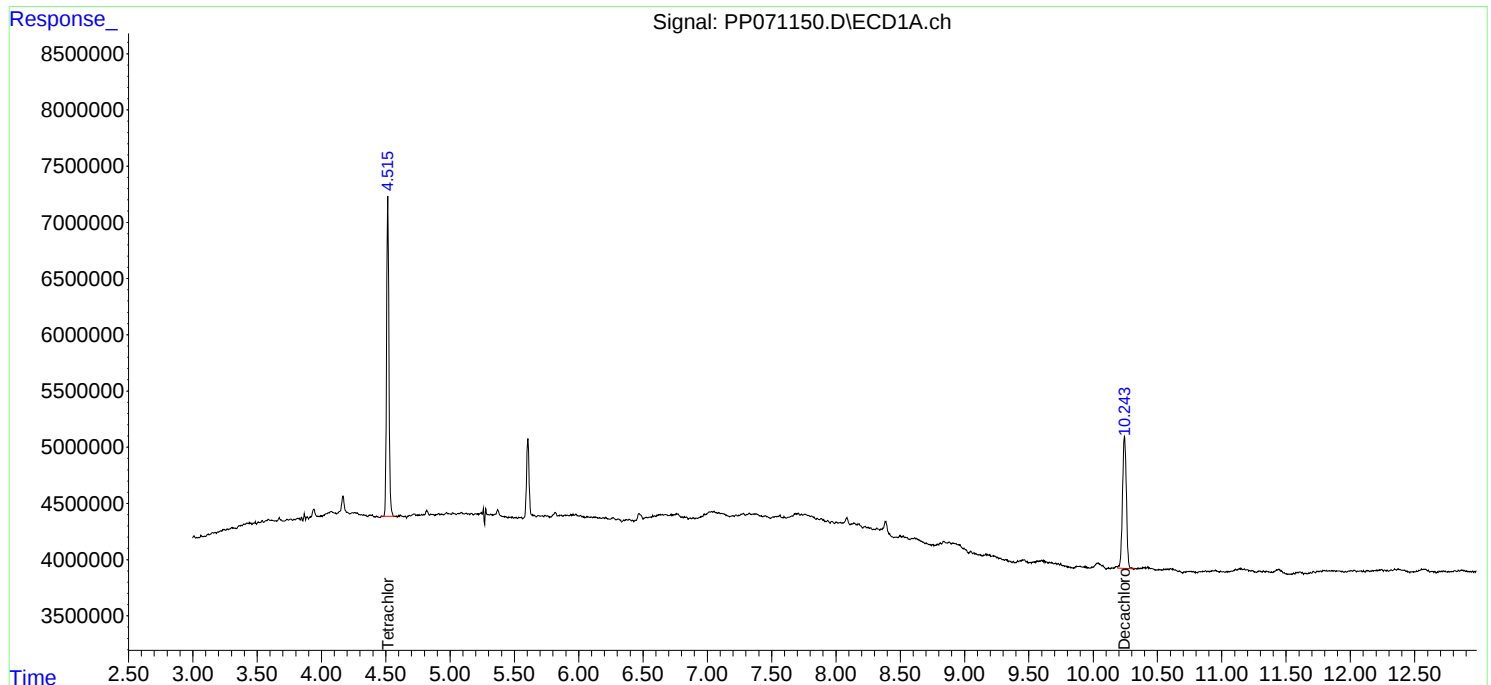
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

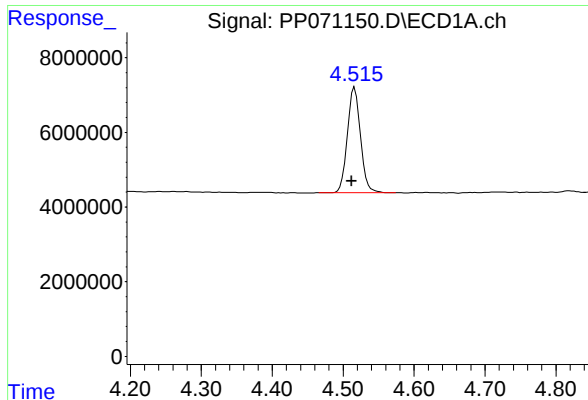
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071150.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:30
Operator : YP\AJ
Sample : Q1744-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-158-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 15:39:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

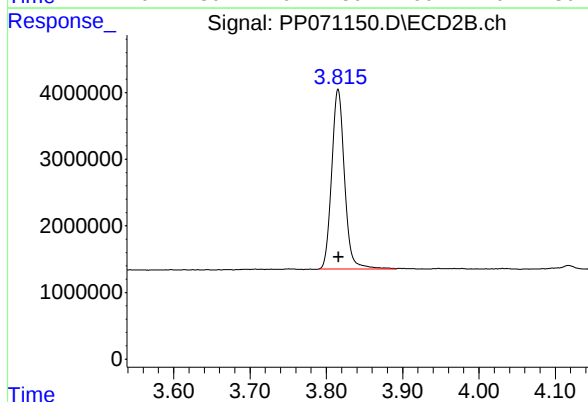




#1 Tetrachloro-m-xylene

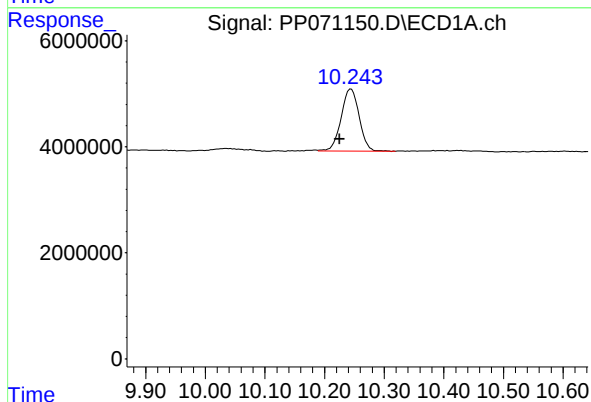
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 36248933
Conc: 24.80 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-158-SB01



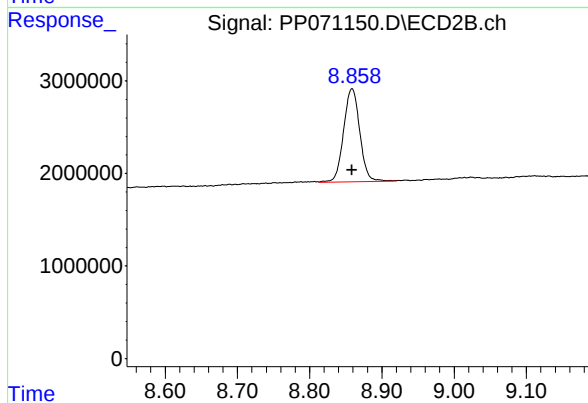
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 31402835
Conc: 30.29 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.244 min
Delta R.T.: 0.019 min
Response: 24486285
Conc: 23.26 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.859 min
Delta R.T.: 0.000 min
Response: 15643655
Conc: 19.85 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	56
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071158.D	1	04/08/25 08:11	04/08/25 17:40	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7.00	U	7.00	30.3	ug/kg
11104-28-2	Aroclor-1221	7.20	U	7.20	30.3	ug/kg
11141-16-5	Aroclor-1232	6.60	U	6.60	30.3	ug/kg
53469-21-9	Aroclor-1242	7.10	U	7.10	30.3	ug/kg
12672-29-6	Aroclor-1248	10.5	U	10.5	30.3	ug/kg
11097-69-1	Aroclor-1254	5.70	U	5.70	30.3	ug/kg
37324-23-5	Aroclor-1262	8.90	U	8.90	30.3	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	30.3	ug/kg
11096-82-5	Aroclor-1260	5.80	U	5.80	30.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.0		30 (32) - 150 (144)	115%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		30 (32) - 150 (175)	84%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:40
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-158-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.815	33298055	23846716	22.782	23.004
2) SA Decachlor...	10.241	8.857	17779952	12163887	16.891	15.433

Target Compounds

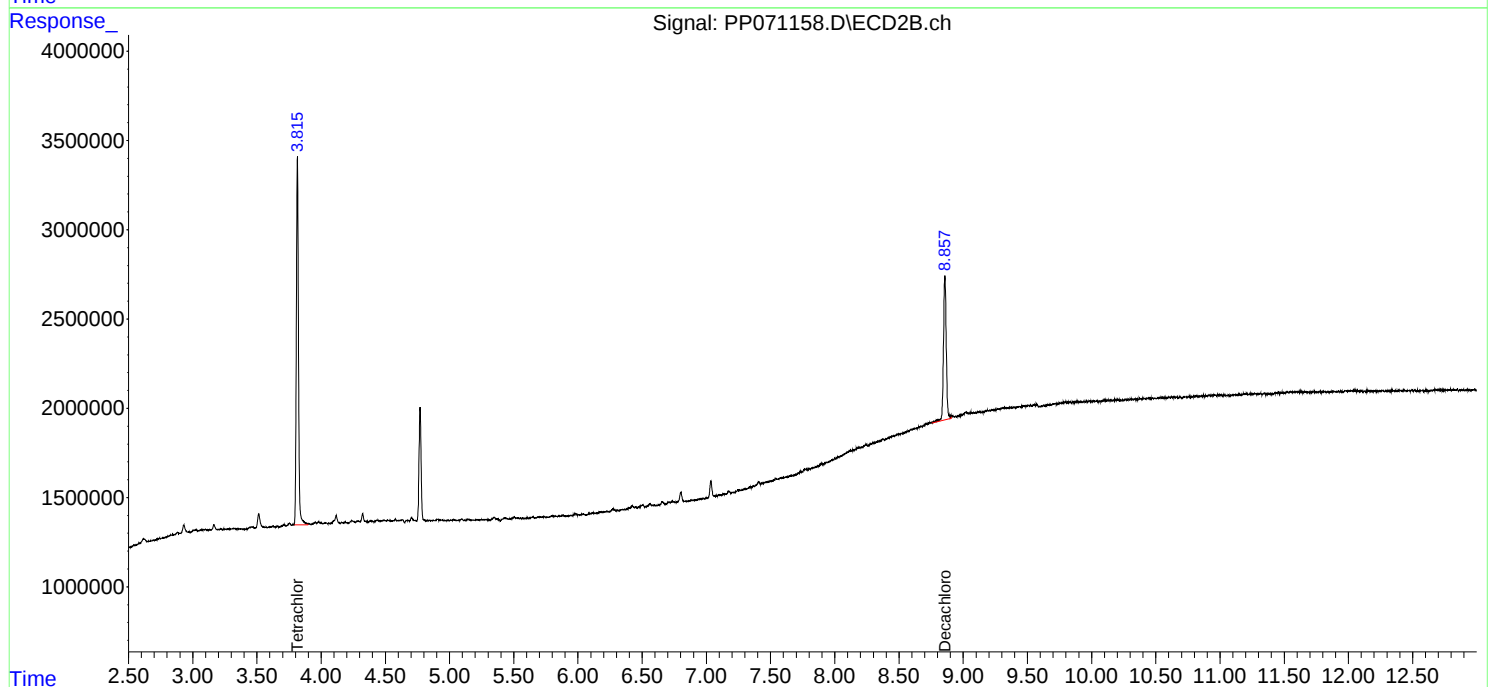
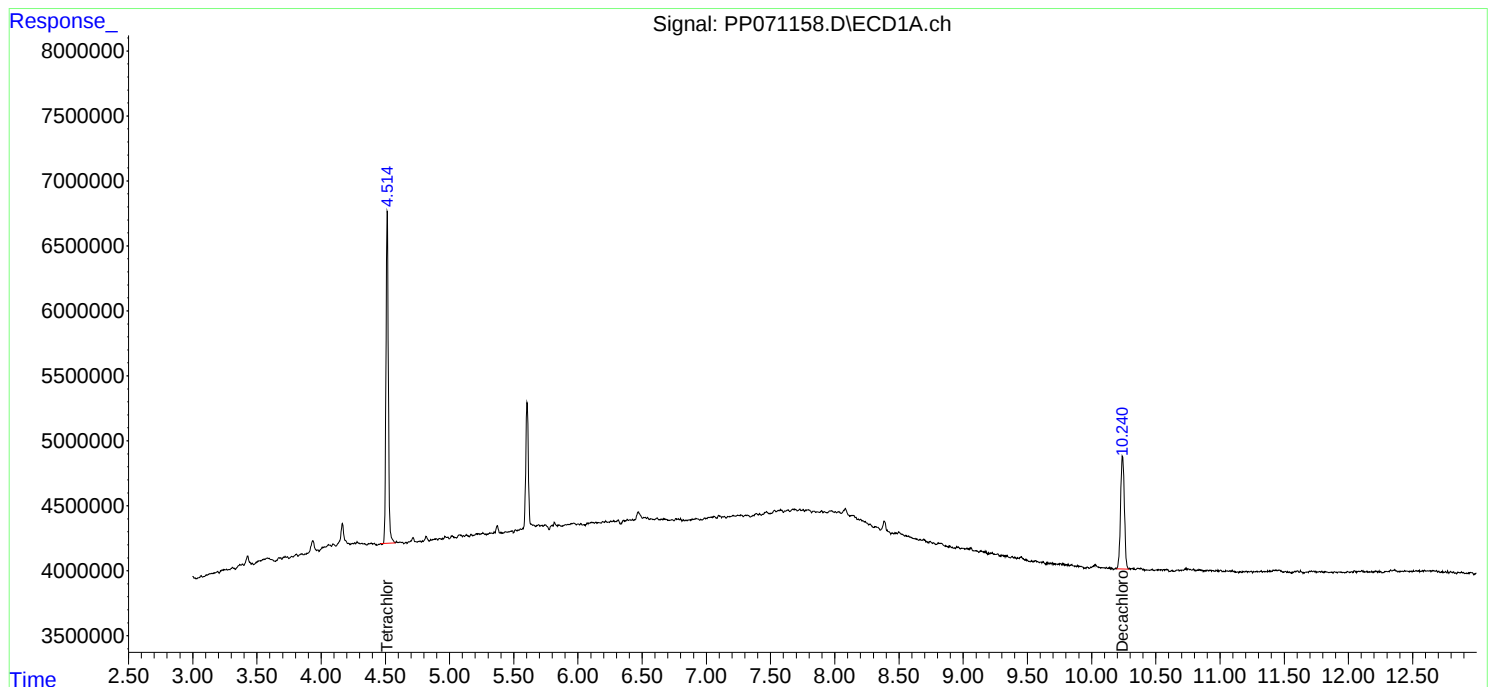
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

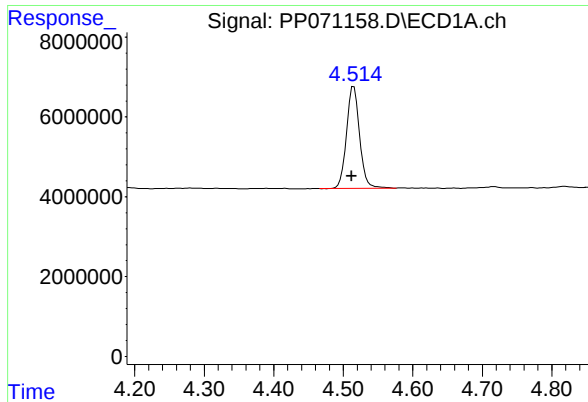
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:40
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-158-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

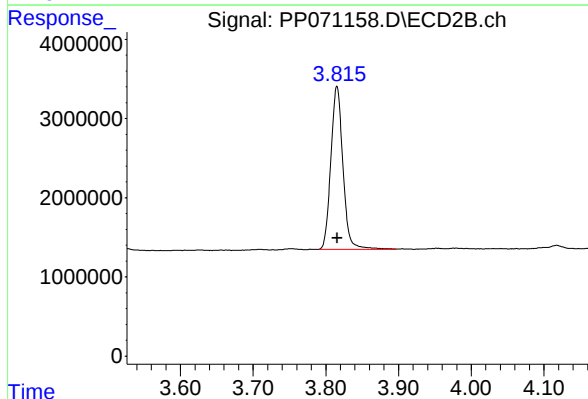




#1 Tetrachloro-m-xylene

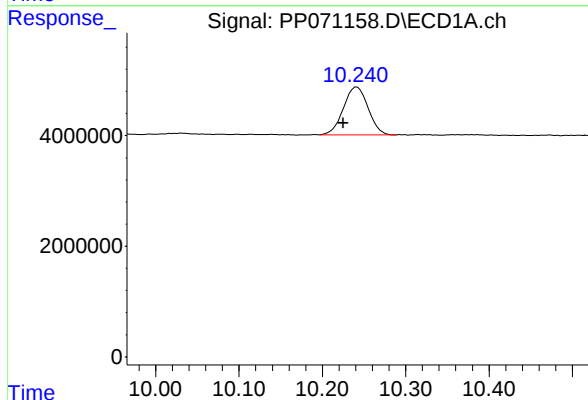
R.T.: 4.515 min
Delta R.T.: 0.003 min
Response: 33298055
Conc: 22.78 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-158-SB02



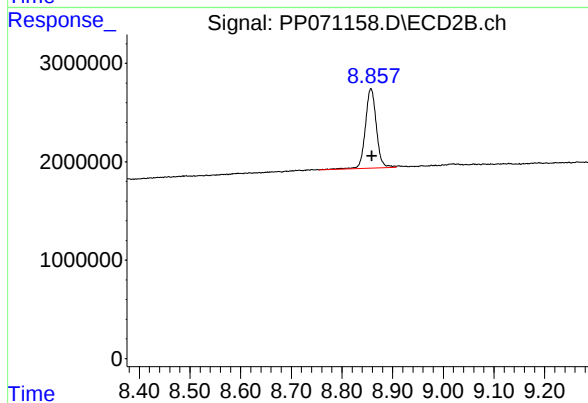
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 23846716
Conc: 23.00 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.241 min
Delta R.T.: 0.016 min
Response: 17779952
Conc: 16.89 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.857 min
Delta R.T.: -0.002 min
Response: 12163887
Conc: 15.43 ng/ml



CALIBRATION SUMMARY

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

[illegible]



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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene	4.52	4.51	4.51	4.52	4.51	4.51	4.41	4.61

RETENTION TIMES OF INITIAL CALIBRATION

Contract:	<u>PORT06</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1744</u>	SAS No.:	<u>Q1744</u>	SDG NO.:	<u>Q1744</u>
Instrument ID:	<u>ECD_P</u>	Calibration Date(s):		<u>03/27/2025</u>	<u>03/27/2025</u>		
		Calibration Times:		<u>10:30</u>	<u>17:53</u>		

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

LAB FILE ID: RT 1000 = PP070917.D RT 750 = PP070918.D
RT 500 = PP070919.D RT 250 = PP070920.D RT 050 = PP070921.D

[illegible]

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06
Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744
Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025
Calibration Times: 10:30 17:53

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

LAB FILE ID:		CF 1000 = <u>PP070917.D</u>		CF 750 = <u>PP070918.D</u>			
CF 500 = <u>PP070919.D</u>		CF 250 = <u>PP070920.D</u>		CF 050 = <u>PP070921.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	47478014	49171687	50934060	54324668	52347880	50851262
Aroclor-1016-2	(2)	72483549	74568483	78811172	80433884	83971080	78053634
Aroclor-1016-3	(3)	43541298	44043953	46815864	48849960	52621940	47174603
Aroclor-1016-4	(4)	36661280	36602855	39014928	39212148	32287440	36755730
Aroclor-1016-5	(5)	32204227	33487635	35040682	36610940	32217200	33912137
Aroclor-1260-1	(1)	60625379	62238407	66823960	72729028	73347280	67152811
Aroclor-1260-2	(2)	90805769	95497569	97808710	102858984	93710780	96136362
Aroclor-1260-3	(3)	75946924	78957439	82970652	86114216	75601760	79918198
Aroclor-1260-4	(4)	67190656	75020355	81451428	78145636	91876440	78736903
Aroclor-1260-5	(5)	154592706	156108101	159960800	166857288	156911780	158886135
Decachlorobiphenyl		1019047430	1065730867	1116449000	1115108760	946747800	1052616771
Tetrachloro-m-xylene		1424837400	1461405720	1519248320	1595716440	1306667000	1461574976
Aroclor-1242-1	(1)	40990074	42746281	43432670	43984636	48732080	43977148
Aroclor-1242-2	(2)	64704598	63862937	67024876	68850388	57138840	64316328
Aroclor-1242-3	(3)	39349869	38048504	39702972	40627540	47468380	41039453
Aroclor-1242-4	(4)	30814559	31466187	32277086	32194644	25864220	30523339
Aroclor-1242-5	(5)	36006298	34981232	37334376	38560396	35669740	36510408
Decachlorobiphenyl		1036298130	1063489027	1106293120	1153452680	1056566000	1083219791
Tetrachloro-m-xylene		1443947330	1507747640	1537397120	1567165920	1326698400	1476591282
Aroclor-1248-1	(1)	31141042	33379292	33781538	45988760	37146900	36287506
Aroclor-1248-2	(2)	42399779	44979081	46192256	47122176	43999640	44938586
Aroclor-1248-3	(3)	48055172	50777464	51825052	50697180	51832600	50637494
Aroclor-1248-4	(4)	59878410	63471275	67039892	73429036	56919340	64147591
Aroclor-1248-5	(5)	56652876	60504408	64286140	68519384	54268440	60846250
Decachlorobiphenyl		1072017300	1124462173	1205136680	1167091680	1109917800	1135725127
Tetrachloro-m-xylene		1462181050	1544091280	1549039360	1559485200	1464932600	1515945898
Aroclor-1254-1	(1)	60157506	63067431	65471886	66806416	66447920	64390232
Aroclor-1254-2	(2)	92838442	97047215	101802392	105556104	108208740	101090579
Aroclor-1254-3	(3)	92334650	98055471	99416554	103841140	104991280	99727819
Aroclor-1254-4	(4)	84238161	87780547	86802510	88788836	85373700	86596751
Aroclor-1254-5	(5)	74433164	79038301	80854650	83958584	83470140	80350968
Decachlorobiphenyl		1095432410	1144692320	1168417220	1194330360	1035516600	1127677782
Tetrachloro-m-xylene		1501288360	1551275560	1575746420	1626904120	1301718600	1511386612
Aroclor-1268-1	(1)	226575551	237927453	239660032	247892192	225482800	235507606



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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	190380276	198934901	200232346	204948924	182079900	195315269	4
Aroclor-1268-3	(3)	163648333	171737784	173955356	177246576	167979860	170913582	3
Aroclor-1268-4	(4)	70377008	73665913	73237284	74802952	61652780	70747187	7
Aroclor-1268-5	(5)	459553484	481598519	482514296	498456744	458756600	476175929	3
Decachlorobiphenyl		1956984350	2055290840	2095781900	2171413960	2007035400	2057301290	4
Tetrachloro-m-xylene		1523485290	1594639080	1607574540	1645012520	1440121400	1562166566	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06
Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744
Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025
Calibration Times: 10:30 17:53

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

LAB FILE ID:		CF 1000 = <u>PP070917.D</u>		CF 750 = <u>PP070918.D</u>			
CF 500 = <u>PP070919.D</u>		CF 250 = <u>PP070920.D</u>		CF 050 = <u>PP070921.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	34208953	37661787	37955886	45294856	45319420	40088180
Aroclor-1016-2	(2)	49610574	53393839	54380778	65503040	66437080	57865062
Aroclor-1016-3	(3)	27000462	29732755	29849058	35508136	32526120	30923306
Aroclor-1016-4	(4)	21229955	23465415	23793788	28635320	24655080	24355912
Aroclor-1016-5	(5)	26939544	29893109	30154374	37292184	37326660	32321174
Aroclor-1260-1	(1)	45249076	46519276	48240522	56226688	59796020	51206316
Aroclor-1260-2	(2)	58475471	61260192	62904038	69183788	67145740	63793846
Aroclor-1260-3	(3)	50913622	52312629	53920638	58739540	56547700	54486826
Aroclor-1260-4	(4)	42366044	44395528	47488628	49955128	54926140	47826294
Aroclor-1260-5	(5)	113066934	116639771	125312810	127263128	140268800	124510289
Decachlorobiphenyl		793547960	846236520	865016160	753569280	682611000	788196184
Tetrachloro-m-xylene		926488500	1023245573	1036748080	1124812280	1071924800	1036643847
Aroclor-1242-1	(1)	30391529	31772724	34649408	38698720	35466820	34195840
Aroclor-1242-2	(2)	43879042	45075739	49434800	55503780	52395240	49257720
Aroclor-1242-3	(3)	24103124	24630729	26618958	29833472	28035100	26644277
Aroclor-1242-4	(4)	23086538	23159225	25581538	28618736	31445140	26378235
Aroclor-1242-5	(5)	28647762	29235153	31558738	32962404	32387440	30958299
Decachlorobiphenyl		794686010	779465320	775544600	851493360	677466800	775731218
Tetrachloro-m-xylene		994474400	1020857307	1119824860	1120535680	1106593200	1072457089
Aroclor-1248-1	(1)	23297586	26737011	28501250	29207540	27656520	27079981
Aroclor-1248-2	(2)	31071420	35918237	38274460	38702620	39645560	36722459
Aroclor-1248-3	(3)	32592570	37701093	39964120	40477712	42561380	38659375
Aroclor-1248-4	(4)	38114246	43411732	47181776	48244244	48753000	45141000
Aroclor-1248-5	(5)	37031094	41115012	43925318	46634268	44688040	42678746
Decachlorobiphenyl		763432400	822192813	827097300	806313080	732328400	790272799
Tetrachloro-m-xylene		969522160	1045815880	1138159760	1084071480	1169729800	1081459816
Aroclor-1254-1	(1)	58928147	61799583	66082486	73787844	69490960	66017804
Aroclor-1254-2	(2)	50145967	53786207	56793554	64034708	60730300	57098147
Aroclor-1254-3	(3)	77448562	83642240	87764778	99090376	86260880	86841367
Aroclor-1254-4	(4)	49998215	54614948	55966900	64174348	55747980	56100478
Aroclor-1254-5	(5)	65979008	71358709	71825896	82425644	69163880	72150627
Decachlorobiphenyl		783483810	796181933	910832540	850283840	759277600	820011945
Tetrachloro-m-xylene		1042595600	1091536387	1108578240	1195164040	1067355200	1101045893
Aroclor-1268-1	(1)	165356134	175541800	174753666	176934688	164423820	171402022



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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	137801505	147739099	145758868	146778256	138336660	143282878	3
Aroclor-1268-3	(3)	120132746	127507232	124391202	127247744	116467620	123149309	4
Aroclor-1268-4	(4)	51096977	54505272	53344994	55689972	49428660	52813175	5
Aroclor-1268-5	(5)	357060145	376226307	370949858	366544744	338563340	361868879	4
Decachlorobiphenyl		1484820890	1579158933	1563503220	1620729960	1432317200	1536106041	5
Tetrachloro-m-xylene		1051289840	1118865693	1118283520	1183542080	1260888000	1146573827	7



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Instrument ID: ECD_P Date(s) Analyzed: 03/27/2025 03/27/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.72	4.62	4.82	17353700
		2	4.80	4.70	4.90	12952900
		3	4.88	4.78	4.98	41717200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.88	4.78	4.98	33288800
		2	5.41	5.31	5.51	15910300
		3	5.69	5.59	5.79	34270400
		4	5.85	5.75	5.95	15707600
		5	5.94	5.84	6.04	10640400
Aroclor-1262	500	1	8.09	7.99	8.19	106300000
		2	8.41	8.31	8.51	198383000
		3	8.73	8.63	8.83	131742000
		4	8.82	8.72	8.92	95614800
		5	9.47	9.37	9.57	65066400



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Instrument ID: ECD_P Date(s) Analyzed: 03/27/2025 03/27/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.03	3.93	4.13	15243600
		2	4.11	4.01	4.21	11436300
		3	4.19	4.09	4.29	34089000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.19	4.09	4.29	27986800
		2	4.92	4.82	5.02	28061200
		3	5.10	5.00	5.20	14889600
		4	5.19	5.09	5.29	12804400
		5	5.36	5.26	5.46	14174800
Aroclor-1262	500	1	6.95	6.85	7.05	85563600
		2	7.21	7.11	7.31	68464400
		3	7.73	7.63	7.83	60723600
		4	7.79	7.69	7.89	99406800
		5	8.29	8.19	8.39	46871600

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070917.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 10:30
 Operator : YP\AJ
 Sample : AR1660ICC1000
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 11:43:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 11:40:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.815	142.5E6	92648850	93.786	89.365
2) SA Decachlor...	10.227	8.858	101.9E6	79354796	91.276	91.738
Target Compounds						
3) L1 AR-1016-1	5.665	4.903	47478014	34208953	932.147	901.282
4) L1 AR-1016-2	5.687	4.921	72483549	49610574	919.712	912.281
5) L1 AR-1016-3	5.749	5.098	43541298	27000462	930.054	904.567
6) L1 AR-1016-4	5.846	5.140	36661280	21229955	939.673	892.248
7) L1 AR-1016-5	6.140	5.355	32204227	26939544	919.053	893.388
31) L7 AR-1260-1	7.258	6.391	60625379	45249076	907.240	937.989
32) L7 AR-1260-2	7.512	6.579	90805769	58475471	928.402	929.598
33) L7 AR-1260-3	7.870	6.732	75946924	50913622	915.347	944.233
34) L7 AR-1260-4	8.095	7.204	67190656	42366044	824.917	892.130
35) L7 AR-1260-5	8.413	7.445	154.6E6	113.1E6	966.441	902.278

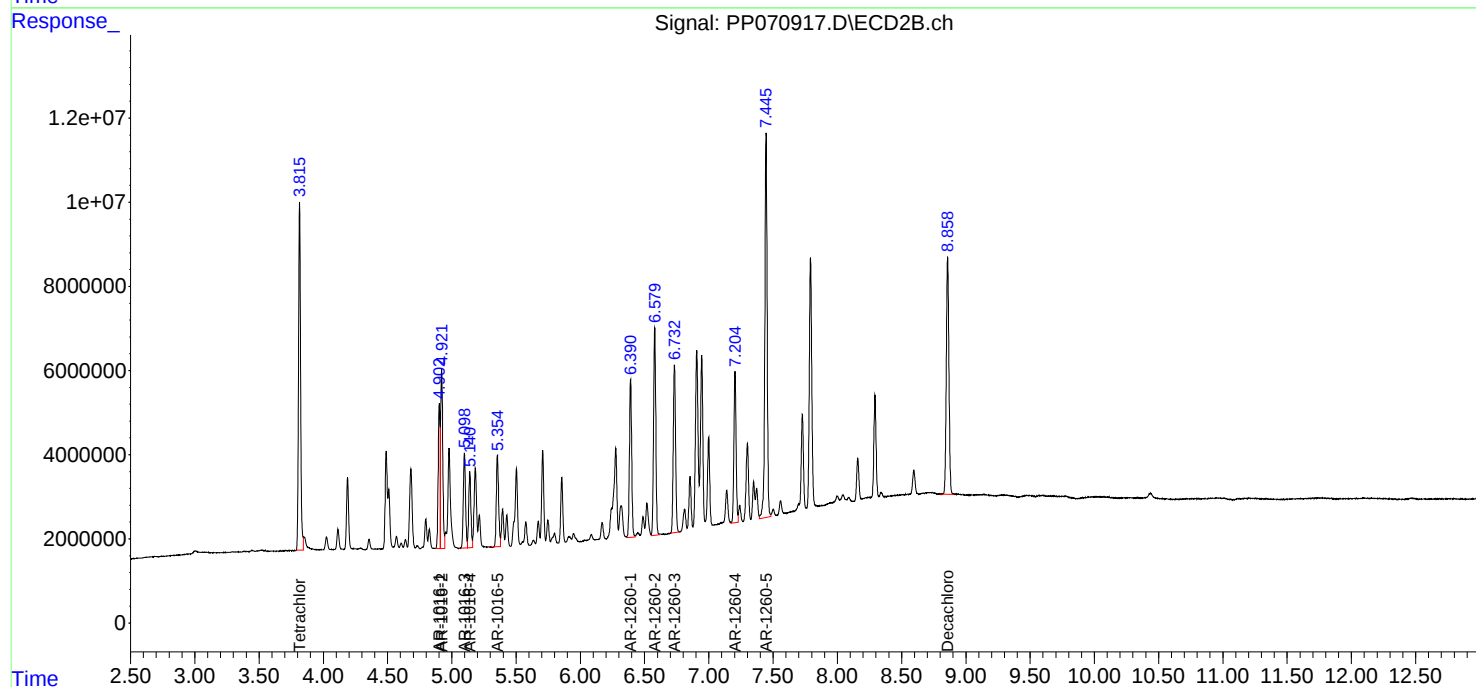
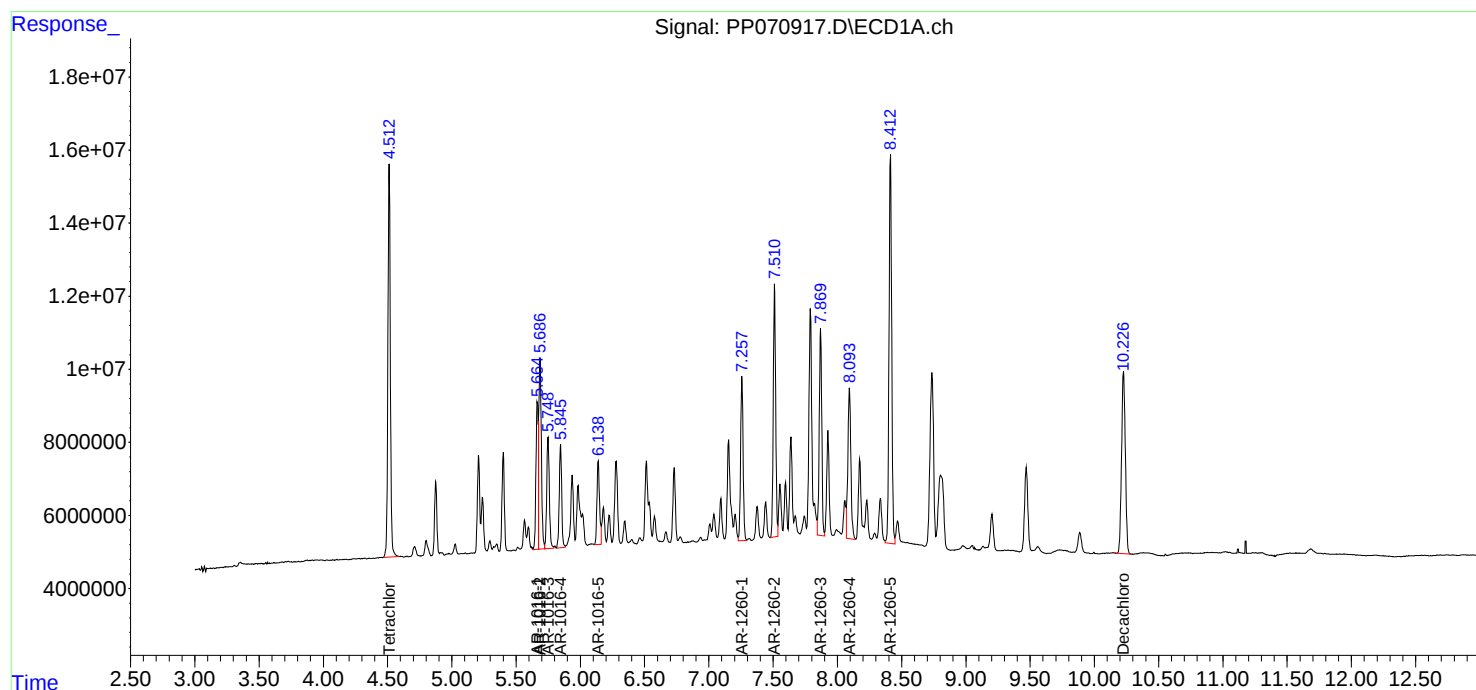
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070917.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 10:30
Operator : YP\AJ
Sample : AR1660ICC1000
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 11:43:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 11:40:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070918.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 10:47
 Operator : YP\AJ
 Sample : AR1660ICC750
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 11:43:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 11:40:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.816	109.6E6	76743418	72.145	74.023
2) SA Decachlor...	10.232	8.858	79929815	63467739	71.593	73.372
Target Compounds						
3) L1 AR-1016-1	5.668	4.903	36878765	28246340	724.049	744.189
4) L1 AR-1016-2	5.690	4.922	55926362	40045379	709.625	736.388
5) L1 AR-1016-3	5.752	5.098	33032965	22299566	705.593	747.078
6) L1 AR-1016-4	5.850	5.140	27452141	17599061	703.632	739.649
7) L1 AR-1016-5	6.142	5.355	25115726	22419832	716.759	743.502
31) L7 AR-1260-1	7.261	6.391	46678805	34889457	698.534	723.240
32) L7 AR-1260-2	7.514	6.578	71623177	45945144	732.278	730.401
33) L7 AR-1260-3	7.873	6.732	59218079	39234472	713.723	727.634
34) L7 AR-1260-4	8.097	7.203	56265266	33296646	690.783	701.150
35) L7 AR-1260-5	8.417	7.444	117.1E6	87479828	731.936	698.092

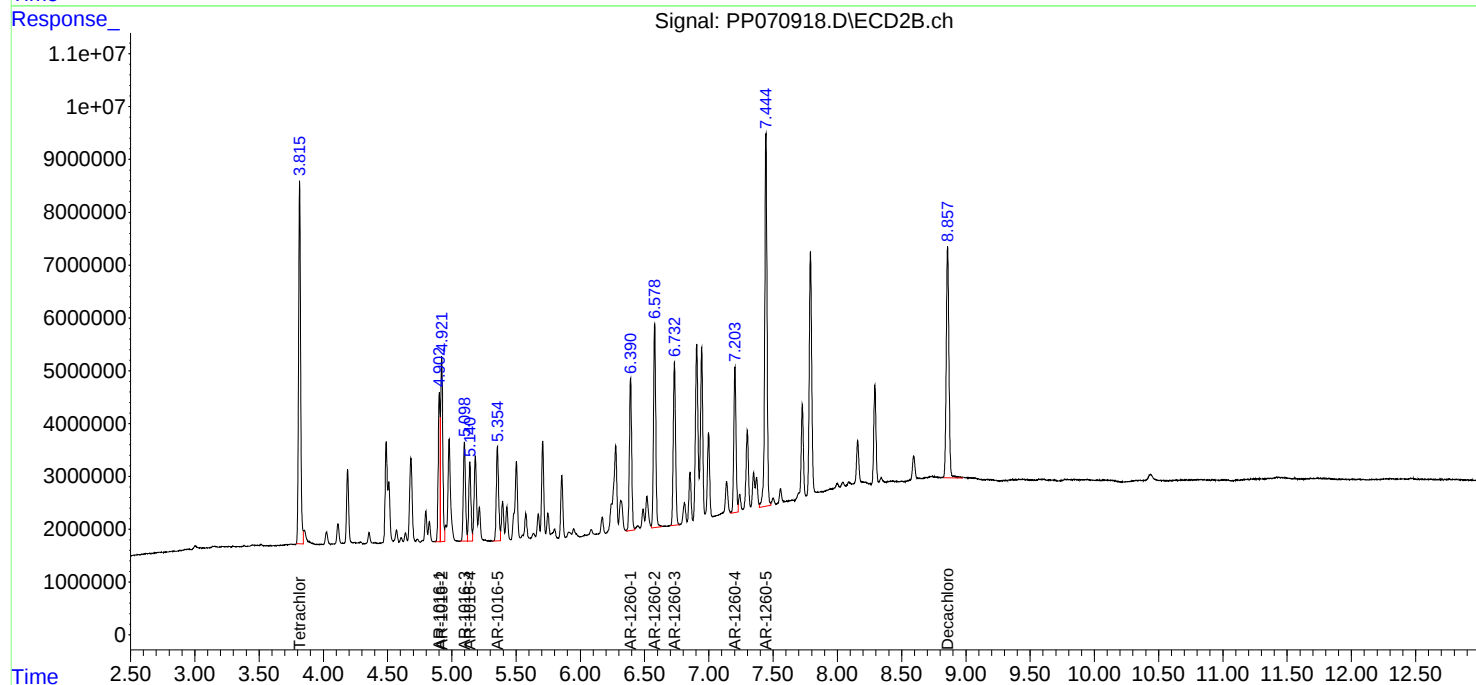
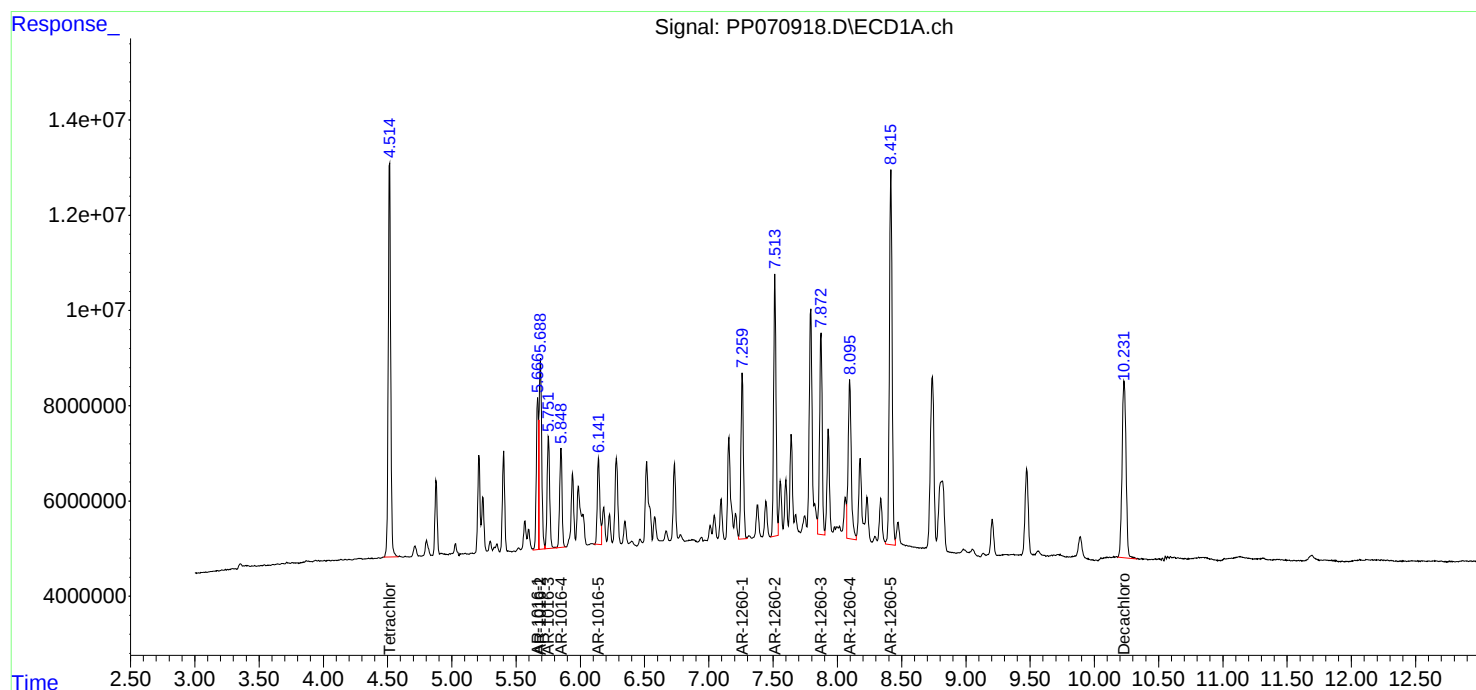
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070918.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 10:47
Operator : YP\AJ
Sample : AR1660ICC750
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 11:43:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 11:40:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070919.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 11:03
 Operator : YP\AJ
 Sample : AR1660ICC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 11:43:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 11:40:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.512	3.816	75962416	51837404	50.000	50.000
2) SA Decachlor...	10.225	8.859	55822450	43250808	50.000	50.000
Target Compounds						
3) L1 AR-1016-1	5.663	4.903	25467030	18977943	500.000	500.000
4) L1 AR-1016-2	5.685	4.922	39405586	27190389	500.000	500.000
5) L1 AR-1016-3	5.748	5.099	23407932	14924529	500.000	500.000
6) L1 AR-1016-4	5.845	5.141	19507464	11896894	500.000	500.000
7) L1 AR-1016-5	6.138	5.355	17520341	15077187	500.000	500.000
31) L7 AR-1260-1	7.256	6.392	33411980	24120261	500.000	500.000
32) L7 AR-1260-2	7.510	6.580	48904355	31452019	500.000	500.000
33) L7 AR-1260-3	7.868	6.734	41485326	26960319	500.000	500.000
34) L7 AR-1260-4	8.092	7.205	40725714	23744314	500.000	500.000
35) L7 AR-1260-5	8.411	7.446	79980400	62656405	500.000	500.000

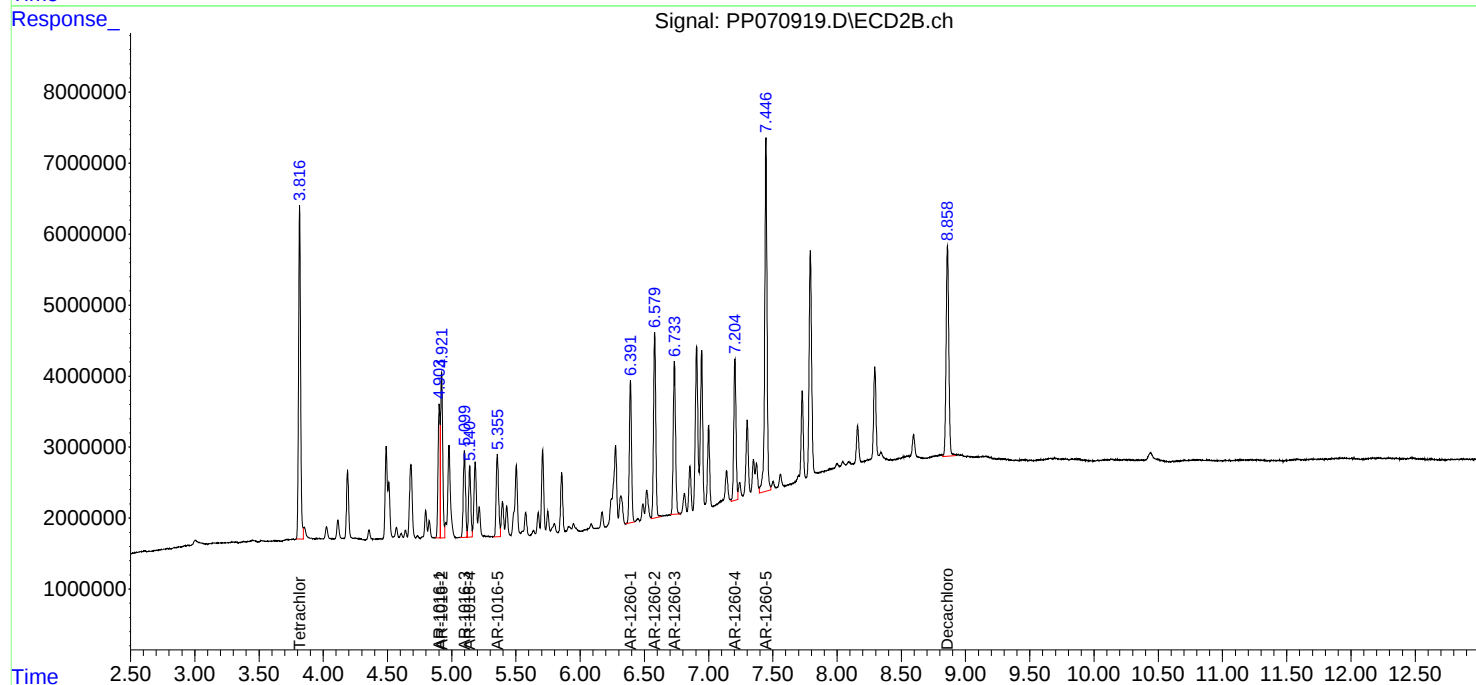
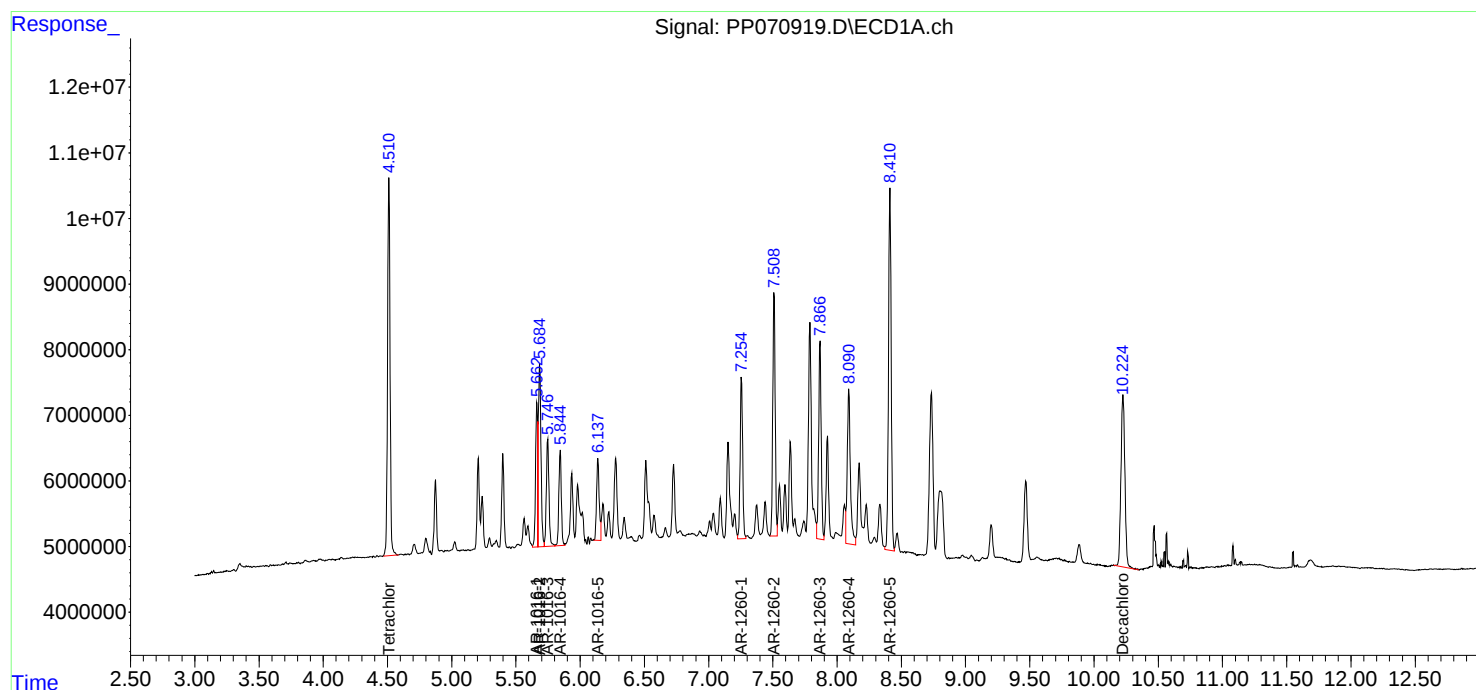
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070919.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 11:03
Operator : YP\AJ
Sample : AR1660ICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 11:43:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 11:40:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070920.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 11:19
 Operator : YP\AJ
 Sample : AR1660ICC250
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC250

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 12:11:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 11:40:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.816	39892911	28120307	26.258	27.124
2) SA Decachlor...	10.229	8.859	27877719	18839232	24.970	21.779
Target Compounds						
3) L1 AR-1016-1	5.667	4.903	13581167	11323714	266.642	298.339
4) L1 AR-1016-2	5.689	4.922	20108471	16375760	255.147	301.131
5) L1 AR-1016-3	5.751	5.099	12212490	8877034	260.862	297.397
6) L1 AR-1016-4	5.848	5.141	9803037	7158830	251.264	300.870
7) L1 AR-1016-5	6.141	5.355	9152735	9323046	261.203	309.177
31) L7 AR-1260-1	7.260	6.391	18182257	14056672	272.092	291.387
32) L7 AR-1260-2	7.513	6.579	25714746	17295947	262.909	274.958
33) L7 AR-1260-3	7.870	6.733	21528554	14684885	259.472m	272.343
34) L7 AR-1260-4	8.094	7.205	19536409	12488782	239.853m	262.985
35) L7 AR-1260-5	8.414	7.446	41714322	31815782	260.778m	253.891

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070920.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 11:19
Operator : YP\AJ
Sample : AR1660ICC250
Misc :
ALS Vial : 6 Sample Multiplier: 1

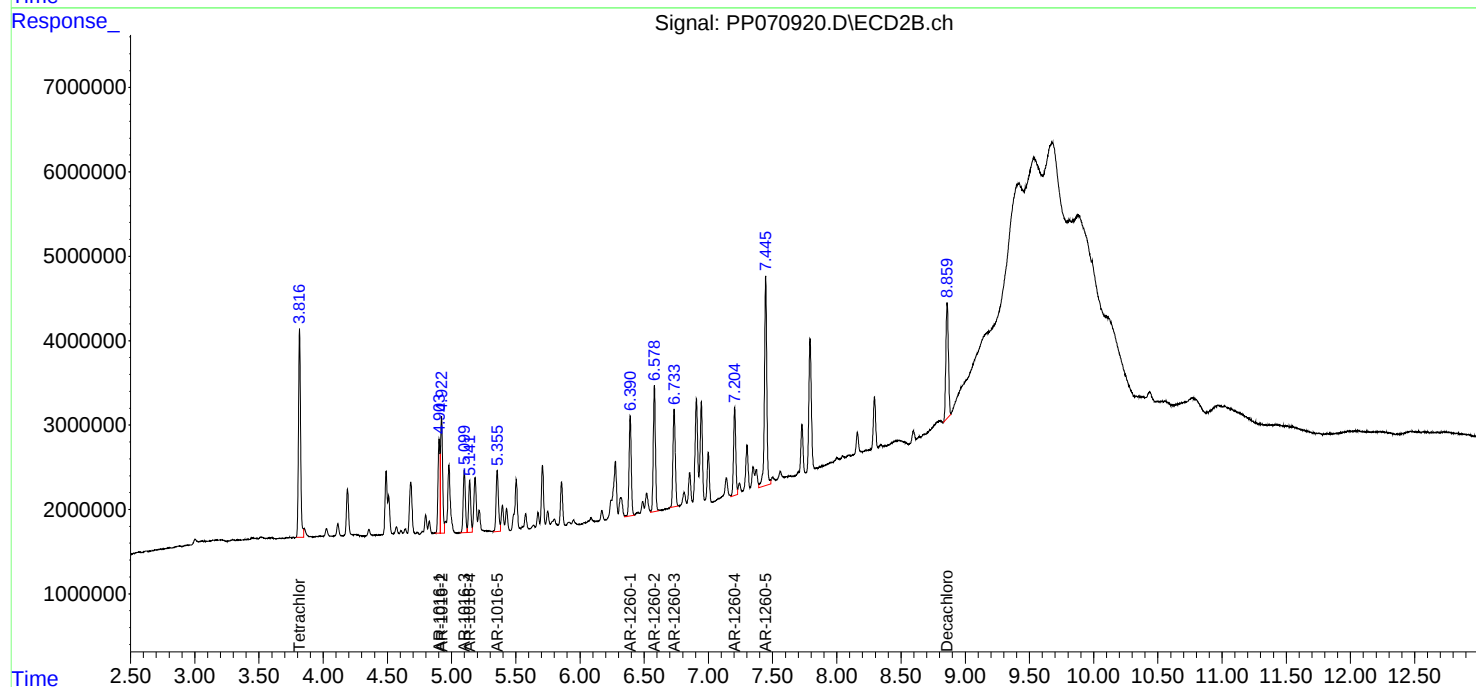
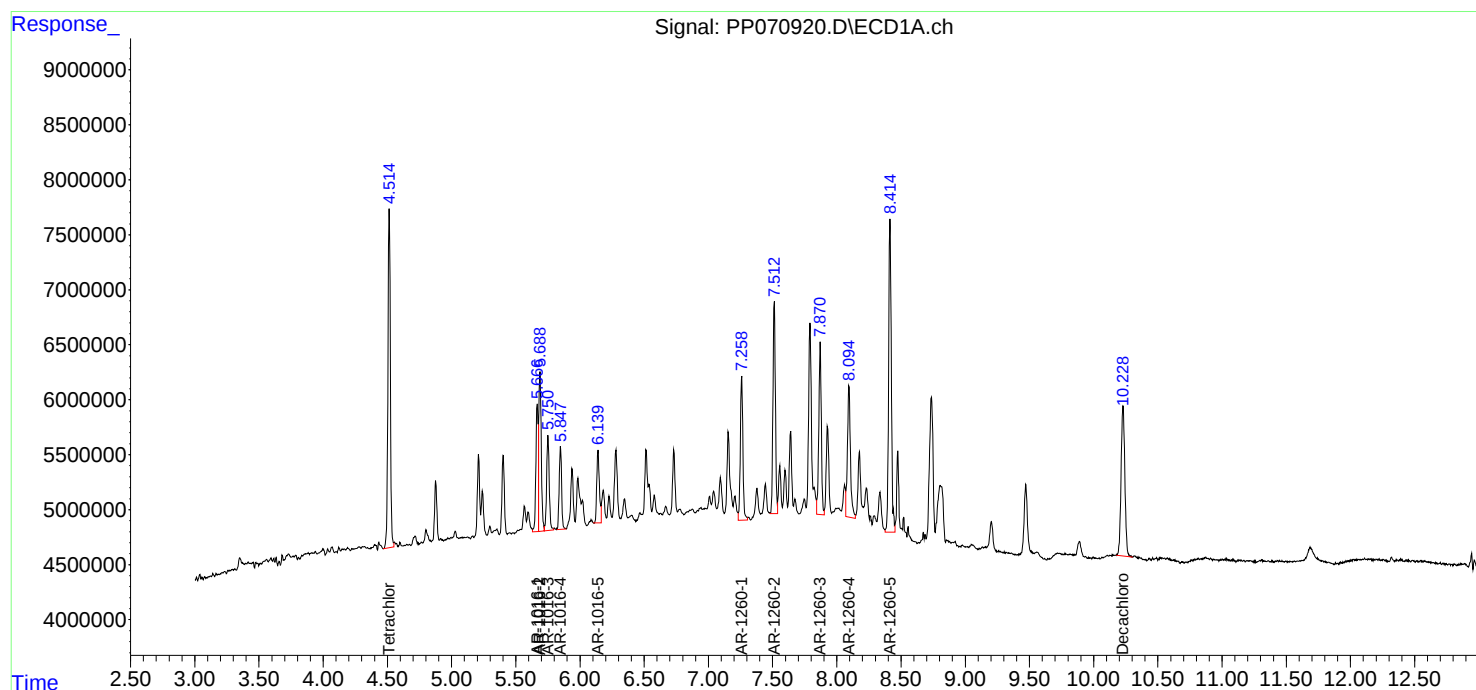
Instrument :
ECD_P
ClientSampleId :
AR1660ICC250

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 12:11:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 11:40:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070921.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 11:35
 Operator : YP\AJ
 Sample : AR1660ICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 12:09:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 11:40:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	6533335	5359624	4.300	5.170
2) SA Decachlor...	10.230	8.858	4733739	3413055	4.240	3.946
Target Compounds						
3) L1 AR-1016-1	5.666	4.903	2617394	2265971	51.388	59.700
4) L1 AR-1016-2	5.688	4.922	4198554	3321854	53.274	61.085
5) L1 AR-1016-3	5.751	5.099	2631097	1626306	56.201	54.484
6) L1 AR-1016-4	5.848	5.140	1614372	1232754	41.378	51.810 #
7) L1 AR-1016-5	6.139	5.356	1610860	1866333	45.971m	61.893 #
31) L7 AR-1260-1	7.257	6.391	3667364	2989801	54.881m	61.977
32) L7 AR-1260-2	7.512	6.579	4685539	3357287	47.905	53.372
33) L7 AR-1260-3	7.869	6.732	3780088	2827385	45.559m	52.436
34) L7 AR-1260-4	8.094	7.205	4593822	2746307	56.400m	57.831
35) L7 AR-1260-5	8.412	7.445	7845589	7013440	49.047m	55.967

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070921.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 11:35
Operator : YP\AJ
Sample : AR1660ICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

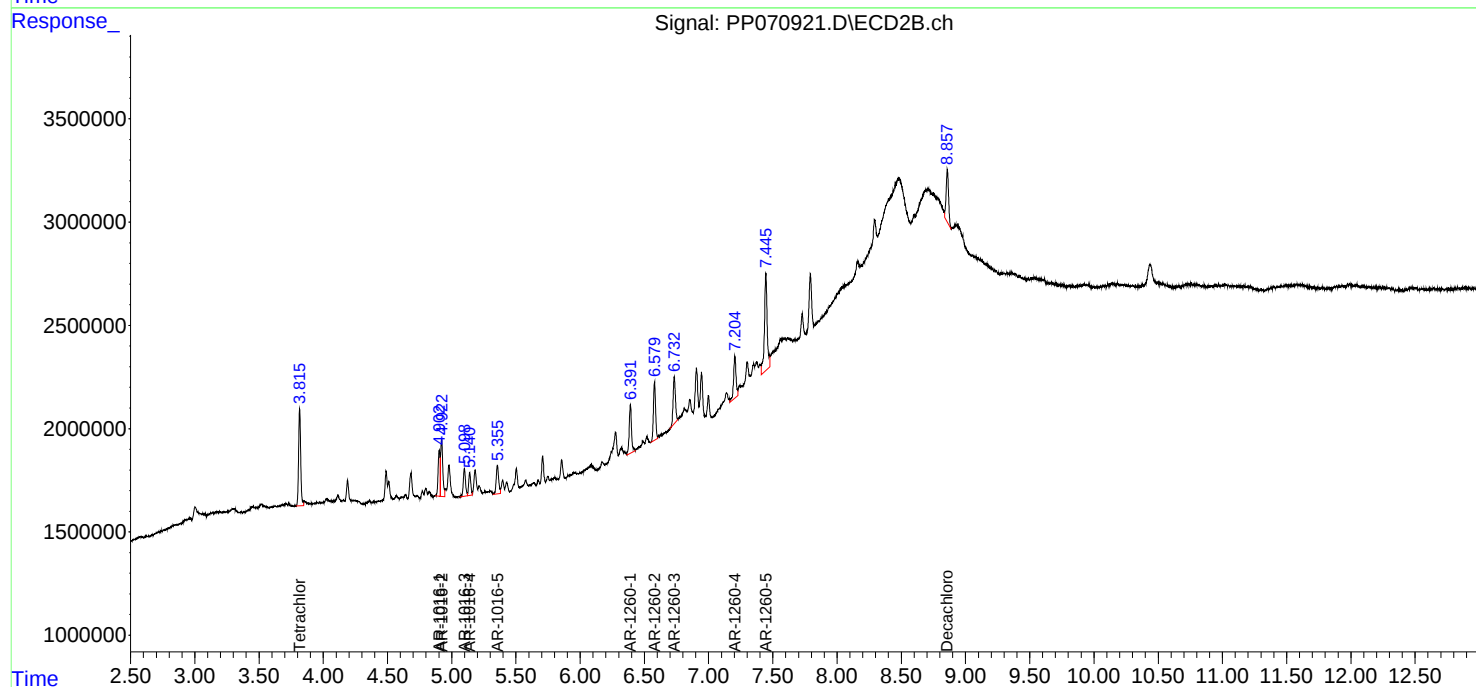
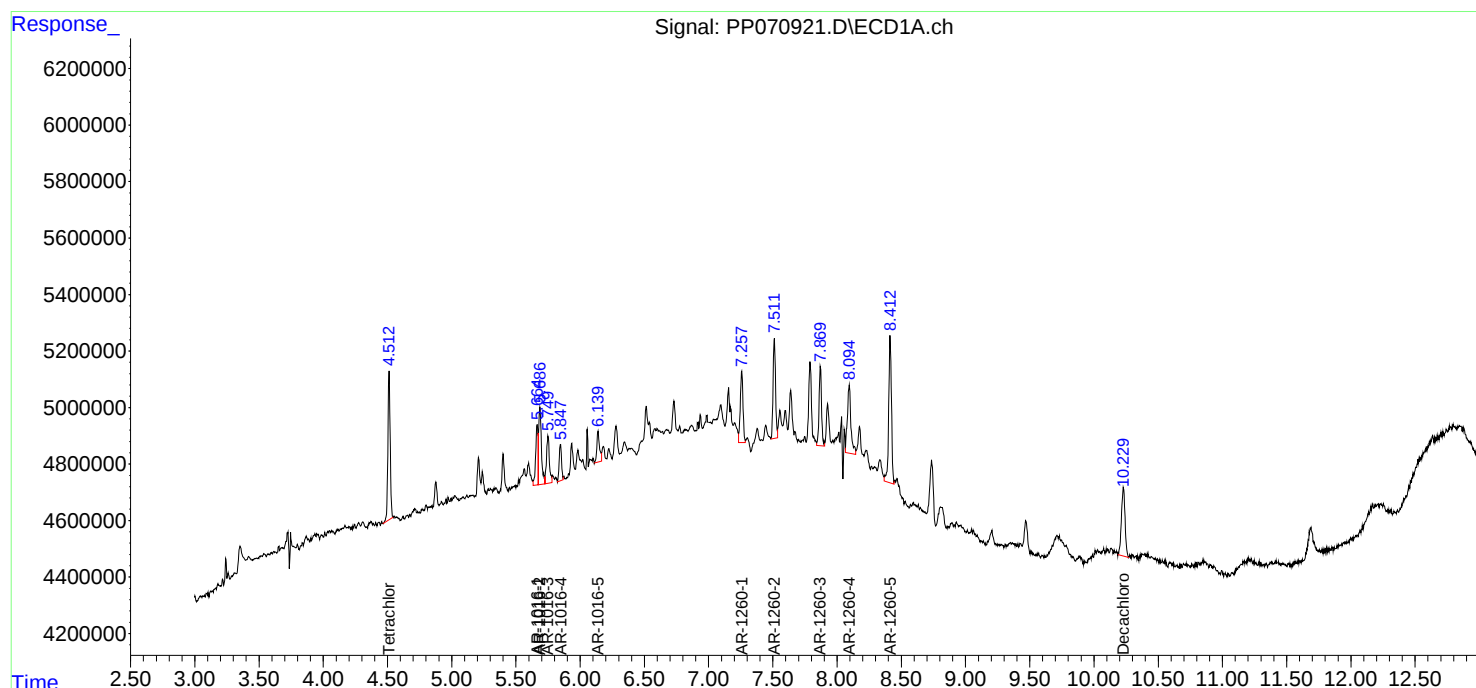
Instrument :
ECD_P
ClientSampleId :
AR1660ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 12:09:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 11:40:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070922.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 11:52
 Operator : YP\AJ
 Sample : AR1221ICC500
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1221ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 12:33:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 12:32:55 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.817	75324924	52315210	50.000	50.000
2) SA Decachlor...	10.229	8.859	52098024	39006992	50.000	50.000
Target Compounds						
8) L2 AR-1221-1	4.716	4.027	8676827	7621792	500.000	500.000
9) L2 AR-1221-2	4.802	4.114	6476464	5718144	500.000	500.000
10) L2 AR-1221-3	4.878	4.190	20858618	17044480	500.000	500.000

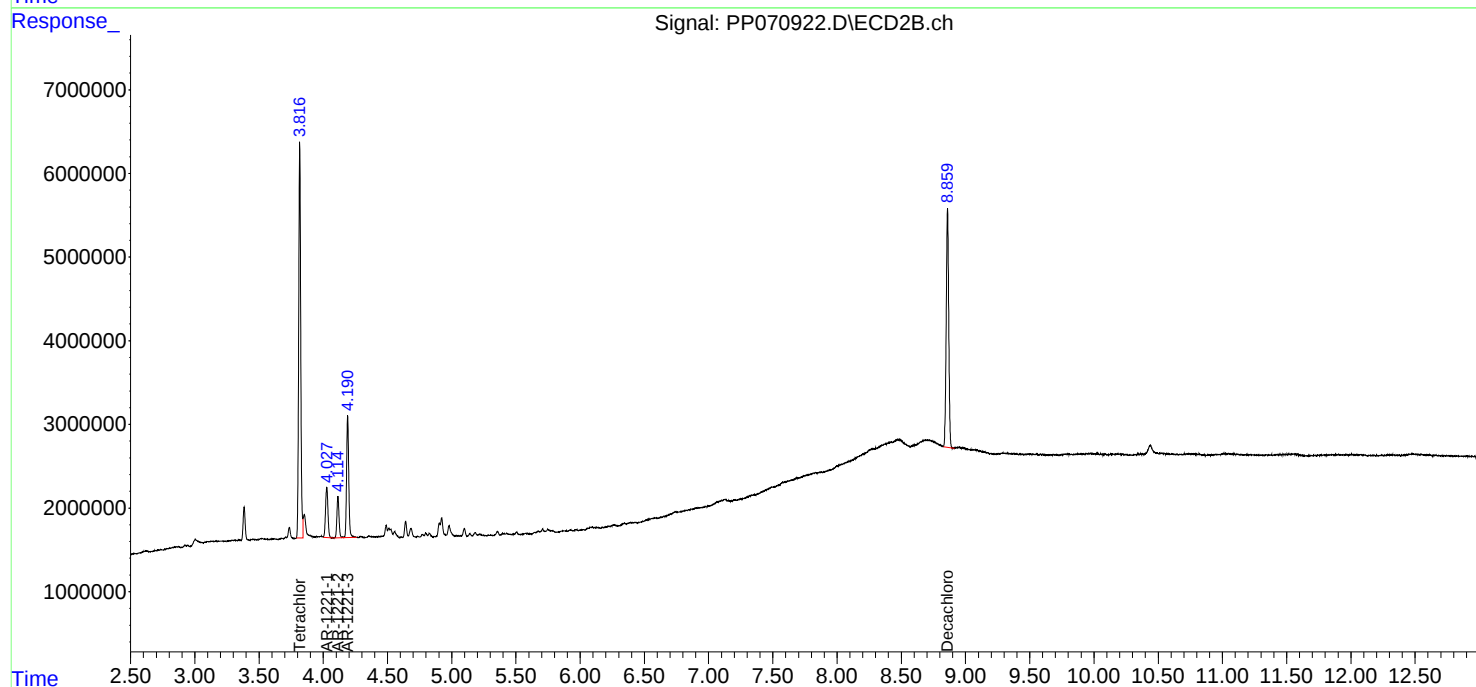
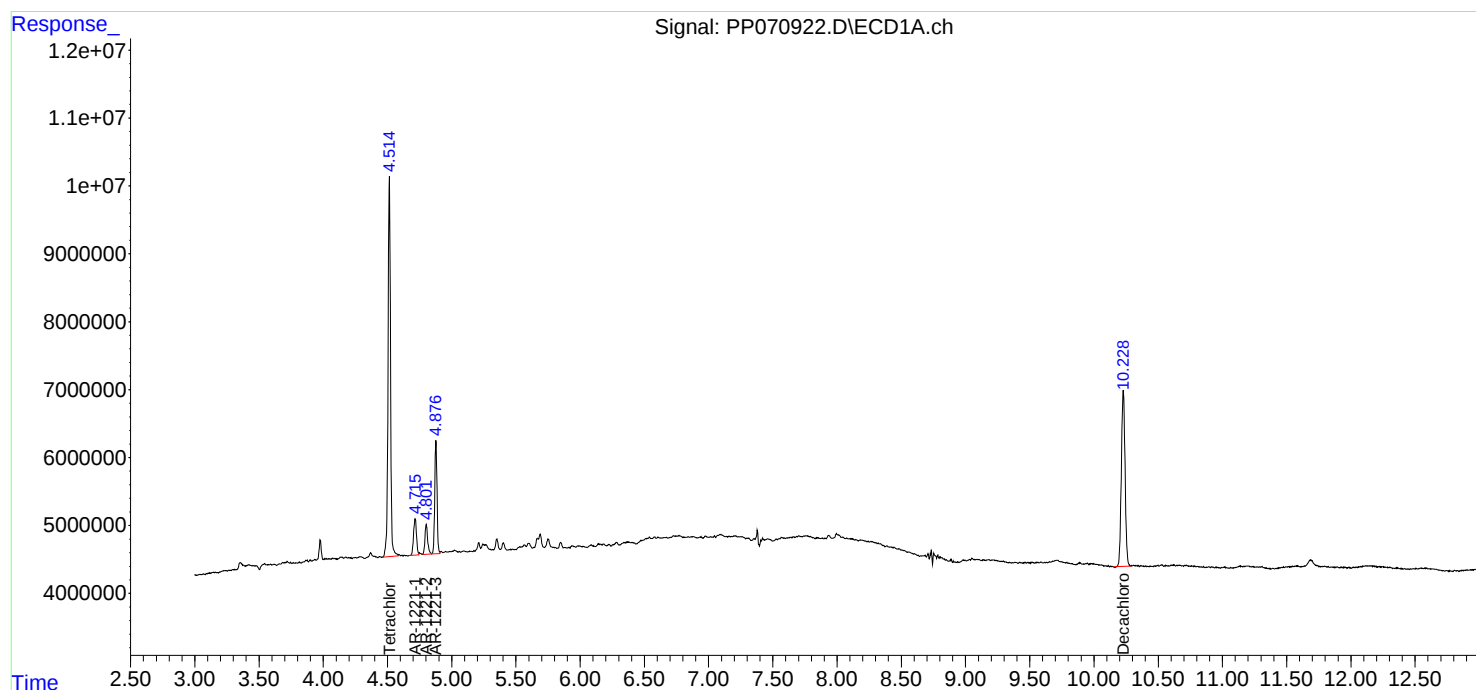
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070922.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 11:52
Operator : YP\AJ
Sample : AR1221ICC500
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1221ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 12:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 12:32:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070923.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 12:11
 Operator : YP\AJ
 Sample : AR1232ICC500
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1232ICC500

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 12:39:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 12:38:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.520	3.817	74435949	51438566	50.000	50.000
2) SA Decachlor...	10.234	8.860	46115316	40517792	51.013m	50.000
Target Compounds						
11) L3 AR-1232-1	4.883	4.191	16644355	13993352	500.000	500.000
12) L3 AR-1232-2	5.408	4.923	7955169	14030567	500.000	500.000
13) L3 AR-1232-3	5.694	5.100	17135200	7444793	500.000	500.000
14) L3 AR-1232-4	5.854	5.185	7853790	6402183	500.000	500.000
15) L3 AR-1232-5	5.943	5.357	5320177	7087391	500.000	500.000

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070923.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 12:11
Operator : YP\AJ
Sample : AR1232ICC500
Misc :
ALS Vial : 9 Sample Multiplier: 1

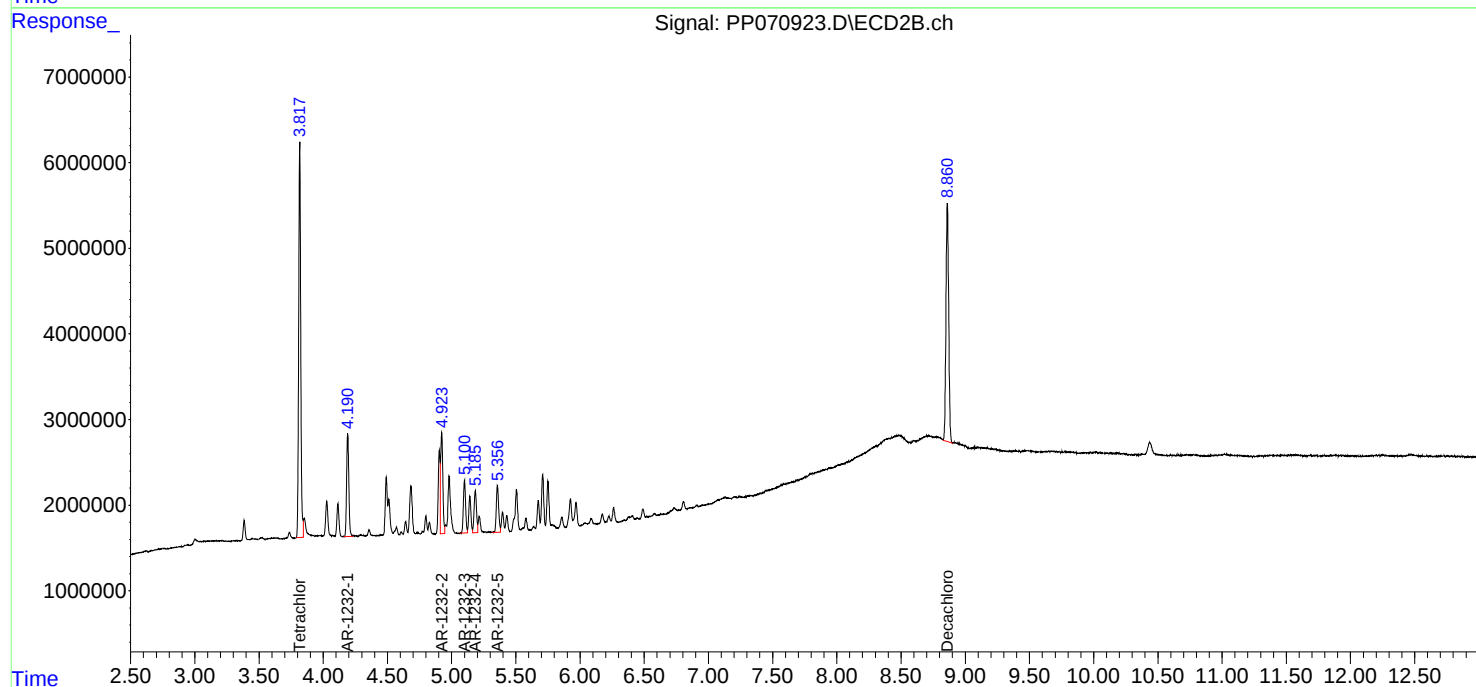
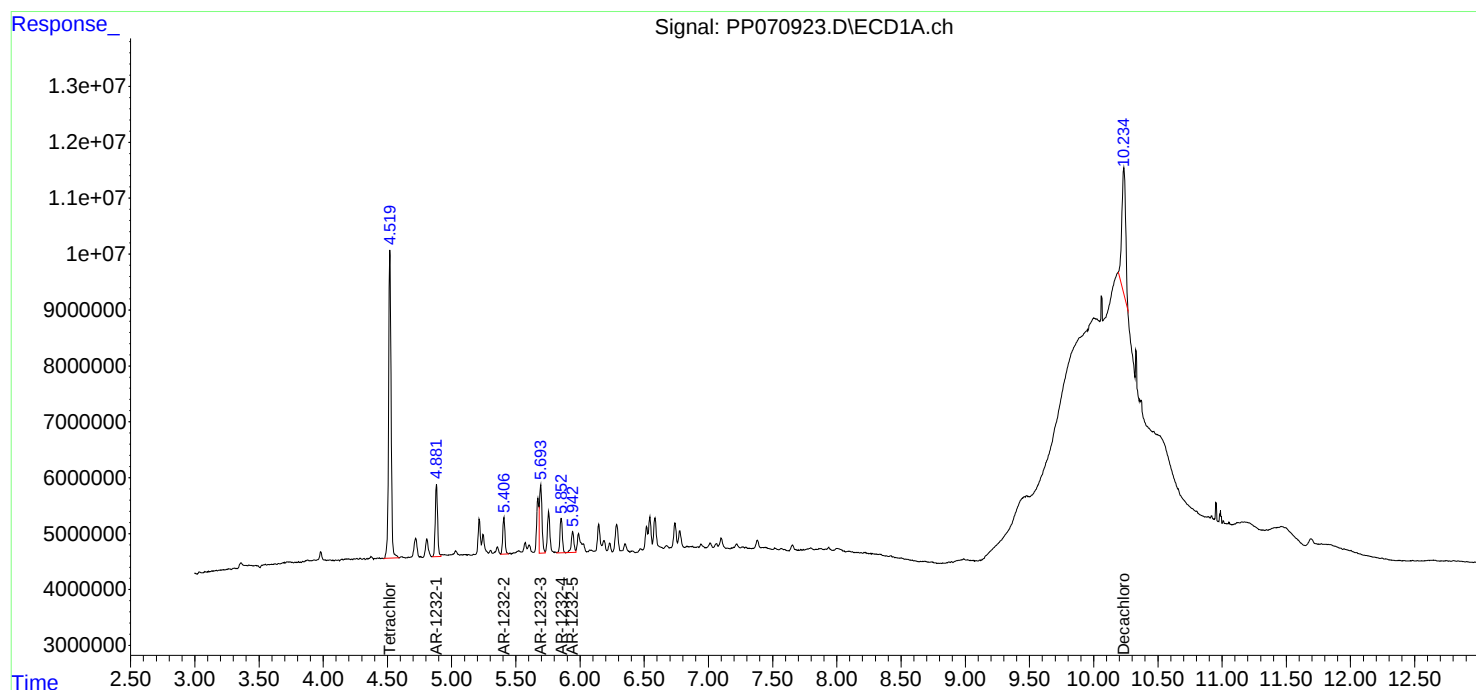
Instrument :
ECD_P
ClientSampleId :
AR1232ICC500

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 12:39:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 12:38:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 12:28
 Operator : YP\AJ
 Sample : AR1242ICC1000
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 13:28:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 13:24:34 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	144.4E6	99447440	93.922	88.806
2) SA Decachlor...	10.227	8.858	103.6E6	79468601	93.673	102.468
Target Compounds						
16) L4 AR-1242-1	5.666	4.903	40990074	30391529	943.761	877.115
17) L4 AR-1242-2	5.687	4.922	64704598	43879042	965.382	887.614
18) L4 AR-1242-3	5.749	5.099	39349869	24103124	991.106	905.487
19) L4 AR-1242-4	5.846	5.183	30814559	23086538	954.688	902.469
20) L4 AR-1242-5	6.577	5.707	36006298	28647762	964.427	907.760

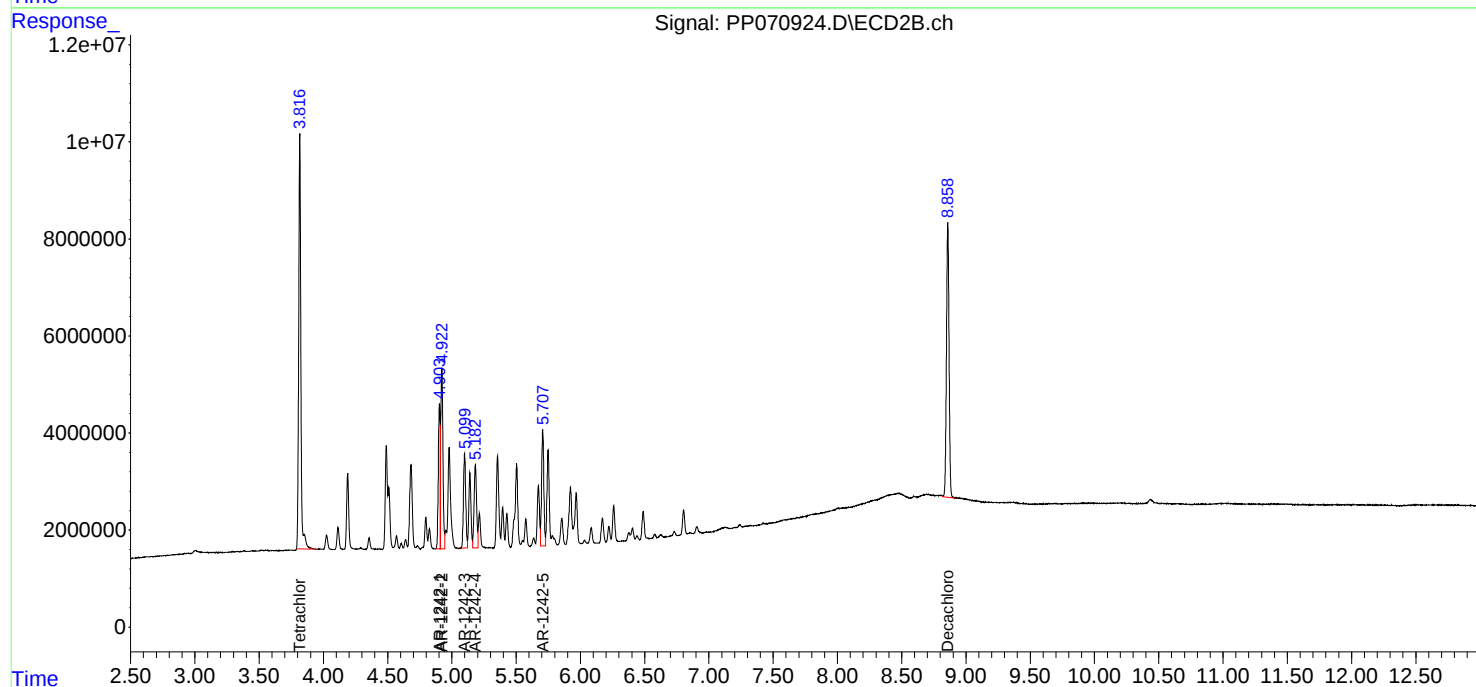
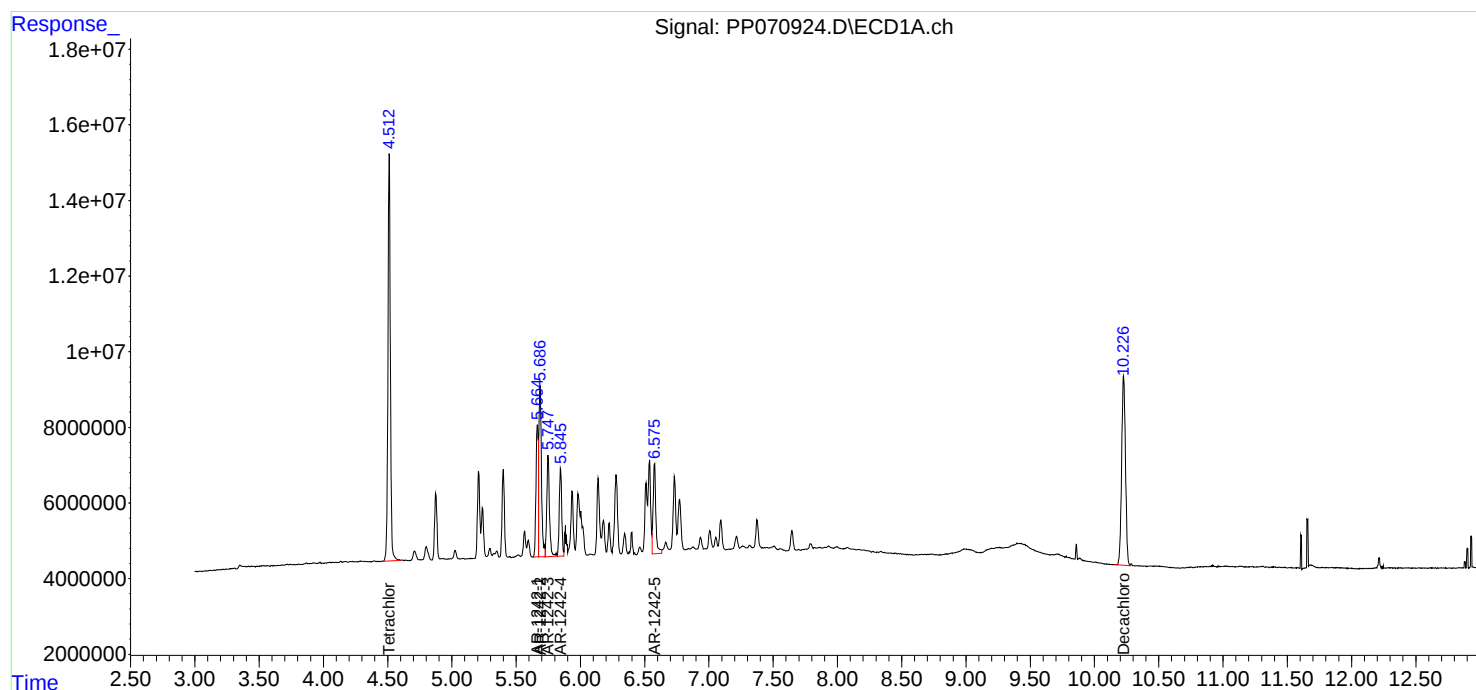
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070924.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 12:28
Operator : YP\AJ
Sample : AR1242ICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1242ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 13:28:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 13:24:34 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 12:44
 Operator : YP\AJ
 Sample : AR1242ICC750
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 13:28:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 13:24:34 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	113.1E6	76564298	73.554	68.372
2) SA Decachlor...	10.229	8.859	79761677	58459899	72.098	75.379
Target Compounds						
16) L4 AR-1242-1	5.666	4.903	32059711	23829543	738.147	687.733
17) L4 AR-1242-2	5.687	4.921	47897203	33806804	714.618	683.867
18) L4 AR-1242-3	5.750	5.099	28536378	18473047	718.747	693.981
19) L4 AR-1242-4	5.847	5.183	23599640	17369419	731.158	678.983
20) L4 AR-1242-5	6.577	5.707	26235924	21926365	702.728	694.780

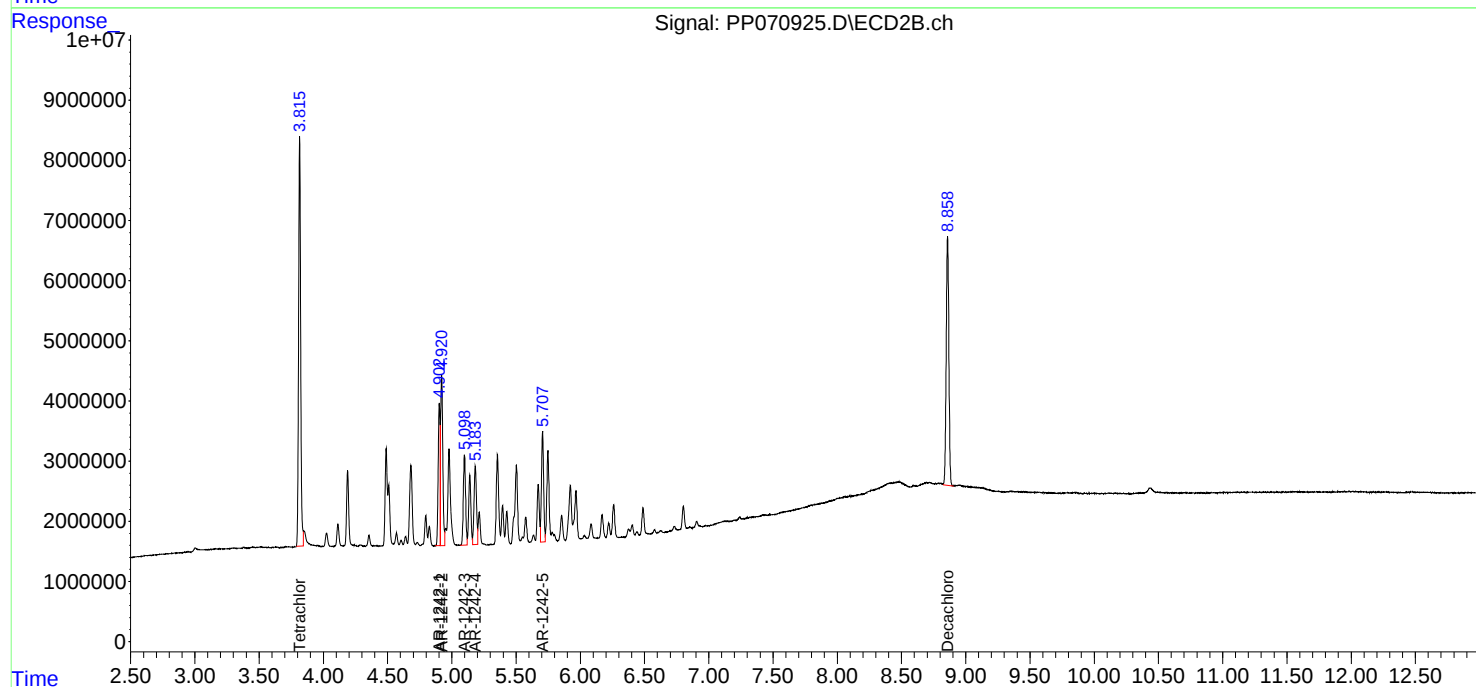
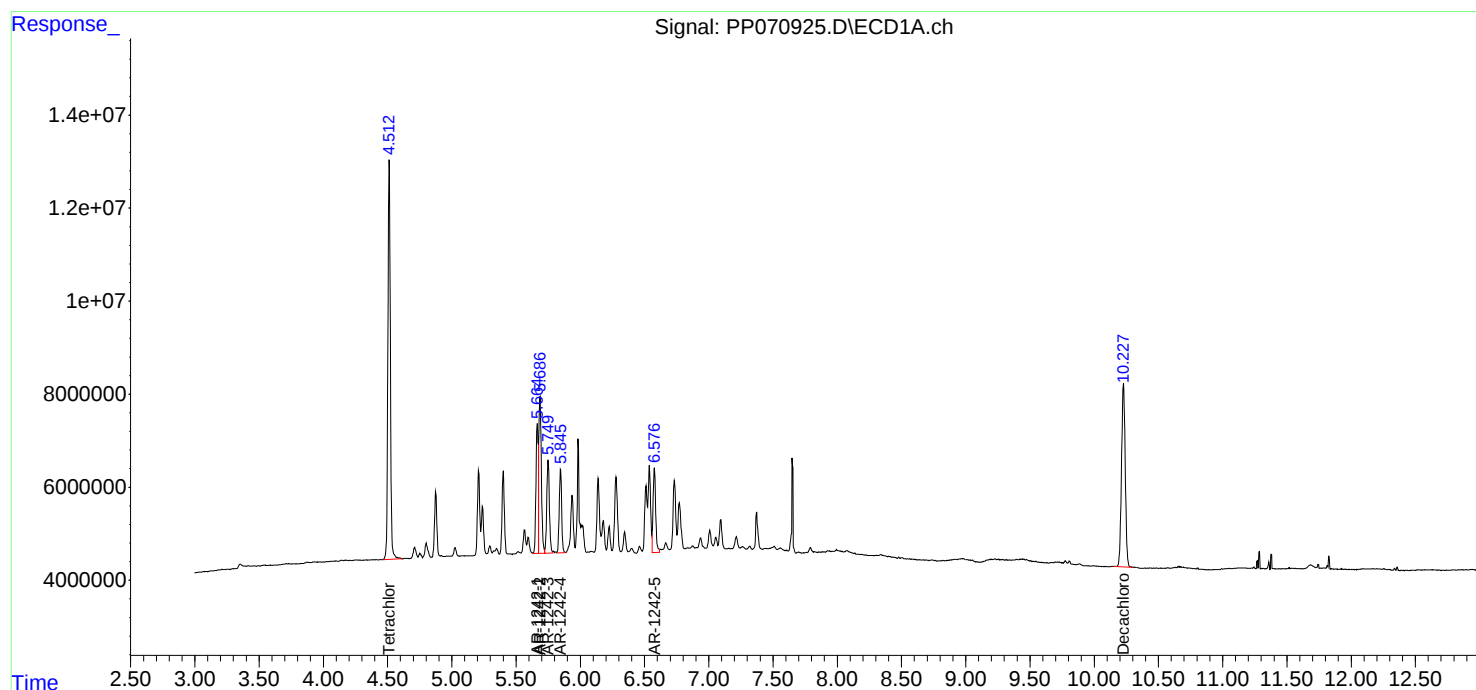
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070925.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 12:44
Operator : YP\AJ
Sample : AR1242ICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1242ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 13:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 13:24:34 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 13:00
 Operator : YP\AJ
 Sample : AR1242ICC500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 13:28:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 13:24:34 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.511	3.815	76869856	55991243	50.000	50.000
2) SA Decachlor...	10.225	8.858	55314656	38777230	50.000	50.000
Target Compounds						
16) L4 AR-1242-1	5.664	4.902	21716335	17324704	500.000	500.000
17) L4 AR-1242-2	5.686	4.921	33512438	24717400	500.000	500.000
18) L4 AR-1242-3	5.748	5.099	19851486	13309479	500.000	500.000
19) L4 AR-1242-4	5.845	5.182	16138543	12790769	500.000	500.000
20) L4 AR-1242-5	6.576	5.707	18667188	15779369	500.000	500.000

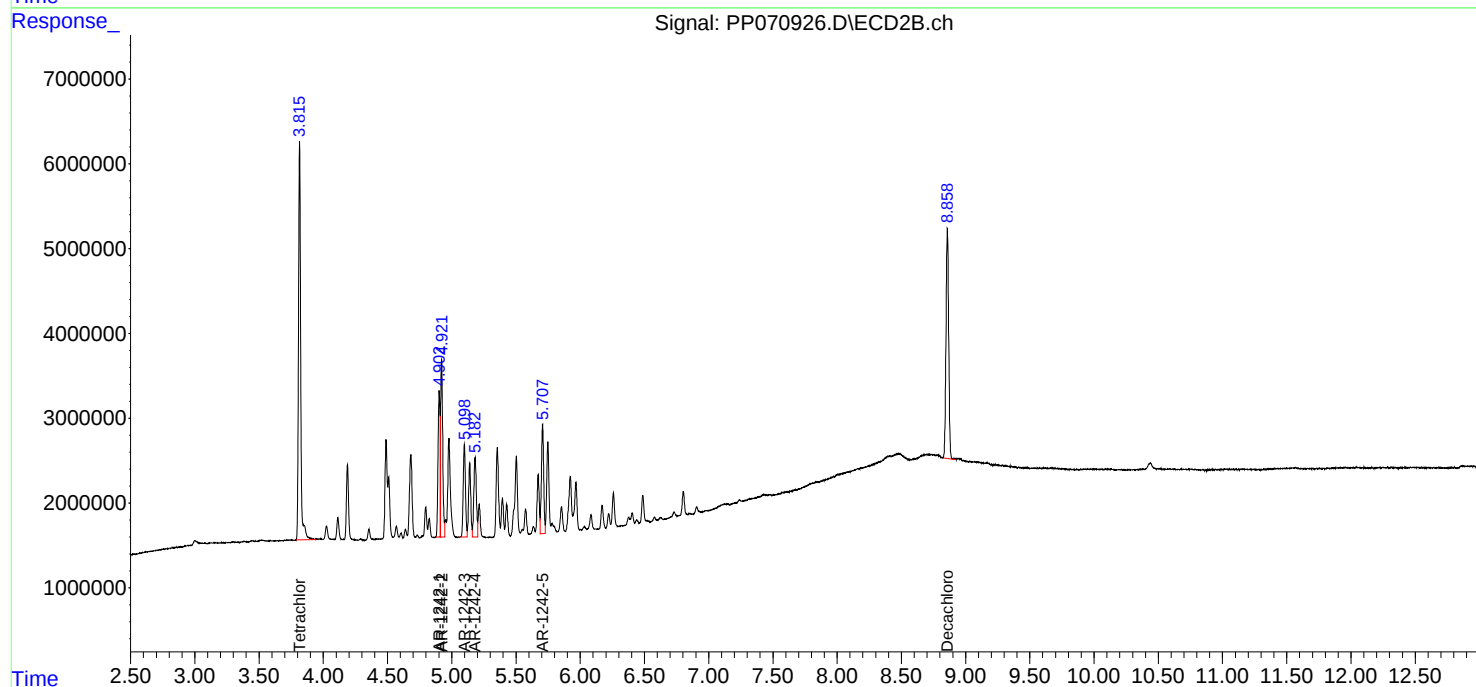
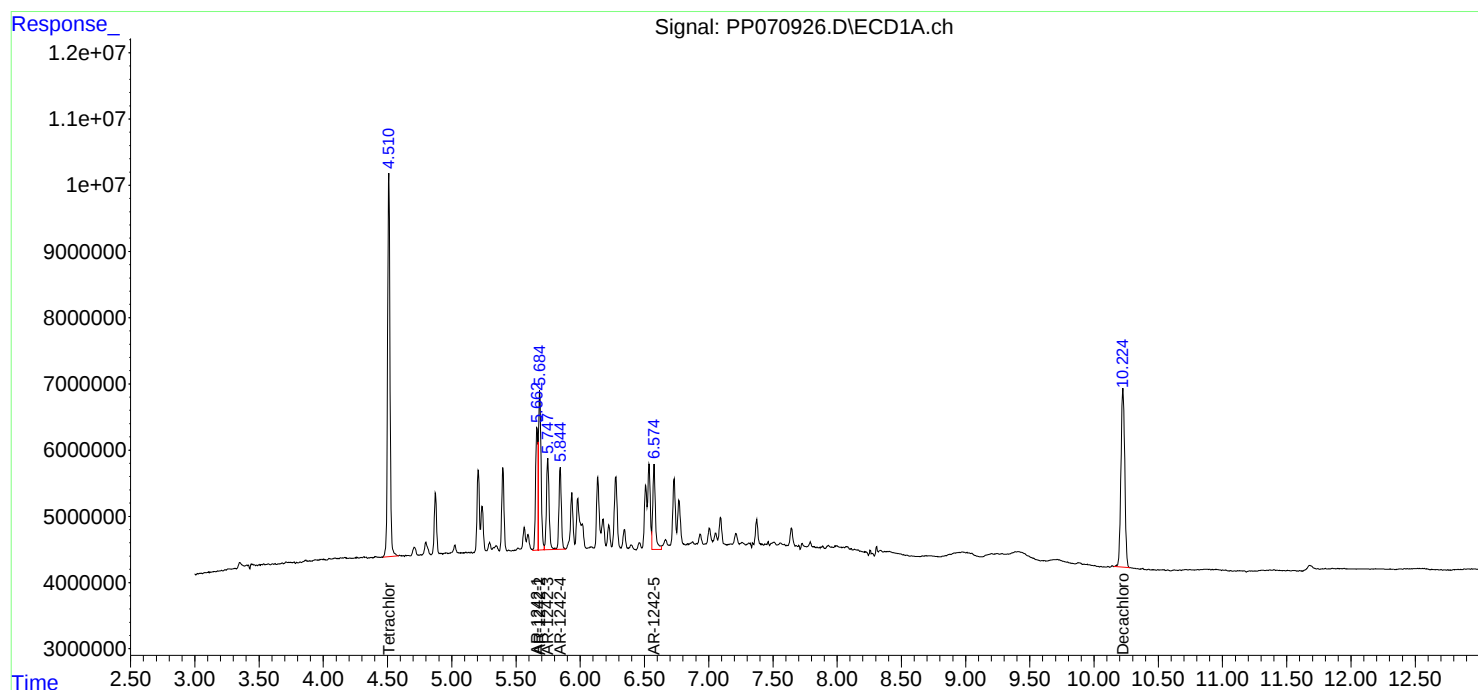
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070926.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 13:00
Operator : YP\AJ
Sample : AR1242ICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1242ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 13:28:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 13:24:34 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070927.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 13:16
 Operator : YP\AJ
 Sample : AR1242ICC250
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 13:36:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 13:24:34 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	39179148	28013392	25.484	25.016
2) SA Decachlor...	10.230	8.858	28836317	21287334	26.066	27.448
Target Compounds						
16) L4 AR-1242-1	5.666	4.903	10996159	9674680	253.177	279.216
17) L4 AR-1242-2	5.688	4.922	17212597	13875945	256.809	280.692
18) L4 AR-1242-3	5.750	5.099	10156885	7458368	255.822	280.190
19) L4 AR-1242-4	5.847	5.183	8048661	7154684	249.361	279.682
20) L4 AR-1242-5	6.578	5.708	9640099	8240601	258.210	261.119

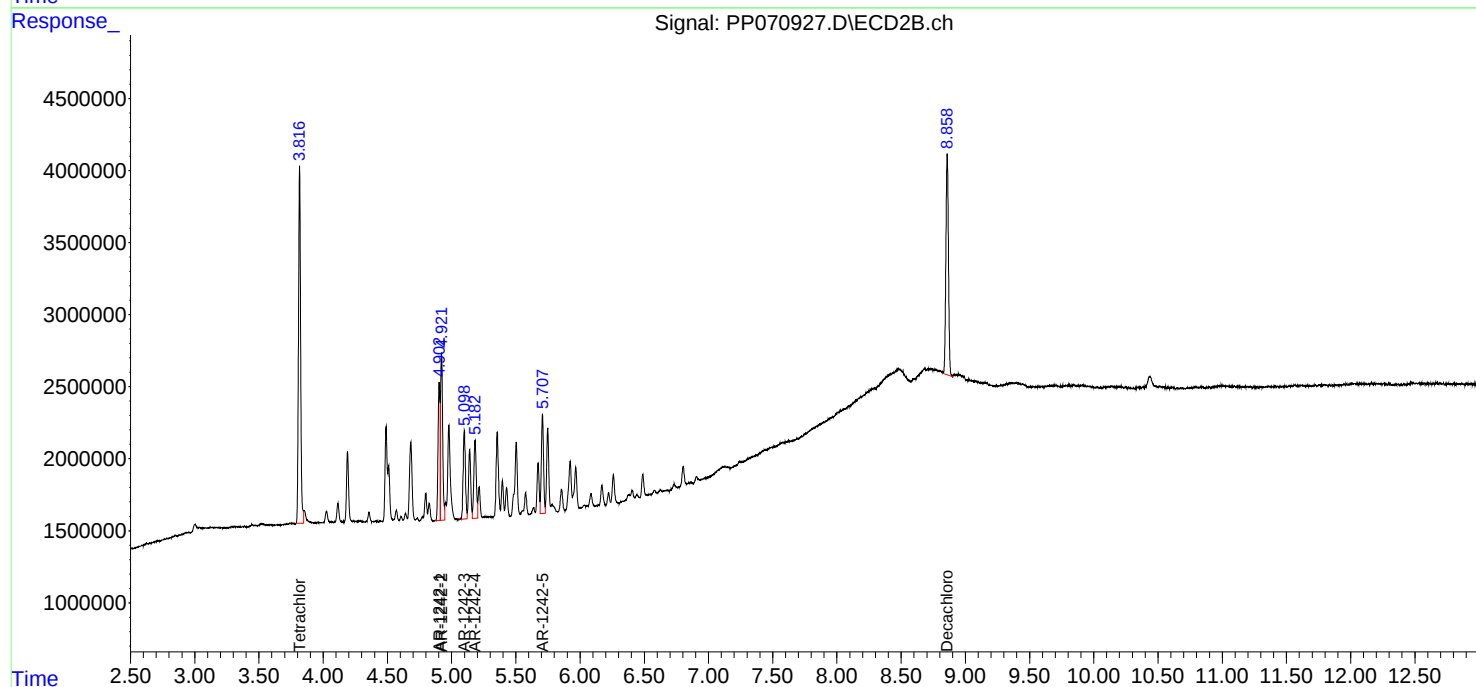
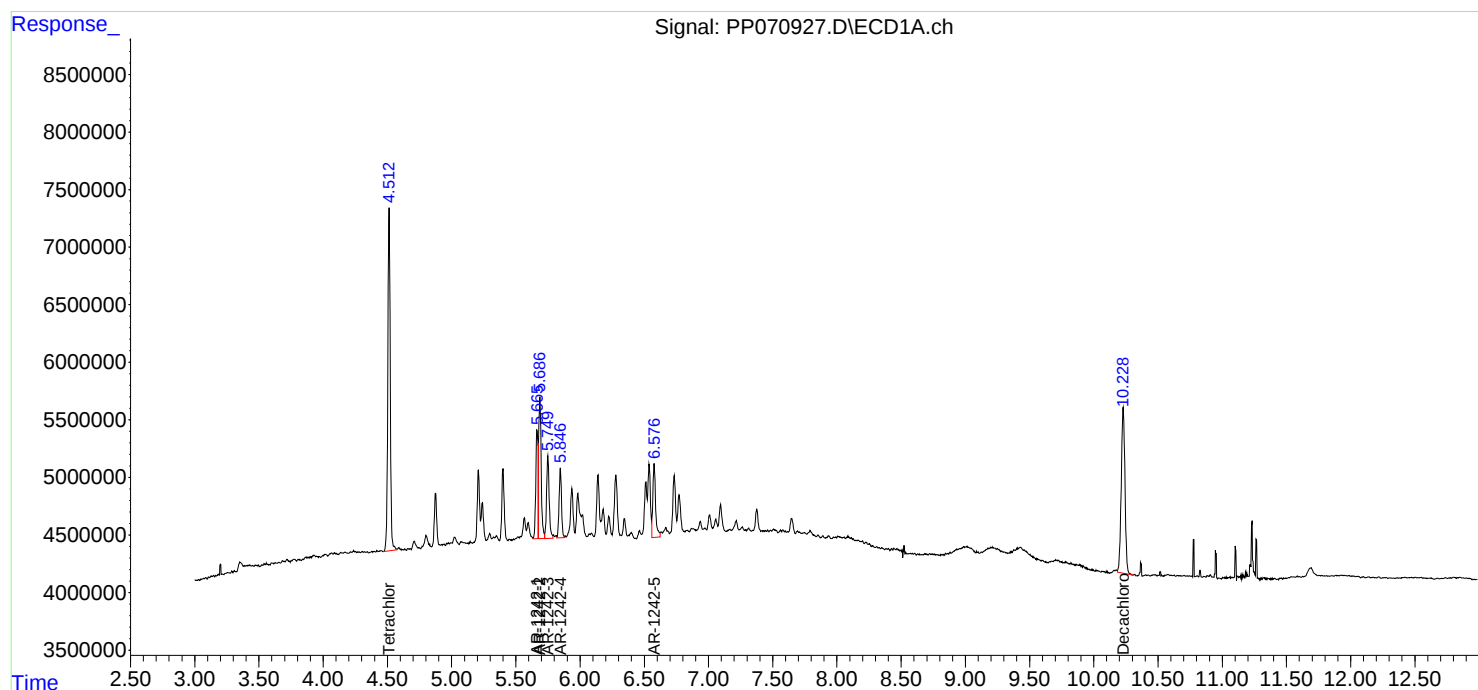
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070927.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 13:16
Operator : YP\AJ
Sample : AR1242ICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1242ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 13:36:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 13:24:34 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070928.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 13:33
 Operator : YP\AJ
 Sample : AR1242ICC050
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 13:57:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 13:24:34 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.512	3.815	6633492	5532966	4.273	4.939
2) SA Decachlor...	10.226	8.857	5282830	3387334	4.676	4.164
Target Compounds						
16) L4 AR-1242-1	5.663	4.902	2436604	1773341	55.746m	48.354
17) L4 AR-1242-2	5.686	4.921	2856942	2619762	42.052m	49.929m
18) L4 AR-1242-3	5.748	5.098	2373419	1401755	59.091m	49.661
19) L4 AR-1242-4	5.843	5.181	1293211	1572257	40.117m	58.017m#
20) L4 AR-1242-5	6.574	5.705	1783487	1619372	46.999m	50.197m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070928.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 13:33
Operator : YP\AJ
Sample : AR1242ICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

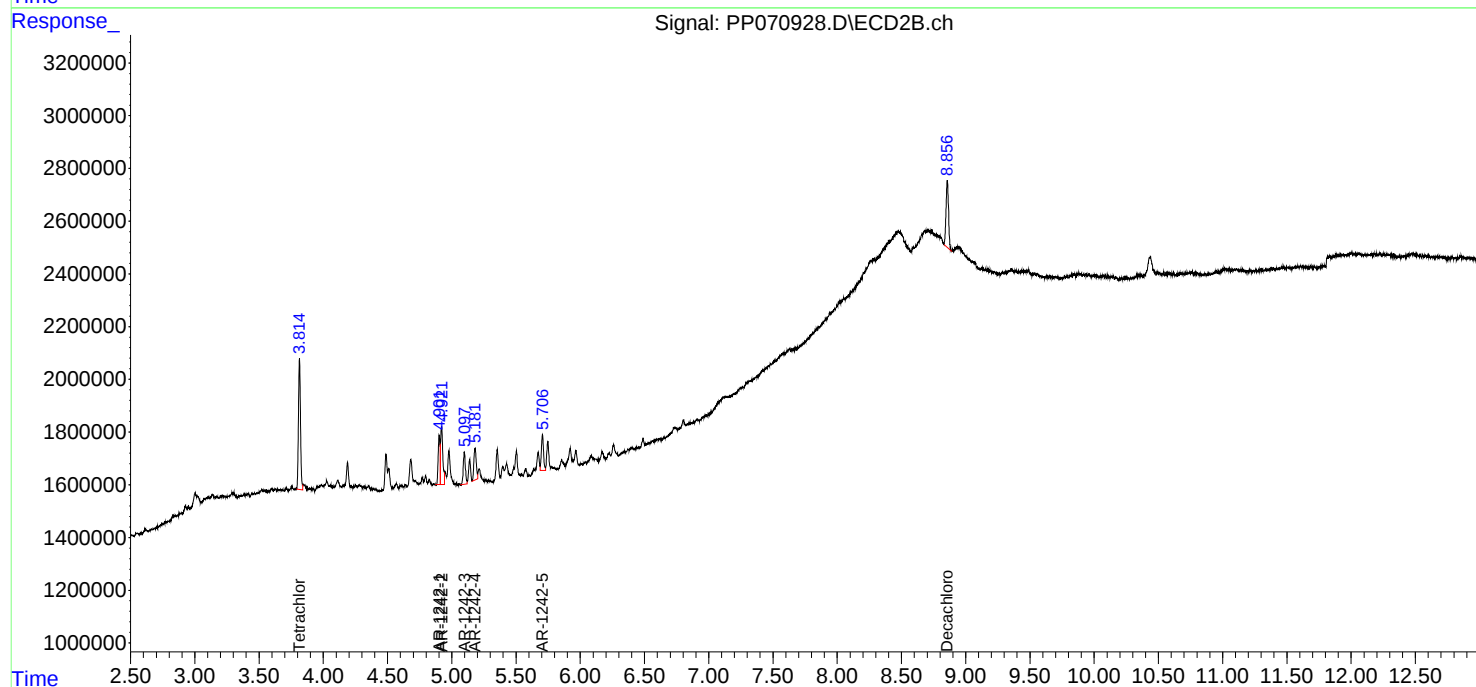
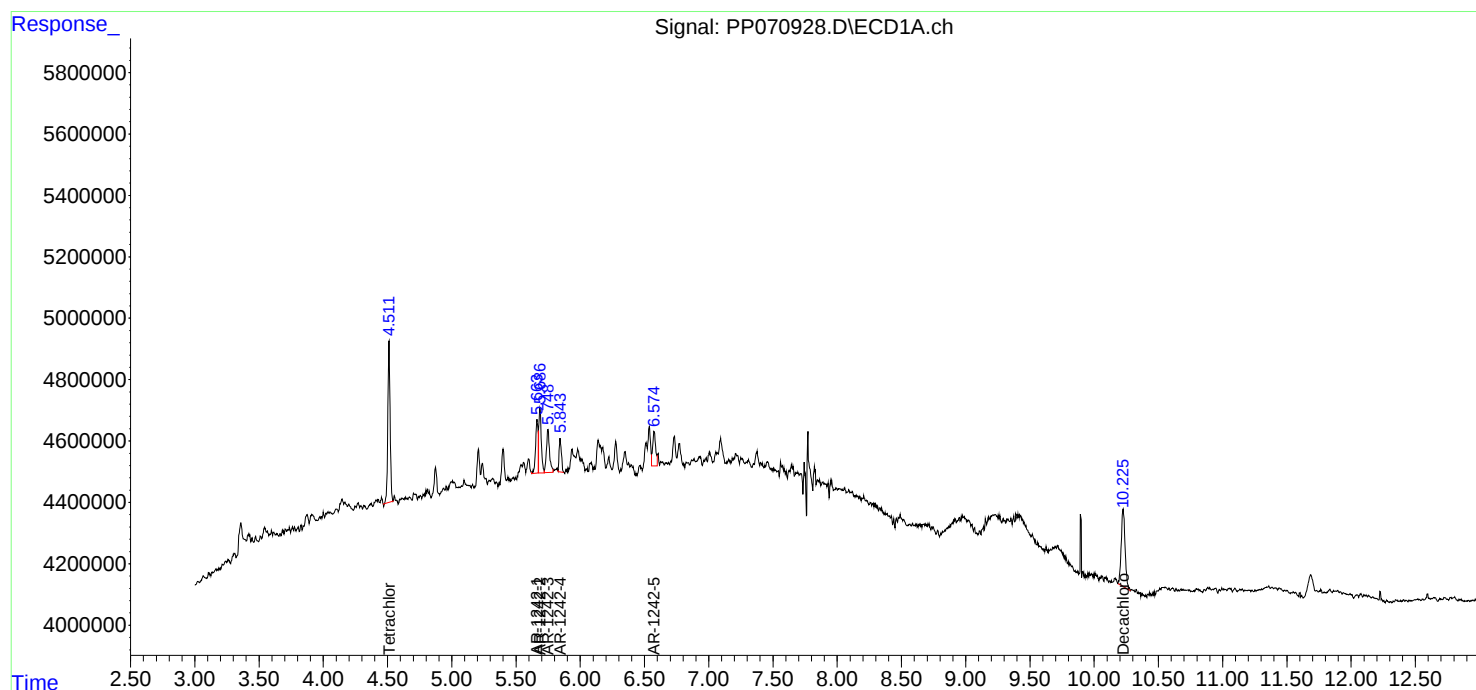
Instrument :
ECD_P
ClientSampleId :
AR1242ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 13:57:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 13:24:34 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 13:49
 Operator : YP\AJ
 Sample : AR1248ICC1000
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 14:45:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 14:45:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	146.2E6	96952216	94.393	85.183
2) SA Decachlor...	10.229	8.859	107.2E6	76343240	88.954	92.303
Target Compounds						
21) L5 AR-1248-1	5.666	4.903	31141042	23297586	921.836	817.423
22) L5 AR-1248-2	5.938	5.141	42399779	31071420	917.898	811.806
23) L5 AR-1248-3	6.140	5.183	48055172	32592570	927.258	815.546
24) L5 AR-1248-4	6.539	5.355	59878410	38114246	893.176	807.817
25) L5 AR-1248-5	6.579	5.749	56652876	37031094	881.261	843.047

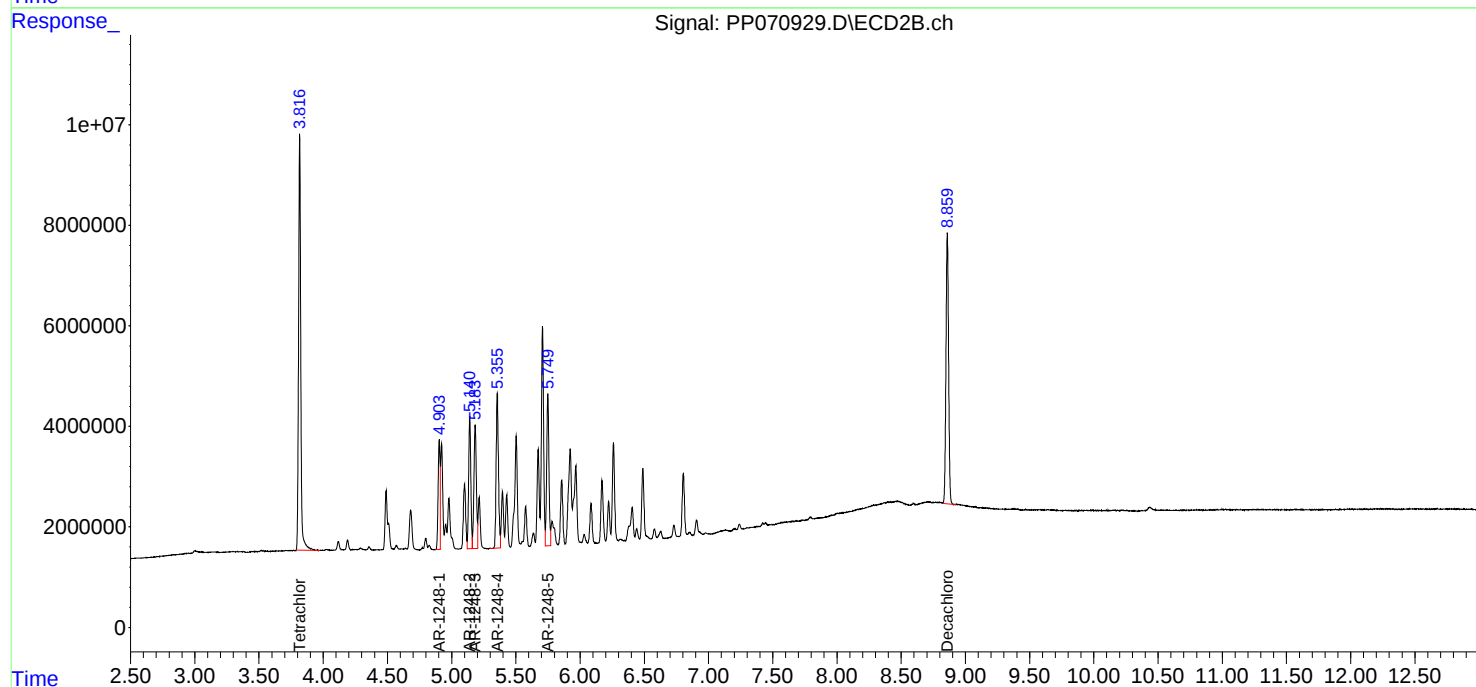
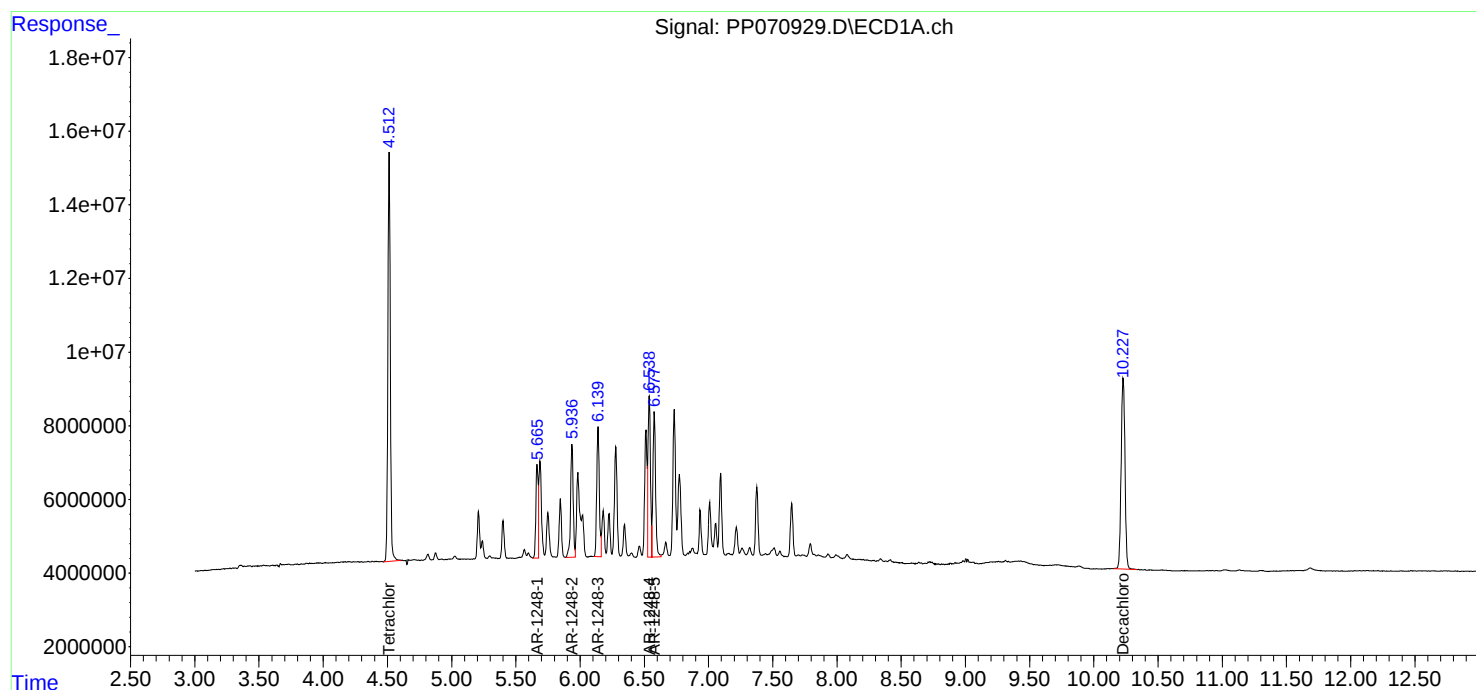
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070929.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 13:49
Operator : YP\AJ
Sample : AR1248ICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1248ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 14:45:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 14:45:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070930.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 14:05
 Operator : YP\AJ
 Sample : AR1248ICC750
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 14:46:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 14:45:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	115.8E6	78436191	74.760	68.915
2) SA Decachlor...	10.229	8.860	84334663	61664461	69.979	74.555
Target Compounds						
21) L5 AR-1248-1	5.666	4.903	25034469	20052758	741.070	703.575
22) L5 AR-1248-2	5.938	5.141	33734311	26938678	730.302	703.829
23) L5 AR-1248-3	6.140	5.183	38083098	28275820	734.840	707.530
24) L5 AR-1248-4	6.539	5.356	47603456	32558799	710.077	690.072
25) L5 AR-1248-5	6.578	5.749	45378306	30836259	705.880	702.016

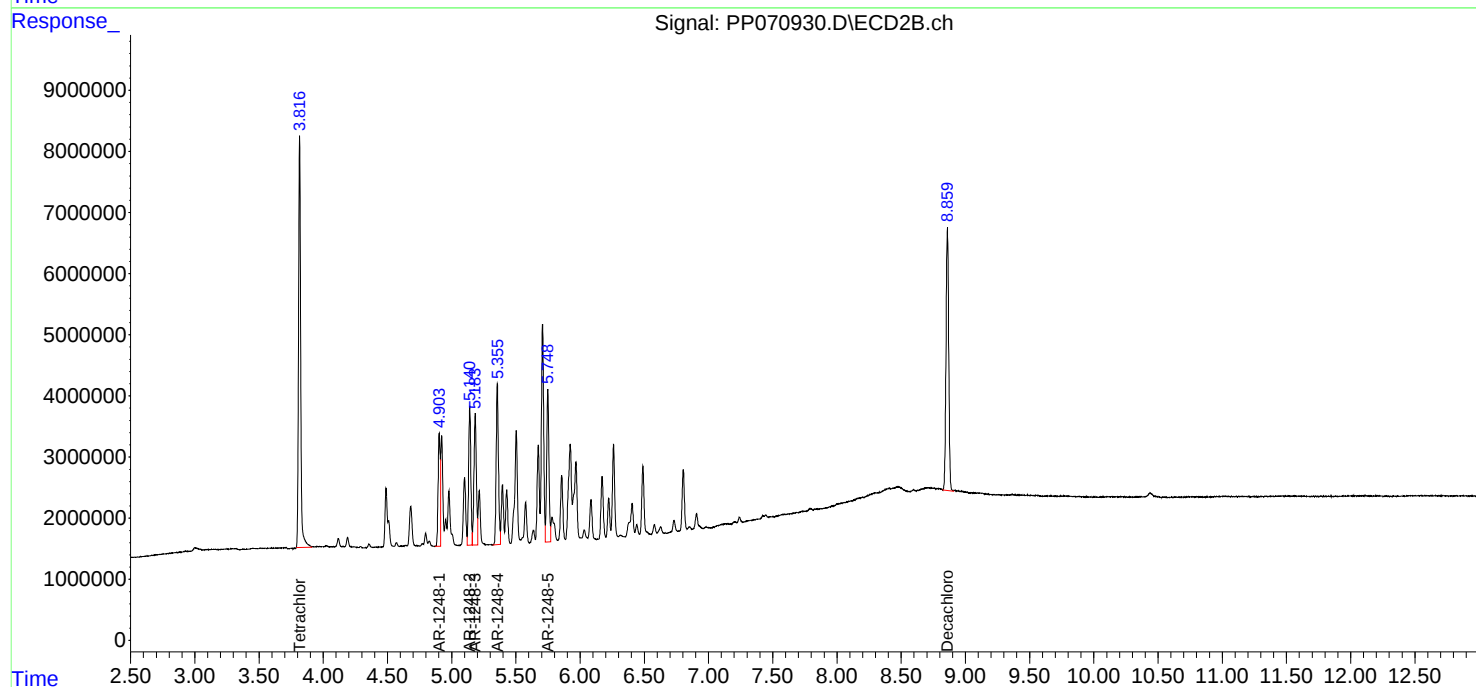
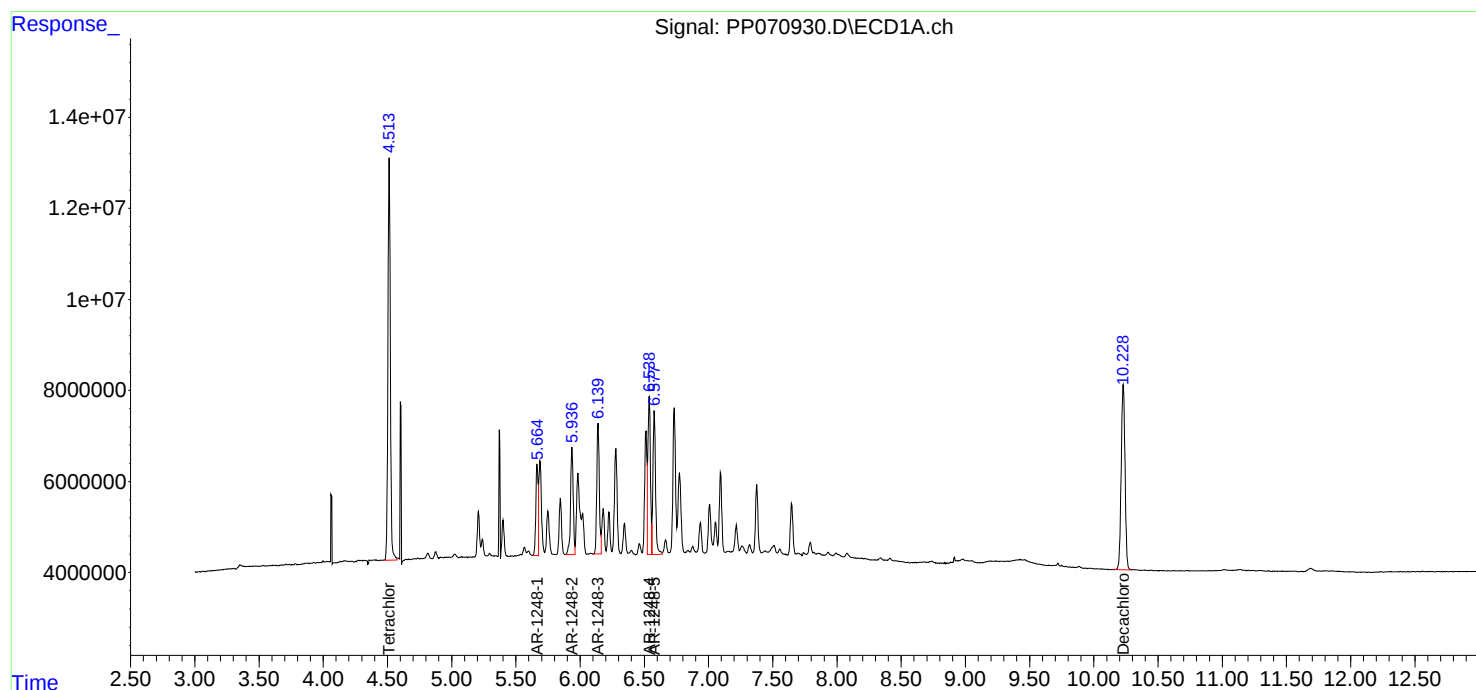
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070930.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 14:05
Operator : YP\AJ
Sample : AR1248ICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1248ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 14:46:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 14:45:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070931.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 14:22
 Operator : YP\AJ
 Sample : AR1248ICC500
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 14:46:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 14:45:17 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	77451968	56907988	50.000	50.000
2) SA Decachlor...	10.226	8.859	60256834	41354865	50.000	50.000
Target Compounds						
21) L5 AR-1248-1	5.665	4.903	16890769	14250625	500.000	500.000
22) L5 AR-1248-2	5.937	5.140	23096128	19137230	500.000	500.000
23) L5 AR-1248-3	6.140	5.183	25912526	19982060	500.000	500.000
24) L5 AR-1248-4	6.539	5.355	33519946	23590888	500.000	500.000
25) L5 AR-1248-5	6.578	5.748	32143070	21962659	500.000	500.000

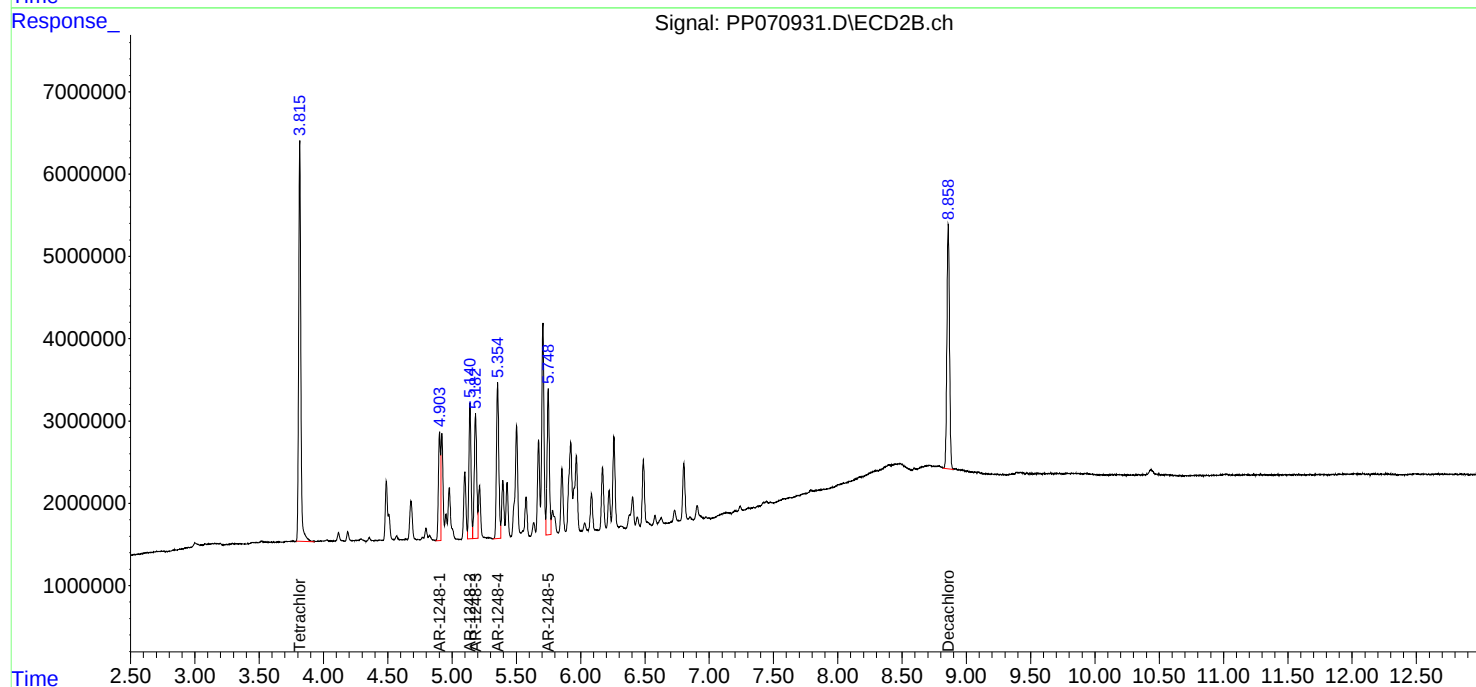
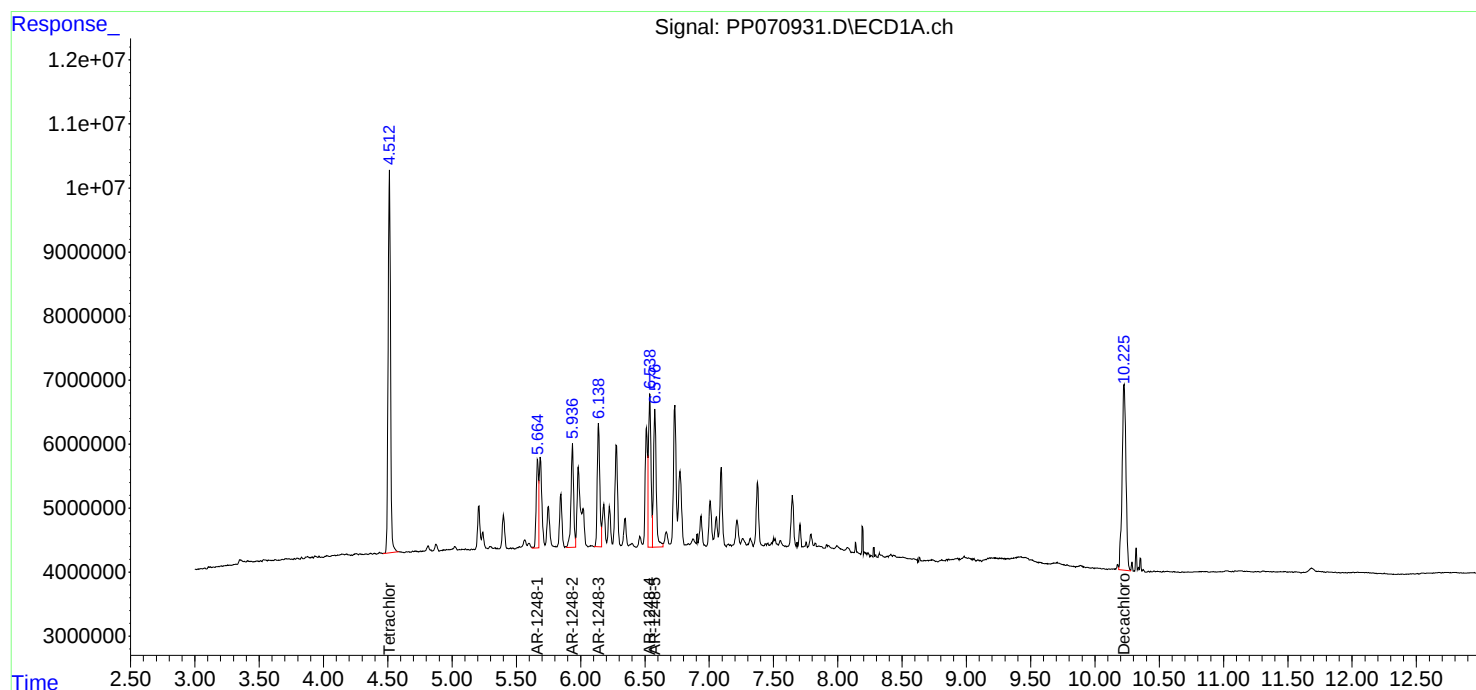
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070931.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 14:22
Operator : YP\AJ
Sample : AR1248ICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1248ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 14:46:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 14:45:17 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 14:38
 Operator : YP\AJ
 Sample : AR1248ICC250
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 15:07:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 15:04:54 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.517	3.817	38987130	27101787	25.676	25.783
2) SA Decachlor...	10.232	8.860	29177292	20157827	25.732	25.064
Target Compounds						
21) L5 AR-1248-1	5.672	4.904	11497190	7301885	350.874	278.926
22) L5 AR-1248-2	5.941	5.141	11780544	9675655	264.590	275.754
23) L5 AR-1248-3	6.144	5.184	12674295	10119428	252.379	275.339
24) L5 AR-1248-4	6.543	5.356	18357259	12061061	289.258	281.127
25) L5 AR-1248-5	6.582	5.750	17129846	11658567	283.226	286.518

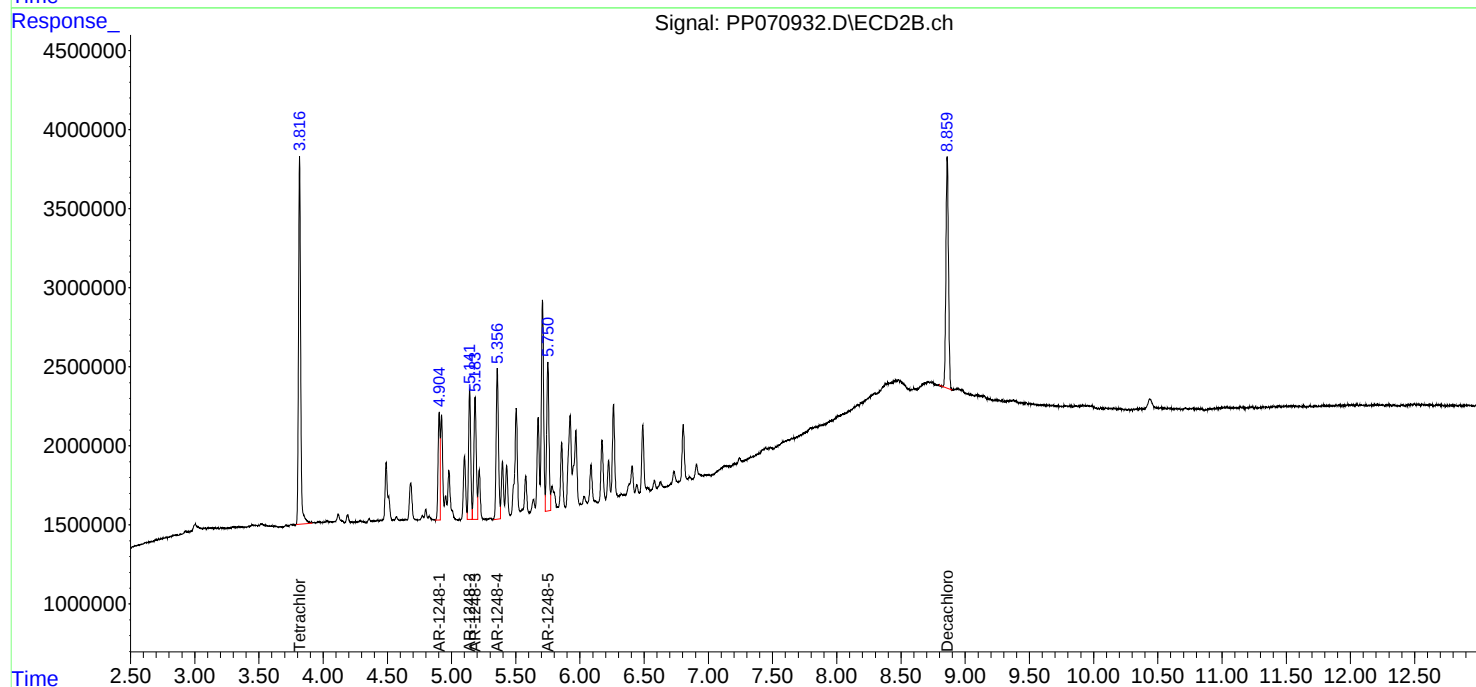
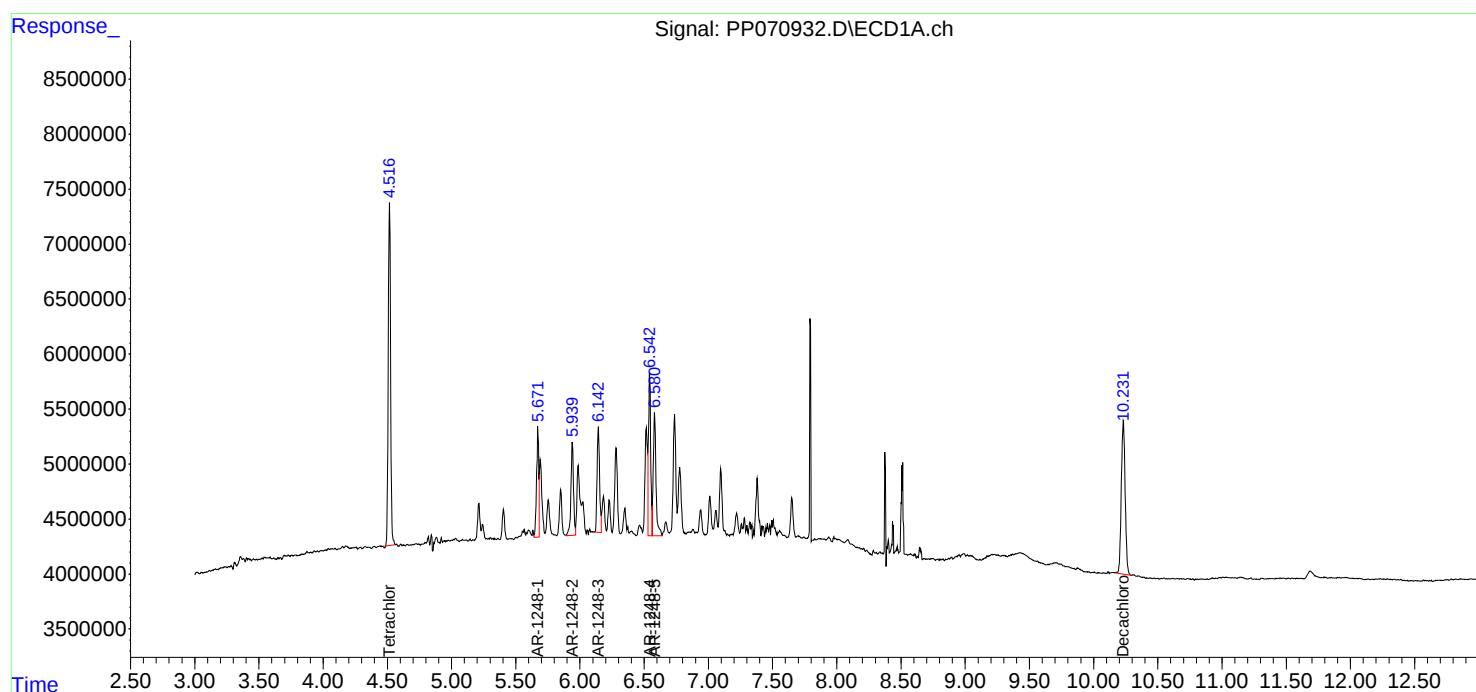
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070932.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 14:38
Operator : YP\AJ
Sample : AR1248ICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1248ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 15:07:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 15:04:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 14:55
 Operator : YP\AJ
 Sample : AR1248ICC050
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 15:16:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 15:04:54 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.815	7324663	5848649	4.791	5.521
2) SA Decachlor...	10.227	8.859	5549589	3661642	4.859	4.550
Target Compounds						
21) L5 AR-1248-1	5.665	4.902	1857345	1382826	51.489	51.338
22) L5 AR-1248-2	5.935	5.140	2199982	1982278	48.701m	55.076
23) L5 AR-1248-3	6.137	5.182	2591630	2128069	51.484m	56.472
24) L5 AR-1248-4	6.536	5.354	2845967	2437650	43.150m	55.103 #
25) L5 AR-1248-5	6.576	5.748	2713422	2234402	43.421m	52.978

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070933.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 14:55
Operator : YP\AJ
Sample : AR1248ICC050
Misc :
ALS Vial : 19 Sample Multiplier: 1

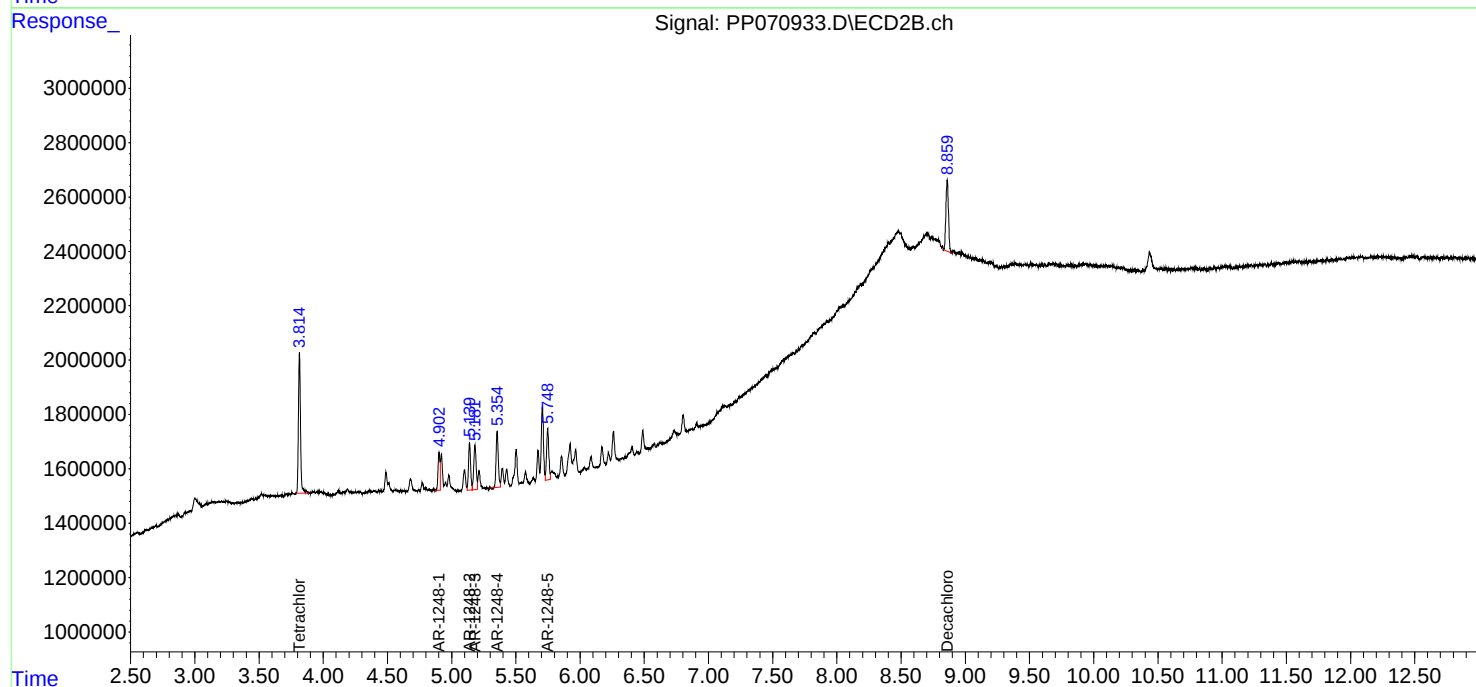
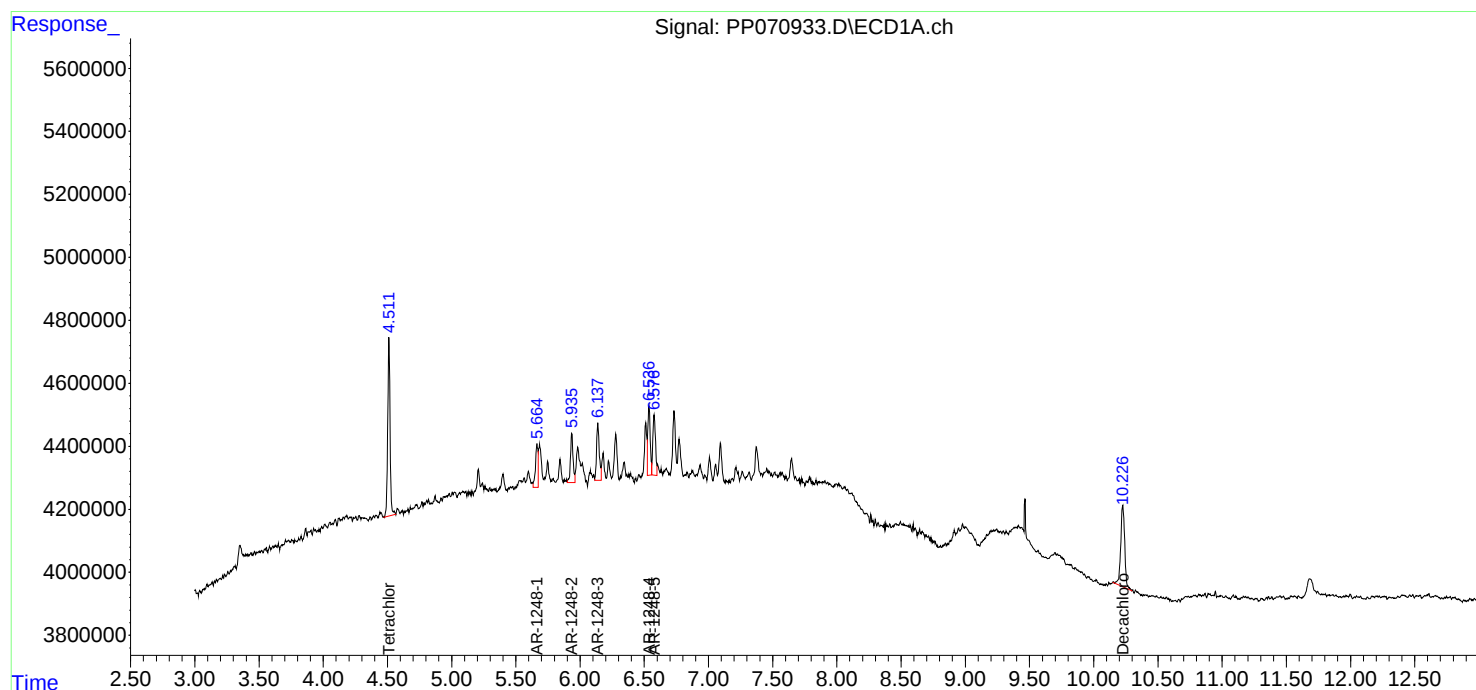
Instrument :
ECD_P
ClientSampleId :
AR1248ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 15:16:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 15:04:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070934.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 15:11
 Operator : YP\AJ
 Sample : AR1254ICC1000
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC1000

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 16:19:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 16:07:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	150.1E6	104.3E6	95.275	94.048
2) SA Decachlor...	10.231	8.860	109.5E6	78348381	93.754	86.018
Target Compounds						
26) L6 AR-1254-1	6.516	5.709	60157506	58928147	918.830	891.736
27) L6 AR-1254-2	6.732	5.857	92838442	50145967	911.948	882.952
28) L6 AR-1254-3	7.095	6.261	92334650	77448562	928.765	882.456
29) L6 AR-1254-4	7.379	6.490	84238161	49998215	970.458	893.353
30) L6 AR-1254-5	7.792	6.908	74433164	65979008	920.580m	918.596

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070934.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 15:11
Operator : YP\AJ
Sample : AR1254ICC1000
Misc :
ALS Vial : 20 Sample Multiplier: 1

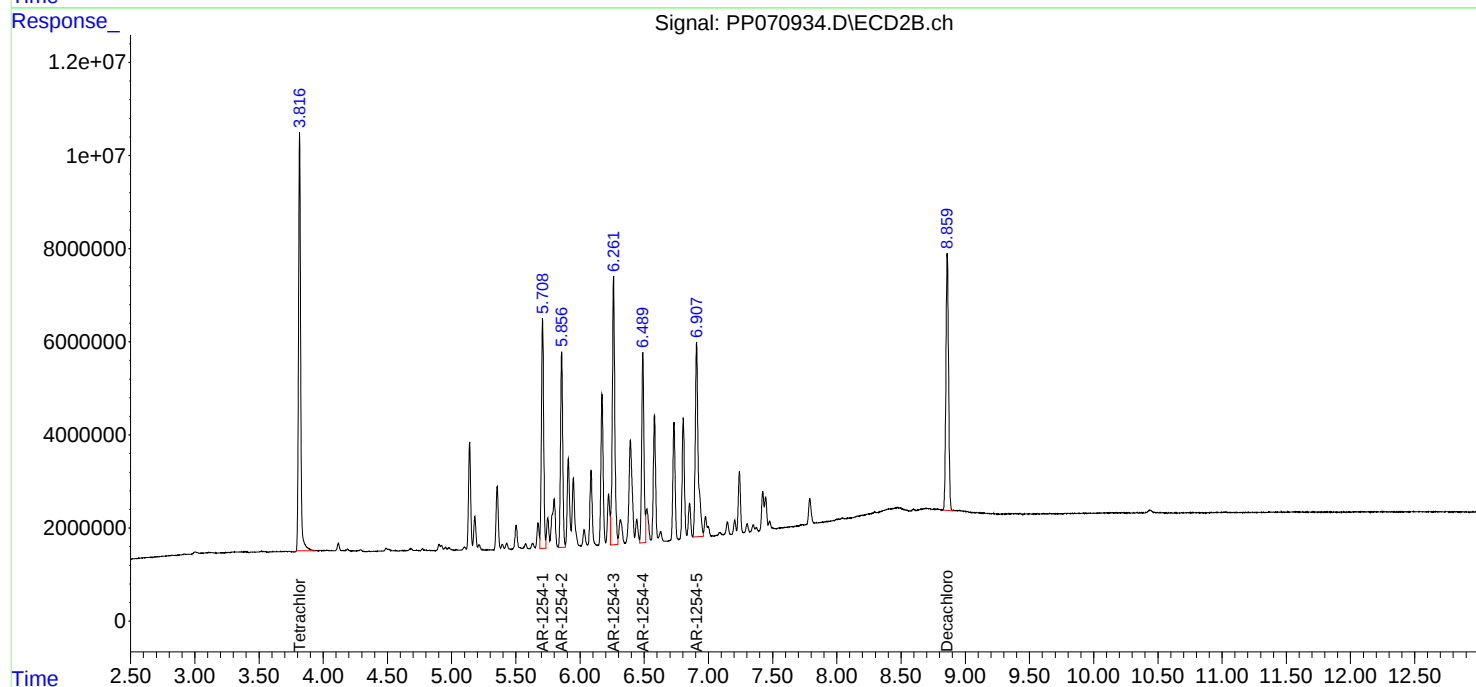
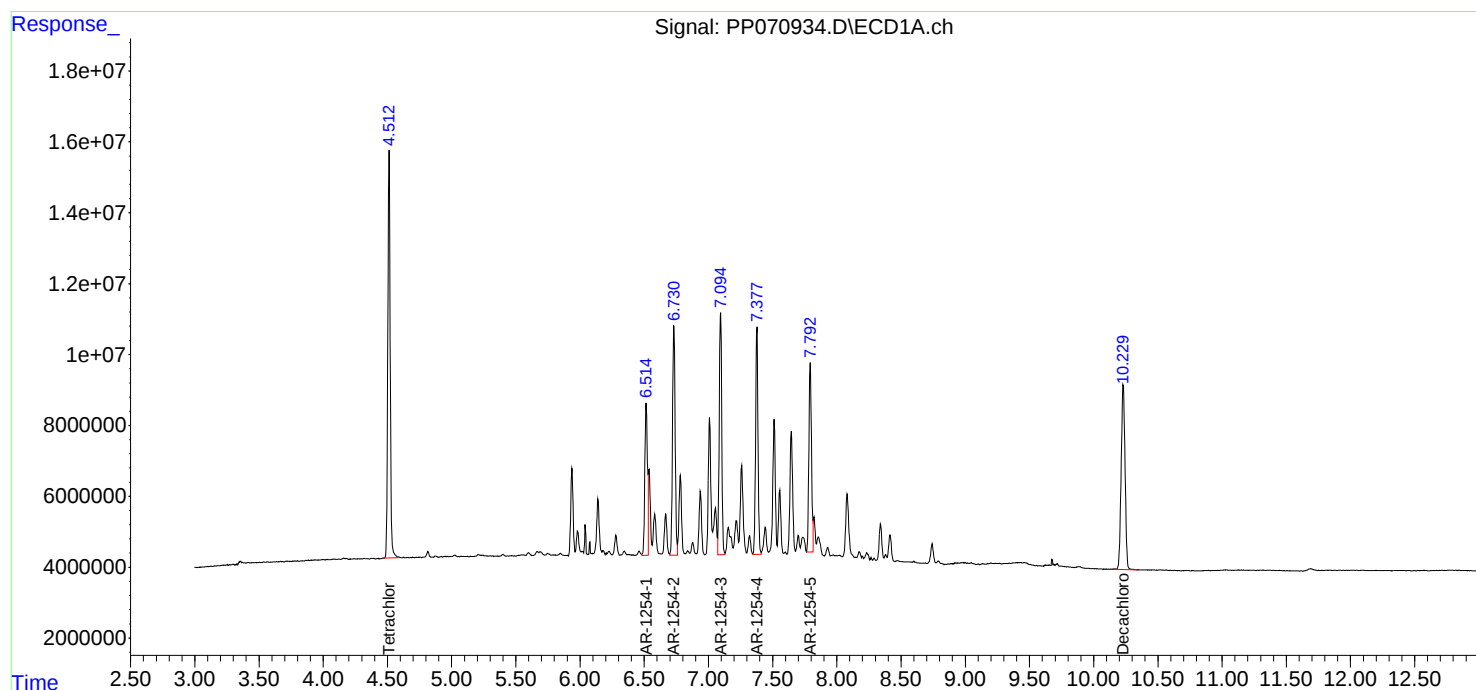
Instrument :
ECD_P
ClientSampleId :
AR1254ICC1000

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 16:19:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 16:07:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 15:27
 Operator : YP\AJ
 Sample : AR1254ICC750
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC750

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 16:19:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 16:07:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	116.3E6	81865229	73.835	73.847
2) SA Decachlor...	10.228	8.859	85851924	59713645	73.477	65.559
Target Compounds						
26) L6 AR-1254-1	6.515	5.708	47300573	46349687	722.456	701.391
27) L6 AR-1254-2	6.731	5.856	72785411	40339655	714.968	710.286
28) L6 AR-1254-3	7.094	6.260	73541603	62731680	739.732	714.771
29) L6 AR-1254-4	7.377	6.490	65835410	40961211	758.451	731.883
30) L6 AR-1254-5	7.792	6.907	59278726	53519032	733.152m	745.122

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070935.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 15:27
Operator : YP\AJ
Sample : AR1254ICC750
Misc :
ALS Vial : 21 Sample Multiplier: 1

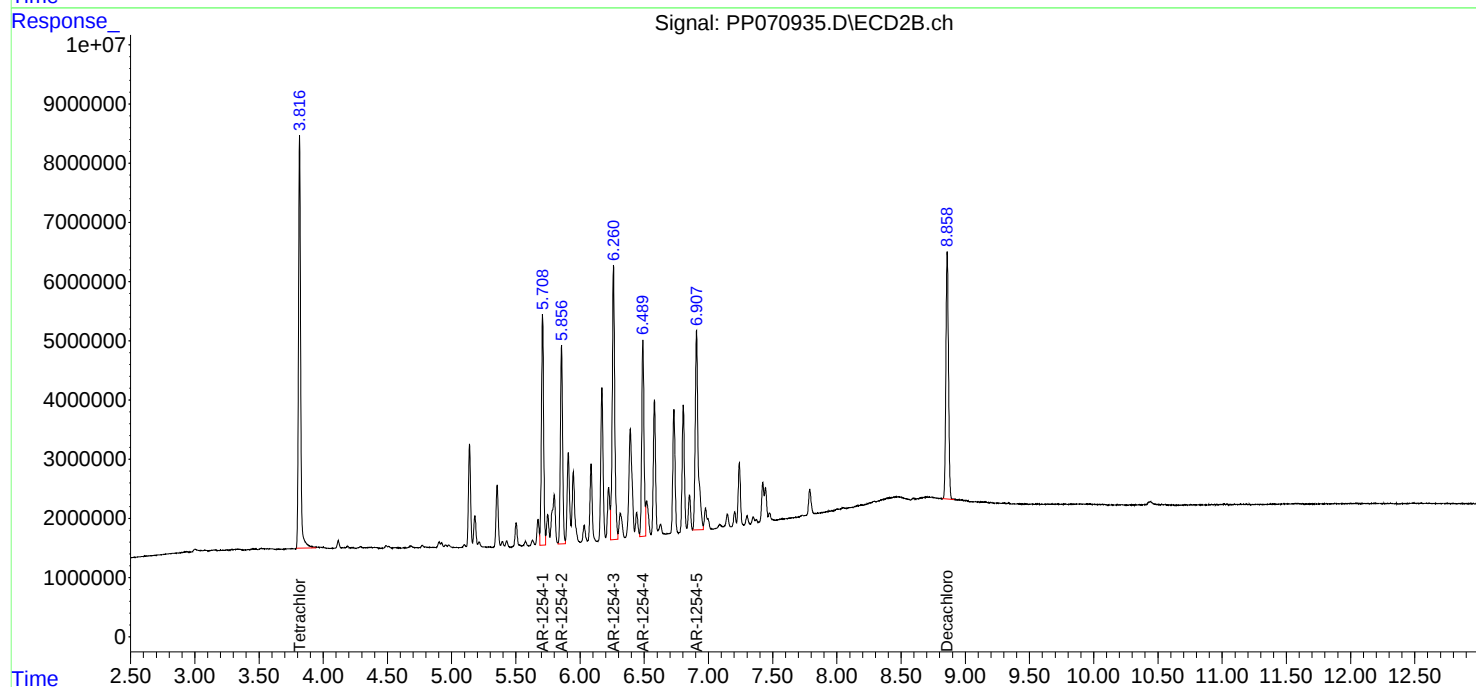
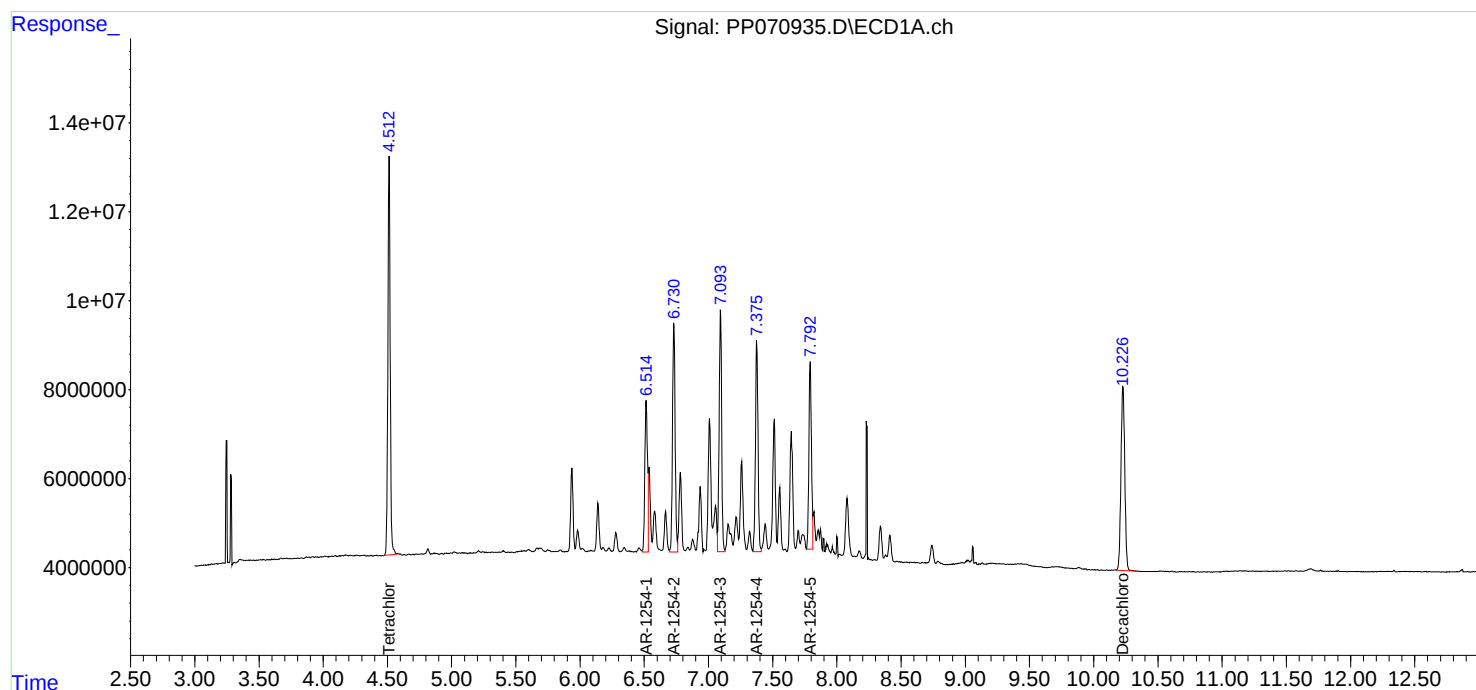
Instrument :
ECD_P
ClientSampleId :
AR1254ICC750

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 16:19:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 16:07:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 15:43
 Operator : YP\AJ
 Sample : AR1254ICC500
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 16:19:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 16:07:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	78787321	55428912	50.000	50.000
2) SA Decachlor...	10.230	8.859	58420861	45541627	50.000	50.000
Target Compounds						
26) L6 AR-1254-1	6.515	5.708	32735943	33041243	500.000	500.000
27) L6 AR-1254-2	6.732	5.857	50901196	28396777	500.000	500.000
28) L6 AR-1254-3	7.095	6.260	49708277	43882389	500.000	500.000
29) L6 AR-1254-4	7.377	6.489	43401255	27983450	500.000	500.000
30) L6 AR-1254-5	7.793	6.907	40427325	35912948	500.000	500.000

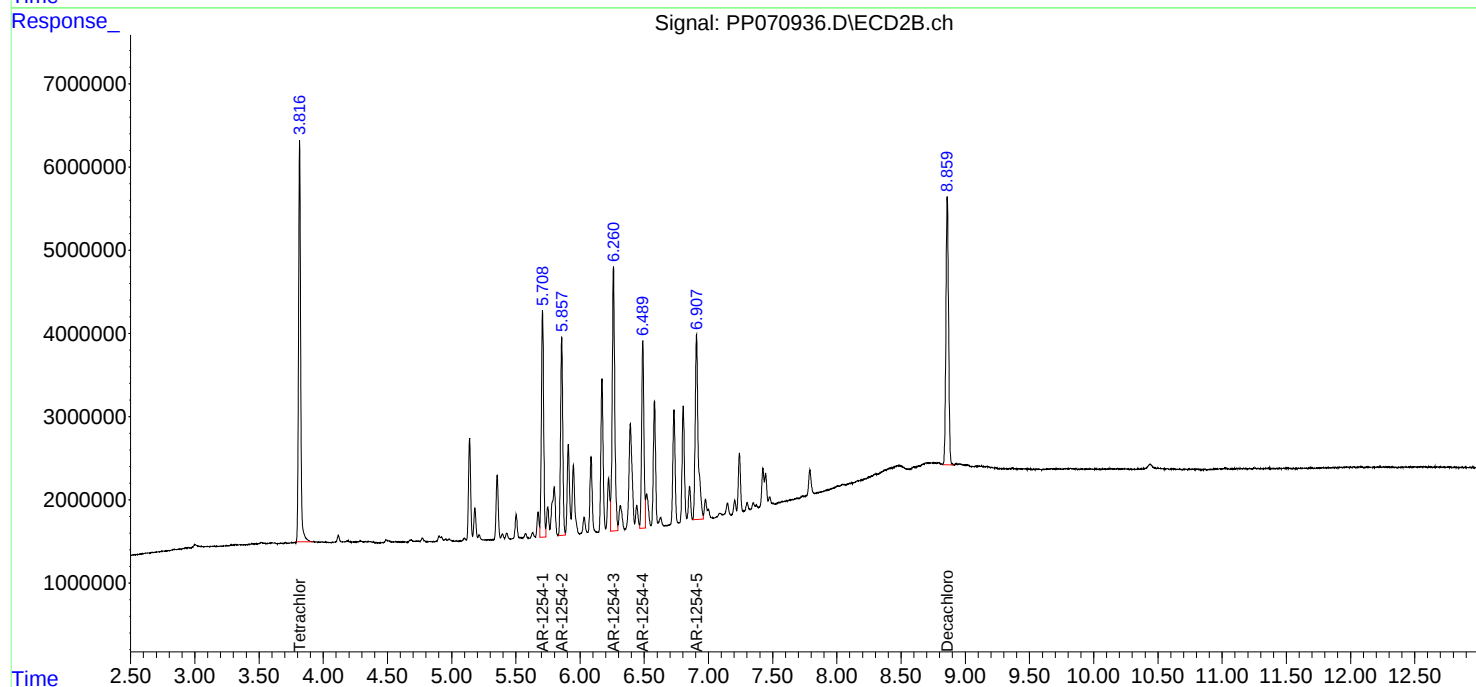
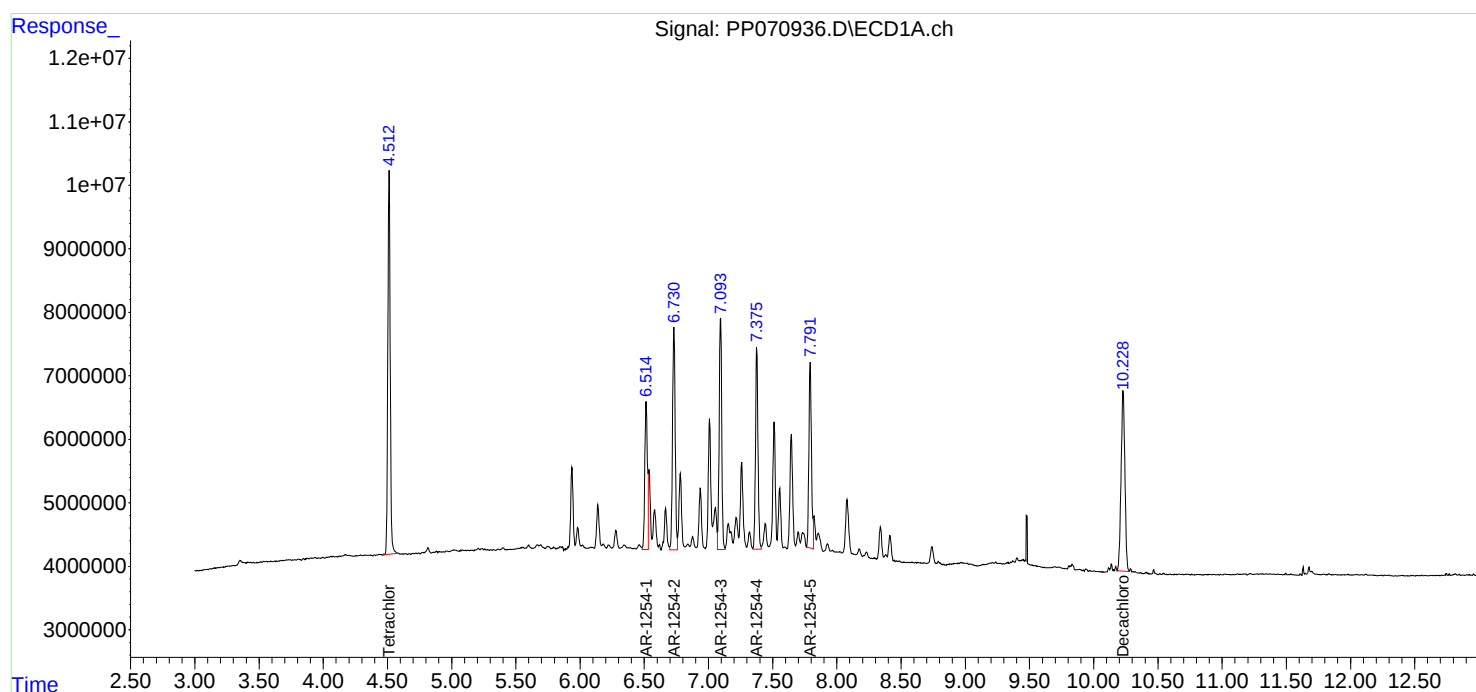
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070936.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 15:43
Operator : YP\AJ
Sample : AR1254ICC500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1254ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 16:19:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 16:07:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 16:00
 Operator : YP\AJ
 Sample : AR1254ICC250
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC250

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 16:20:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 16:07:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	40672603	29879101	25.812	26.953
2) SA Decachlor...	10.230	8.859	29858259	21257096	25.554	23.338
Target Compounds						
26) L6 AR-1254-1	6.516	5.708	16701604	18446961	255.096	279.151
27) L6 AR-1254-2	6.732	5.856	26389026	16008677	259.218	281.875
28) L6 AR-1254-3	7.095	6.260	25960285	24772594	261.126	282.261
29) L6 AR-1254-4	7.377	6.489	22197209	16043587	255.721	286.662
30) L6 AR-1254-5	7.791	6.907	20989646	20606411	259.597m	286.894

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070937.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 16:00
Operator : YP\AJ
Sample : AR1254ICC250
Misc :
ALS Vial : 23 Sample Multiplier: 1

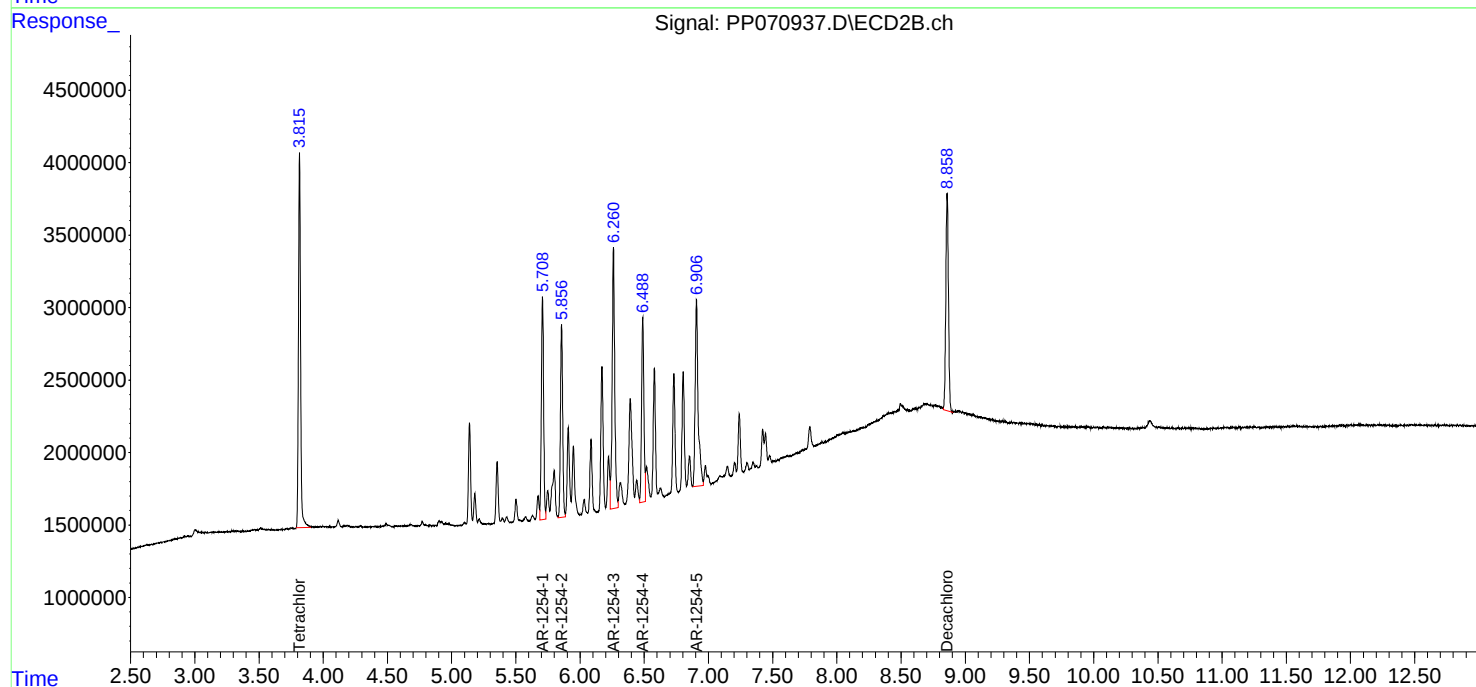
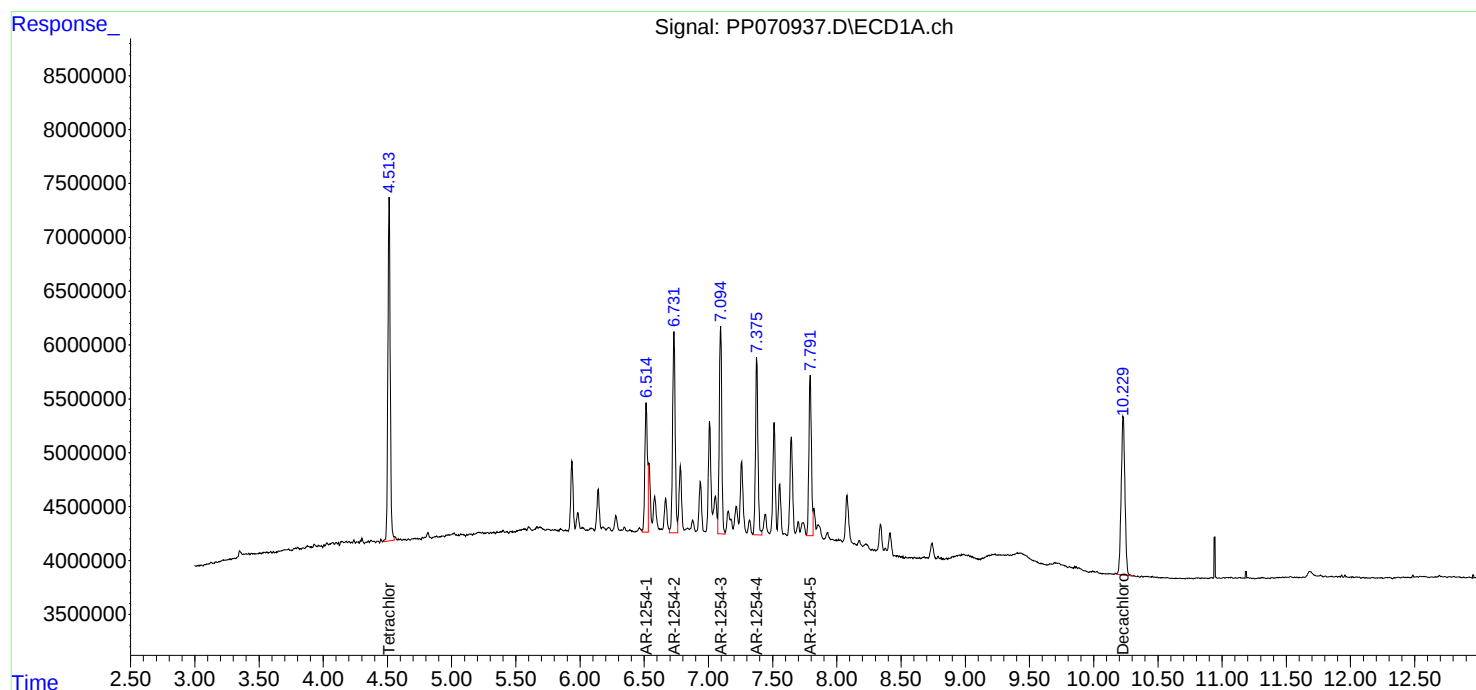
Instrument :
ECD_P
ClientSampleId :
AR1254ICC250

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 16:20:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 16:07:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 16:16
 Operator : YP\AJ
 Sample : AR1254ICC050
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 16:35:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 16:07:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.816	6508593	5336776	4.107	4.715
2) SA Decachlor...	10.232	8.861	5177583	3796388	4.429	4.454
Target Compounds						
26) L6 AR-1254-1	6.516	5.708	3322396	3474548	51.023	51.687
27) L6 AR-1254-2	6.733	5.857	5410437	3036515	53.321	52.169
28) L6 AR-1254-3	7.096	6.261	5249564	4313044	52.267	47.835
29) L6 AR-1254-4	7.378	6.490	4268685	2787399	48.623	47.851
30) L6 AR-1254-5	7.794	6.907	4173507	3458194	51.345	45.985

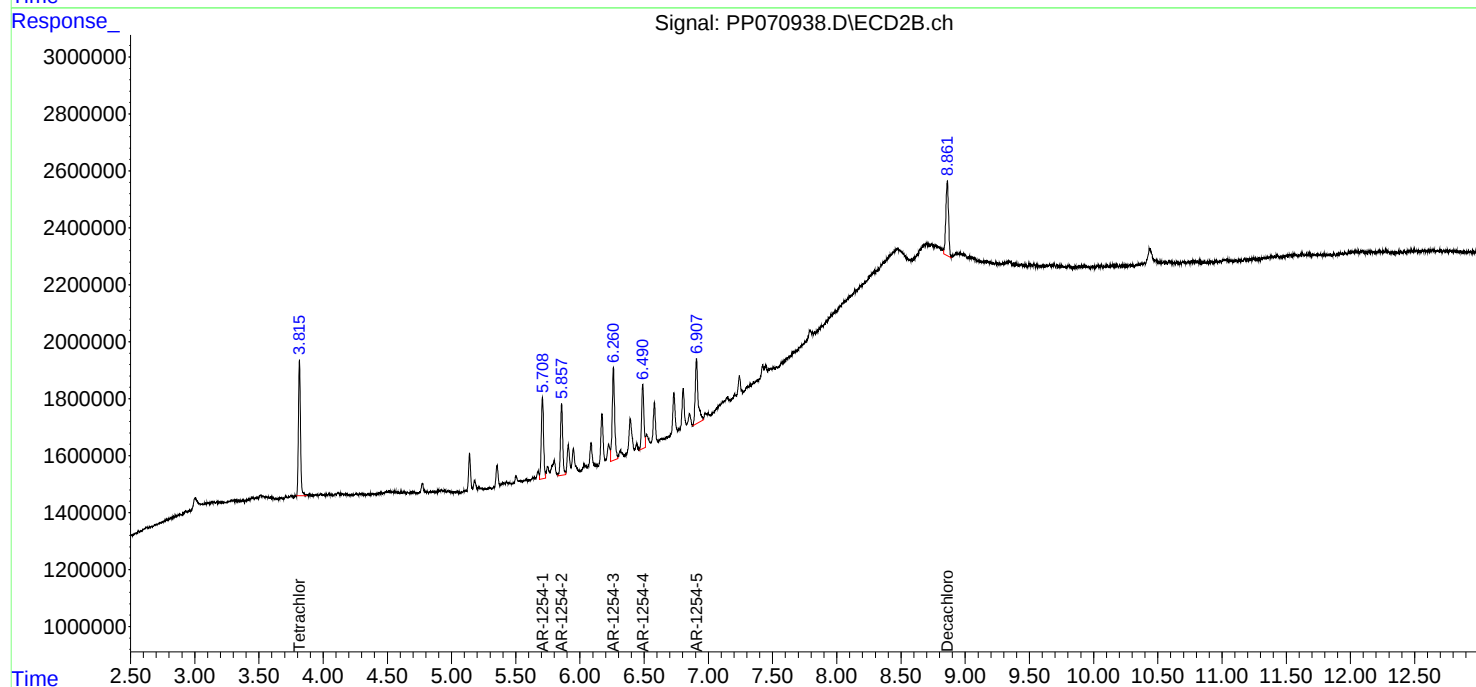
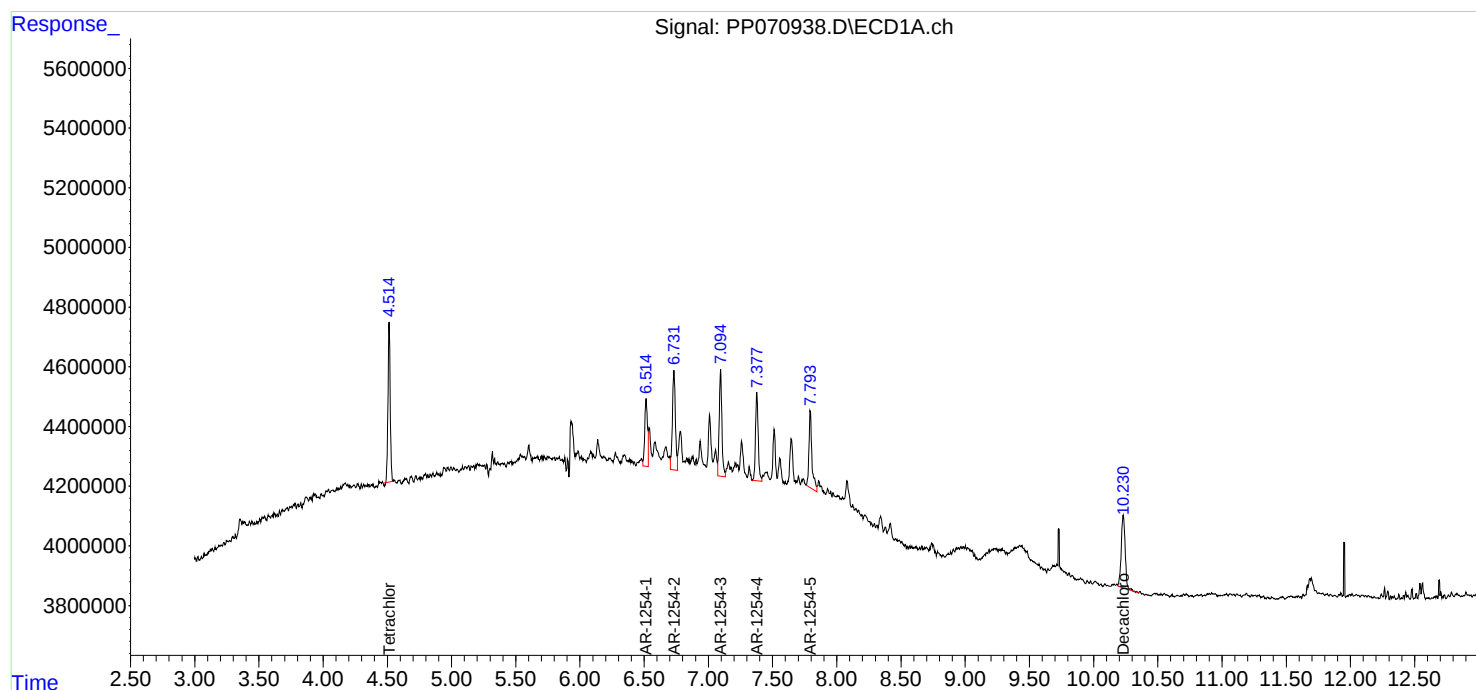
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 16:16
Operator : YP\AJ
Sample : AR1254ICC050
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1254ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 16:35:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 16:07:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070939.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 16:32
 Operator : YP\AJ
 Sample : AR1262ICC500
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1262ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 17:04:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:04:14 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.512	3.816	78302128	53762587	50.000	50.000
2) SA Decachlor...	10.226	8.859	57984668	42902548	50.000	50.000
Target Compounds						
36) L8 AR-1262-1	8.093	6.945	53150122	42781773	500.000	500.000
37) L8 AR-1262-2	8.412	7.205	99191436	34232243	500.000	500.000
38) L8 AR-1262-3	8.729	7.729	65870896	30361758	500.000	500.000
39) L8 AR-1262-4	8.817	7.793	47807443	49703360	500.000	500.000
40) L8 AR-1262-5	9.469	8.294	32533206	23435811	500.000	500.000

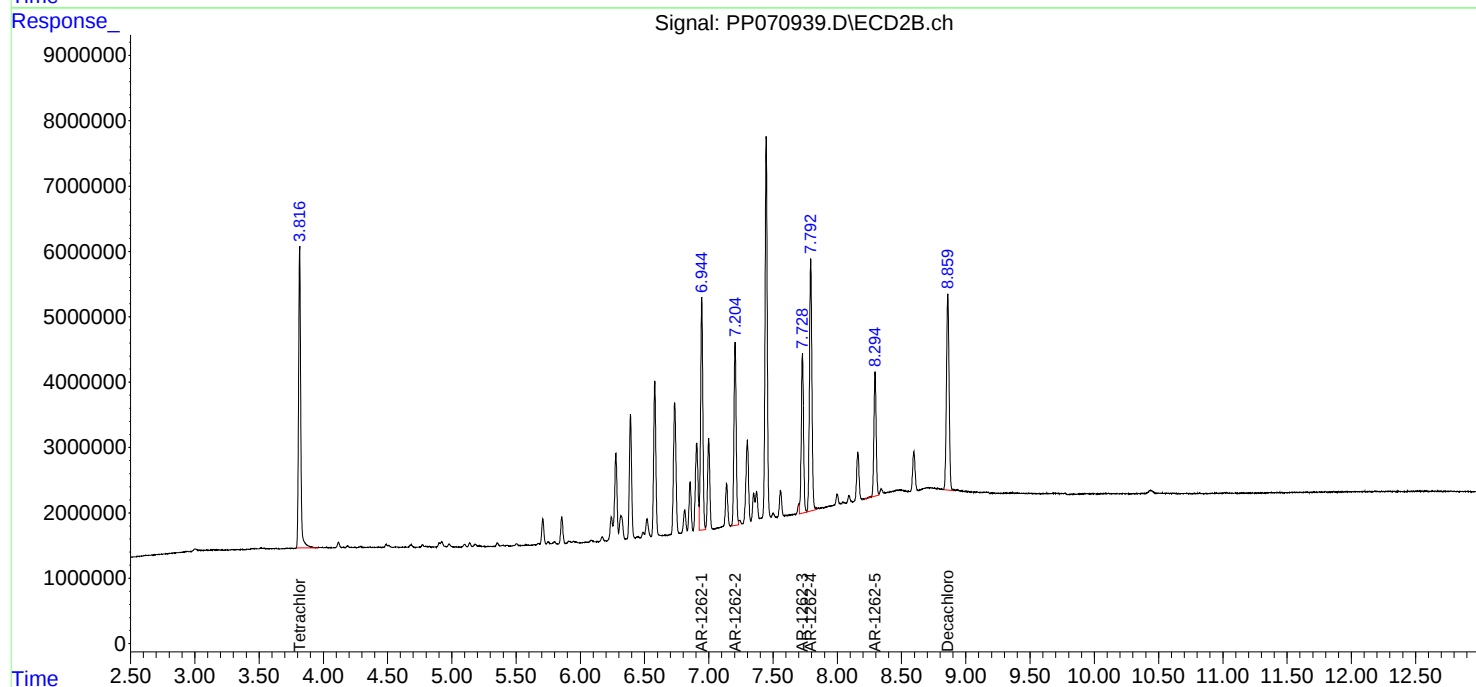
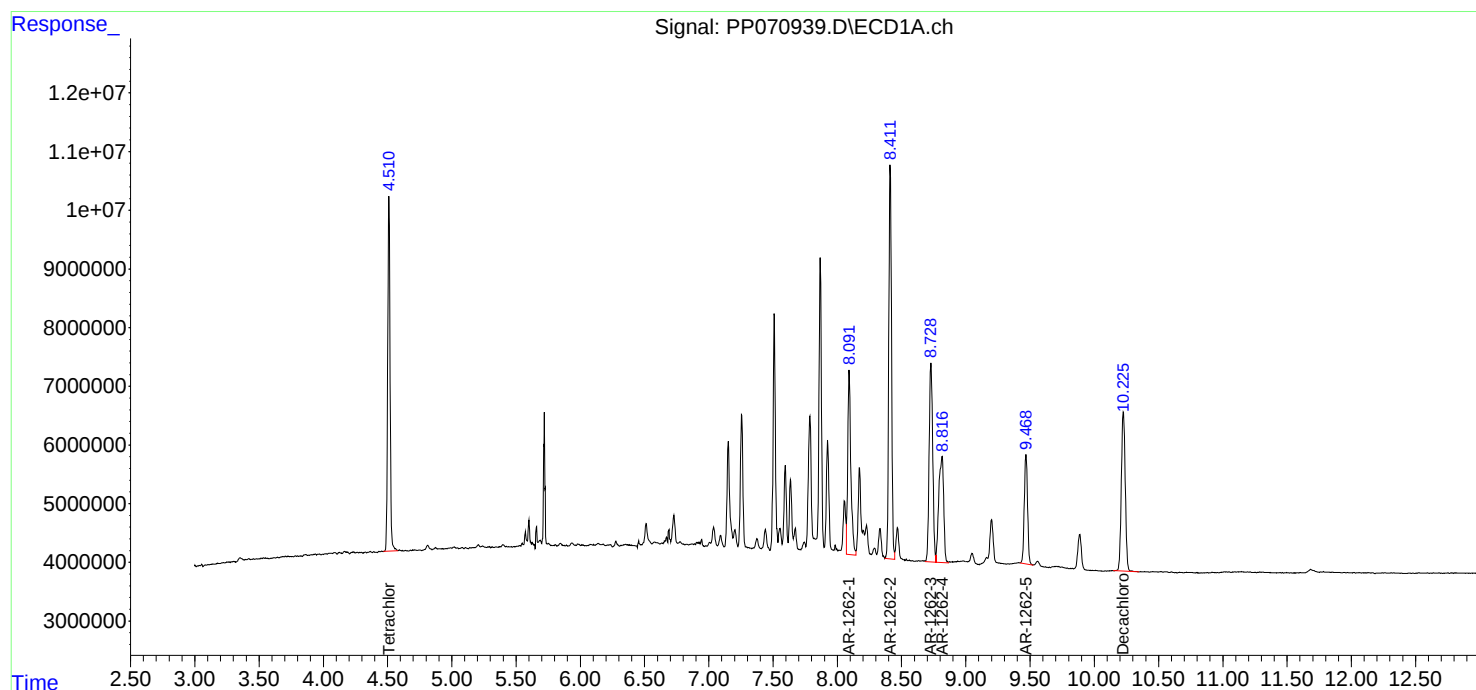
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070939.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 16:32
Operator : YP\AJ
Sample : AR1262ICC500
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1262ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 17:04:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:04:14 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070940.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 16:48
 Operator : YP\AJ
 Sample : AR1268ICC1000
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC1000

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 17:58:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:56:10 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.817	152.3E6	105.1E6	94.769	94.009
2) SA Decachlor...	10.232	8.860	195.7E6	148.5E6	93.377	94.968
Target Compounds						
41) L9 AR-1268-1	8.730	7.729	226.6E6	165.4E6	945.404	946.509m
42) L9 AR-1268-2	8.824	7.795	190.4E6	137.8E6	950.797	945.407
43) L9 AR-1268-3	9.056	8.001	163.6E6	120.1E6	940.749	965.766
44) L9 AR-1268-4	9.474	8.295	70377008	51096977	960.945	957.859
45) L9 AR-1268-5	9.891	8.596	459.6E6	357.1E6	952.414	962.556

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070940.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 16:48
Operator : YP\AJ
Sample : AR1268ICC1000
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :

ECD_P

ClientSampleId :

AR1268ICC1000

Manual Integrations

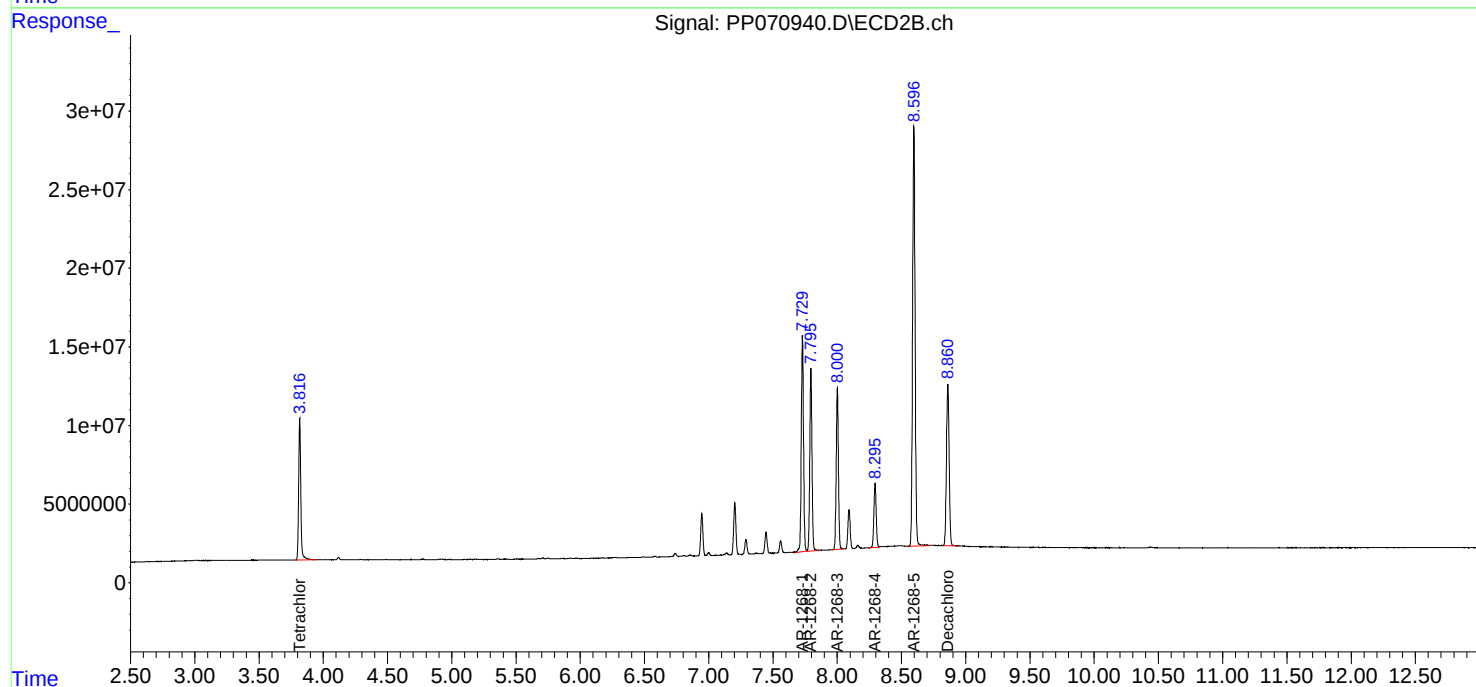
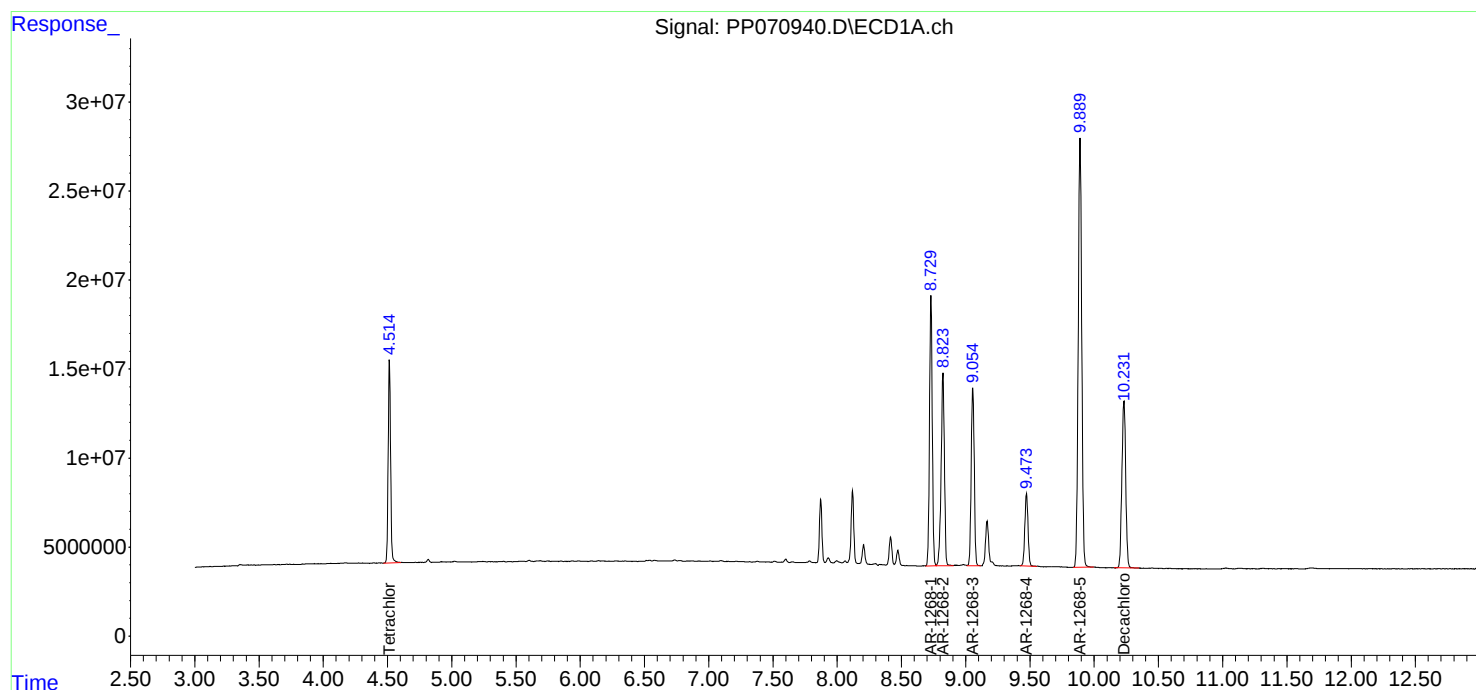
APPROVED

Reviewed By :Yogesh Patel 03/28/2025

Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 17:58:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:56:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 17:05
 Operator : YP\AJ
 Sample : AR1268ICC750
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC750

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 17:58:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:56:10 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.817	119.6E6	83914927	74.397	75.039
2) SA Decachlor...	10.230	8.861	154.1E6	118.4E6	73.551	75.751
Target Compounds						
41) L9 AR-1268-1	8.730	7.729	178.4E6	131.7E6	744.578	753.609m
42) L9 AR-1268-2	8.823	7.795	149.2E6	110.8E6	745.140	760.189
43) L9 AR-1268-3	9.055	8.000	128.8E6	95630424	740.439	768.788
44) L9 AR-1268-4	9.473	8.294	55249435	40878954	754.389	766.313
45) L9 AR-1268-5	9.890	8.596	361.2E6	282.2E6	748.577	760.668

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070941.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 17:05
Operator : YP\AJ
Sample : AR1268ICC750
Misc :
ALS Vial : 27 Sample Multiplier: 1

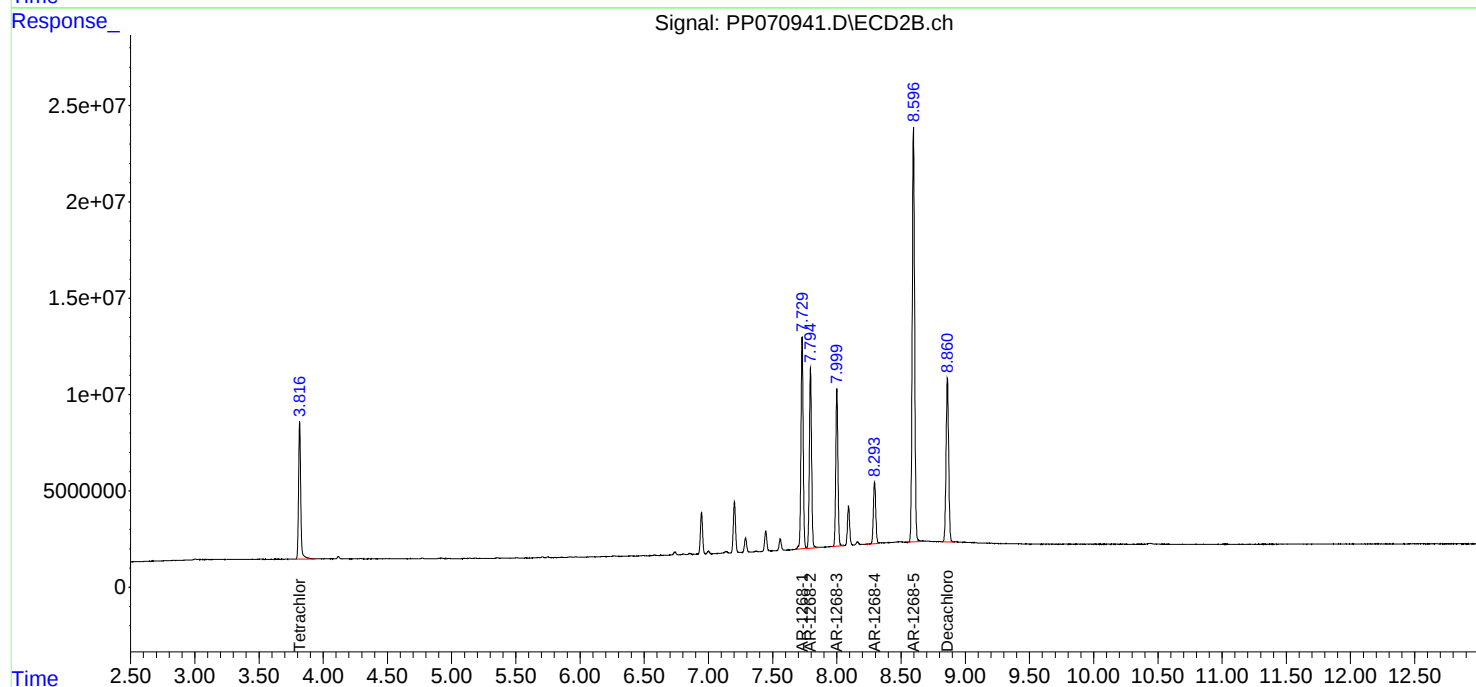
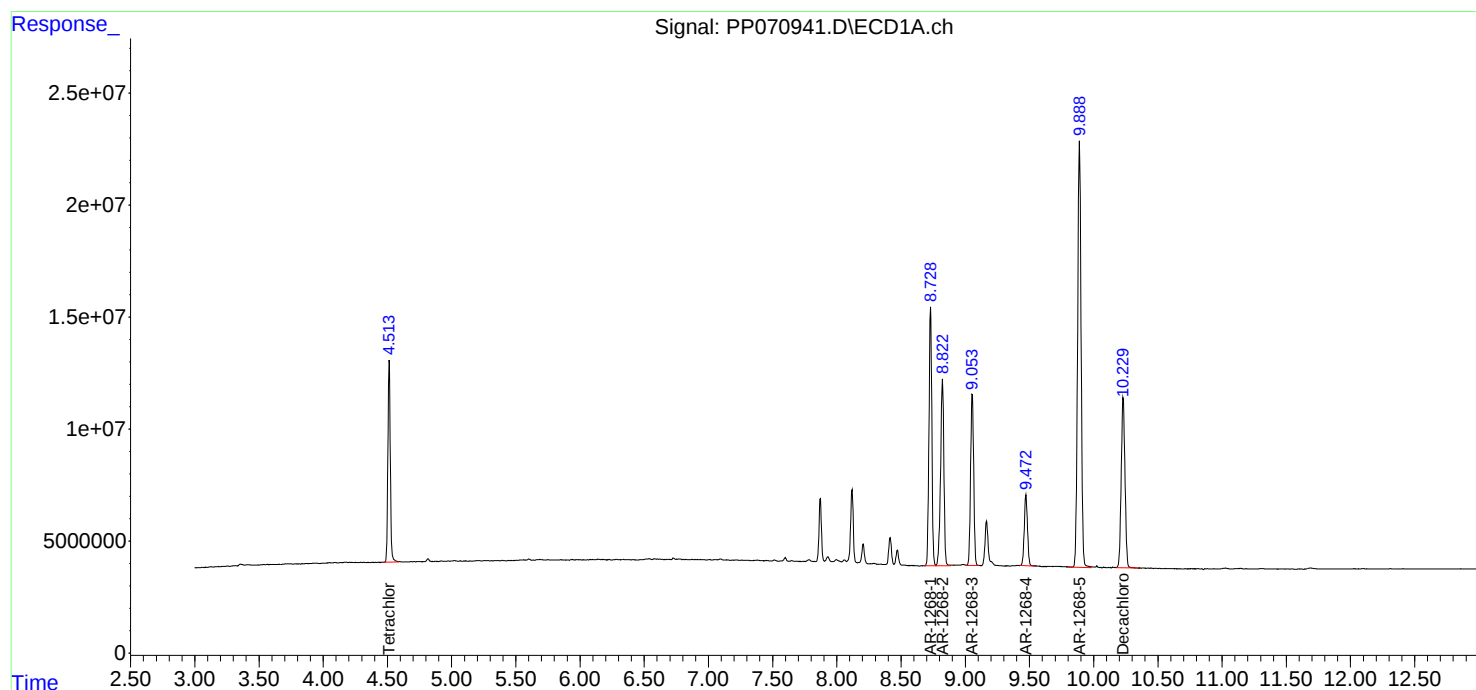
Instrument :
ECD_P
ClientSampleId :
AR1268ICC750

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 17:58:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:56:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070942.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 17:21
 Operator : YP\AJ
 Sample : AR1268ICC500
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC500

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 17:58:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:56:10 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	80378727	55914176	50.000	50.000
2) SA Decachlor...	10.230	8.860	104.8E6	78175161	50.000	50.000
Target Compounds						
41) L9 AR-1268-1	8.729	7.728	119.8E6	87376833	500.000	500.150m
42) L9 AR-1268-2	8.821	7.793	100.1E6	72879434	500.000	500.000
43) L9 AR-1268-3	9.053	8.000	86977678	62195601	500.000	500.000
44) L9 AR-1268-4	9.472	8.293	36618642	26672497	500.000	500.000
45) L9 AR-1268-5	9.888	8.596	241.3E6	185.5E6	500.000	500.000

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070942.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 17:21
Operator : YP\AJ
Sample : AR1268ICC500
Misc :
ALS Vial : 28 Sample Multiplier: 1

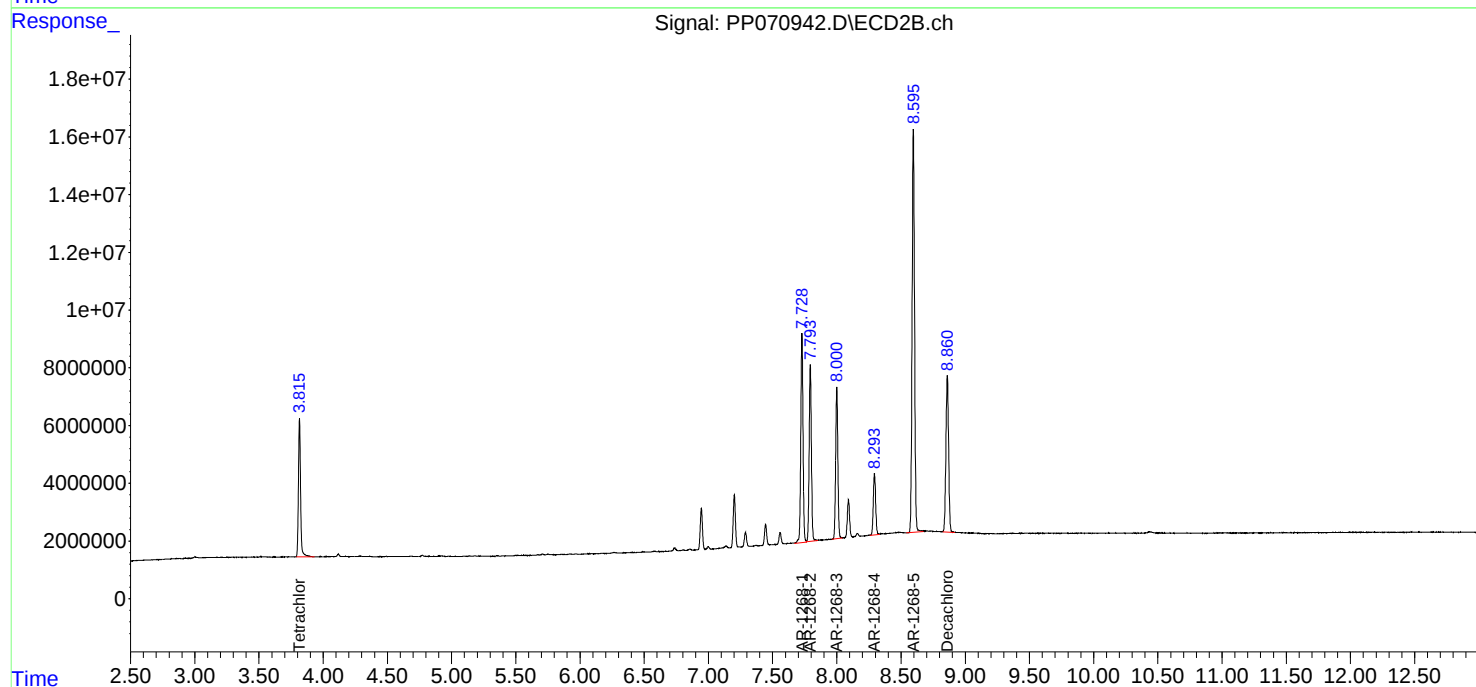
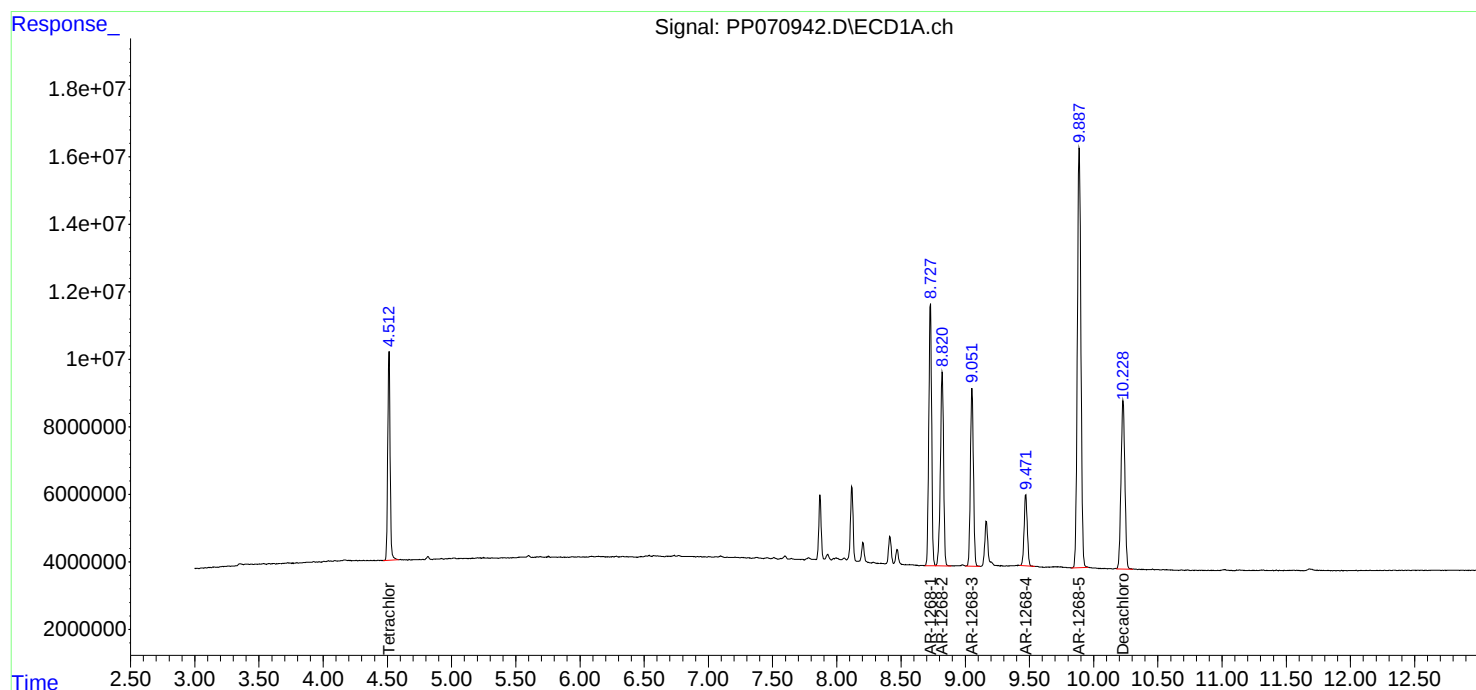
Instrument :
ECD_P
ClientSampleId :
AR1268ICC500

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 17:58:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:56:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070943.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 17:37
 Operator : YP\AJ
 Sample : AR1268ICC250
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC250

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 17:58:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:56:10 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.817	41125313	29588552	25.582	26.459
2) SA Decachlor...	10.232	8.859	54285349	40518249	25.902	25.915
Target Compounds						
41) L9 AR-1268-1	8.730	7.729	61973048	44233672	258.587	253.196m
42) L9 AR-1268-2	8.824	7.794	51237231	36694564	255.889	251.748
43) L9 AR-1268-3	9.055	8.000	44311644	31811936	254.730	255.741
44) L9 AR-1268-4	9.473	8.295	18700738	13922493	255.345	260.990
45) L9 AR-1268-5	9.890	8.596	124.6E6	91636186	258.260	247.031

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 17:37
Operator : YP\AJ
Sample : AR1268ICC250
Misc :
ALS Vial : 29 Sample Multiplier: 1

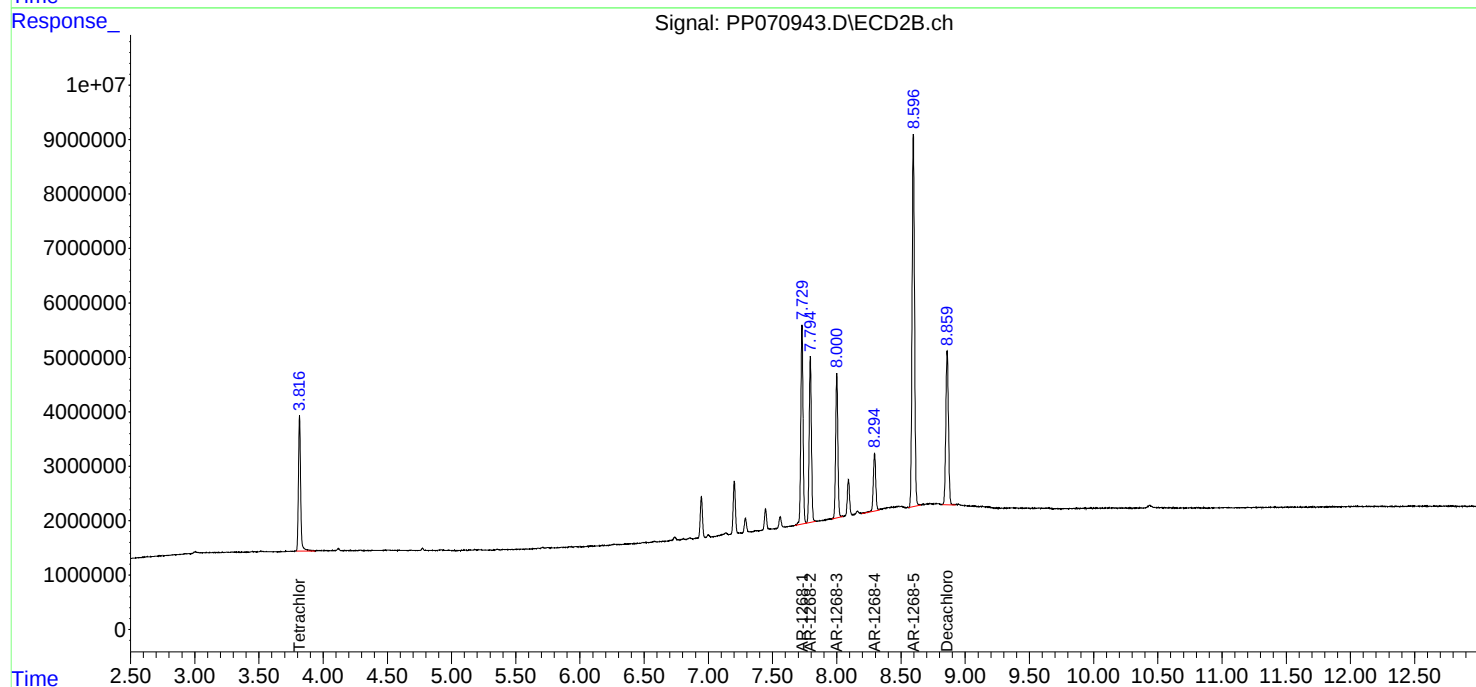
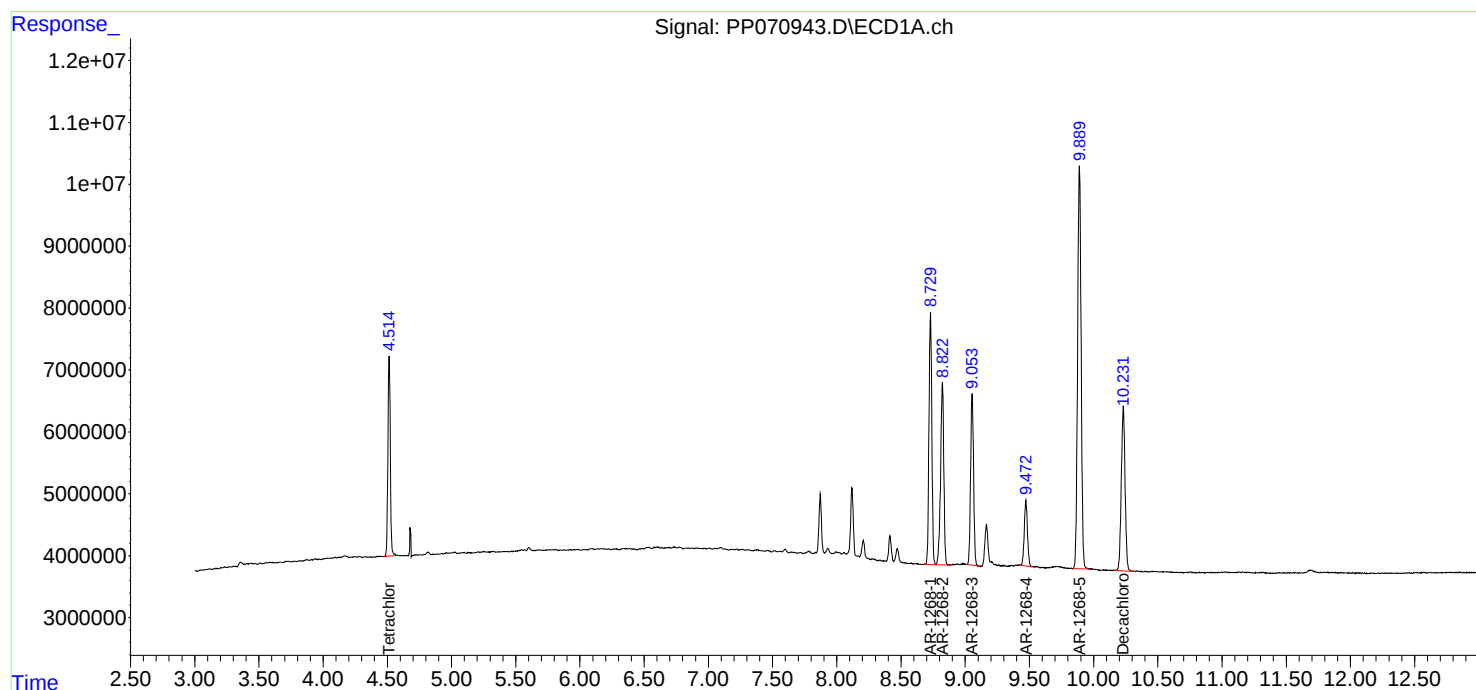
Instrument :
ECD_P
ClientSampleId :
AR1268ICC250

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 17:58:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:56:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070944.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 17:53
 Operator : YP\AJ
 Sample : AR1268ICC050
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 18:13:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 17:56:10 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	7200607	6304440	4.457m	5.529
2) SA Decachlor...	10.230	8.859	10035177	7161586	4.762	4.510
Target Compounds						
41) L9 AR-1268-1	8.729	7.728	11274140	8221191	46.621	46.780m
42) L9 AR-1268-2	8.822	7.794	9103995	6916833	45.210	47.131
43) L9 AR-1268-3	9.054	7.999	8398993	5823381	48.183	46.078
44) L9 AR-1268-4	9.471	8.293	3082639	2471433	41.712	45.336m
45) L9 AR-1268-5	9.889	8.596	22937830	16928167	47.050	45.599

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070944.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 17:53
Operator : YP\AJ
Sample : AR1268ICC050
Misc :
ALS Vial : 30 Sample Multiplier: 1

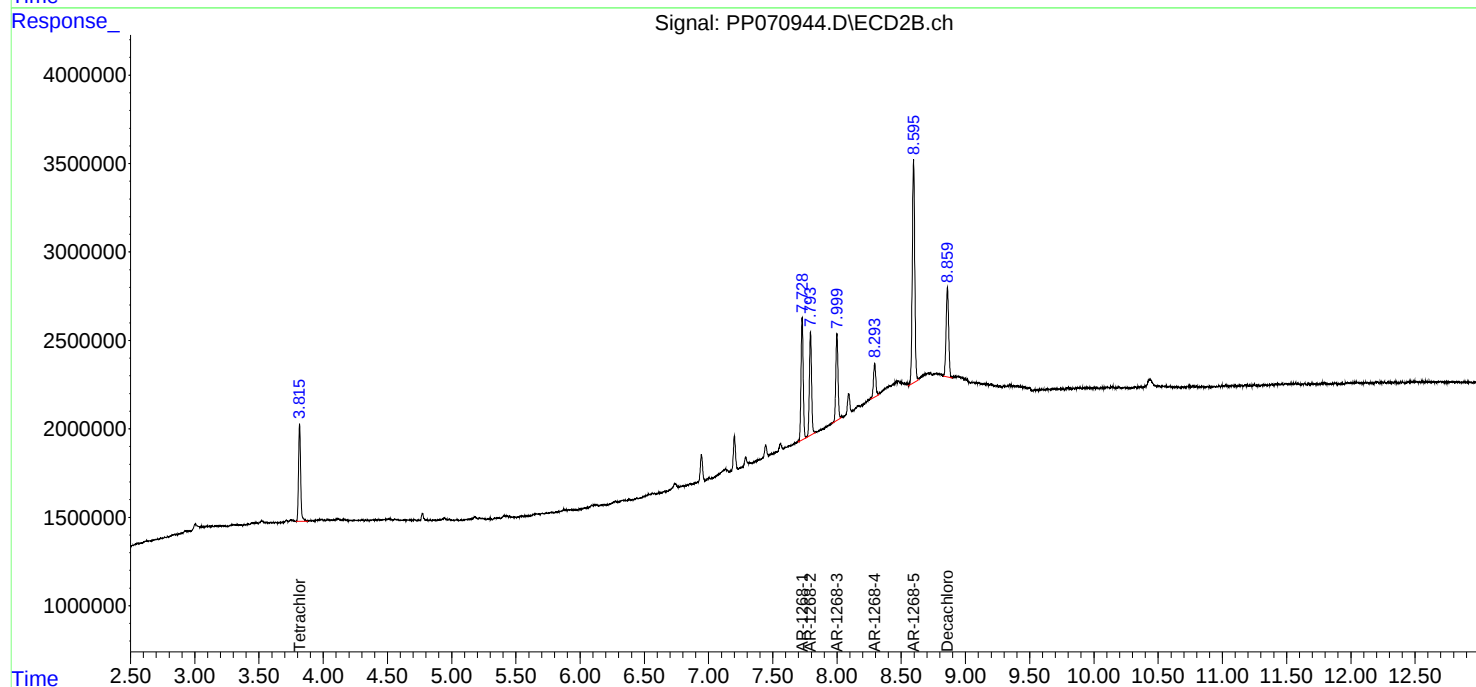
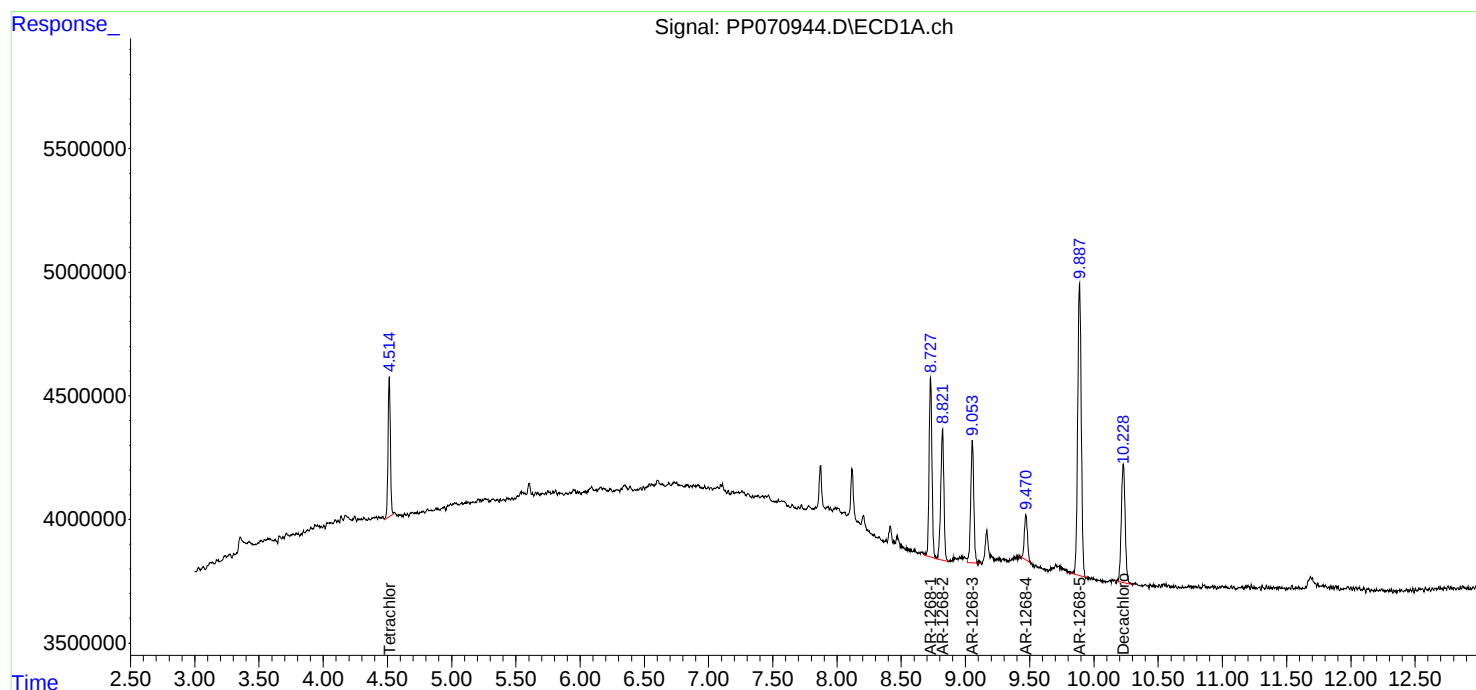
Instrument :
ECD_P
ClientSampleId :
AR1268ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 18:13:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 17:56:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070945.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 18:26
 Operator : YP\AJ
 Sample : PP032725ICV500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP032725

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 18:44:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 18:19:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.817	83053328	55050464	56.825	53.105
2) SA Decachlor...	10.229	8.860	60452615	44643396	57.431	56.640
Target Compounds						
3) L1 AR-1016-1	5.666	4.904	27342824	21140954	537.702	527.361
4) L1 AR-1016-2	5.688	4.923	41229999	30414011	528.227	525.602
5) L1 AR-1016-3	5.750	5.100	25160452	16688586	533.347	539.677
6) L1 AR-1016-4	5.847	5.141	20613627	13786307	560.828	566.035
7) L1 AR-1016-5	6.140	5.356	19310102	17090774	569.416	528.779
31) L7 AR-1260-1	7.259	6.392	37489891	28161151	558.277	549.955
32) L7 AR-1260-2	7.512	6.580	54825330	35718929	570.287	559.912
33) L7 AR-1260-3	7.871	6.734	45118892	30750809	564.563	564.371
34) L7 AR-1260-4	8.095	7.206	41972897	25791995	533.078	539.285
35) L7 AR-1260-5	8.414	7.447	87345749	64063663	549.738	514.525

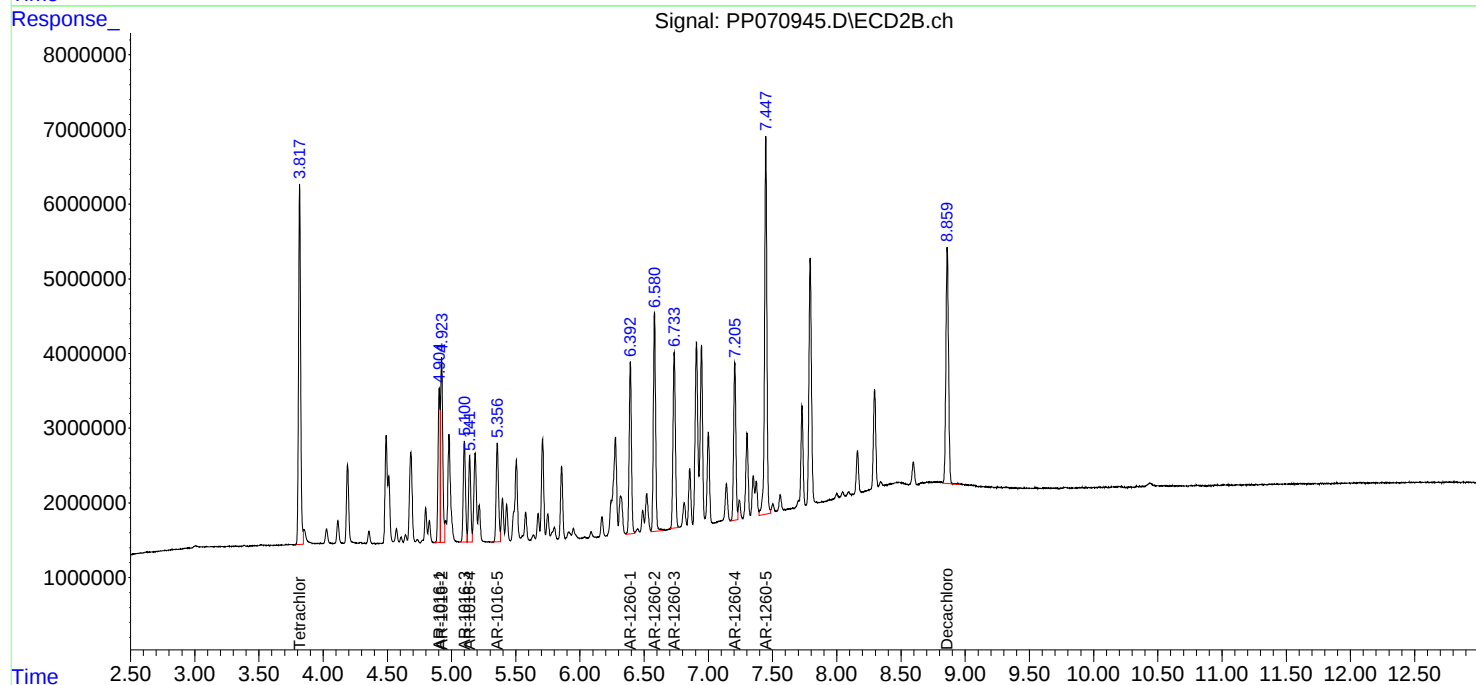
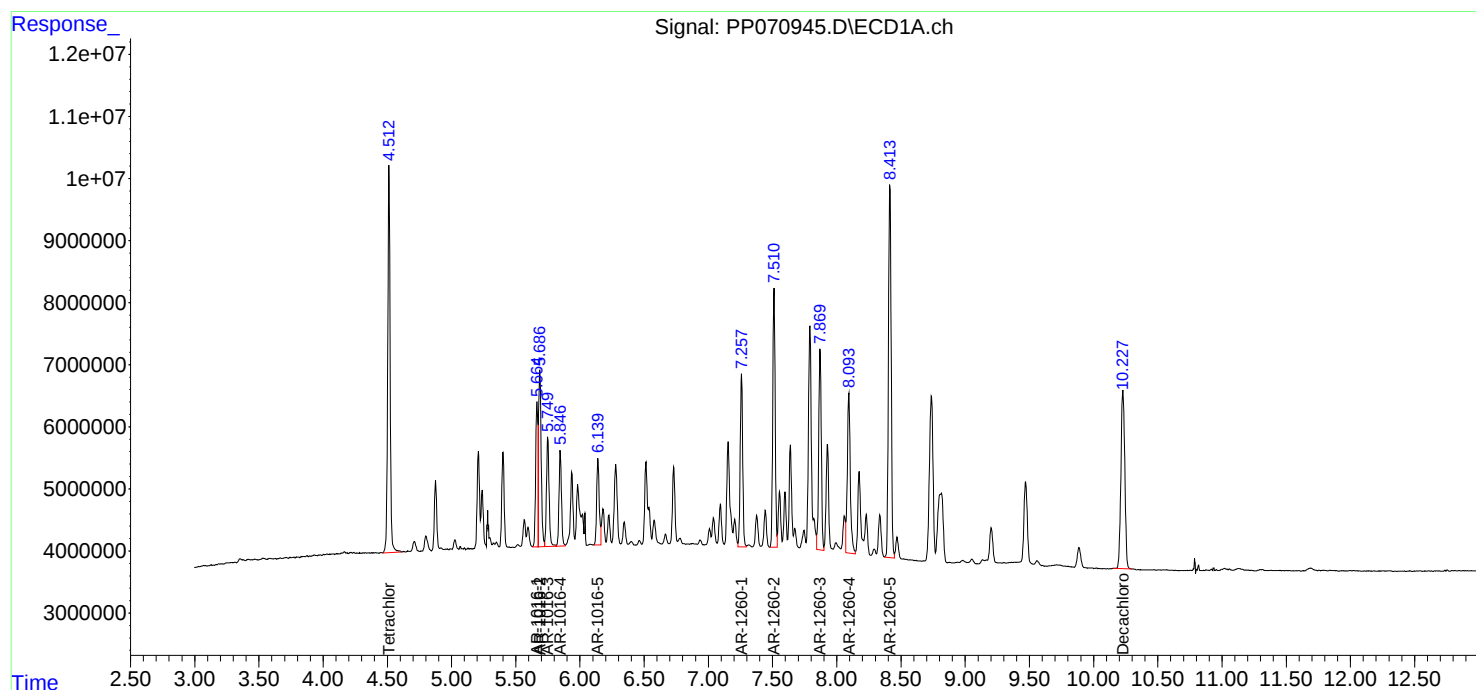
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070945.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 18:26
Operator : YP\AJ
Sample : PP032725ICV500
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP032725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 18:44:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 18:19:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070946.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 18:42
 Operator : YP\AJ
 Sample : AR1242ICV500
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP032725AR1242

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 19:00:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 18:58:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.816	78786041	55016883	53.357	51.300
2) SA Decachlor...	10.230	8.859	57489647	39612860	53.073	51.065
Target Compounds						
16) L4 AR-1242-1	5.667	4.904	21998453	17657296	500.225	516.358
17) L4 AR-1242-2	5.689	4.922	33746674	24829266	524.698	504.069
18) L4 AR-1242-3	5.752	5.099	20359598	13889595	496.098	521.298
19) L4 AR-1242-4	5.849	5.183	16580558	13666228	543.209	518.087
20) L4 AR-1242-5	6.580	5.708	19203834	15992906	525.982	516.595

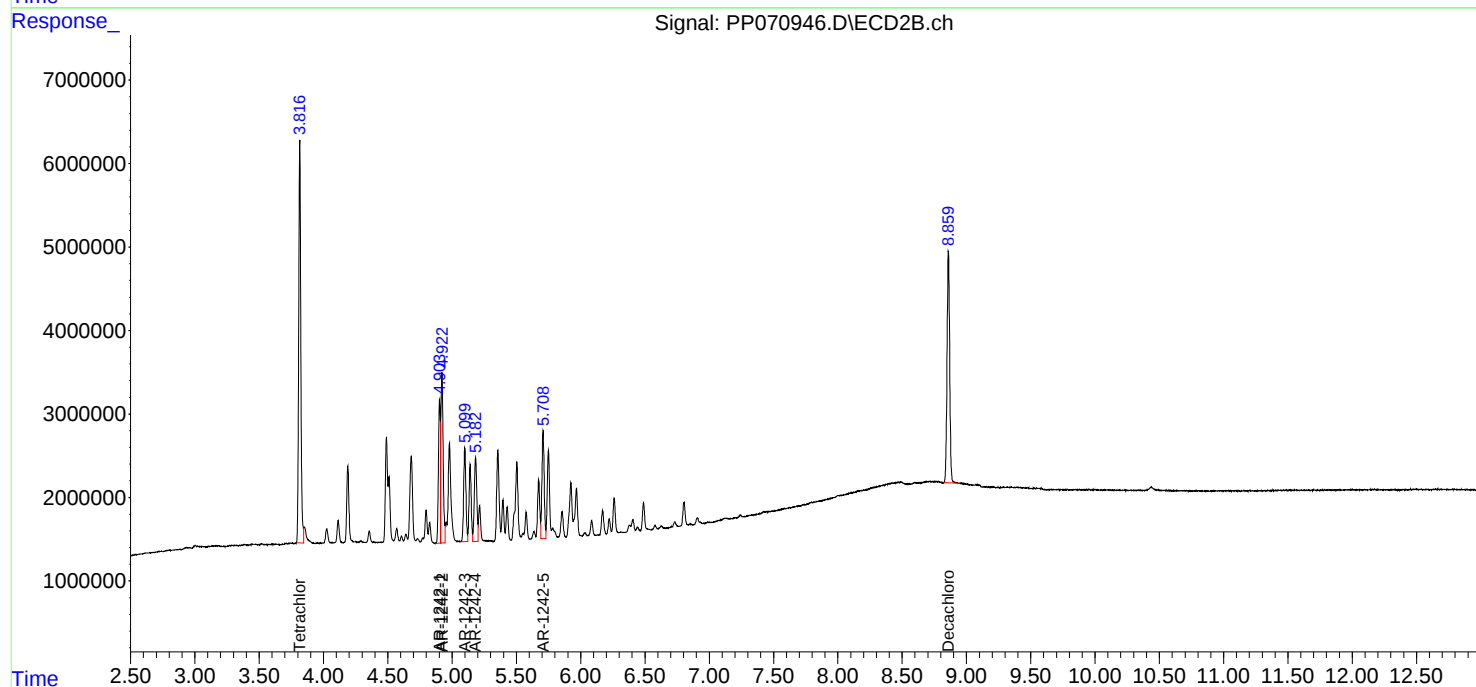
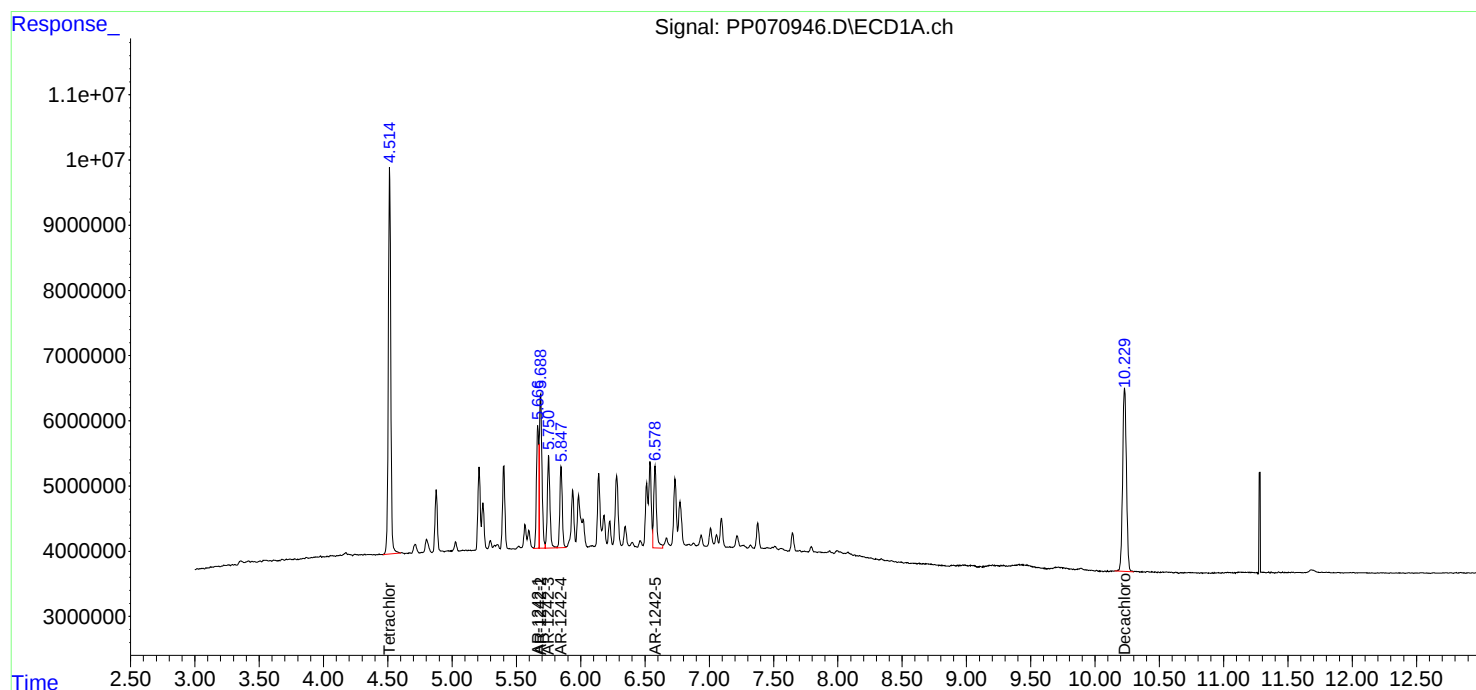
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070946.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 18:42
Operator : YP\AJ
Sample : AR1242ICV500
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP032725AR1242

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 19:00:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 18:58:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070947.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 19:15
 Operator : YP\AJ
 Sample : AR1248ICV500
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP032725AR1248

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 27 19:34:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Mar 27 19:07:15 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.817	80868018	57291573	53.345	52.976
2) SA Decachlor...	10.229	8.860	60625729	42784323	53.381	54.139
Target Compounds						
21) L5 AR-1248-1	5.666	4.904	17556753	15279017	483.824	564.218
22) L5 AR-1248-2	5.937	5.141	24046455	20552003	535.096	559.658
23) L5 AR-1248-3	6.140	5.183	26863901	21355068	530.514	552.390
24) L5 AR-1248-4	6.539	5.356	33592146	24182903	523.670	535.719
25) L5 AR-1248-5	6.578	5.750	32500443	22380961	534.140	524.405

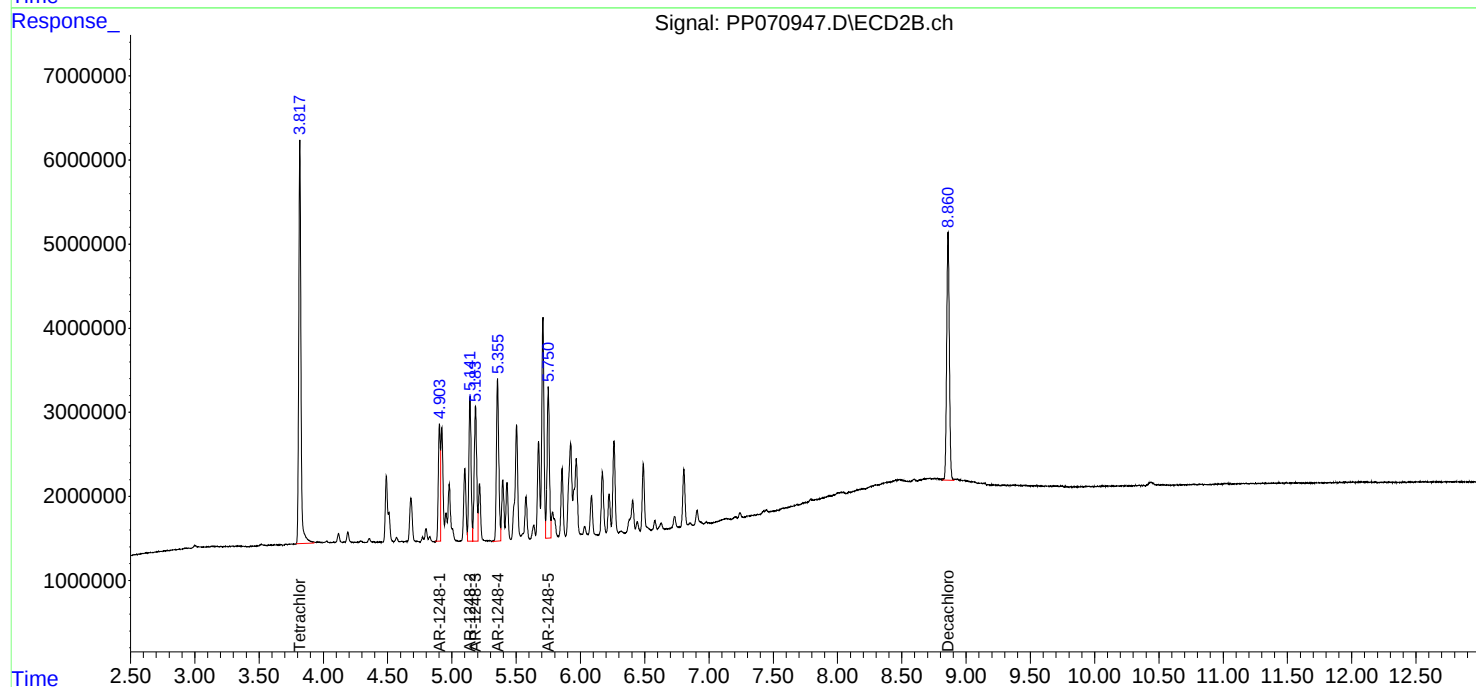
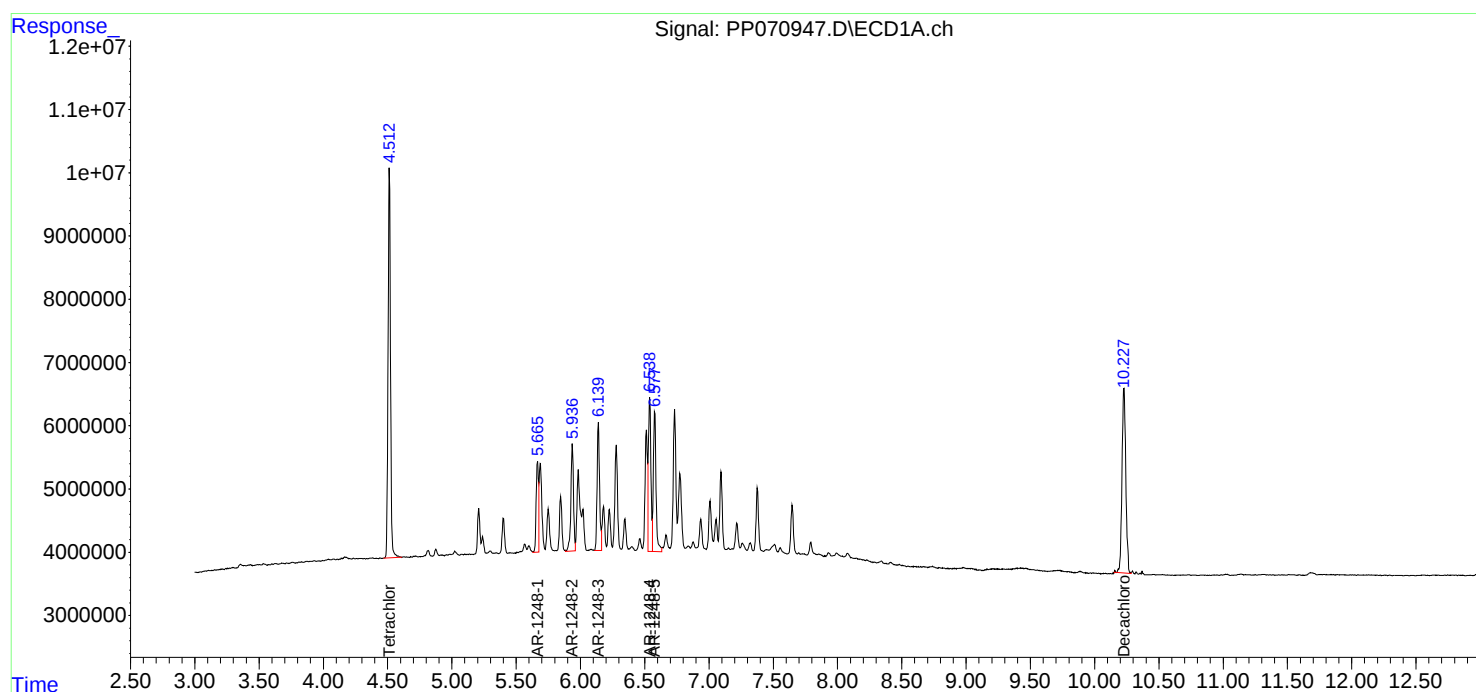
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 19:15
Operator : YP\AJ
Sample : AR1248ICV500
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP032725AR1248

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 27 19:34:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Mar 27 19:07:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070948.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 19:47
 Operator : YP\AJ
 Sample : AR1254ICV500
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP032725AR1254

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/28/2025
 Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 28 01:39:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 01:37:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.513	3.816	80813408	55809150	53.470	50.687
2) SA Decachlor...	10.228	8.859	60442284	44113864	53.599	53.797
Target Compounds						
26) L6 AR-1254-1	6.514	5.708	34026950	33372474	528.449	505.507
27) L6 AR-1254-2	6.730	5.856	52171420	28060451	516.086	491.442
28) L6 AR-1254-3	7.093	6.260	52059367	42608413	522.014	490.647
29) L6 AR-1254-4	7.375	6.489	45346150	27407702	523.647	488.547
30) L6 AR-1254-5	7.790	6.907	41706053	36336253	519.049m	503.617

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 19:47
Operator : YP\AJ
Sample : AR1254ICV500
Misc :
ALS Vial : 34 Sample Multiplier: 1

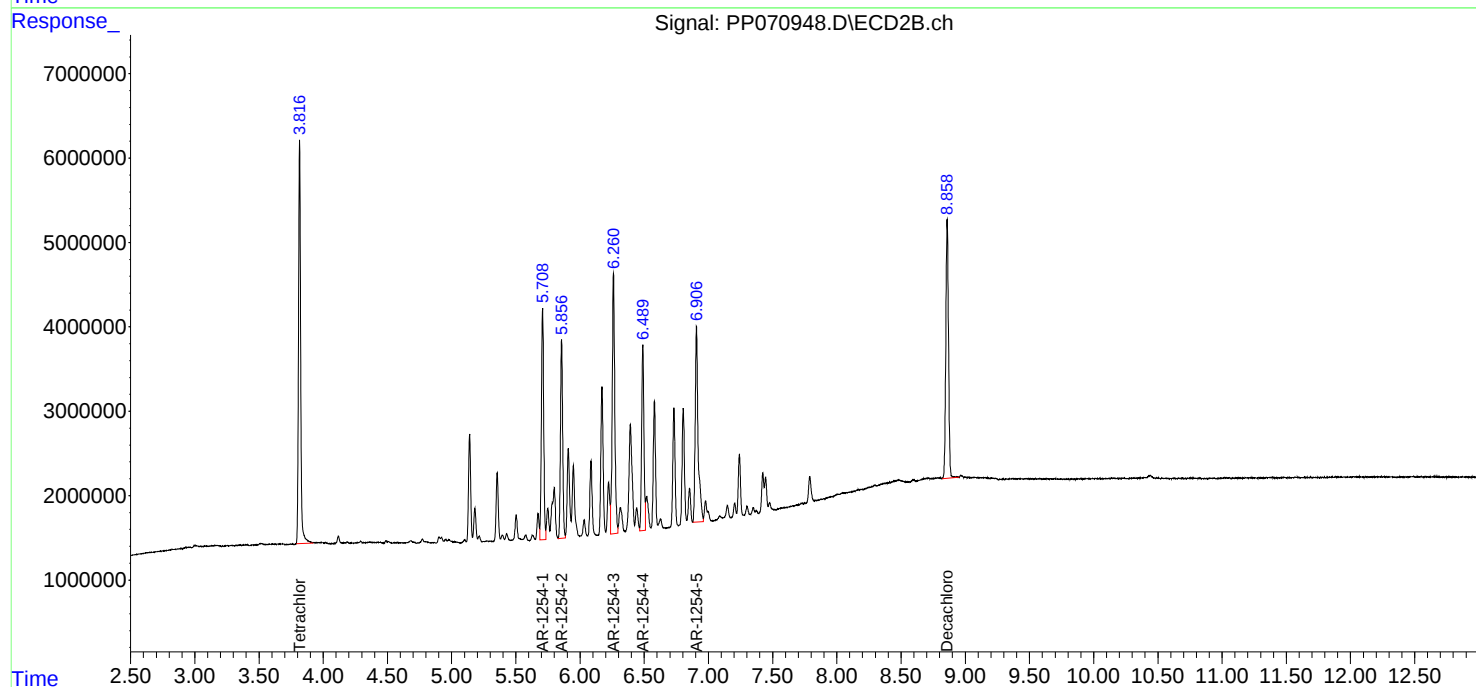
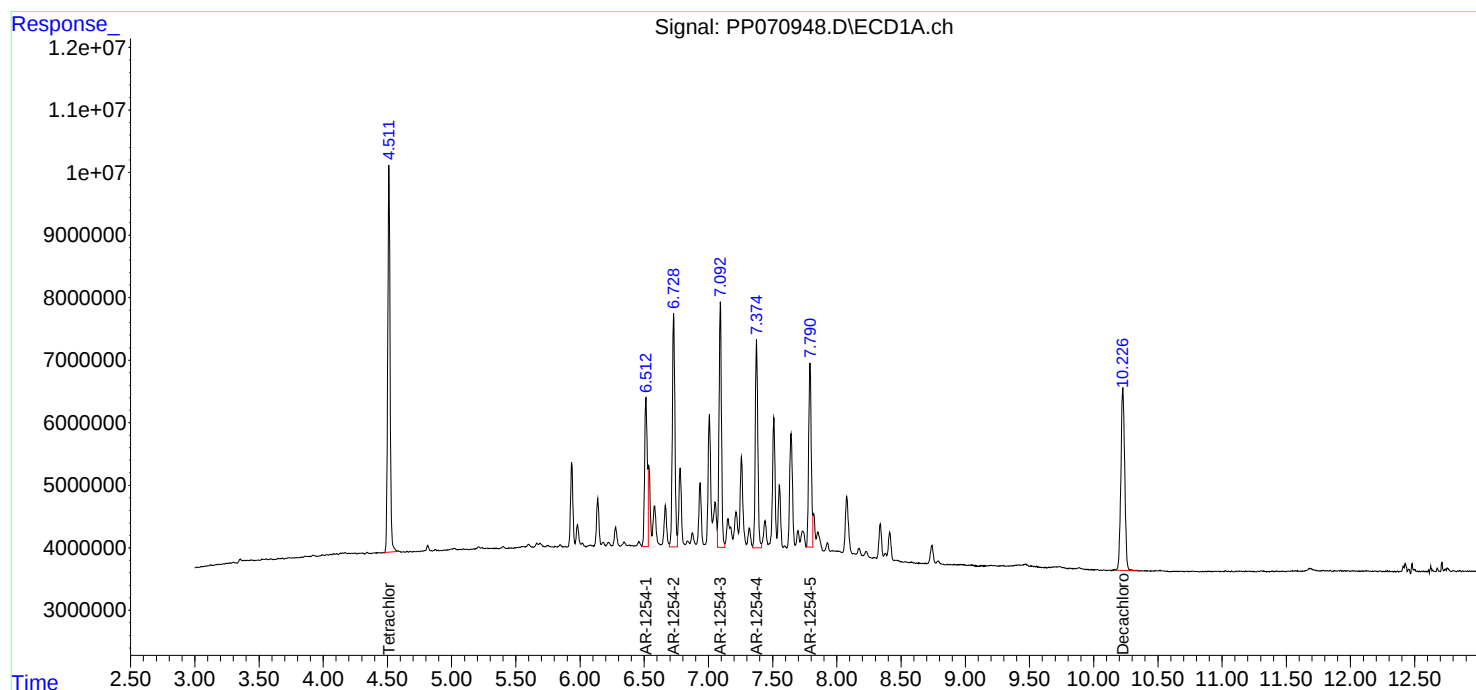
Instrument :
ECD_P
ClientSampleId :
ICVPP032725AR1254

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/28/2025
Supervised By :mohammad ahmed 03/31/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 28 01:39:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 01:37:11 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 20:20
 Operator : YP\AJ
 Sample : AR1268ICV500
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP032725AR1268

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 28 01:48:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 01:43:54 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.816	81260121	54086649	52.018	47.172
2) SA Decachlor...	10.231	8.858	106.7E6	75635416	51.843	49.238
Target Compounds						
41) L9 AR-1268-1	8.729	7.728	122.6E6	85915063	520.500	501.249
42) L9 AR-1268-2	8.822	7.793	102.3E6	71467631	523.804	498.787
43) L9 AR-1268-3	9.054	7.999	88458310	61199335	517.562	496.952
44) L9 AR-1268-4	9.472	8.292	37948087	26301297	536.390	498.006
45) L9 AR-1268-5	9.889	8.595	246.0E6	175.8E6	516.662	485.835

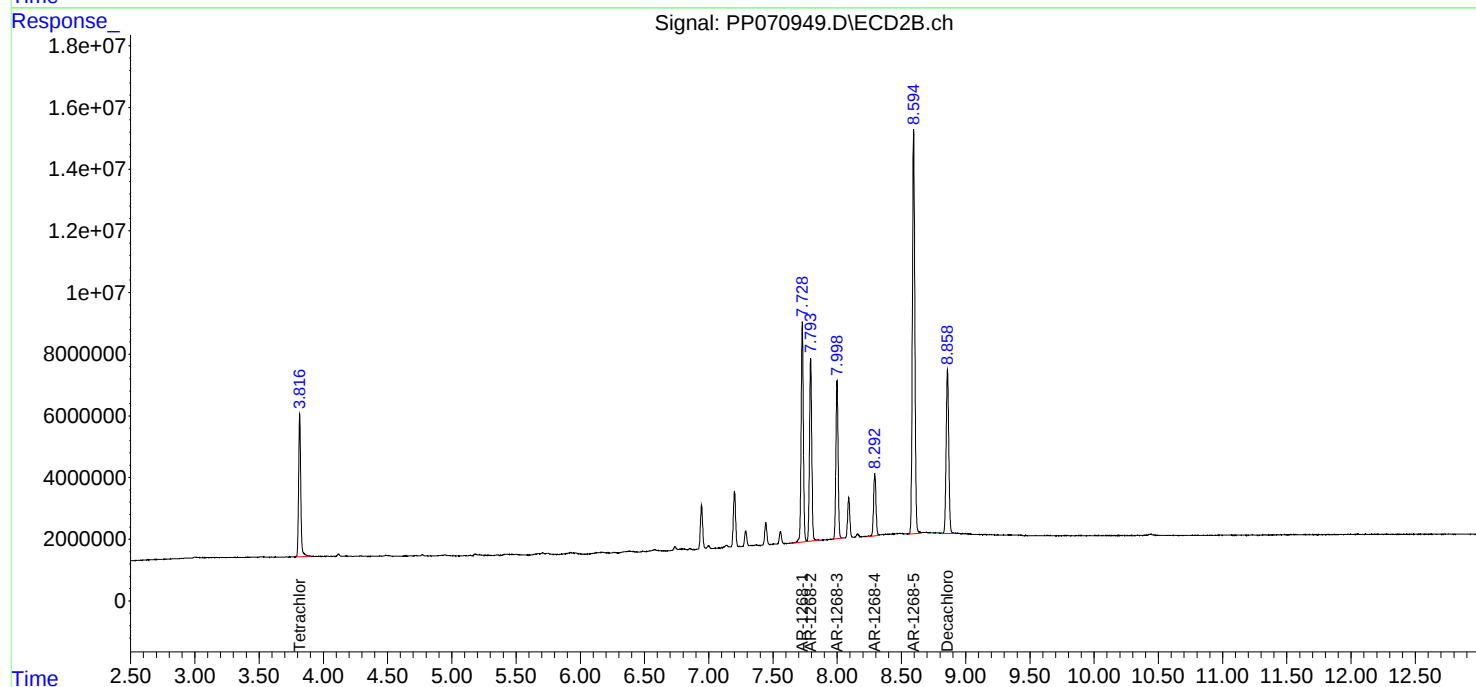
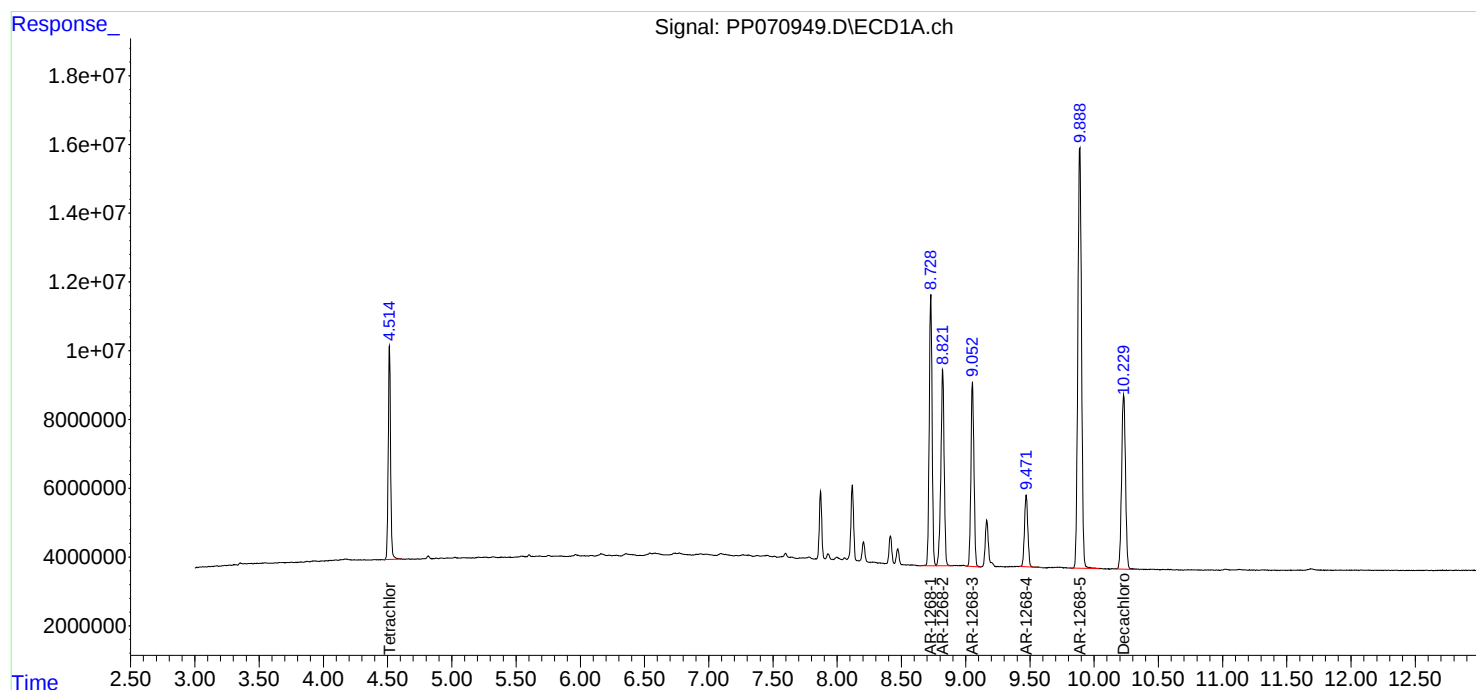
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 20:20
Operator : YP\AJ
Sample : AR1268ICV500
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP032725AR1268

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 28 01:48:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 01:43:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.68	5.66	5.56	5.76	-0.02
Aroclor-1016-2	(2)	5.70	5.69	5.59	5.79	-0.01
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.86	5.85	5.75	5.95	-0.01
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	-0.01
Aroclor-1260-2	(2)	7.53	7.51	7.41	7.61	-0.02
Aroclor-1260-3	(3)	7.89	7.87	7.77	7.97	-0.02
Aroclor-1260-4	(4)	8.11	8.09	7.99	8.19	-0.02
Aroclor-1260-5	(5)	8.43	8.41	8.31	8.51	-0.02
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.26	10.23	10.13	10.33	-0.03



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.74	6.73	6.63	6.83	-0.01
Aroclor-1260-4	(4)	7.21	7.21	7.11	7.31	0.00
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL01 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071136.D Time Analyzed: 09:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.679	5.563	5.763	504.230	500.000	0.8
Aroclor-1016-2	5.700	5.585	5.785	472.510	500.000	-5.5
Aroclor-1016-3	5.763	5.648	5.848	488.820	500.000	-2.2
Aroclor-1016-4	5.861	5.745	5.945	525.740	500.000	5.1
Aroclor-1016-5	6.154	6.038	6.238	539.860	500.000	8.0
Aroclor-1260-1	7.273	7.156	7.356	518.030	500.000	3.6
Aroclor-1260-2	7.527	7.410	7.610	536.780	500.000	7.4
Aroclor-1260-3	7.885	7.768	7.968	503.360	500.000	0.7
Aroclor-1260-4	8.109	7.992	8.192	501.370	500.000	0.3
Aroclor-1260-5	8.431	8.311	8.511	506.740	500.000	1.3
Decachlorobiphenyl	10.255	10.125	10.325	51.060	50.000	2.1
Tetrachloro-m-xylene	4.524	4.412	4.612	51.340	50.000	2.7



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL01 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071136.D Time Analyzed: 09:37

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.904	4.803	5.003	491.030	500.000	-1.8
Aroclor-1016-2	4.923	4.822	5.022	483.510	500.000	-3.3
Aroclor-1016-3	5.101	4.999	5.199	522.710	500.000	4.5
Aroclor-1016-4	5.142	5.041	5.241	542.480	500.000	8.5
Aroclor-1016-5	5.357	5.255	5.455	530.130	500.000	6.0
Aroclor-1260-1	6.393	6.292	6.492	547.620	500.000	9.5
Aroclor-1260-2	6.582	6.480	6.680	534.460	500.000	6.9
Aroclor-1260-3	6.735	6.634	6.834	546.870	500.000	9.4
Aroclor-1260-4	7.207	7.105	7.305	489.720	500.000	-2.1
Aroclor-1260-5	7.448	7.346	7.546	462.070	500.000	-7.6
Decachlorobiphenyl	8.862	8.759	8.959	43.790	50.000	-12.4
Tetrachloro-m-xylene	3.817	3.716	3.916	47.940	50.000	-4.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071136.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 09:37
 Operator : YP\AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660CCC500

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/09/2025
 Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 10:57:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

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

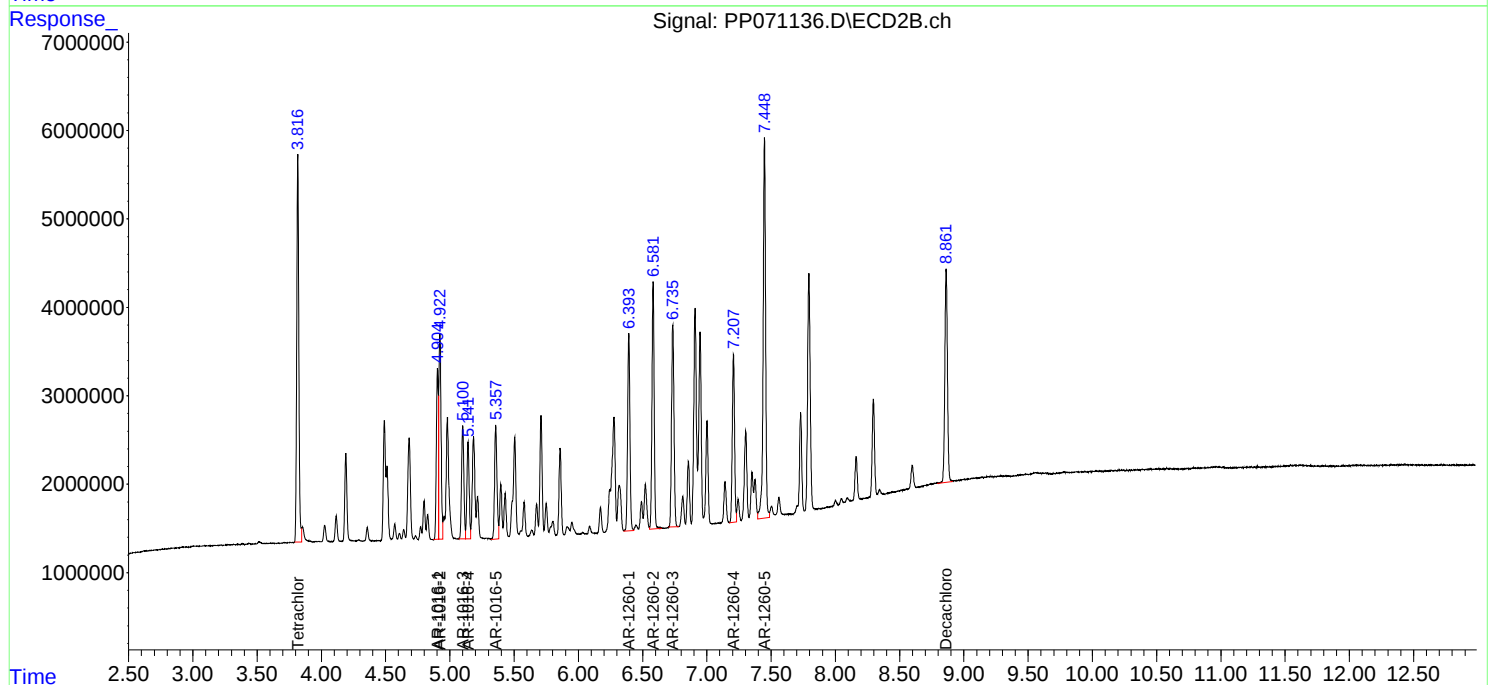
System Monitoring Compounds						
1) SA Tetrachlo...	4.524	3.817	75031562	49693990	51.336	47.937
2) SA Decachlor...	10.255	8.862	53747529	34514110	51.061	43.789
Target Compounds						
3) L1 AR-1016-1	5.679	4.904	25640835	19684563	504.232	491.032
4) L1 AR-1016-2	5.700	4.923	36881275	27978272	472.512m	483.509
5) L1 AR-1016-3	5.763	5.101	23060044	16163902	488.823	522.709
6) L1 AR-1016-4	5.861	5.142	19323906	13212574	525.739	542.479
7) L1 AR-1016-5	6.154	5.357	18307730	17134433	539.858	530.130
31) L7 AR-1260-1	7.273	6.393	34786874	28041460	518.026	547.617
32) L7 AR-1260-2	7.527	6.582	51604417	34095263	536.784	534.460
33) L7 AR-1260-3	7.885	6.735	40227656	29796945	503.360	546.865
34) L7 AR-1260-4	8.109	7.207	39475978	23421548	501.366m	489.721
35) L7 AR-1260-5	8.431	7.448	80513512	57532352	506.737	462.069

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

Instrument :
ECD_P
ClientSampleId :
AR1660CCC500

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL02 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071151.D Time Analyzed: 15:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.671	5.563	5.763	484.620	500.000	-3.1
Aroclor-1016-2	5.692	5.585	5.785	482.920	500.000	-3.4
Aroclor-1016-3	5.755	5.648	5.848	470.770	500.000	-5.8
Aroclor-1016-4	5.852	5.745	5.945	505.800	500.000	1.2
Aroclor-1016-5	6.146	6.038	6.238	510.370	500.000	2.1
Aroclor-1260-1	7.265	7.156	7.356	508.140	500.000	1.6
Aroclor-1260-2	7.519	7.410	7.610	516.880	500.000	3.4
Aroclor-1260-3	7.879	7.768	7.968	504.190	500.000	0.8
Aroclor-1260-4	8.103	7.992	8.192	470.830	500.000	-5.8
Aroclor-1260-5	8.424	8.311	8.511	486.490	500.000	-2.7
Decachlorobiphenyl	10.243	10.125	10.325	49.190	50.000	-1.6
Tetrachloro-m-xylene	4.516	4.412	4.612	50.490	50.000	1.0



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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL02 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071151.D Time Analyzed: 15:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.902	4.803	5.003	520.460	500.000	4.1
Aroclor-1016-2	4.921	4.822	5.022	507.900	500.000	1.6
Aroclor-1016-3	5.098	4.999	5.199	543.550	500.000	8.7
Aroclor-1016-4	5.140	5.041	5.241	556.220	500.000	11.2
Aroclor-1016-5	5.355	5.255	5.455	535.660	500.000	7.1
Aroclor-1260-1	6.390	6.292	6.492	521.040	500.000	4.2
Aroclor-1260-2	6.579	6.480	6.680	514.470	500.000	2.9
Aroclor-1260-3	6.732	6.634	6.834	529.510	500.000	5.9
Aroclor-1260-4	7.204	7.105	7.305	494.430	500.000	-1.1
Aroclor-1260-5	7.446	7.346	7.546	448.730	500.000	-10.3
Decachlorobiphenyl	8.859	8.759	8.959	40.800	50.000	-18.4
Tetrachloro-m-xylene	3.816	3.716	3.916	47.690	50.000	-4.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071151.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 15:29
 Operator : YP\AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 15:40:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.816	73793328	49435615	50.489	47.688
2) SA Decachlor...	10.243	8.859	51773119	32161650	49.185	40.804
Target Compounds						
3) L1 AR-1016-1	5.671	4.902	24643519	20864142	484.620	520.456
4) L1 AR-1016-2	5.692	4.921	37693781	29389805	482.922	507.902
5) L1 AR-1016-3	5.755	5.098	22208174	16808495	470.765	543.554
6) L1 AR-1016-4	5.852	5.140	18590980	13547316	505.798	556.223
7) L1 AR-1016-5	6.146	5.355	17307697	17313298	510.369	535.664
31) L7 AR-1260-1	7.265	6.390	34122856	26680779	508.137	521.045
32) L7 AR-1260-2	7.519	6.579	49691070	32819802	516.881	514.467
33) L7 AR-1260-3	7.879	6.732	40293738	28851540	504.187	529.514
34) L7 AR-1260-4	8.103	7.204	37071987	23646683	470.834	494.429
35) L7 AR-1260-5	8.424	7.446	77297206	55871530	486.494	448.730

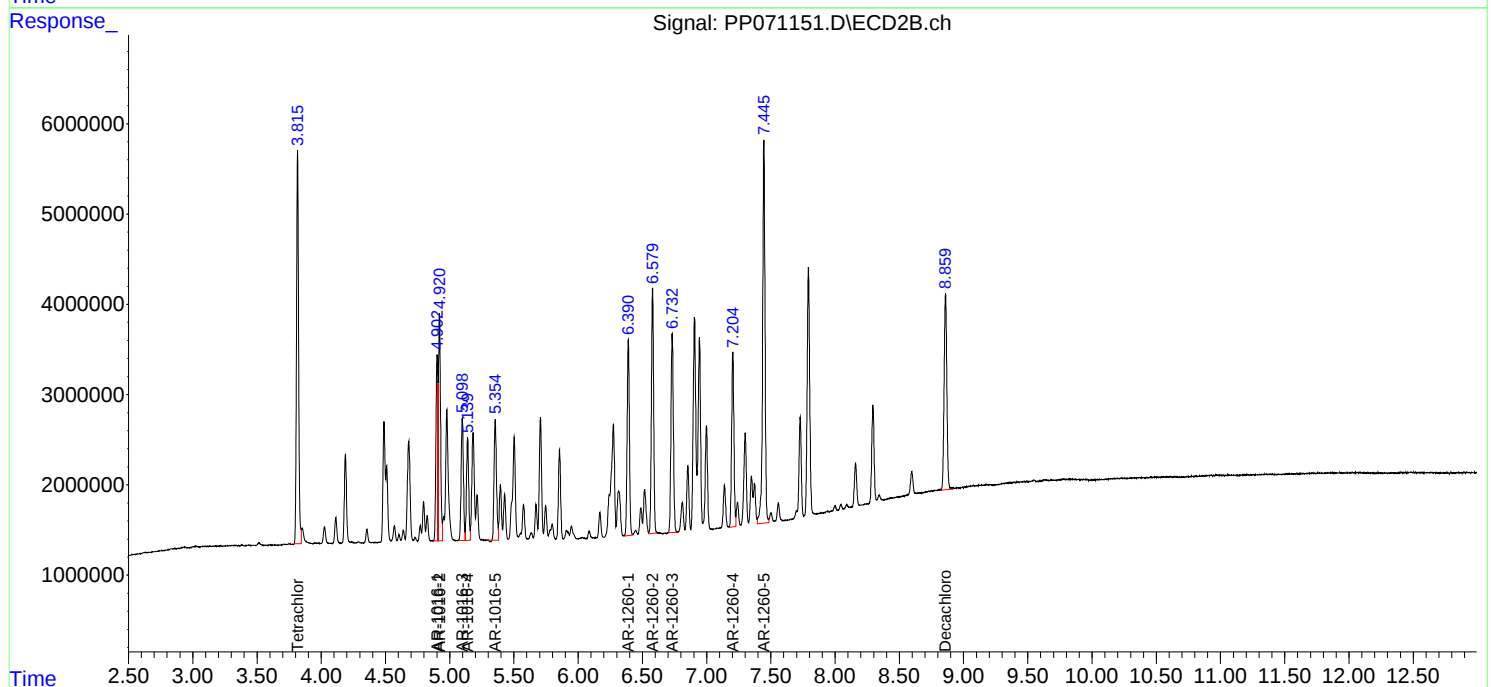
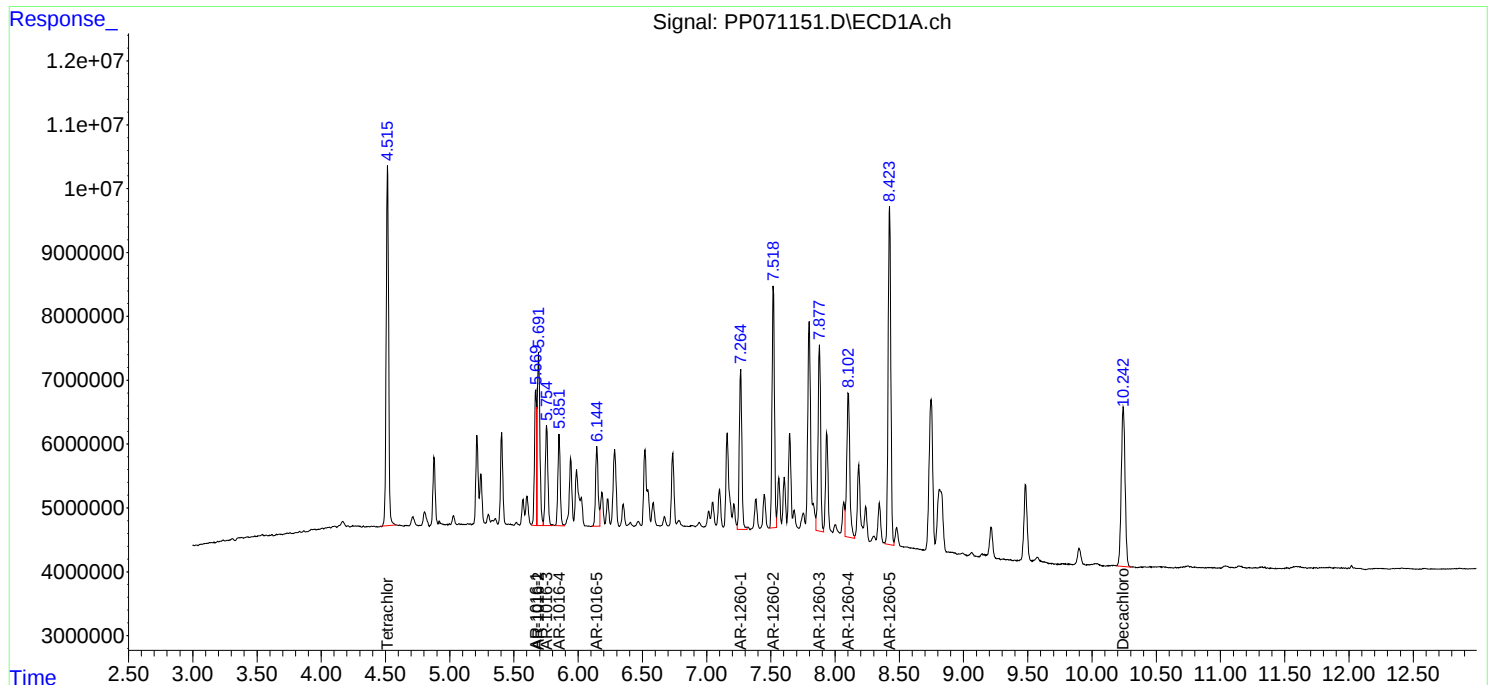
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071151.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 15:29
Operator : YP\AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 15:40:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.14	6.04	6.24	0.00
Aroclor-1260-1	(1)	7.26	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	0.00
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Continuing Calib Date: 04/08/2025 Initial Calibration Date(s): 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 Initial Calibration Time(s): 10:30 17:53

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.35	5.36	5.26	5.46	0.01
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.44	7.45	7.35	7.55	0.01
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL03 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071164.D Time Analyzed: 20:28

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.669	5.563	5.763	499.770	500.000	0.0
Aroclor-1016-2	5.691	5.585	5.785	486.450	500.000	-2.7
Aroclor-1016-3	5.753	5.648	5.848	487.290	500.000	-2.5
Aroclor-1016-4	5.851	5.745	5.945	522.270	500.000	4.5
Aroclor-1016-5	6.144	6.038	6.238	525.330	500.000	5.1
Aroclor-1260-1	7.263	7.156	7.356	533.550	500.000	6.7
Aroclor-1260-2	7.517	7.410	7.610	536.350	500.000	7.3
Aroclor-1260-3	7.876	7.768	7.968	517.550	500.000	3.5
Aroclor-1260-4	8.100	7.992	8.192	501.150	500.000	0.2
Aroclor-1260-5	8.420	8.311	8.511	506.710	500.000	1.3
Decachlorobiphenyl	10.239	10.125	10.325	50.140	50.000	0.3
Tetrachloro-m-xylene	4.515	4.412	4.612	50.290	50.000	0.6



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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/27/2025 03/27/2025

Client Sample No.: CCAL03 Date Analyzed: 04/08/2025

Lab Sample No.: AR1660CCC500 Data File : PP071164.D Time Analyzed: 20:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.901	4.803	5.003	472.560	500.000	-5.5
Aroclor-1016-2	4.919	4.822	5.022	457.460	500.000	-8.5
Aroclor-1016-3	5.096	4.999	5.199	490.060	500.000	-2.0
Aroclor-1016-4	5.139	5.041	5.241	496.520	500.000	-0.7
Aroclor-1016-5	5.353	5.255	5.455	471.190	500.000	-5.8
Aroclor-1260-1	6.389	6.292	6.492	508.230	500.000	1.6
Aroclor-1260-2	6.578	6.480	6.680	502.080	500.000	0.4
Aroclor-1260-3	6.730	6.634	6.834	507.090	500.000	1.4
Aroclor-1260-4	7.202	7.105	7.305	484.720	500.000	-3.1
Aroclor-1260-5	7.444	7.346	7.546	440.870	500.000	-11.8
Decachlorobiphenyl	8.857	8.759	8.959	43.280	50.000	-13.4
Tetrachloro-m-xylene	3.815	3.716	3.916	46.910	50.000	-6.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071164.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 20:28
 Operator : YP\AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 09 00:27:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.815	73501644	48625377	50.289	46.907
2) SA Decachlor...	10.239	8.857	52773344	34110009	50.135	43.276
Target Compounds						
3) L1 AR-1016-1	5.669	4.901	25413682	18944257	499.765	472.565
4) L1 AR-1016-2	5.691	4.919	37969464	26471198	486.454	457.464
5) L1 AR-1016-3	5.753	5.096	22987702	15154171	487.290	490.057
6) L1 AR-1016-4	5.851	5.139	19196491	12093292	522.272	496.524
7) L1 AR-1016-5	6.144	5.353	17814963	15229442	525.327	471.191
31) L7 AR-1260-1	7.263	6.389	35829645	26024796	533.554	508.234
32) L7 AR-1260-2	7.517	6.578	51562836	32029750	536.351	502.082
33) L7 AR-1260-3	7.876	6.730	41361658	27629653	517.550	507.089
34) L7 AR-1260-4	8.100	7.202	39458762	23182509	501.147	484.723
35) L7 AR-1260-5	8.420	7.444	80509299	54893056	506.711	440.872

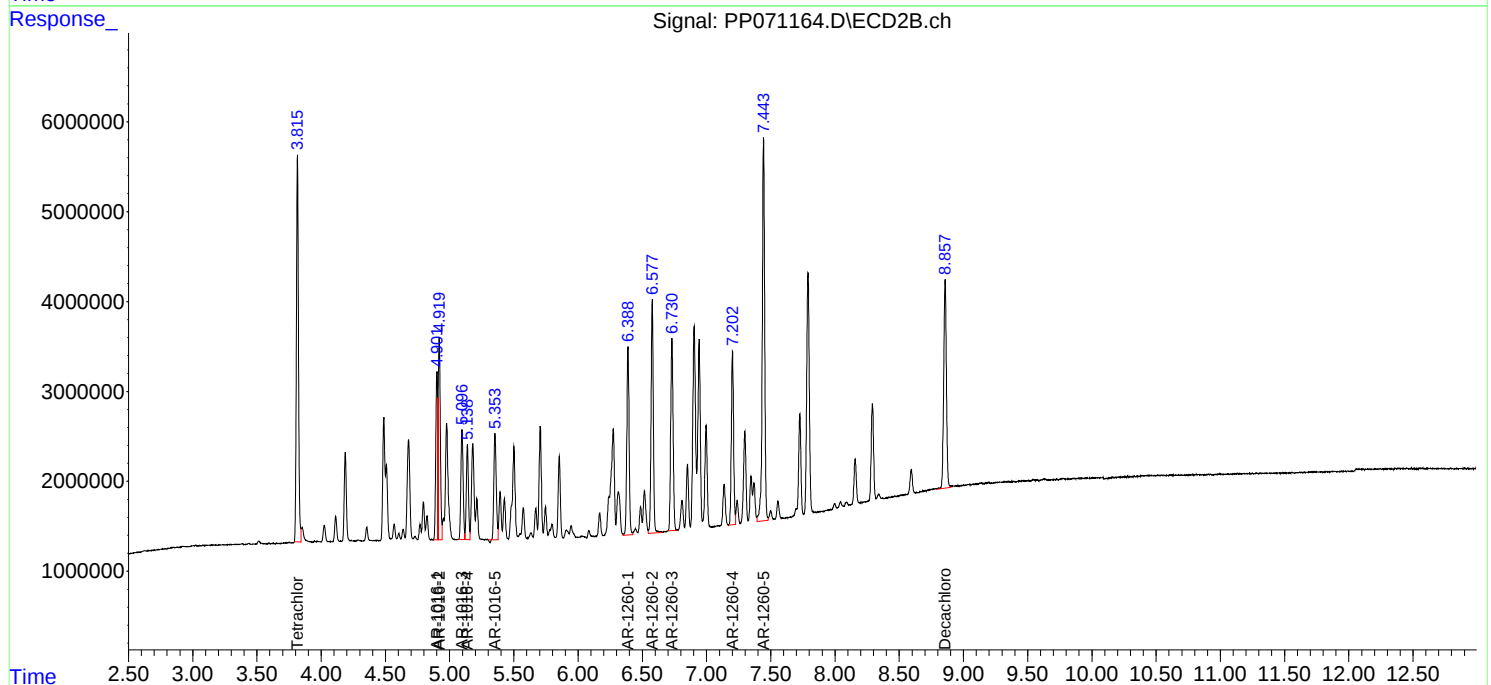
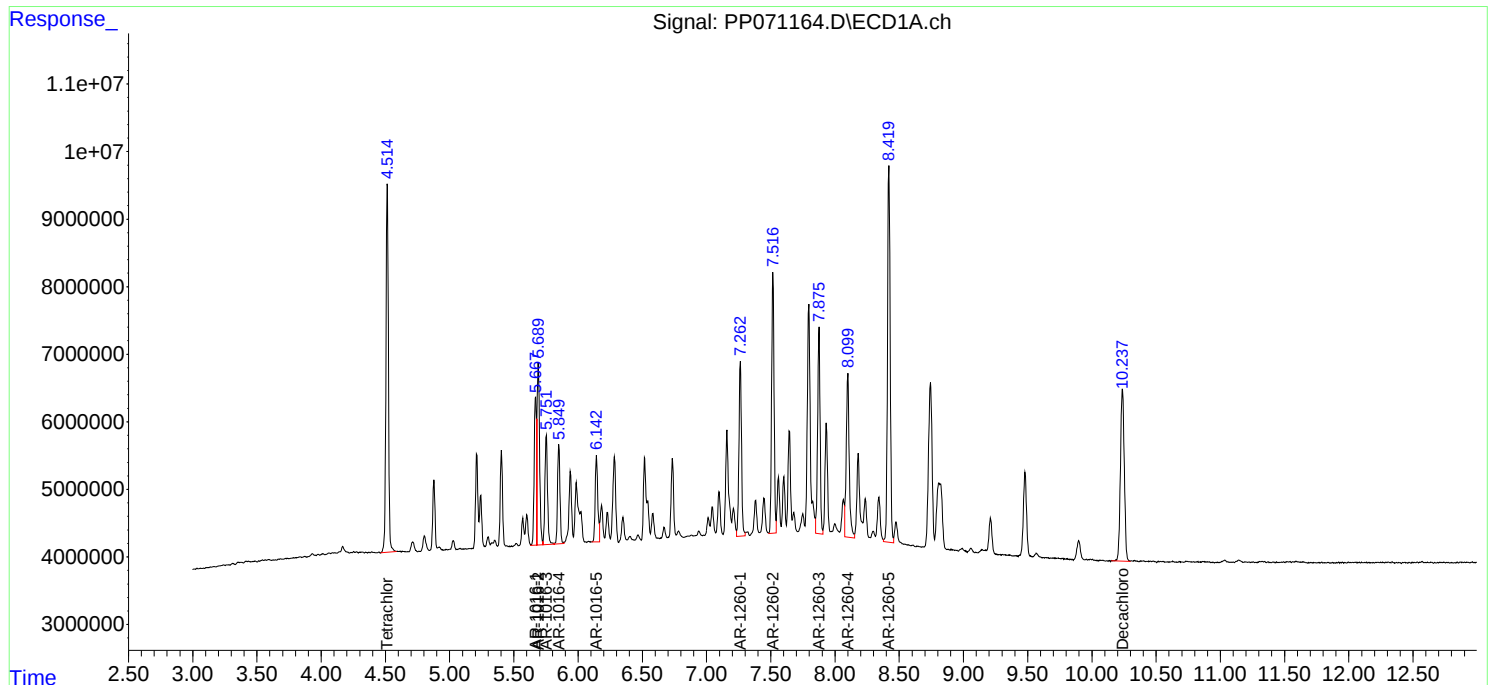
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 20:28
Operator : YP\AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:27:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Analytical Sequence

Client: Portal Partners Tri-Venture	SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025	Instrument ID: ECD_P
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 03/27/2025 03/27/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	03/27/2025	10:14	PP070916.D	10.23	4.51
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	10.23	4.51
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	10.23	4.52
AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	10.23	4.51
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	10.23	4.52
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	10.23	4.51
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	10.23	4.52
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	10.23	4.52
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	10.23	4.51
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	10.23	4.51
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	10.23	4.51
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	10.23	4.51
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	10.23	4.51
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	10.23	4.51
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	10.23	4.51
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	10.23	4.51
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	10.23	4.52
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	10.23	4.51
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	10.23	4.51
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	10.23	4.51
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	10.23	4.51
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	10.23	4.51
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	10.23	4.52
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	10.23	4.51
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	10.23	4.52
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	10.23	4.51
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	10.23	4.51
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	10.23	4.52
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	10.26	4.52
IBLK	IBLK	04/08/2025	11:05	PP071140.D	10.25	4.52
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	10.24	4.51
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	10.25	4.52
B-158-SB01	Q1744-01	04/08/2025	14:30	PP071150.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	10.24	4.52
IBLK	IBLK	04/08/2025	16:51	PP071155.D	10.24	4.52
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	10.24	4.52
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	10.24	4.52
B-158-SB02	Q1744-03	04/08/2025	17:40	PP071158.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	10.24	4.52
IBLK	IBLK	04/08/2025	22:05	PP071168.D	10.24	4.52

Analytical Sequence

Analytical Sequence

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

Instrument ID: ECD_P

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 03/27/2025

03/27/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	03/27/2025	10:14	PP070916.D	8.86	3.82
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	8.86	3.82
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	8.86	3.82
AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	8.86	3.82
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	8.86	3.82
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	8.86	3.82
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	8.86	3.82
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	8.86	3.82
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	8.86	3.82
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	8.86	3.82
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	8.86	3.82
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	8.86	3.82
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	8.86	3.82
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	8.86	3.82
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	8.86	3.82
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	8.86	3.82
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	8.86	3.82
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	8.86	3.82
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	8.86	3.82
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	8.86	3.82
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	8.86	3.82
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	8.86	3.82
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	8.86	3.82
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	8.86	3.82
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	8.86	3.82
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	8.86	3.82
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	8.86	3.82
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	8.86	3.82
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	8.86	3.82
IBLK	IBLK	04/08/2025	11:05	PP071140.D	8.86	3.82
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	8.86	3.82
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	8.86	3.82
B-158-SB01	Q1744-01	04/08/2025	14:30	PP071150.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	8.86	3.82
IBLK	IBLK	04/08/2025	16:51	PP071155.D	8.86	3.82
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	8.86	3.82
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	8.86	3.82
B-158-SB02	Q1744-03	04/08/2025	17:40	PP071158.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	8.86	3.82
IBLK	IBLK	04/08/2025	22:05	PP071168.D	8.86	3.82

Analytical Sequence

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: Q1742-01MS Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

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

Data file PP071147.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.67	5.62	5.72	172	176	4.06
COLUMN 1	2	5.692	5.642	5.742	160		
	3	5.754	5.704	5.804	165		
	4	5.852	5.802	5.902	214		
	5	6.145	6.095	6.195	170		
	1	4.902	4.852	4.952	167		
COLUMN 2	2	4.921	4.871	4.971	160	169	
	3	5.097	5.047	5.147	171		
	4	5.14	5.09	5.19	176		
	5	5.354	5.304	5.404	170		
Aroclor-1260	1	7.265	7.215	7.315	215	188	7.16
COLUMN 1	2	7.519	7.469	7.569	213		
	3	7.878	7.828	7.928	163		
	4	8.103	8.053	8.153	175		
	5	8.423	8.373	8.473	176		
	1	6.39	6.34	6.44	196		
COLUMN 2	2	6.579	6.529	6.629	188	175	
	3	6.732	6.682	6.782	191		
	4	7.204	7.154	7.254	156		
	5	7.445	7.395	7.495	143		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: Q1742-01MSD Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

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

Data file PP071148.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.673	5.623	5.723	169	172	0.58
COLUMN 1	2	5.695	5.645	5.745	157		
	3	5.758	5.708	5.808	162		
	4	5.855	5.805	5.905	210		
	5	6.148	6.098	6.198	164		
	1	4.902	4.852	4.952	171		
COLUMN 2	2	4.921	4.871	4.971	164	173	
	3	5.098	5.048	5.148	175		
	4	5.14	5.09	5.19	182		
	5	5.355	5.305	5.405	174		
Aroclor-1260	1	7.269	7.219	7.319	207	177	5.81
COLUMN 1	2	7.522	7.472	7.572	200		
	3	7.881	7.831	7.931	152		
	4	8.106	8.056	8.156	161		
	5	8.426	8.376	8.476	165		
	1	6.391	6.341	6.441	188		
COLUMN 2	2	6.579	6.529	6.629	181	167	
	3	6.733	6.683	6.783	183		
	4	7.205	7.155	7.255	146		
	5	7.445	7.395	7.495	137		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB167507BS

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

SDG NO.: Q1744

Lab Sample ID: PB167507BS

Date(s) Analyzed: 04/08/2025

04/08/2025

Instrument ID (1): ECD_P

Instrument ID (2): ECD_P

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

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

Data file PP071157.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.672	5.622	5.722	178	181	2.8
COLUMN 1	2	5.694	5.644	5.744	179		
	3	5.757	5.707	5.807	178		
	4	5.854	5.804	5.904	189		
	5	6.147	6.097	6.197	184		
COLUMN 2	1	4.902	4.852	4.952	170	176	
	2	4.92	4.87	4.97	166		
	3	5.098	5.048	5.148	176		
	4	5.139	5.089	5.189	189		
	5	5.354	5.304	5.404	179		
Aroclor-1260	1	7.267	7.217	7.317	189	173	8.31
COLUMN 1	2	7.521	7.471	7.571	199		
	3	7.88	7.83	7.93	159		
	4	8.105	8.055	8.155	162		
	5	8.425	8.375	8.475	158		
COLUMN 2	1	6.39	6.34	6.44	205	188	
	2	6.578	6.528	6.628	202		
	3	6.731	6.681	6.781	209		
	4	7.203	7.153	7.253	169		
	5	7.445	7.395	7.495	156		



QC SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167507BL		SDG No.:	Q1744	
Lab Sample ID:	PB167507BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071156.D	1	04/08/25 08:11	04/08/25 17:07	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.7		30 (32) - 150 (144)	138%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.9		30 (32) - 150 (175)	130%	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_P\Data\PP040825\
 Data File : PP071156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 17:07
 Operator : YP\AJ
 Sample : PB167507BL
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 PB167507BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 09 00:24:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.816	38682818	28677374	26.467	27.664
2) SA Decachlor...	10.242	8.858	27306872	18887758	25.942	23.963

Target Compounds

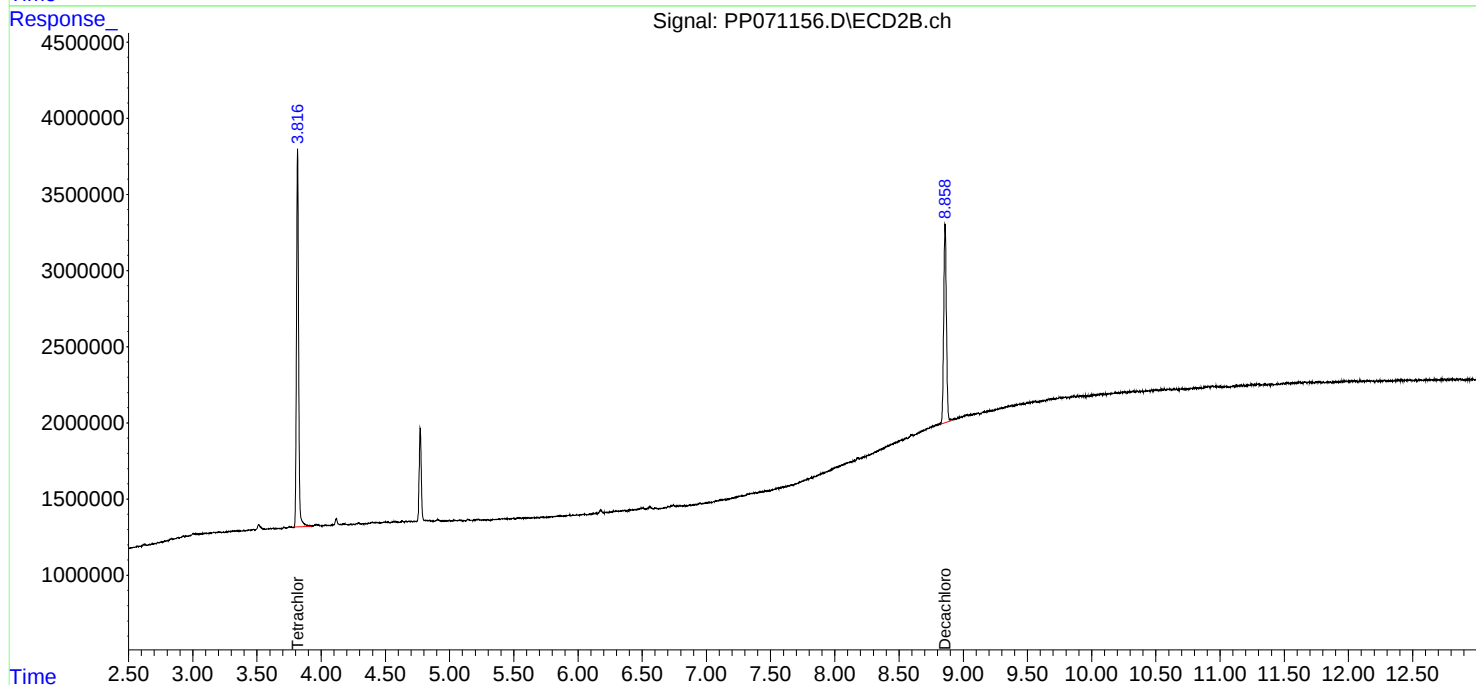
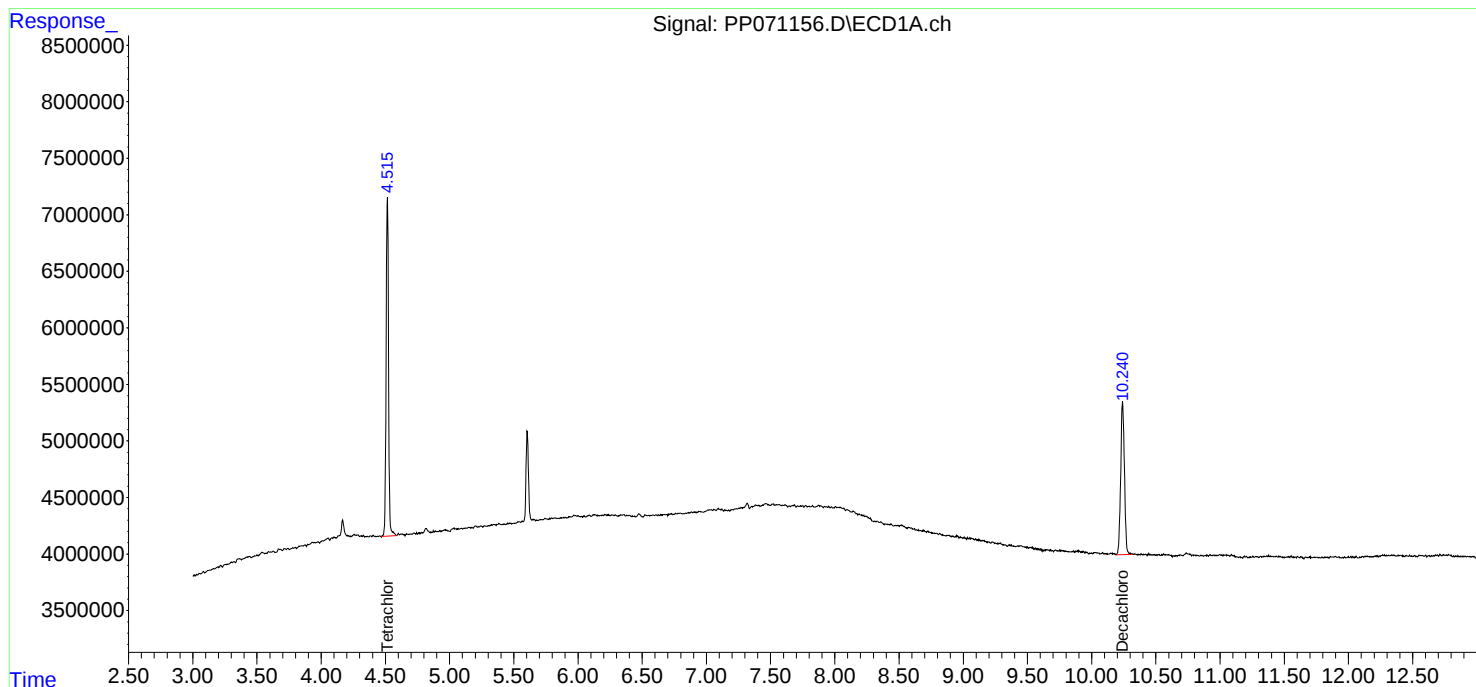
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

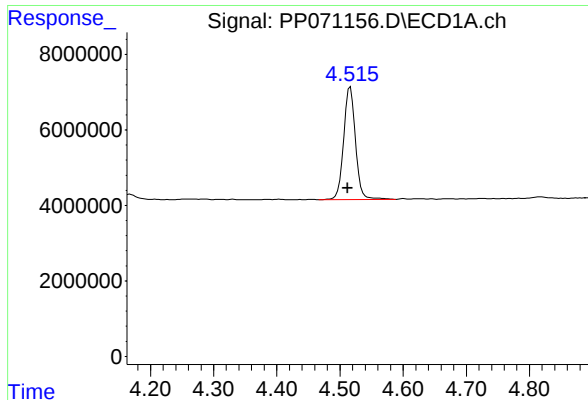
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:07
Operator : YP\AJ
Sample : PB167507BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

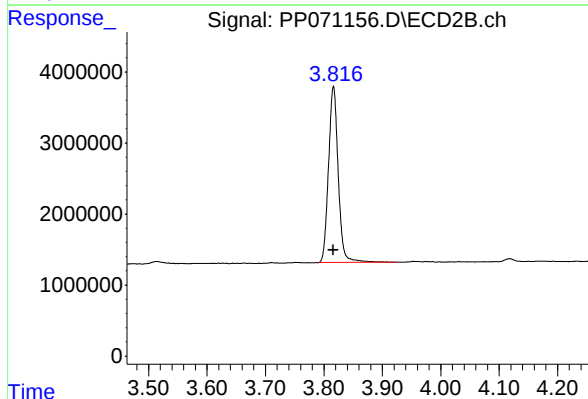




#1 Tetrachloro-m-xylene

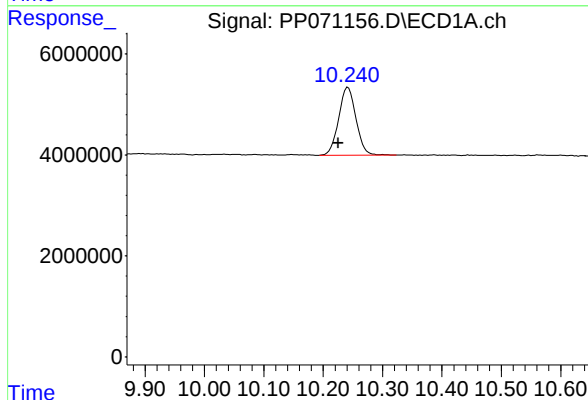
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 38682818
Conc: 26.47 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB167507BL



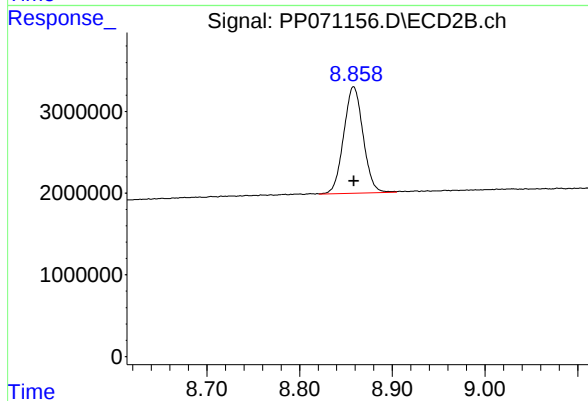
#1 Tetrachloro-m-xylene

R.T.: 3.816 min
Delta R.T.: 0.000 min
Response: 28677374
Conc: 27.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.242 min
Delta R.T.: 0.016 min
Response: 27306872
Conc: 25.94 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.858 min
Delta R.T.: 0.000 min
Response: 18887758
Conc: 23.96 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/27/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/27/25
Client Sample ID:	PIBLK-PP070916.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP070916.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070916.D	1		03/27/25	PP032725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		70 (60) - 130 (140)	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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
 Data File : PP070916.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Mar 2025 10:14
 Operator : YP\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 28 06:35:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

1) SA Tetrachlo...	4.514	3.816	27521844	18794888	18.830	18.131
2) SA Decachlor...	10.229	8.858	20399611	18404317	19.380	23.350

Target Compounds

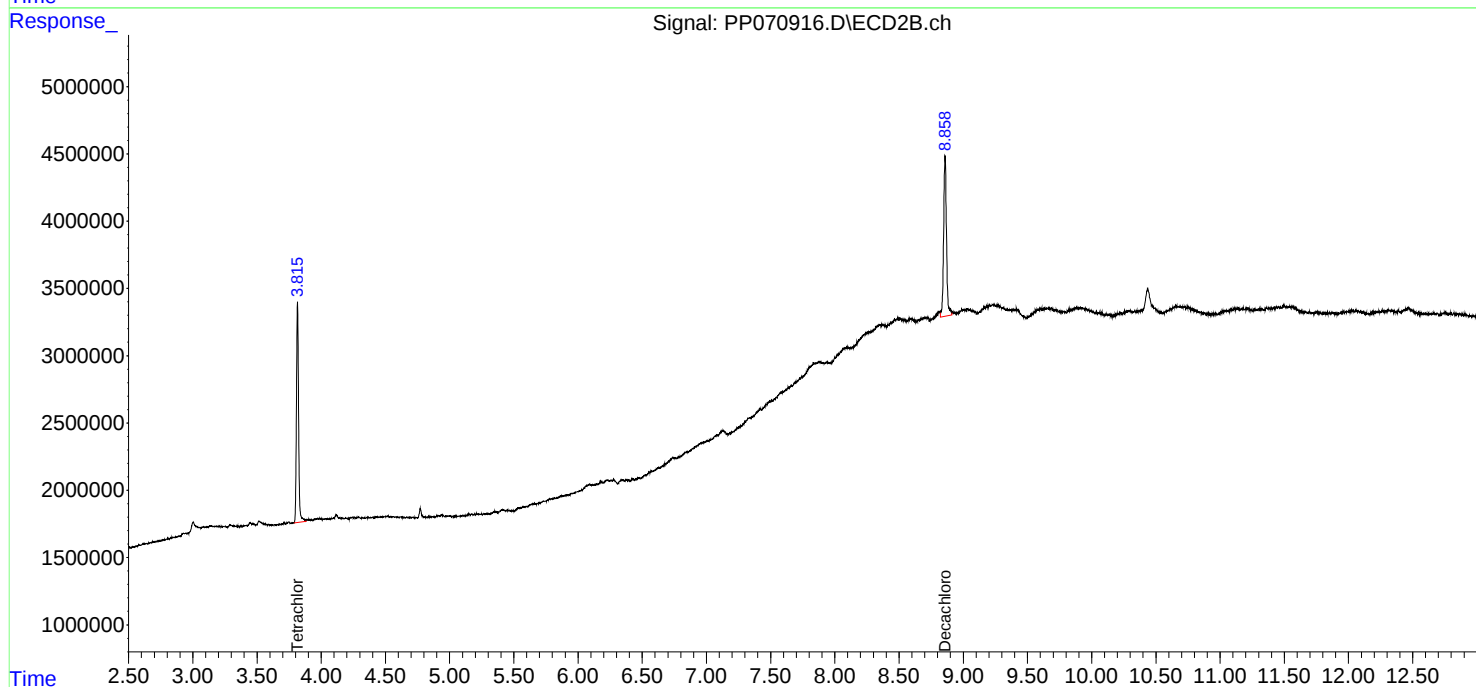
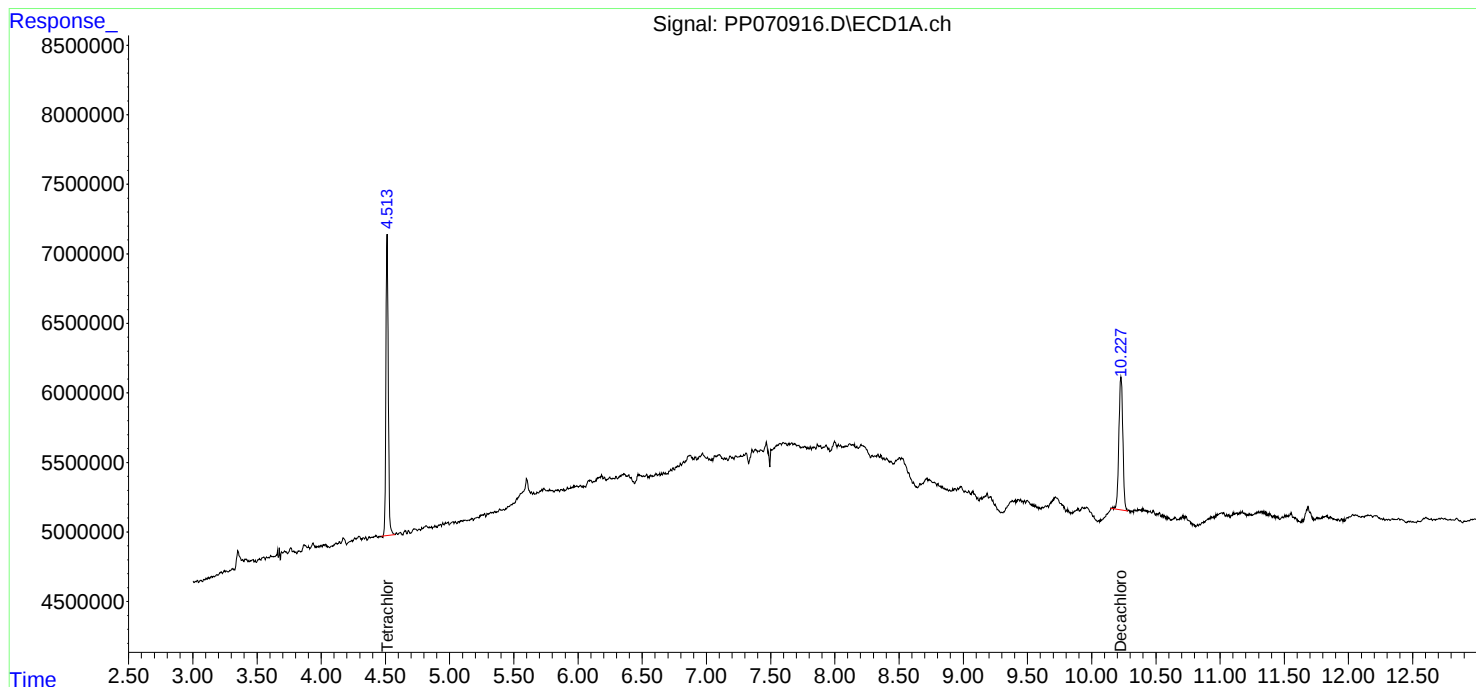
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

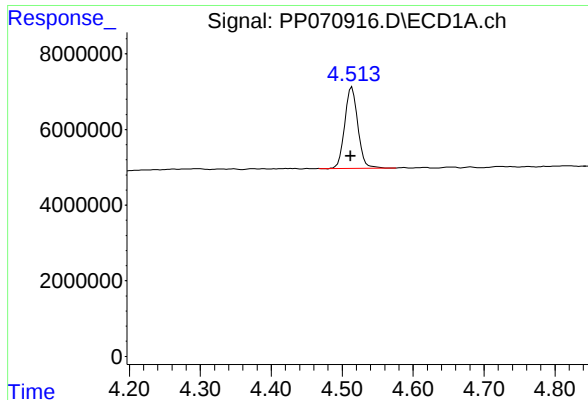
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032725\
Data File : PP070916.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Mar 2025 10:14
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 28 06:35:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

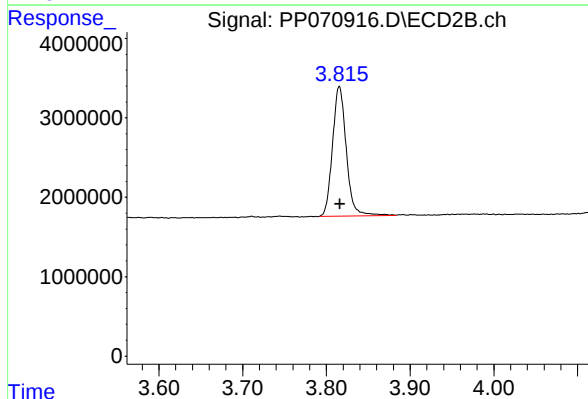




#1 Tetrachloro-m-xylene

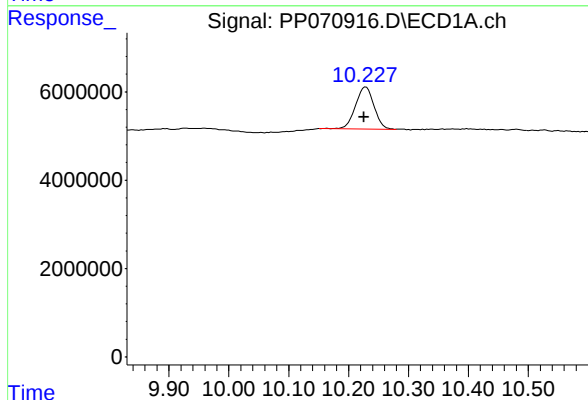
R.T.: 4.514 min
Delta R.T.: 0.002 min
Response: 27521844
Conc: 18.83 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



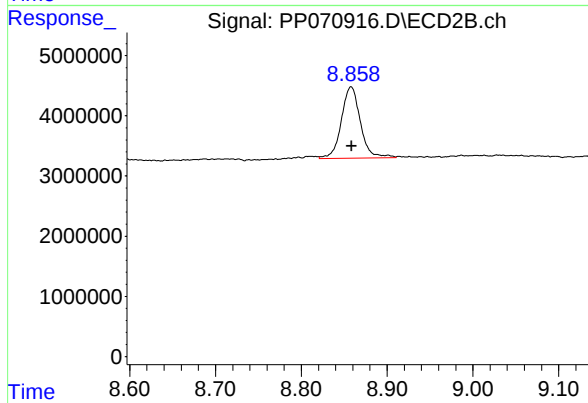
#1 Tetrachloro-m-xylene

R.T.: 3.816 min
Delta R.T.: 0.000 min
Response: 18794888
Conc: 18.13 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.229 min
Delta R.T.: 0.003 min
Response: 20399611
Conc: 19.38 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.858 min
Delta R.T.: 0.000 min
Response: 18404317
Conc: 23.35 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071140.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071140.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071140.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.8		70 (60) - 130 (140)	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	108%	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_P\Data\PP040825\
 Data File : PP071140.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 11:05
 Operator : YP\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 11:17:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.518	3.815	33330770	23969414	22.805	23.122
2) SA Decachlor...	10.246	8.859	25105022	16966968	23.850	21.526

Target Compounds

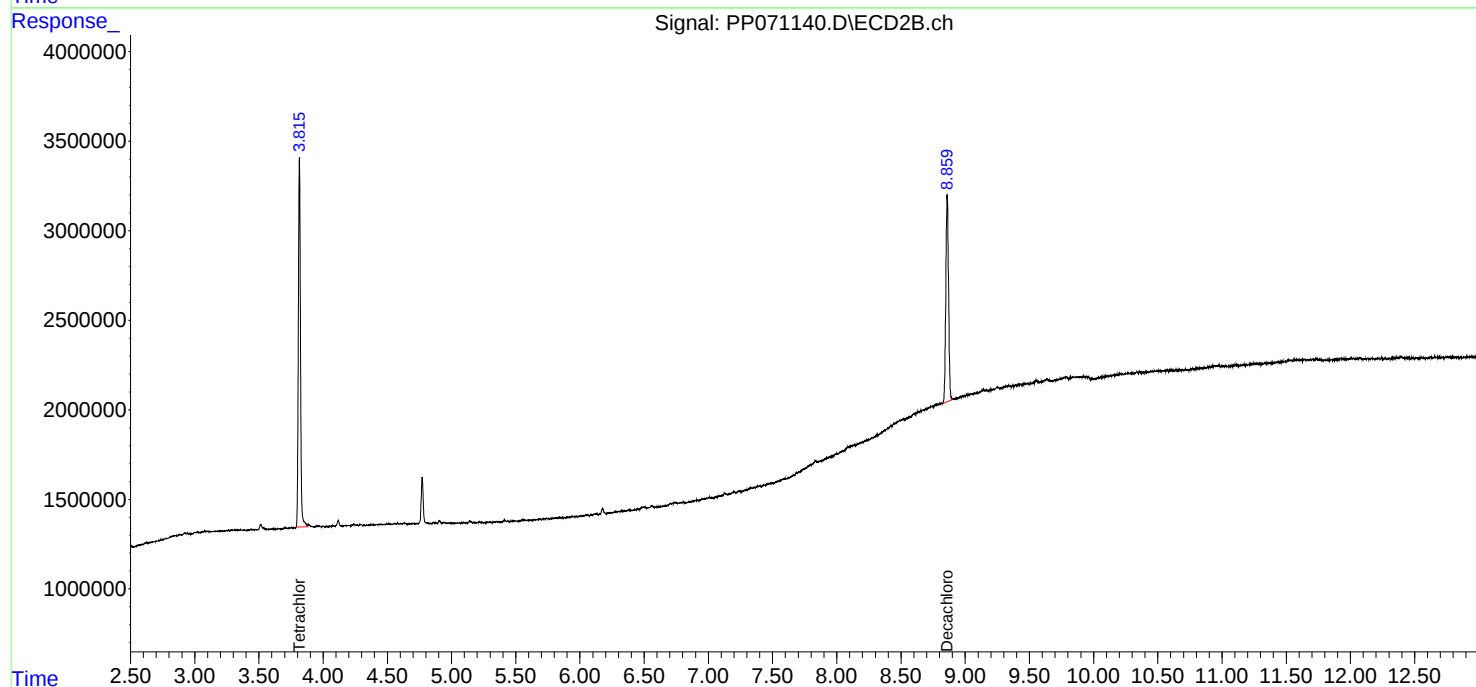
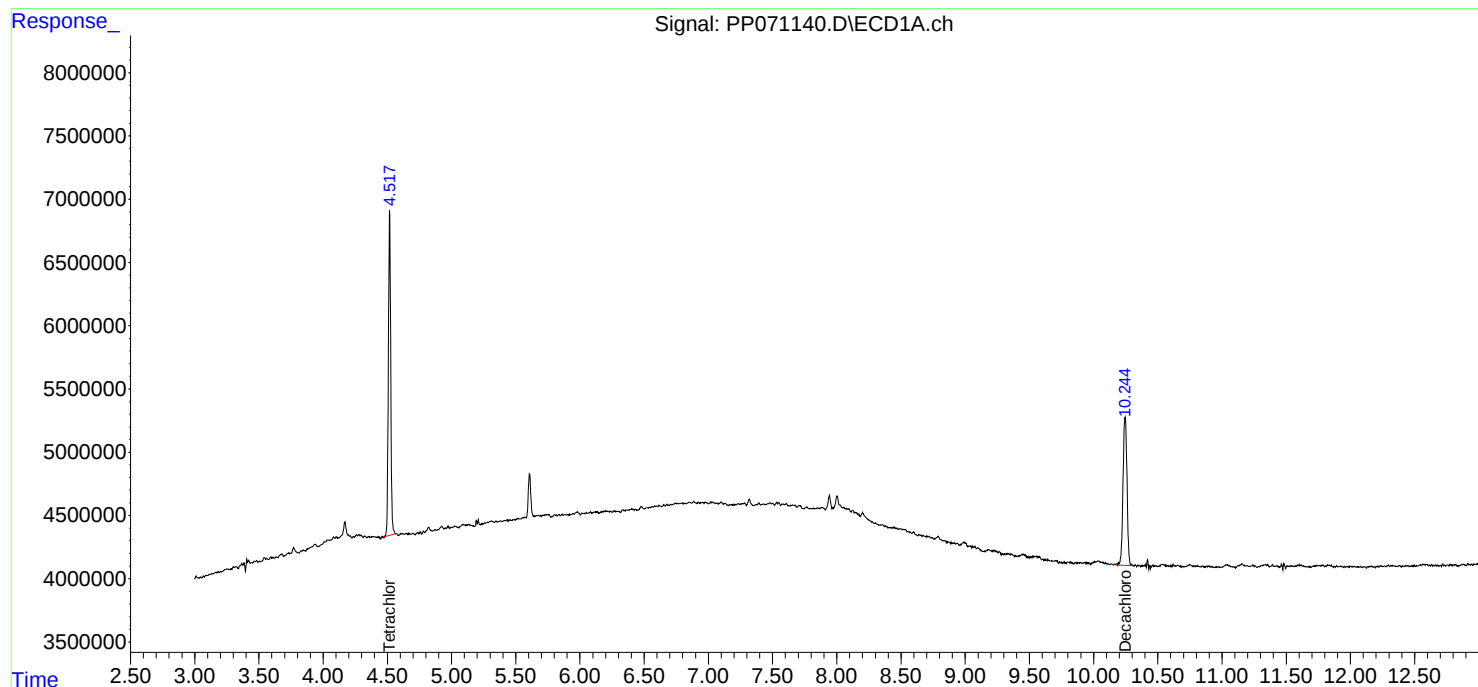
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

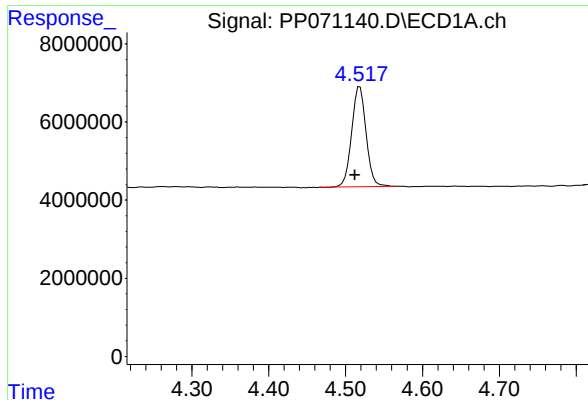
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071140.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 11:05
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 11:17:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

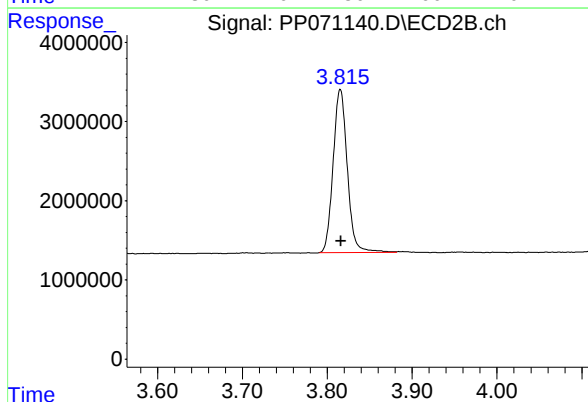




#1 Tetrachloro-m-xylene

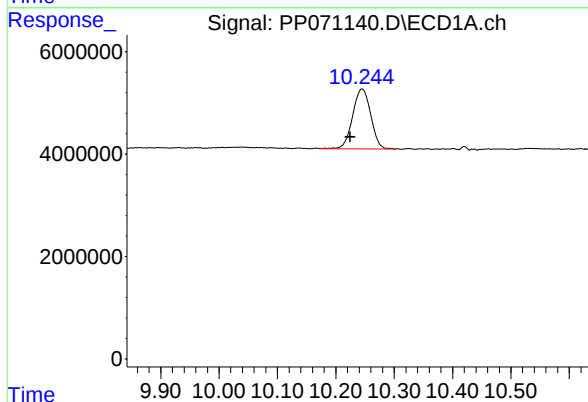
R.T.: 4.518 min
Delta R.T.: 0.006 min
Response: 33330770
Conc: 22.80 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



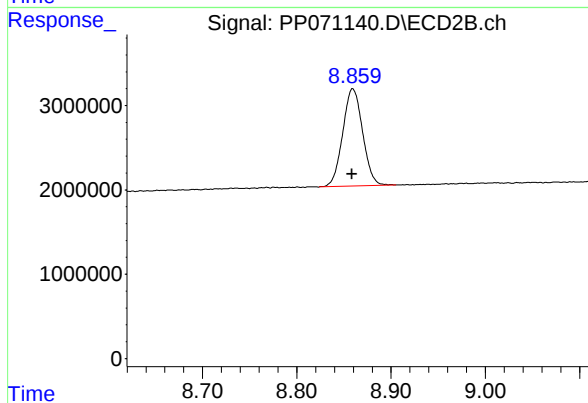
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 23969414
Conc: 23.12 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.246 min
Delta R.T.: 0.020 min
Response: 25105022
Conc: 23.85 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.859 min
Delta R.T.: 0.000 min
Response: 16966968
Conc: 21.53 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071155.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071155.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071155.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		70 (60) - 130 (140)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.4		70 (60) - 130 (140)	92%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071155.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 16:51
 Operator : YP\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 17:04:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.516	3.816	30070321	21846080	20.574	21.074
2) SA Decachlor...	10.242	8.859	22060594	14463728	20.958	18.350

Target Compounds

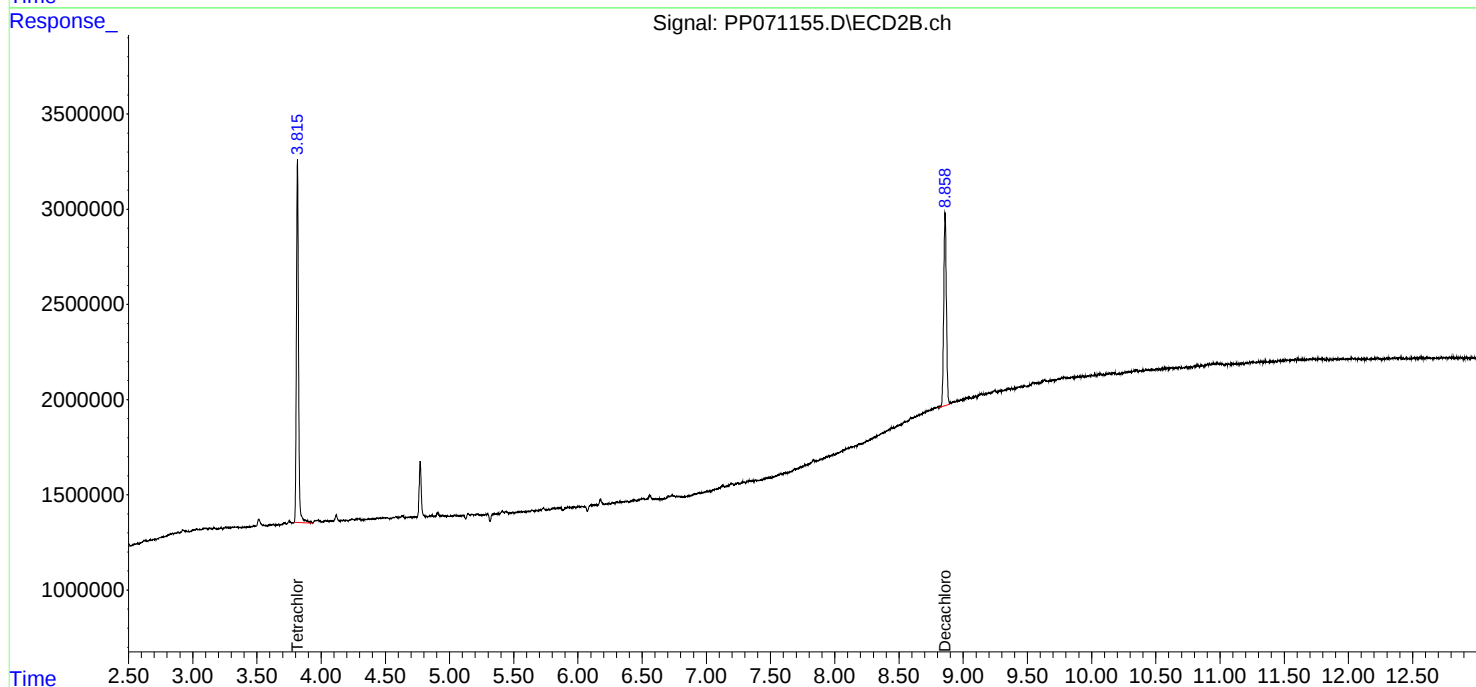
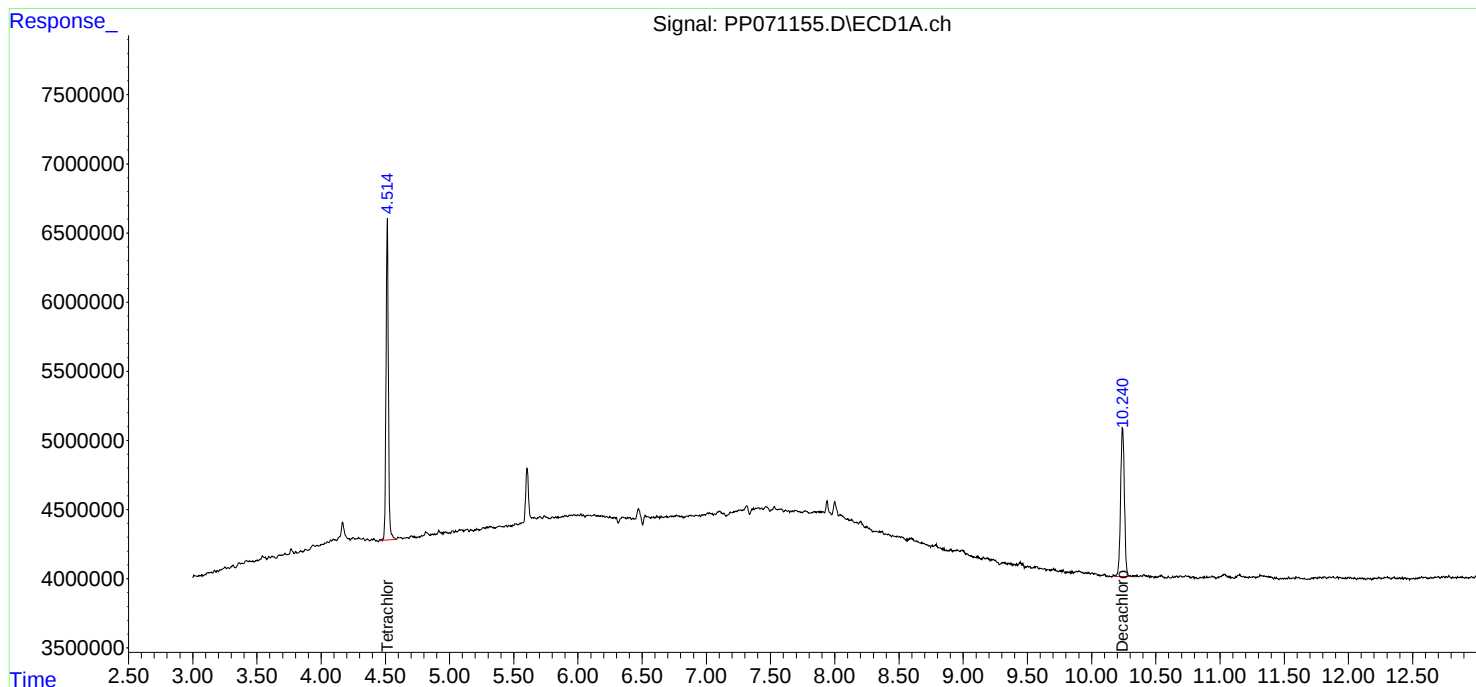
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

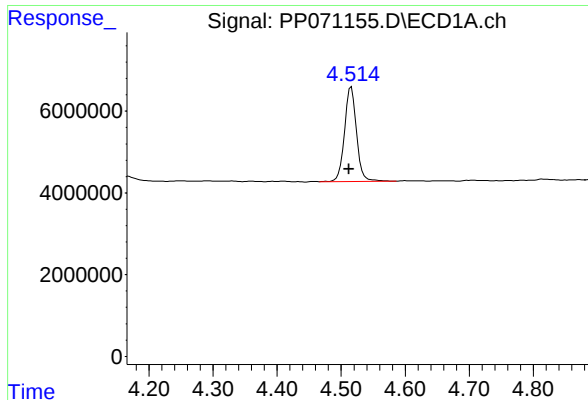
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 16:51
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 17:04:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

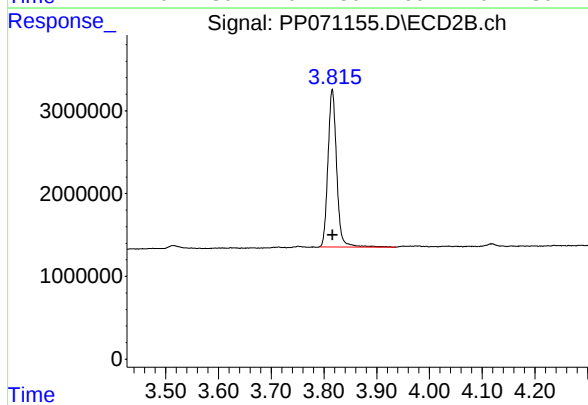




#1 Tetrachloro-m-xylene

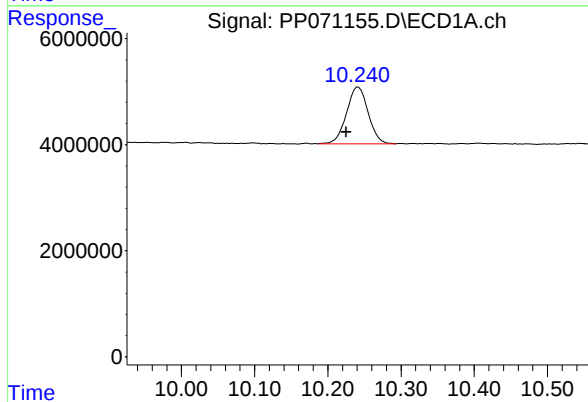
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 30070321
Conc: 20.57 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



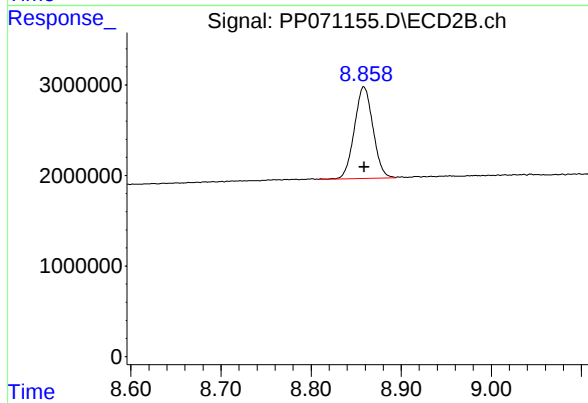
#1 Tetrachloro-m-xylene

R.T.: 3.816 min
Delta R.T.: 0.000 min
Response: 21846080
Conc: 21.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.242 min
Delta R.T.: 0.016 min
Response: 22060594
Conc: 20.96 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.859 min
Delta R.T.: 0.000 min
Response: 14463728
Conc: 18.35 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071168.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071168.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071168.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		70 (60) - 130 (140)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		70 (60) - 130 (140)	100%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071168.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 22:05
 Operator : YP\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 09 00:28:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.515	3.815	30115762	20522560	20.605	19.797
2) SA Decachlor...	10.239	8.855	22067464	15833543	20.964	20.088

Target Compounds

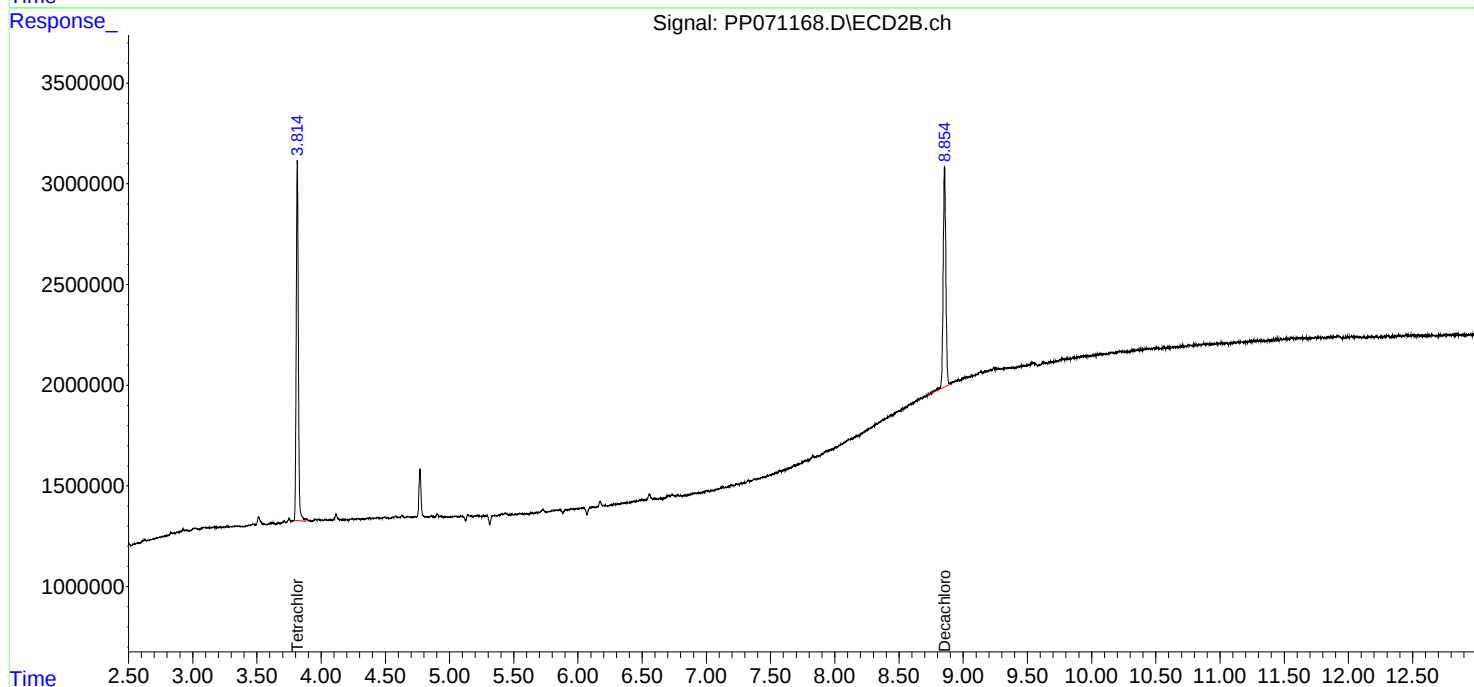
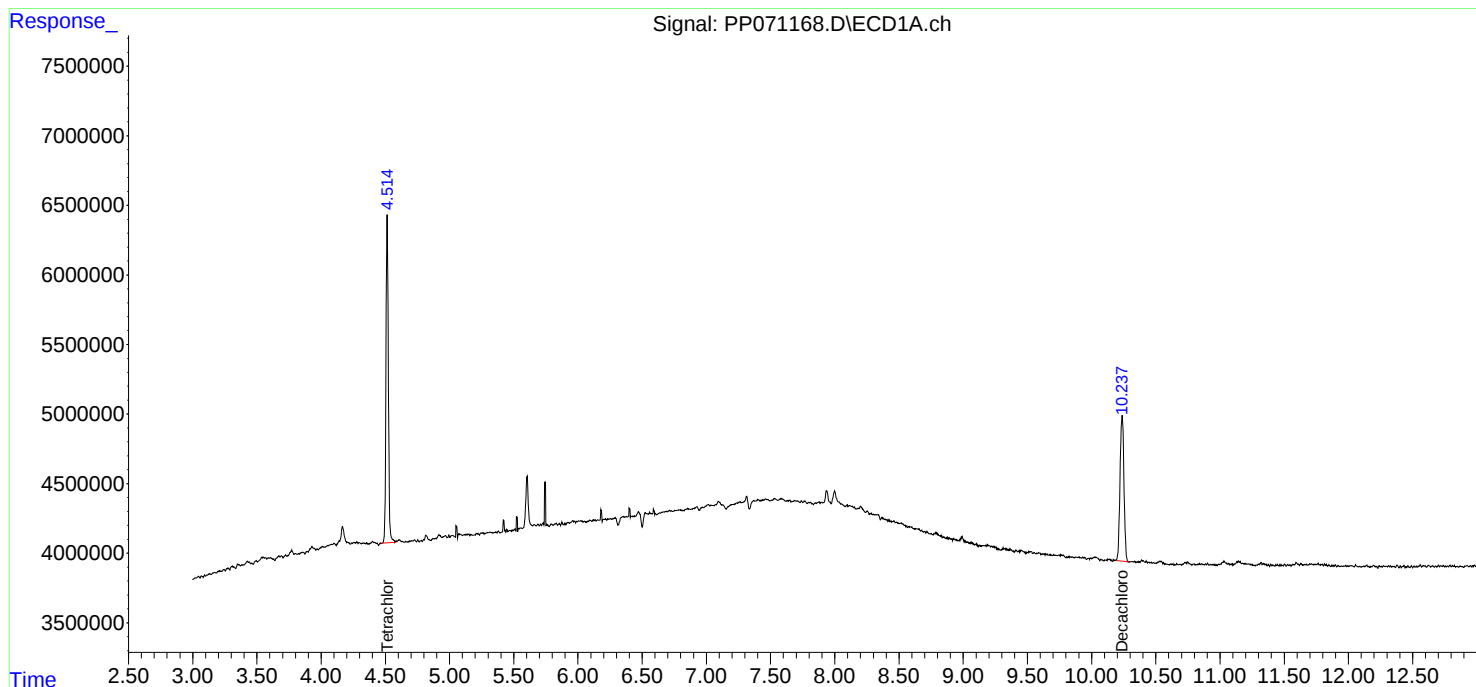
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

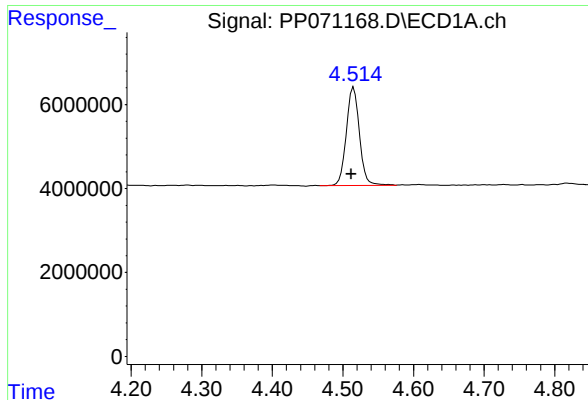
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071168.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 22:05
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:28:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm

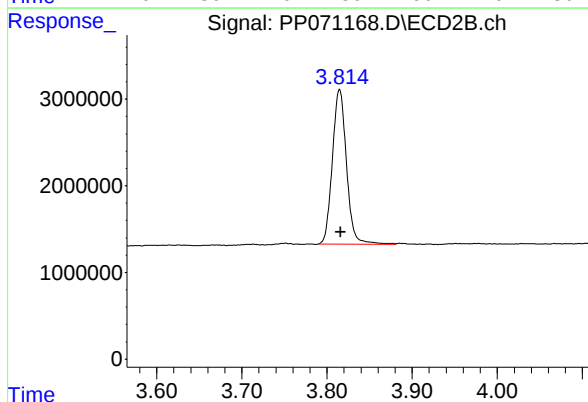




#1 Tetrachloro-m-xylene

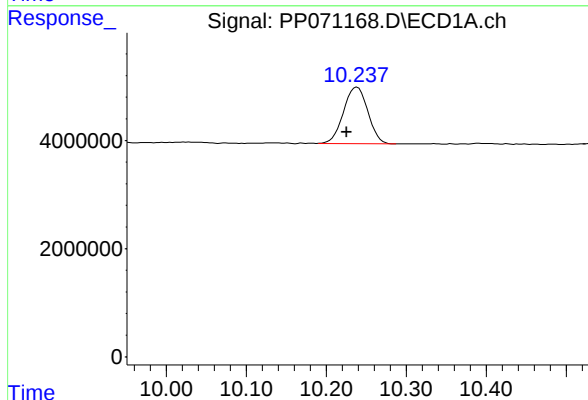
R.T.: 4.515 min
Delta R.T.: 0.003 min
Response: 30115762
Conc: 20.61 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



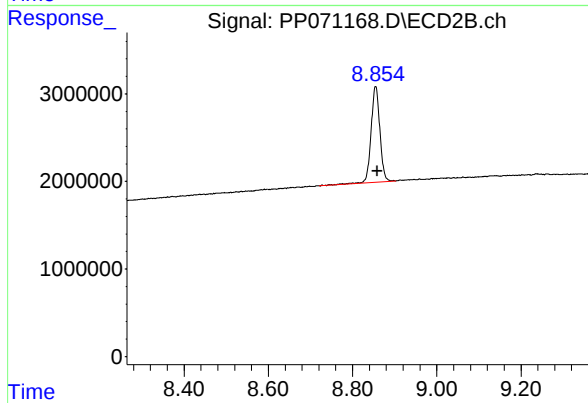
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: -0.001 min
Response: 20522560
Conc: 19.80 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.239 min
Delta R.T.: 0.013 min
Response: 22067464
Conc: 20.96 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.855 min
Delta R.T.: -0.004 min
Response: 15833543
Conc: 20.09 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167507BS		SDG No.:	Q1744	
Lab Sample ID:	PB167507BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071157.D	1	04/08/25 08:11	04/08/25 17:23	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	181		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	188		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.3		30 (32) - 150 (144)	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.7		30 (32) - 150 (175)	129%	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_P\Data\PP040825\
 Data File : PP071157.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 17:23
 Operator : YP\AJ
 Sample : PB167507BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 PB167507BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 09 00:24:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.518	3.816	38497139	25576966	26.339	24.673
2) SA Decachlor...	10.244	8.857	27062627	17843775	25.710	22.639
Target Compounds						
3) L1 AR-1016-1	5.672	4.902	27097063	20471956	532.869	510.673
4) L1 AR-1016-2	5.694	4.920	41876414	28888897	536.508	499.246
5) L1 AR-1016-3	5.757	5.098	25159092	16299226	533.319	527.086
6) L1 AR-1016-4	5.854	5.139	20816722	13800122	566.353	566.603
7) L1 AR-1016-5	6.147	5.354	18775964	17370284	553.665	537.427
31) L7 AR-1260-1	7.267	6.390	38086561	31565391	567.163	616.435
32) L7 AR-1260-2	7.521	6.578	57469980	38686426	597.796	606.429
33) L7 AR-1260-3	7.880	6.731	38146478	34219624	477.319	628.035 #
34) L7 AR-1260-4	8.105	7.203	38255618	24195511	485.866	505.904
35) L7 AR-1260-5	8.425	7.445	75466317	58288523	474.971	468.142

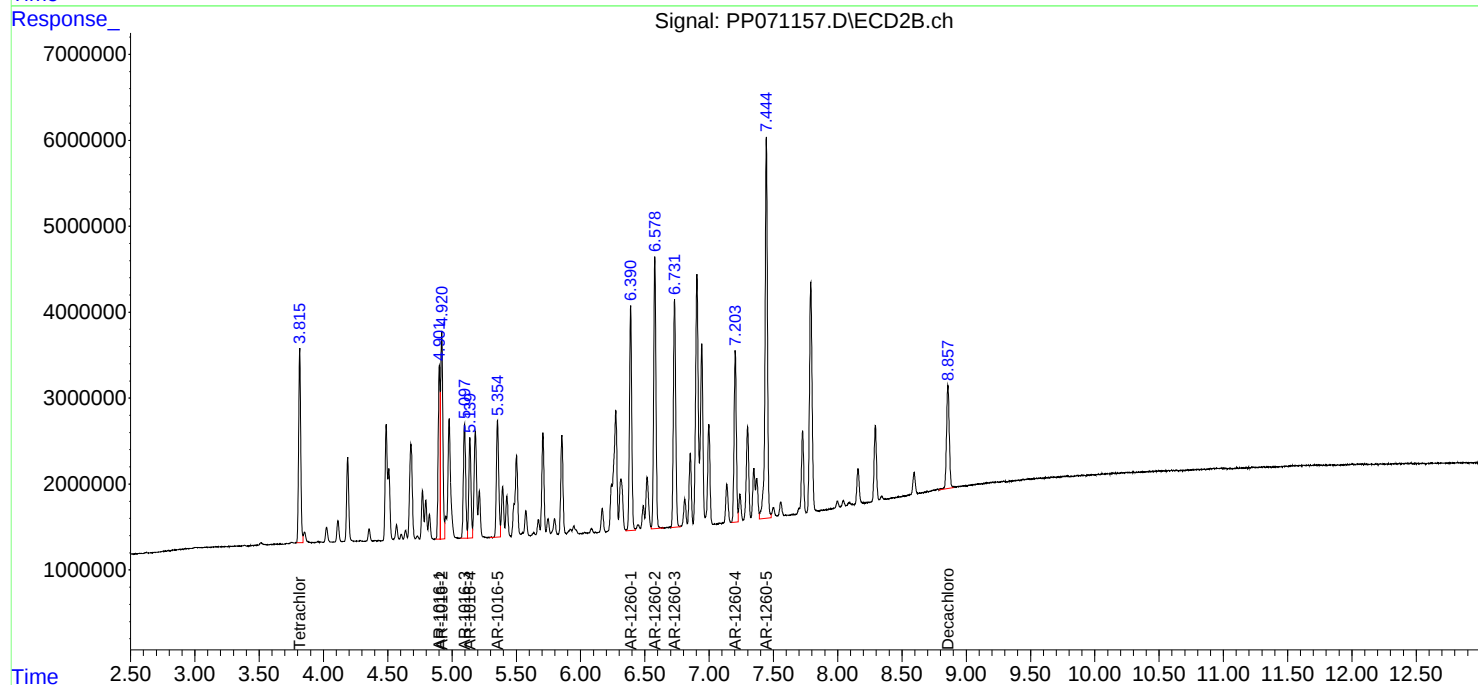
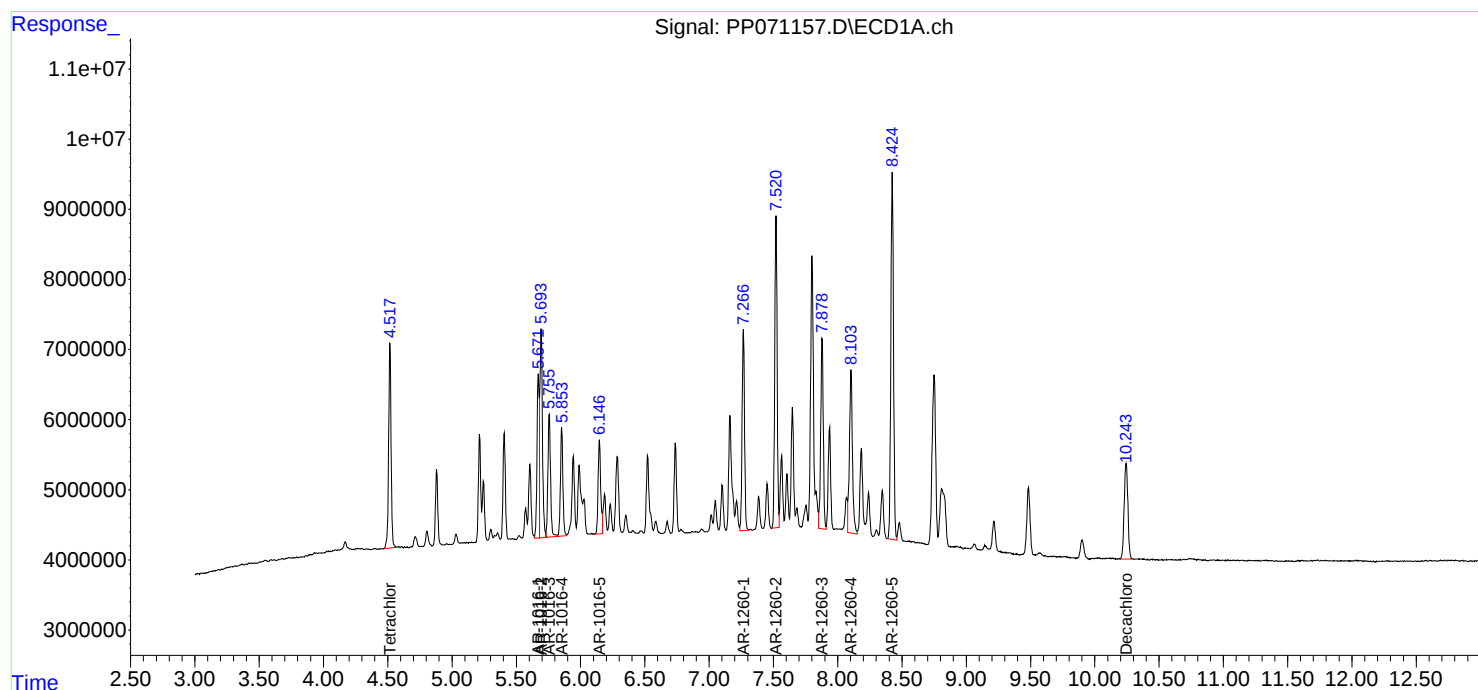
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:23
Operator : YP\AJ
Sample : PB167507BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MS	SDG No.:	Q1744
Lab Sample ID:	Q1742-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071147.D	1	04/08/25 08:11	04/08/25 13:41	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	176		4.50	19.4	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.4	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.4	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.4	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.4	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.4	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.4	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.4	ug/kg
11096-82-5	Aroclor-1260	188		3.70	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		30 (32) - 150 (144)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		30 (32) - 150 (175)	115%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
 Data File : PP071147.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 13:41
 Operator : YP\AJ
 Sample : Q1742-01MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 TR-06-040725MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/09/2025
 Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 14:15:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.514	3.816	27332299	20908590	18.701m	20.170
2) SA Decachlor...	10.243	8.858	24249000	15705126	23.037	19.925
Target Compounds						
3) L1 AR-1016-1	5.670	4.902	22970342	17618377	451.716	439.491
4) L1 AR-1016-2	5.692	4.921	32920730	24304467	421.771	420.020
5) L1 AR-1016-3	5.754	5.097	20545367	13907076	435.518	449.728
6) L1 AR-1016-4	5.852	5.140	20759803	11304852	564.805	464.152
7) L1 AR-1016-5	6.145	5.354	15138267	14442439	446.397	446.841
31) L7 AR-1260-1	7.265	6.390	38056781	26377008	566.719	515.112
32) L7 AR-1260-2	7.519	6.579	53815085	31645634	559.779	496.061
33) L7 AR-1260-3	7.878	6.732	34258366	27370584	428.668	502.334
34) L7 AR-1260-4	8.103	7.204	36215500	19705112	459.956	412.014
35) L7 AR-1260-5	8.423	7.445	73760190	46946118	464.233	377.046

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:41
Operator : YP\AJ
Sample : Q1742-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :

ECD_P

ClientSampleId :

TR-06-040725MS

Manual Integrations

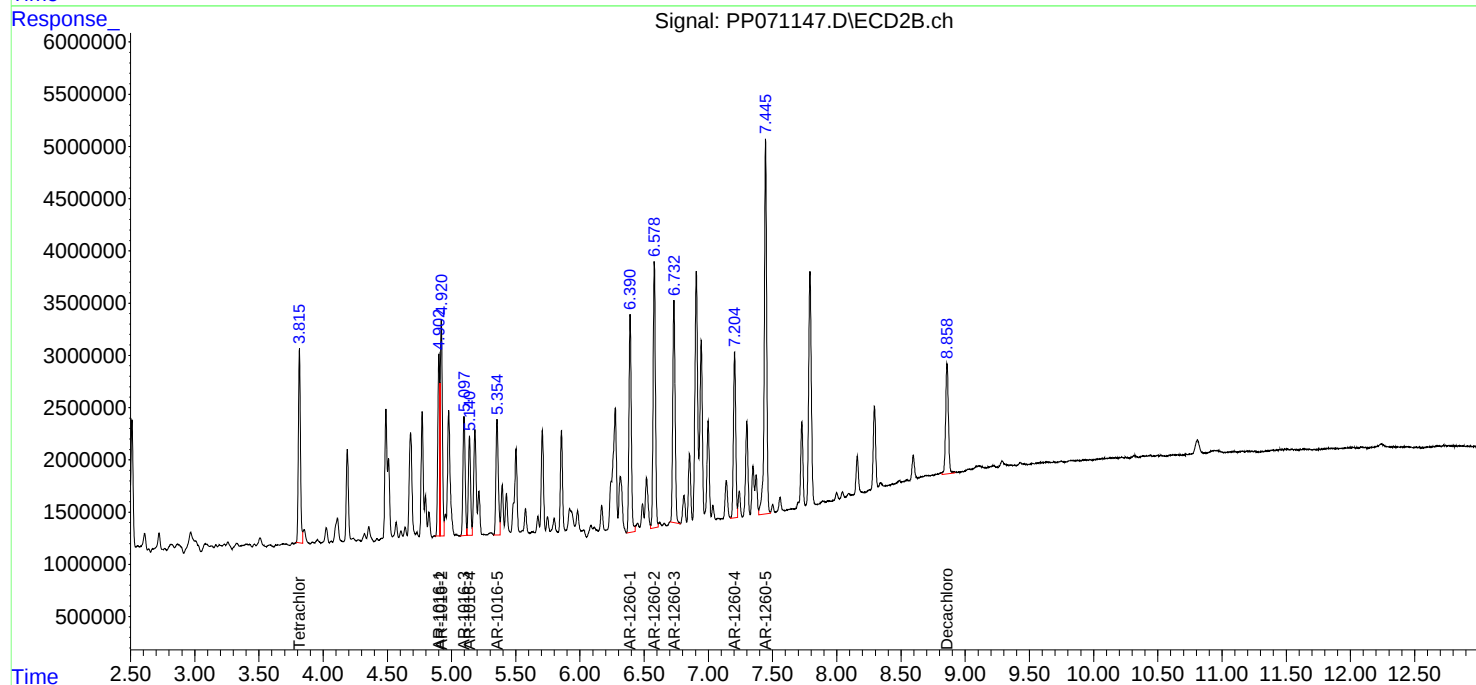
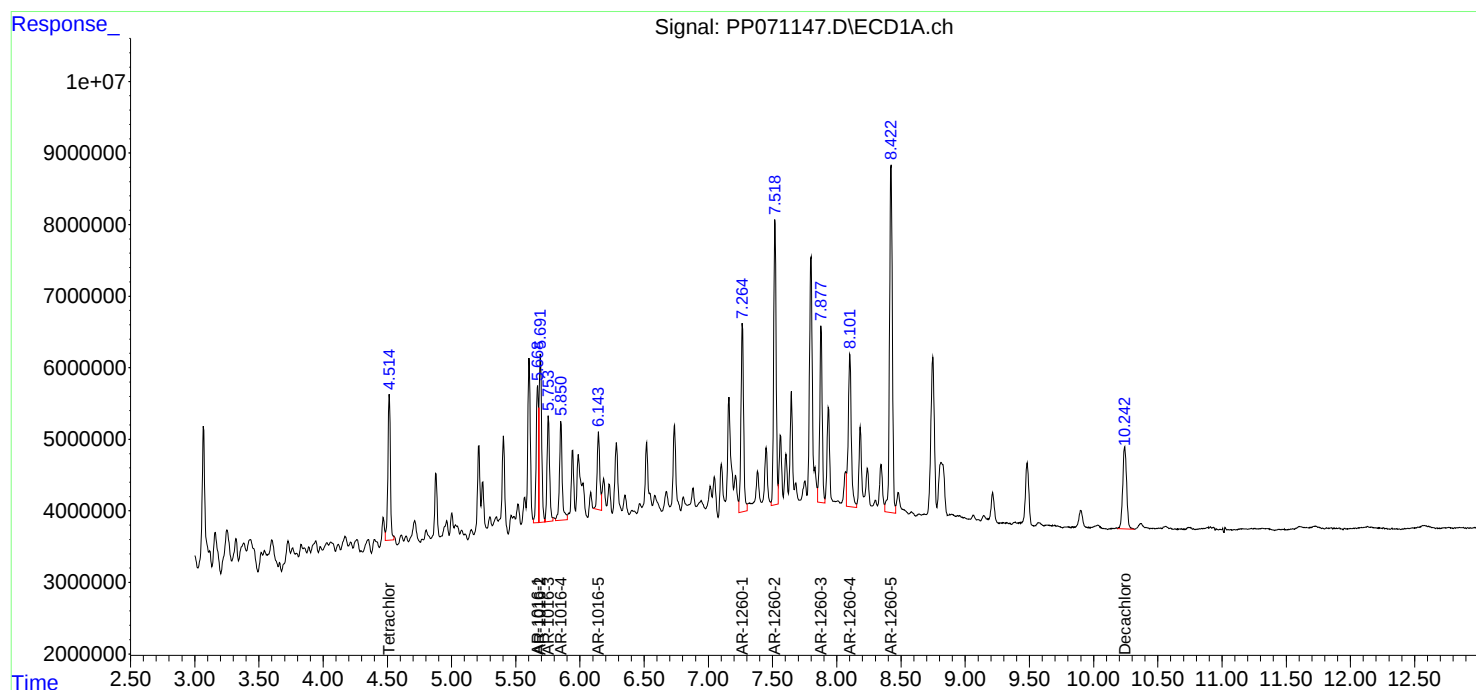
APPROVED

Reviewed By :Yogesh Patel 04/09/2025

Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:15:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MSD	SDG No.:	Q1744
Lab Sample ID:	Q1742-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071148.D	1	04/08/25 08:11	04/08/25 13:57	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	173		4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	177		3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (32) - 150 (175)	112%	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_P\Data\PP040825\
 Data File : PP071148.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Apr 2025 13:57
 Operator : YP\AJ
 Sample : Q1742-01MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 TR-06-040725MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/09/2025
 Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 08 14:31:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.517	3.815	25476701	21963900	17.431m	21.188
2) SA Decachlor...	10.247	8.858	23506426	16173777	22.331	20.520
Target Compounds						
3) L1 AR-1016-1	5.673	4.902	22639729	18047298	445.215	450.190
4) L1 AR-1016-2	5.695	4.921	32357640	24967273	414.556	431.474
5) L1 AR-1016-3	5.758	5.098	20155342	14283830	427.250	461.911
6) L1 AR-1016-4	5.855	5.140	20368243	11652250	554.151	478.416
7) L1 AR-1016-5	6.148	5.355	14646639	14845132	431.900	459.300
31) L7 AR-1260-1	7.269	6.391	36708721	25430138	546.645	496.621
32) L7 AR-1260-2	7.522	6.579	50769132	30372822	528.095	476.109
33) L7 AR-1260-3	7.881	6.733	31997309	26271275	400.376	482.158
34) L7 AR-1260-4	8.106	7.205	33485937	18393580	425.289	384.591
35) L7 AR-1260-5	8.426	7.445	69050583	44825369	434.592	360.013

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:57
Operator : YP\AJ
Sample : Q1742-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

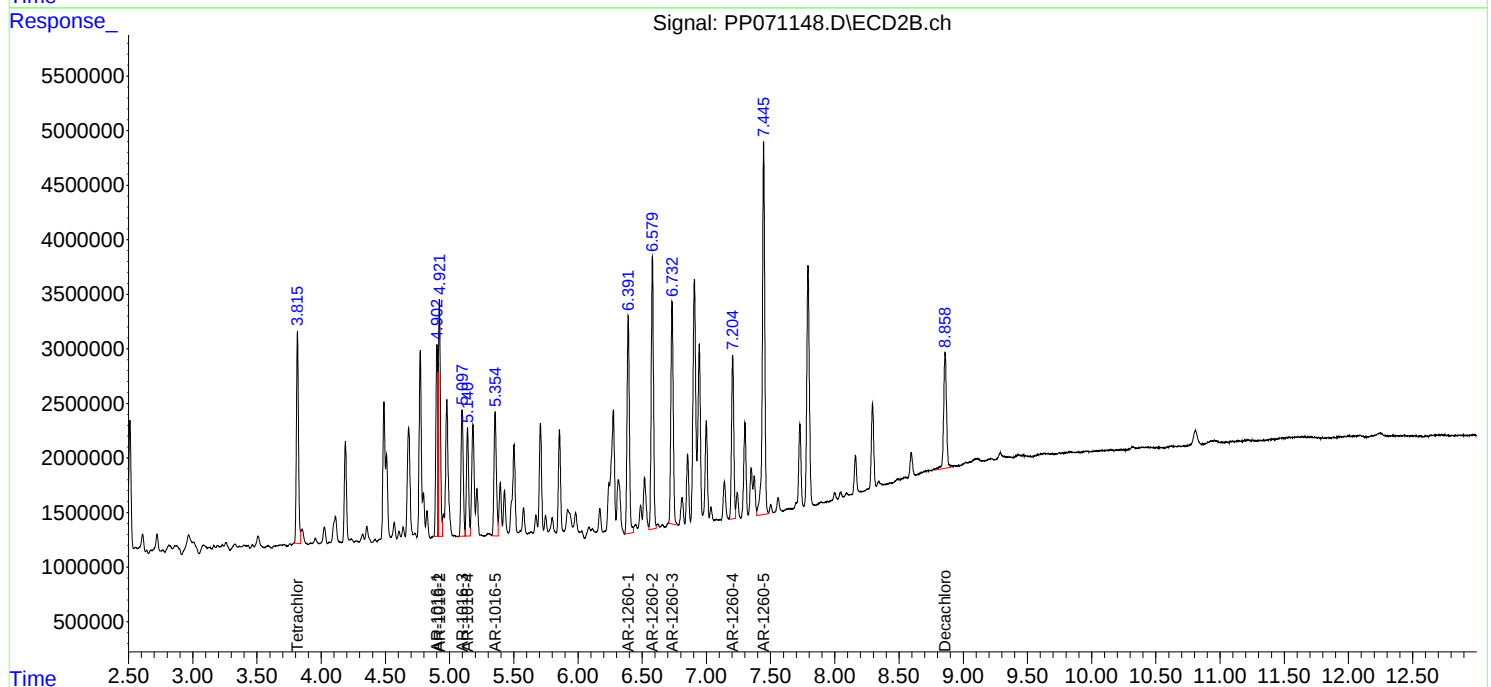
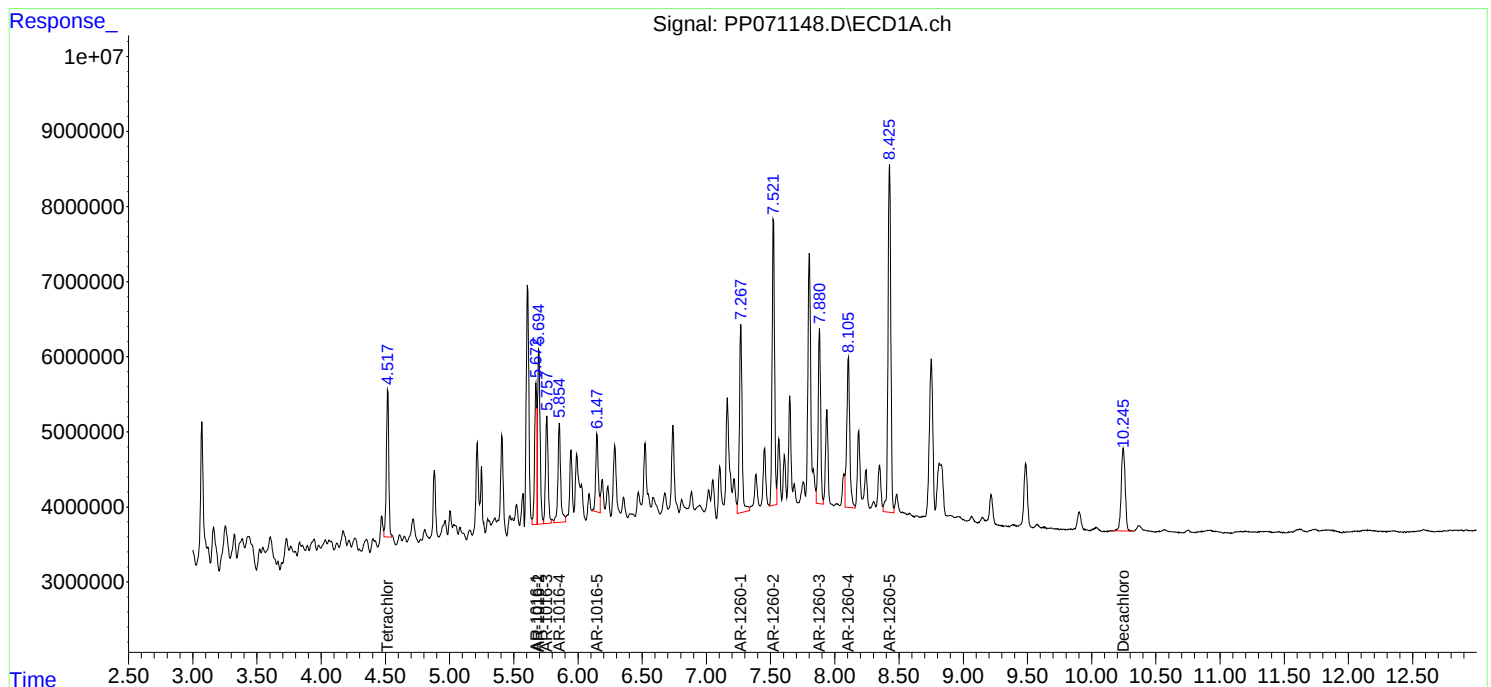
Instrument :
ECD_P
ClientSampleId :
TR-06-040725MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP070920.D	AR-1260-3	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-4	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-5	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1016-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-1	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-3	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-4	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1232ICC500	PP070923.D	Decachlorobiphenyl	yogesh	3/28/2025 7:37:40 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-1	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-3	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

Manual Integration Report

Sequence:

PP032725

Instrument

ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070928.D	AR-1242-4	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-4 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-2	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-3	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-4	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-5	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC1000	PP070934.D	AR-1254-5	yogesh	3/28/2025 7:37:45 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC750	PP070935.D	AR-1254-5	yogesh	3/28/2025 7:37:47 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC250	PP070937.D	AR-1254-5	yogesh	3/28/2025 7:37:48 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC1000	PP070940.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:50 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC750	PP070941.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:51 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

Manual Integration Report

Sequence:

PP032725

Instrument

ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP070942.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:53 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC250	PP070943.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:55 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-4 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	Tetrachloro-m-xylene	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICV500	PP070948.D	AR-1254-5	yogesh	3/28/2025 7:37:58 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

Manual Integration Report

Sequence:

PP040825

Instrument

ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP071136.D	AR-1260-4	yogesh	4/9/2025 9:18:11 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MS	PP071147.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:13 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MSD	PP071148.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:15 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM
SubDirectory	PP032725	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070915.D	27 Mar 2025 09:58	YP\AJ	Ok
2	I.BLK	PP070916.D	27 Mar 2025 10:14	YP\AJ	Ok
3	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30	YP\AJ	Ok
4	AR1660ICC750	PP070918.D	27 Mar 2025 10:47	YP\AJ	Ok
5	AR1660ICC500	PP070919.D	27 Mar 2025 11:03	YP\AJ	Ok
6	AR1660ICC250	PP070920.D	27 Mar 2025 11:19	YP\AJ	Ok,M
7	AR1660ICC050	PP070921.D	27 Mar 2025 11:35	YP\AJ	Ok,M
8	AR1221ICC500	PP070922.D	27 Mar 2025 11:52	YP\AJ	Ok
9	AR1232ICC500	PP070923.D	27 Mar 2025 12:11	YP\AJ	Ok,M
10	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28	YP\AJ	Ok
11	AR1242ICC750	PP070925.D	27 Mar 2025 12:44	YP\AJ	Ok
12	AR1242ICC500	PP070926.D	27 Mar 2025 13:00	YP\AJ	Ok
13	AR1242ICC250	PP070927.D	27 Mar 2025 13:16	YP\AJ	Ok
14	AR1242ICC050	PP070928.D	27 Mar 2025 13:33	YP\AJ	Ok,M
15	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49	YP\AJ	Ok
16	AR1248ICC750	PP070930.D	27 Mar 2025 14:05	YP\AJ	Ok
17	AR1248ICC500	PP070931.D	27 Mar 2025 14:22	YP\AJ	Ok
18	AR1248ICC250	PP070932.D	27 Mar 2025 14:38	YP\AJ	Ok
19	AR1248ICC050	PP070933.D	27 Mar 2025 14:55	YP\AJ	Ok,M
20	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11	YP\AJ	Ok,M
21	AR1254ICC750	PP070935.D	27 Mar 2025 15:27	YP\AJ	Ok,M

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM
SubDirectory	PP032725	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	AR1254ICC500	PP070936.D	27 Mar 2025 15:43	YP\AJ	Ok
23	AR1254ICC250	PP070937.D	27 Mar 2025 16:00	YP\AJ	Ok,M
24	AR1254ICC050	PP070938.D	27 Mar 2025 16:16	YP\AJ	Ok
25	AR1262ICC500	PP070939.D	27 Mar 2025 16:32	YP\AJ	Ok
26	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48	YP\AJ	Ok,M
27	AR1268ICC750	PP070941.D	27 Mar 2025 17:05	YP\AJ	Ok,M
28	AR1268ICC500	PP070942.D	27 Mar 2025 17:21	YP\AJ	Ok,M
29	AR1268ICC250	PP070943.D	27 Mar 2025 17:37	YP\AJ	Ok,M
30	AR1268ICC050	PP070944.D	27 Mar 2025 17:53	YP\AJ	Ok,M
31	PP032725ICV500	PP070945.D	27 Mar 2025 18:26	YP\AJ	Ok
32	AR1242ICV500	PP070946.D	27 Mar 2025 18:42	YP\AJ	Ok
33	AR1248ICV500	PP070947.D	27 Mar 2025 19:15	YP\AJ	Ok
34	AR1254ICV500	PP070948.D	27 Mar 2025 19:47	YP\AJ	Ok,M
35	AR1268ICV500	PP070949.D	27 Mar 2025 20:20	YP\AJ	Ok

M : Manual Integration

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM
SubDirectory	PP040825	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071135.D	08 Apr 2025 08:39	YP\AJ	Ok
2	AR1660CCC500	PP071136.D	08 Apr 2025 09:37	YP\AJ	Ok,M
3	AR1242CCC500	PP071137.D	08 Apr 2025 09:56	YP\AJ	Ok
4	AR1248CCC500	PP071138.D	08 Apr 2025 10:33	YP\AJ	Ok
5	AR1254CCC500	PP071139.D	08 Apr 2025 10:49	YP\AJ	Ok
6	I.BLK	PP071140.D	08 Apr 2025 11:05	YP\AJ	Ok
7	PB167469BL	PP071141.D	08 Apr 2025 11:23	YP\AJ	Not Ok
8	Q1730-15	PP071142.D	08 Apr 2025 11:39	YP\AJ	Ok
9	Q1730-17	PP071143.D	08 Apr 2025 11:56	YP\AJ	Ok
10	Q1730-19	PP071144.D	08 Apr 2025 12:12	YP\AJ	Ok
11	Q1740-01	PP071145.D	08 Apr 2025 13:08	YP\AJ	Ok
12	Q1742-01	PP071146.D	08 Apr 2025 13:25	YP\AJ	Ok,M
13	Q1742-01MS	PP071147.D	08 Apr 2025 13:41	YP\AJ	Ok,M
14	Q1742-01MSD	PP071148.D	08 Apr 2025 13:57	YP\AJ	Ok,M
15	Q1743-01	PP071149.D	08 Apr 2025 14:14	YP\AJ	Ok,M
16	Q1744-01	PP071150.D	08 Apr 2025 14:30	YP\AJ	Ok
17	AR1660CCC500	PP071151.D	08 Apr 2025 15:29	YP\AJ	Ok
18	AR1242CCC500	PP071152.D	08 Apr 2025 16:02	YP\AJ	Ok
19	AR1248CCC500	PP071153.D	08 Apr 2025 16:18	YP\AJ	Ok
20	AR1254CCC500	PP071154.D	08 Apr 2025 16:34	YP\AJ	Ok
21	I.BLK	PP071155.D	08 Apr 2025 16:51	YP\AJ	Ok

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM
SubDirectory	PP040825	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB167507BL	PP071156.D	08 Apr 2025 17:07	YP\AJ	Ok
23	PB167507BS	PP071157.D	08 Apr 2025 17:23	YP\AJ	Ok
24	Q1744-03	PP071158.D	08 Apr 2025 17:40	YP\AJ	Ok
25	Q1745-01	PP071159.D	08 Apr 2025 17:56	YP\AJ	Ok,M
26	Q1745-09	PP071160.D	08 Apr 2025 18:12	YP\AJ	Ok,M
27	Q1746-01	PP071161.D	08 Apr 2025 18:28	YP\AJ	Ok
28	Q1746-03	PP071162.D	08 Apr 2025 18:45	YP\AJ	Ok
29	Q1747-01	PP071163.D	08 Apr 2025 19:01	YP\AJ	Ok,M
30	AR1660CCC500	PP071164.D	08 Apr 2025 20:28	YP\AJ	Ok
31	AR1242CCC500	PP071165.D	08 Apr 2025 21:17	YP\AJ	Ok
32	AR1248CCC500	PP071166.D	08 Apr 2025 21:33	YP\AJ	Ok
33	AR1254CCC500	PP071167.D	08 Apr 2025 21:49	YP\AJ	Ok
34	I.BLK	PP071168.D	08 Apr 2025 22:05	YP\AJ	Ok

M : Manual Integration

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM
SubDirectory	PP032725	HP Acquire Method	HP Processing Method PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070915.D	27 Mar 2025 09:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP070916.D	27 Mar 2025 10:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP070918.D	27 Mar 2025 10:47		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP070919.D	27 Mar 2025 11:03		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP070920.D	27 Mar 2025 11:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP070921.D	27 Mar 2025 11:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070922.D	27 Mar 2025 11:52		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP070923.D	27 Mar 2025 12:11		YP\AJ	Ok,M
10	AR1242ICC1000	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070925.D	27 Mar 2025 12:44		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP070926.D	27 Mar 2025 13:00		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070927.D	27 Mar 2025 13:16		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP070928.D	27 Mar 2025 13:33		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070930.D	27 Mar 2025 14:05		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070931.D	27 Mar 2025 14:22		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070932.D	27 Mar 2025 14:38		YP\AJ	Ok

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM
SubDirectory	PP032725	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,P P24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP 24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	AR1248ICC050	AR1248ICC050	PP070933.D	27 Mar 2025 14:55		YPIAJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11		YPIAJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070935.D	27 Mar 2025 15:27		YPIAJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070936.D	27 Mar 2025 15:43		YPIAJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070937.D	27 Mar 2025 16:00		YPIAJ	Ok,M
24	AR1254ICC050	AR1254ICC050	PP070938.D	27 Mar 2025 16:16		YPIAJ	Ok
25	AR1262ICC500	AR1262ICC500	PP070939.D	27 Mar 2025 16:32		YPIAJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48		YPIAJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP070941.D	27 Mar 2025 17:05		YPIAJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070942.D	27 Mar 2025 17:21		YPIAJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP070943.D	27 Mar 2025 17:37		YPIAJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070944.D	27 Mar 2025 17:53		YPIAJ	Ok,M
31	PP032725ICV500	ICVPP032725	PP070945.D	27 Mar 2025 18:26		YPIAJ	Ok
32	AR1242ICV500	ICVPP032725AR1242	PP070946.D	27 Mar 2025 18:42		YPIAJ	Ok
33	AR1248ICV500	ICVPP032725AR1248	PP070947.D	27 Mar 2025 19:15		YPIAJ	Ok
34	AR1254ICV500	ICVPP032725AR1254	PP070948.D	27 Mar 2025 19:47		YPIAJ	Ok,M
35	AR1268ICV500	ICVPP032725AR1268	PP070949.D	27 Mar 2025 20:20		YPIAJ	Ok

M : Manual Integration

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM
SubDirectory	PP040825	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,P P24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP 24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071135.D	08 Apr 2025 08:39		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP071136.D	08 Apr 2025 09:37		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP071137.D	08 Apr 2025 09:56		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP071138.D	08 Apr 2025 10:33		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP071139.D	08 Apr 2025 10:49		YP\AJ	Ok
6	I.BLK	I.BLK	PP071140.D	08 Apr 2025 11:05		YP\AJ	Ok
7	PB167469BL	PB167469BL	PP071141.D	08 Apr 2025 11:23	not required	YP\AJ	Not Ok
8	Q1730-15	OU4-PCS-TC-25-04032	PP071142.D	08 Apr 2025 11:39		YP\AJ	Ok
9	Q1730-17	OU4-PCS-TC-26-04032	PP071143.D	08 Apr 2025 11:56		YP\AJ	Ok
10	Q1730-19	OU4-CF-15-040325	PP071144.D	08 Apr 2025 12:12	DCB High in 2ND column	YP\AJ	Ok
11	Q1740-01	TP-20	PP071145.D	08 Apr 2025 13:08		YP\AJ	Ok
12	Q1742-01	TR-06-040725	PP071146.D	08 Apr 2025 13:25		YP\AJ	Ok,M
13	Q1742-01MS	TR-06-040725MS	PP071147.D	08 Apr 2025 13:41		YP\AJ	Ok,M
14	Q1742-01MSD	TR-06-040725MSD	PP071148.D	08 Apr 2025 13:57		YP\AJ	Ok,M
15	Q1743-01	TP-16	PP071149.D	08 Apr 2025 14:14	AR1260 Hit	YP\AJ	Ok,M
16	Q1744-01	B-158-SB01	PP071150.D	08 Apr 2025 14:30	TCMX High in 2nd column	YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP071151.D	08 Apr 2025 15:29		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP071152.D	08 Apr 2025 16:02		YP\AJ	Ok

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM
SubDirectory	PP040825	HP Acquire Method	HP Processing Method PP032725
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,P P24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP 24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369		
CCC	PP24332,PP24347,PP24352,PP24357		
Internal Standard/PEM			
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	AR1248CCC500	AR1248CCC500	PP071153.D	08 Apr 2025 16:18		YPIAJ	Ok
20	AR1254CCC500	AR1254CCC500	PP071154.D	08 Apr 2025 16:34		YPIAJ	Ok
21	I.BLK	I.BLK	PP071155.D	08 Apr 2025 16:51		YPIAJ	Ok
22	PB167507BL	PB167507BL	PP071156.D	08 Apr 2025 17:07		YPIAJ	Ok
23	PB167507BS	PB167507BS	PP071157.D	08 Apr 2025 17:23		YPIAJ	Ok
24	Q1744-03	B-158-SB02	PP071158.D	08 Apr 2025 17:40		YPIAJ	Ok
25	Q1745-01	IB-6A-WC	PP071159.D	08 Apr 2025 17:56		YPIAJ	Ok,M
26	Q1745-09	IB-6.5-WC	PP071160.D	08 Apr 2025 18:12		YPIAJ	Ok,M
27	Q1746-01	B-149-SB01	PP071161.D	08 Apr 2025 18:28		YPIAJ	Ok
28	Q1746-03	B-149-SB02	PP071162.D	08 Apr 2025 18:45		YPIAJ	Ok
29	Q1747-01	ARS20-0008	PP071163.D	08 Apr 2025 19:01		YPIAJ	Ok,M
30	AR1660CCC500	AR1660CCC500	PP071164.D	08 Apr 2025 20:28		YPIAJ	Ok
31	AR1242CCC500	AR1242CCC500	PP071165.D	08 Apr 2025 21:17		YPIAJ	Ok
32	AR1248CCC500	AR1248CCC500	PP071166.D	08 Apr 2025 21:33		YPIAJ	Ok
33	AR1254CCC500	AR1254CCC500	PP071167.D	08 Apr 2025 21:49		YPIAJ	Ok
34	I.BLK	I.BLK	PP071168.D	08 Apr 2025 22:05		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/8/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 04/07/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:19
Out Date: 04/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135324

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
Q1740-01	TP-20	1	1.14	9.97	11.11	9.88	87.7	
Q1740-02	TP-20-E2	2	1.15	10.14	11.29	10.06	87.9	
Q1740-03	TP-20-VOC	3	1.18	11.96	13.14	11.9	89.6	
Q1742-01	TR-06-040725	17	1.14	10.11	11.25	10.00	87.6	
Q1742-02	TR-06-040725-E2	18	1.18	10.20	11.38	10.24	88.8	
Q1743-01	TP-16	4	1.14	10.15	11.29	10.74	94.6	
Q1743-02	TP-16-EPH	5	1.16	9.91	11.07	9.27	81.8	
Q1743-03	TP-16-VOC	6	1.14	10.34	11.48	10.84	93.8	
Q1744-01	B-158-SB01	7	1.12	9.66	10.78	9.81	90.0	
Q1744-03	B-158-SB02	8	1.18	10.73	11.91	7.19	56.0	
Q1745-01	IB-6A-WC	9	1.17	10.10	11.27	9.76	85.0	
Q1745-02	IB-6A-EPH	10	1.18	9.96	11.14	9.56	84.1	
Q1745-03	IB-6A-VOC	11	1.18	10.06	11.24	9.98	87.5	
Q1745-09	IB-6.5-WC	12	1.15	10.49	11.64	8.65	71.5	
Q1745-10	IB-6.5-EPH	13	1.18	10.26	11.44	8.46	71.0	
Q1745-11	IB-6.5-VOC	14	1.15	9.98	11.13	7.93	67.9	
Q1746-01	B-149-SB01	15	1.14	10.17	11.31	10.22	89.3	
Q1746-03	B-149-SB02	16	1.14	10.23	11.37	9.81	84.8	
Q1747-01	ARS20-0008	19	1.15	10.33	11.48	11.08	96.1	
Q1747-02	ARS20-0008-E2	20	1.19	10.08	11.27	10.8	95.3	

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

WORKLIST(Hardcopy Internal Chain)

135324

WorkList Name : %1-040725 WorkList ID : 188763 Department : Wet-Chemistry Date : 04-07-2025 08:21:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1740-02	TP-20-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1740-03	TP-20-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	04/04/2025	Chemtech -SO
Q1742-01	TR-06-040725	Solid	Percent Solids	Cool 4 deg C	PSEG05		04/04/2025	Chemtech -SO
Q1742-02	TR-06-040725-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05		04/04/2025	Chemtech -SO
Q1743-01	TP-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1743-02	TP-16-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1743-03	TP-16-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L33	04/07/2025	Chemtech -SO
Q1744-01	B-158-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1744-03	B-158-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1745-01	IB-6A-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-02	IB-6A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-03	IB-6A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-09	IB-6.5-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-10	IB-6.5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1745-11	IB-6.5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/07/2025	Chemtech -SO
Q1746-01	B-149-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/05/2025	Chemtech -SO
Q1746-03	B-149-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L41	04/06/2025	Chemtech -SO
Q1747-01	ARS20-0008	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	04/07/2025	Chemtech -SO
Q1747-02	ARS20-0008-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	04/07/2025	Chemtech -SO

Date/Time 04/07/25 15:25
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/07/25
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

17.15
 [Signature]

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Acid Cleanup

Extraction Start Date : 04/08/2025

Matrix : Solid

Extraction Start Time : 08:11

Weigh By: EH

Extraction By: RJ

Extraction End Date : 04/08/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 11:25

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: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24328
Surrogate	1.0ML	200 PPB	PP24217
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	EP2601
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Hexane	N/A	E3916
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

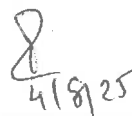
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 11:30	RP (Ext. Lab)	R - Pest/PCB Lab
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167507BL	ABLK507	PCB	30.02	N/A	ritesh	Evelyn	10			U7-1
PB167507BS	ALCS507	PCB	30.01	N/A	ritesh	Evelyn	10			2
Q1740-01	TP-20	PCB	30.05	N/A	ritesh	Evelyn	10	E		3
Q1742-01	TR-06-040725	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q1742-01MS	TR-06-040725MS	PCB	30.06	N/A	ritesh	Evelyn	10	E		5
Q1742-01MS D	TR-06-040725MSD	PCB	30.09	N/A	ritesh	Evelyn	10	E		6
Q1743-01	TP-16	PCB	30.04	N/A	ritesh	Evelyn	10	D		U2-1
Q1744-01	B-158-SB01	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
Q1744-03	B-158-SB02	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q1745-01	IB-6A-WC	PCB	30.07	N/A	ritesh	Evelyn	10	D		4
Q1745-09	IB-6.5-WC	PCB	30.08	N/A	ritesh	Evelyn	10	D		5
Q1746-01	B-149-SB01	PCB	30.06	N/A	ritesh	Evelyn	10	E		6
Q1746-03	B-149-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	F		U3-1
Q1747-01	ARS20-0008	PCB	30.03	N/A	ritesh	Evelyn	10	E		2

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : 1740 WorkList ID : 188788 Department : Extraction Date : 04-08-2025 08:08:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	PCB	Cool 4 deg C	PSEG03	L21	04/04/2025	8082A
Q1742-01	TR-06-040725	Solid	PCB	Cool 4 deg C	PSEG05		04/04/2025	8082A
Q1743-01	TP-16	Solid	PCB	Cool 4 deg C	PSEG03	L33	04/07/2025	8082A
Q1744-01	B-158-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1744-03	B-158-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1745-01	IB-6A-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1745-09	IB-6.5-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1746-01	B-149-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1746-03	B-149-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/06/2025	8082A
Q1747-01	ARS20-0008	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A

Date/Time : 04/08/25 8:10
 Raw Sample Received by: RJ (Ext 1045)
 Raw Sample Relinquished by: CJ

Date/Time : 04/08/25 8:35
 Raw Sample Received by: CJ
 Raw Sample Relinquished by: RJ (Ext 1045)

Prep Standard - Chemical Standard Summary

Order ID : Q1744

Test : PCB

Prepbatch ID : PB167507,

Sequence ID/Qc Batch ID: PP040825,

Standard ID :

EP2565,EP2599,EP2601,PP24217,PP24328,PP24329,PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369,PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387,

Chemical ID :

E2865,E3551,E3804,E3876,E3877,E3916,E3917,M5173,P11522,P12699,P12702,P12931,P12936,P12948,P12949,P12957,P13354,P13356,P13373,P13381,P13589,P13591,P13697,P13702,P13830,P13878,P13883,W3112,W3177,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2599	04/07/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
230	1:1ACETONE/HEXANE	EP2601	04/07/2025	10/03/2025	Rajesh Parikh	None	None	Riteshkumar Patel
								04/07/2025

FROM 8000.00000ml of E3916 + 8000.00000ml of E3917 = Final Quantity: 8000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
465	200 PPB Pest/PCB Surrogate Spike	PP24217	03/05/2025	08/25/2025	Abdul Mirza	None	None	Yogesh Patel
								03/06/2025

FROM 1.00000ml of P13354 + 999.00000ml of E3876 = Final Quantity: 1000.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3857	5000 PPB PCB SPIKE SOLUTION 2ND SOURCE	PP24328	03/17/2025	08/25/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 0.50000ml of P12948 + 99.50000ml of E3876 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP24329	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P13356 + 9.00000ml of W3177 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
202	AR1660 1000/100 ppb working solution 1st source	PP24330	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13697 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
203	AR1660 750 PPB STD	PP24331	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24330 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
204	AR1660 500 PPB STD	PP24332	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24330 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
205	AR1660 250 PPB STD	PP24333	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24330 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
206	AR1660 50 PPB STD	PP24334	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24332 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
213	AR1221 1000 PPB WORKING SOLUTION	PP24335	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13702 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1079	AR1221 750 PPB STD	PP24336	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24335 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
222	AR1221 500 PPB STD	PP24337	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24335 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1080	AR1221 250 PPB STD	PP24338	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24335 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1081	AR1221 50 PPB STD	PP24339	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24337 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
214	AR1232 1000 PPB WORKING SOLUTION	PP24340	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13878 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1063	AR1232 750 PPB STD	PP24341	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24340 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
223	AR1232 500 PPB STD	PP24342	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24340 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1064	AR1232 250 PPB STD	PP24343	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24340 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1065	AR1232 50 PPB STD	PP24344	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24342 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
215	AR1242 1000 PPB WORKING STD	PP24345	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P12931 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1067	AR1242 750 PPB STD	PP24346	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.75000ml of PP24345 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
224	AR1242 500 PPB STD	PP24347	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24345 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1068	AR1242 250 PPB STD	PP24348	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24345 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1069	AR1242 50 PPB STD	PP24349	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24347 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
216	AR1248 1000 PPB WORKING STD	PP24350	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P12936 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1075	AR1248 750 PPB STD	PP24351	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24350 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
225	AR1248 500 PPB STD	PP24352	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24350 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1076	AR1248 250 PPB STD	PP24353	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24350 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1077	AR1248 50 PPB STD	PP24354	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24352 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
217	AR1254 1000 PPB WORKING STD	PP24355	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13830 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1071	AR1254 750 PPB STD	PP24356	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24355 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
226	AR1254 500 PPB STD	PP24357	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24355 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1072	AR1254 250 PPB STD	PP24358	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24355 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1073	AR1254 50 PPB STD	PP24359	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24357 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1529	AR1262 1000 PPB Working Solution	PP24360	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13883 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3753	AR1262 750 PPB STD	PP24361	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24360 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1530	AR1262 500 PPB STD	PP24362	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24360 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3754	AR1262 250 PPB STD	PP24363	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24360 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3755	AR1262 50 PPB STD	PP24364	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24362 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1532	AR1268 1000 PPB Working Solution	PP24365	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.10000ml of P13381 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3820	AR1268 750 PPB STD	PP24366	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.25000ml of W3177 + 0.75000ml of PP24365 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1533	AR1268 500 PPB STD	PP24367	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24365 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3821	AR1268 250 PPB STD	PP24368	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.75000ml of W3177 + 0.25000ml of PP24365 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3822	AR1268 50 PPB STD	PP24369	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24367 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
404	AR1660 100 PPM Stock Solution 2nd Source	PP24370	03/18/2025	09/18/2025	Yogesh Patel	None	None	Abdul Mirza 04/03/2025

FROM 1.00000ml of P12949 + 9.00000ml of E3804 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
405	AR1660 1000/100 PPB ICV STD	PP24371	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza 04/03/2025

FROM 98.50000ml of W3177 + 0.50000ml of PP24329 + 1.00000ml of PP24370 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
406	AR1660 500 PPB ICV	PP24372	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24371 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3789	AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT)	PP24373	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P13373 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1886	AR1221 500 PPB ICV	PP24374	03/18/2025	08/12/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of E3877 + 0.50000ml of W3177 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1887	AR1232 1000 PPB Working Sol. 2nd Source	PP24375	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P12699 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1888	AR1232 500 PPB ICV	PP24376	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24375 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1889	AR1242 1000 PPB Working Sol. 2nd Source	PP24377	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P13589 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1891	AR1242 500 PPB ICV	PP24378	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24377 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1890	AR1248 1000 PPB Working Sol. 2nd Source	PP24379	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P13591 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1892	AR1248 500 PPB ICV	PP24380	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24379 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1893	AR1254 1000 PPB Working Sol. 2nd Source	PP24381	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P12957 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1894	AR1254 500 PPB ICV	PP24382	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24381 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3757	AR1262 1000 PPB Working Solution second source	PP24384	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P12702 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3758	AR1262 500 PPB STD ICV	PP24385	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24384 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3817	AR1268 1000 ppb Working Soln. 2nd source	PP24386	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P11522 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3823	AR1268 500 PPB STD ICV	PP24387	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza 04/03/2025
<u>FROM</u> 0.50000ml of W3177 + 0.50000ml of PP24386 = Final Quantity: 1.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	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	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	11/05/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3804

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 / Rajesh	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3916

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)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006587800	09/18/2025	03/18/2025 / yogesh	02/21/2022 / Ankita	P11522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc	91867 / Aroclor 1232 100 ug/mL	020823	09/18/2025	03/18/2025 / yogesh	08/07/2023 / Ankita	P12699

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc	x9166 / Aroclor 1262 100 ug/mL	060523	09/18/2025	03/18/2025 / yogesh	08/07/2023 / Ankita	P12702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32009 / PCB Mix, Aroclor 1242, 1000ug/mL, Hexane, 1mL/ampul	a0203672	09/18/2025	03/18/2025 / yogesh	12/07/2023 / Ankita	P12931

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul	a0202803	09/18/2025	03/18/2025 / yogesh	12/07/2023 / Ankita	P12936

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	022023	08/27/2025	02/27/2025 / Ankita	12/20/2023 / Yogesh	P12948

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	022023	09/18/2025	03/18/2025 / yogesh	12/20/2023 / Yogesh	P12949

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arochlor 1254	121823	04/03/2025	10/03/2024 / Ankita	12/20/2023 / Yogesh	P12957

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	09/05/2025	03/05/2025 / Abdul	04/22/2024 / Abdul	P13354

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	09/18/2025	03/18/2025 / yogesh	04/22/2024 / Abdul	P13356

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-292-1 / Aroclor 1221	0006783205	09/18/2025	03/18/2025 / yogesh	05/02/2024 / Ankita	P13373

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane	A0207475	09/18/2025	03/18/2025 / yogesh	05/03/2024 / Abdul	P13381

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-312-1 / Aroclor 1242	0006665550	09/18/2025	03/18/2025 / yogesh	10/14/2024 / Ankita	P13589

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-342-1 / Aroclor 1248	0006726317	09/18/2025	03/18/2025 / yogesh	10/14/2024 / Ankita	P13591

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32039 / PCB Mix, Aroclor 1016/1260, 1000ug/mL, hexane, 1mL/ampul	A0210629	09/18/2025	03/18/2025 / yogesh	10/17/2024 / yogesh	P13697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul	A0215270	09/18/2025	03/18/2025 / yogesh	10/17/2024 / yogesh	P13702

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul	A0217391	09/18/2025	03/18/2025 / yogesh	12/09/2024 / Ankita	P13830

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul	A0219655	09/18/2025	03/18/2025 / yogesh	01/23/2025 / Ankita	P13878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane	A0220950	09/18/2025	03/18/2025 / yogesh	01/23/2025 / Ankita	P13883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

Sand
Purified
Washed and Ignited



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

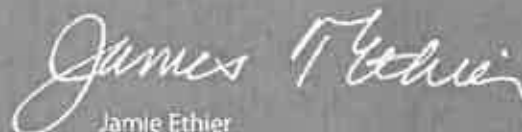
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	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


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
QUÍMICOS
MONTERREY, S.A. DE C.V.**

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

Recd by RP on 9/25/24

E 3804

>>> Continued on page 2 >>>

Acetone
CMOS

 **avantor™**



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

 **avantor™**



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
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For Microelectronic Use

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



Michelle Bales
Sr. Manager, Quality Assurance

Certificate of Analysis

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

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

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

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

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

Recd. by RP on 2/12/25

 E3877

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Certificate of Analysis

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

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

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

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

N/A

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

Harout Sahagian

Harout Sahagian - Quality Control Manager - Fair Lawn

Recd by RP on 3/31/25

E 3946

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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 03/31/25

E3917

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Certificate of Analysis

P11518
↓
P11522
AJ
02/21/22

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1

Lot Issue Date: 09-Feb-2021

Lot Number: 0006587800

Expiration Date: 31-Mar-2029

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

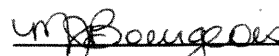
Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



CERTIFIED WEIGHT REPORT

Part Number: **91867**
 Lot Number: **020823**
 Description: **WP 037 - Aroclor 1232**
PCB Technical Mixture
 Expiration Date: **020833**
 Recommended Storage: **Ambient (20 °C)**
 Nominal Concentration ($\mu\text{g/mL}$): **100**
 NIST Test ID#: **6UTB**

Solvent(
Aceton

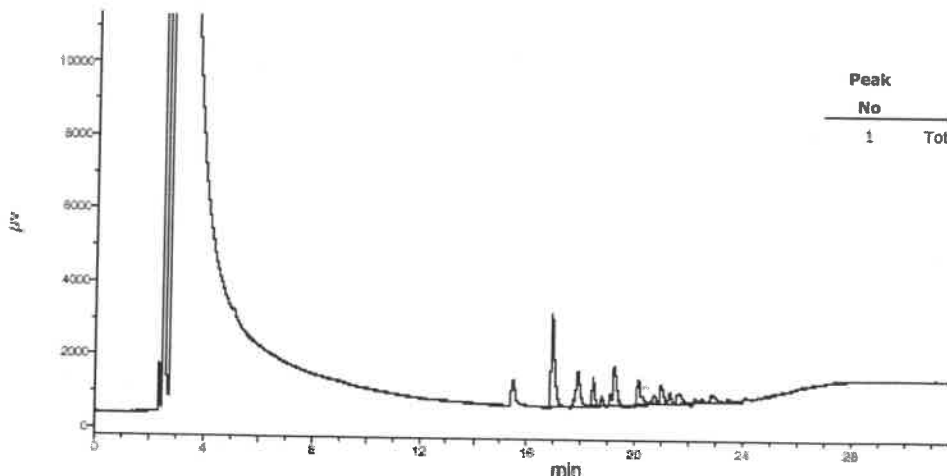
Weight(s) shown below were combined and diluted to (mL): **100.0**
 5E-05 Balance Uncertainty
 0.057 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc ($\mu\text{g/mL}$)	Purity (%)	Uncertainty Purity	Target Weight (g)
1. Aroclor 1232	17	45-6A	100	100	0.5	0.01000

- 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 ($\pm$) 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 Measure Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments

GC3-M1 Analysis by Melissa Stonier
 Column ID SPB-608 30 meter X 0.53mm X 5 μm film thickness
 Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
 Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
 Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
 Rate = 8°C/min, Total run time = 35 min
 Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
 Standard injection = 1.5 μL , Range=3





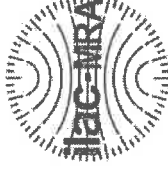
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 32009 **Lot No.:** A0203672

Description: Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date: January 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

p12928

→

p12932

AJ

12/27/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Aroclor 1242	53469-21-9	01141	—%	1,004.7 µg/mL	+/- 55.7515

Solvent: Hexane

CAS # 110-54-3

Purity 99%

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

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:

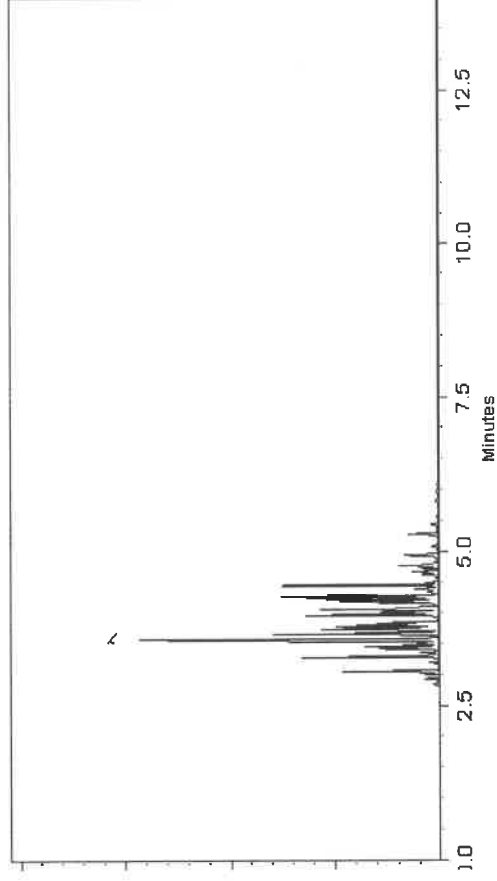
ECD

Split Vent:

10 ml/min.

Inj. Vol

0.2ul



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.

Russ Boothamer

Russ Boothamer - Operations Technician I

Date Mixed: 26-Oct-2023

Balance Serial #

B442140311

Jennifer Polino

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

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



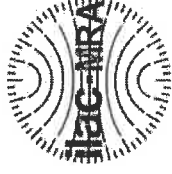
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 32010 **Lot No.:** A0202803

Description: Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date: January 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

P1219697
P1219697
A1
12104123

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Aroclor 1248	12672-29-6	13897600	---%	1,001.7 µg/mL	+/- 55.5850

Solvent: Hexane

CAS # 110-54-3

Purity 99%

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

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:

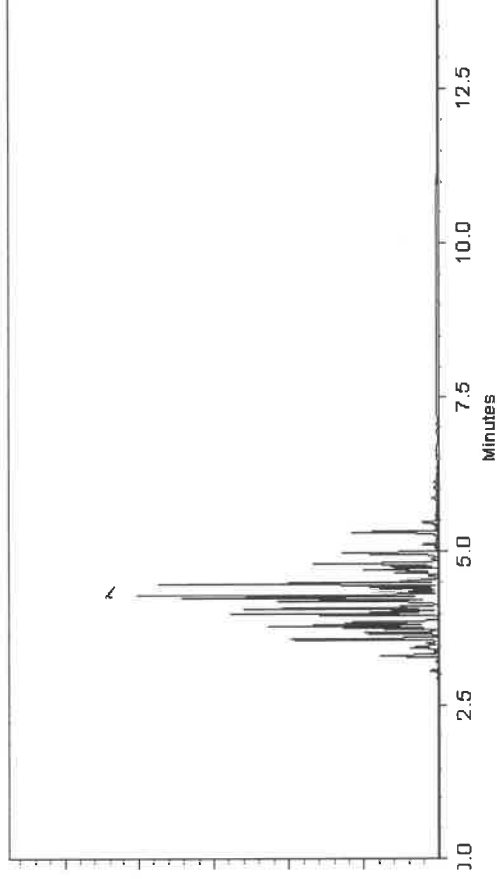
ECD

Split Vent:

10 ml/min.

Inj. Vol

0.2ul



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.

[Signature]
Laith Clemente - Operations Technician I

Date Mixed: 03-Oct-2023

Balance Serial # 1128360905

[Signature]
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Oct-2023

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



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT

Part Number:
20064

Lot Number:
022023

Description:
CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260

Expiration Date:
022033

Recommended Storage:
Ambient (20 °C)

Nominal Concentration (µg/mL):
1000

NIST Test ID#:
6UTB

Solvent(s):
Hexane

Lot#
273615

Formulated By:
Benson Chan

Reviewed By:
Pedro L. Rentas

DATE
022023

DATE
022023

Weight(s) shown below were combined and diluted to (mL.):
200.0

Balance Uncertainty
0.010

Flask Uncertainty
0.010

Part Number:
20064

Lot Number:
022023

Description:
CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260

Expiration Date:
022033

Recommended Storage:
Ambient (20 °C)

Nominal Concentration (µg/mL):
1000

NIST Test ID#:
6UTB

Solvent(s):
Hexane

Lot#
273615

Formulated By:
Benson Chan

Reviewed By:
Pedro L. Rentas

DATE
022023

DATE
022023

Weight(s) shown below were combined and diluted to (mL.):
200.0

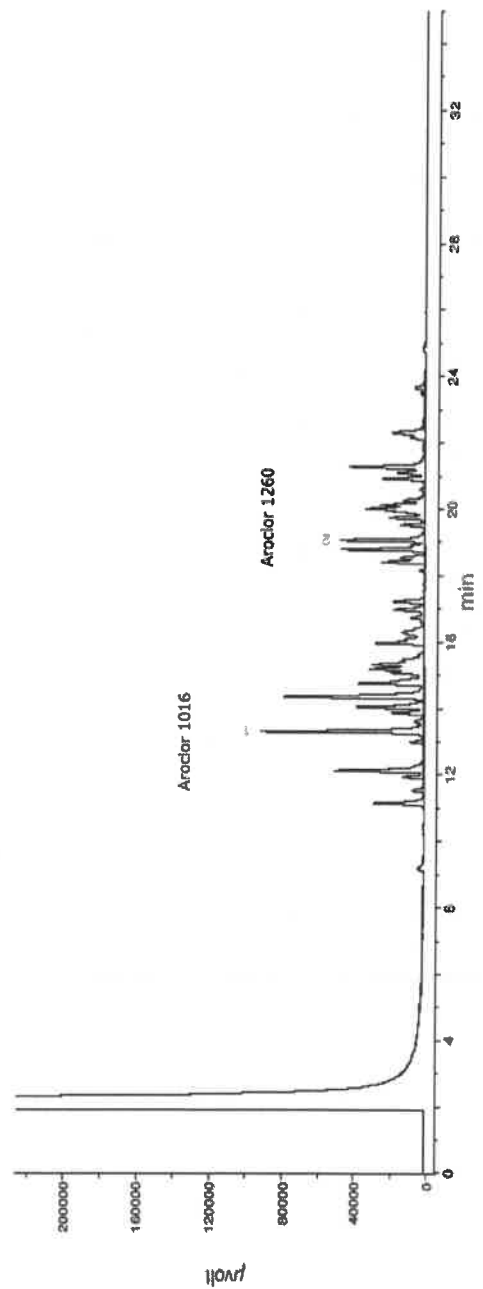
Balance Uncertainty
0.010

Flask Uncertainty
0.010

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20004	0.20060	1002.8	4.0	12674-11-2	N/A	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20004	0.20081	1003.9	4.0	11086-82-5	0.5mg/m3	orl-rat 1315mg/kg

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

Comments
GC3-M1 Analysis by Melissa Stortier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 280°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C, FID Signal = Etdaq Channel 1
Standard Injection = 1.5µL, Range=3





Certified Reference Material CRM

CERTIFIED WEIGHT REPORT

Part Number:
20084

Solvent(s):
Hexane

Lot#
273615

Lot Number:
022023

CLP PCB'S - Aroclor Mix

Description:
Aroclors 1016 & 1260

022033

Expiration Date:
Ambient (20 °C)

5E-05 Balance Uncertainty

Recommended Storage:
1000

0.010 Flask Uncertainty

Nominal Concentration (µg/mL):
6UTB

200.0

NIST Test ID#:

5E-05

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

200.0

Formulated By:
Benson Chan

022023

DATE

Reviewed By:
Pedro L. Rentas

022023

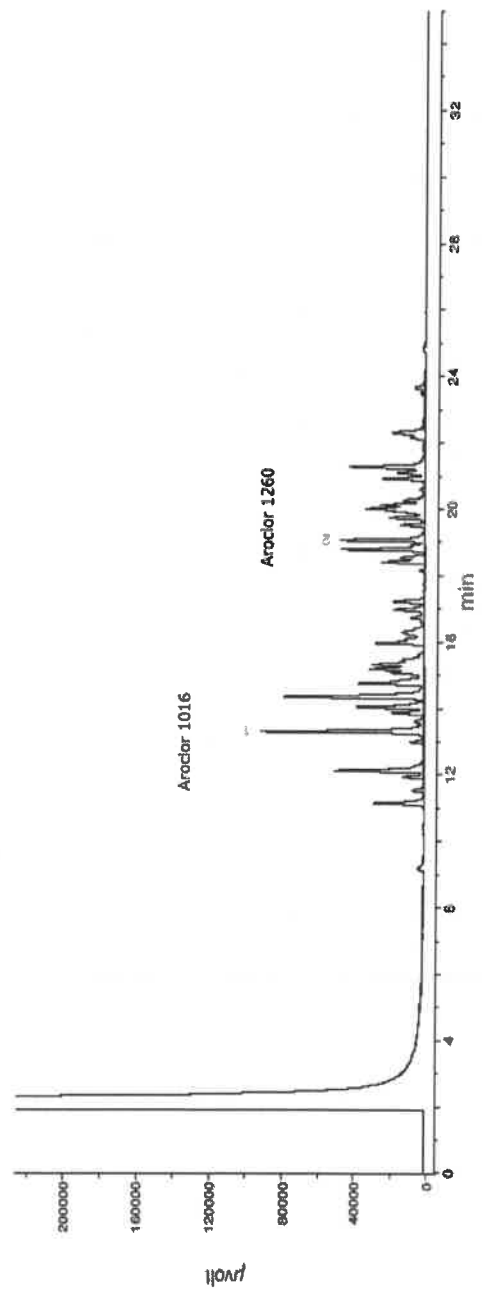
DATE

PR2946 7/18
↓
12/20/23
P12955

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	(SHA PEL (TWA) LD50
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20004	0.20060	1002.8	4.0	12674-11-2	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20004	0.20081	1003.9	4.0	11086-82-5	0.5mg/m3 orl-rat 1315mg/kg

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

Comments
GC3-M1 Analysis by Melissa Stortier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 280°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C, FID Signal = Etdaq Channel 1
Standard Injection = 1.5µL, Range=3





Certified Reference Material CRM

CERTIFIED WEIGHT REPORT

Part Number: 99139
Lot Number: 121823
Description: Aroclor 1254

Solvent(s): Iso-octane

Lot#: 82227

Expiration Date: 121833
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 100
NIST Test ID#: 6UTB

Volume(s) shown below were combined and diluted to (mL): 20.0
Note: Aroclor 1254 is a mix of isomers.

Formulated By: Anthony Mahoney	121823	DATE
Reviewed By: Pedro L. Rentas	121823	DATE

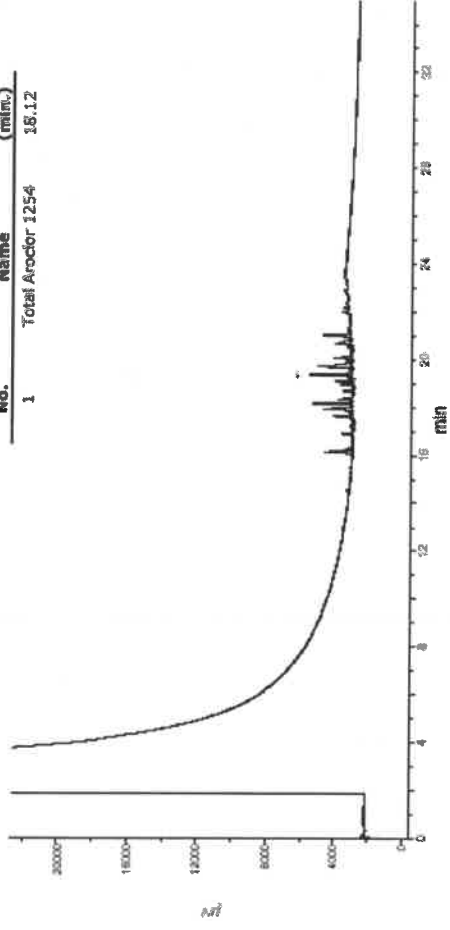
P12956 / Y.P.
12/18/23
P12957

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Initial Uncertainty	Pipette (mL)	Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information		
											(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA) LD50
1. Aroclor 1254	79100	121823	0.10	2.00	0.017	0.017	1003.3	100.1	1.8	11097-69-1	0.5mg/m3 (skin)		or-rat 1295mg/kg

* 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).

Comments
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150 °C (Time 1 = 4 min), Temp 2 = 280 °C (Time 2 = 13.5 min)
Rate = 8 °C/min, Total run time = 35 min
Injector temp. = 200 °C, FID Temp. = 300 °C, FID Signal = Etdaq Channel 1
Standard injection = 1.5µL, Range=3

Peak No.	Name	FID RT (min.)
1	Total Aroclor 1254	18.12





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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0206810

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

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

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

P13348
↓
P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

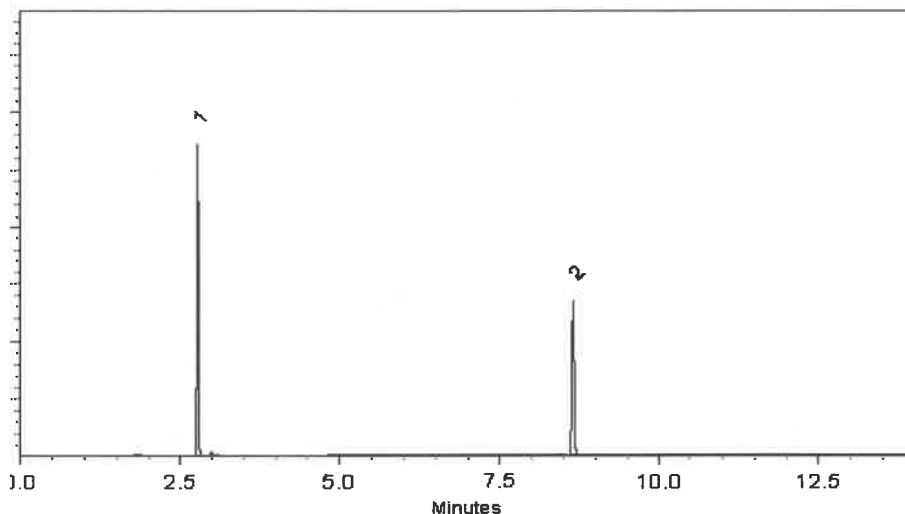
ECD

Split Vent:

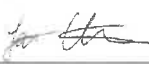
10 ml/min.

Inj. Vol

1µl

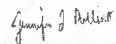


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

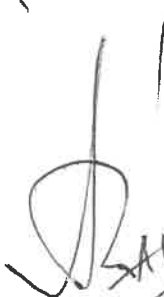
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
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P 13357
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SAUF
04/25/2025



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0206810

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

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

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

P13348
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P13357
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DAUF
04/25/2024

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

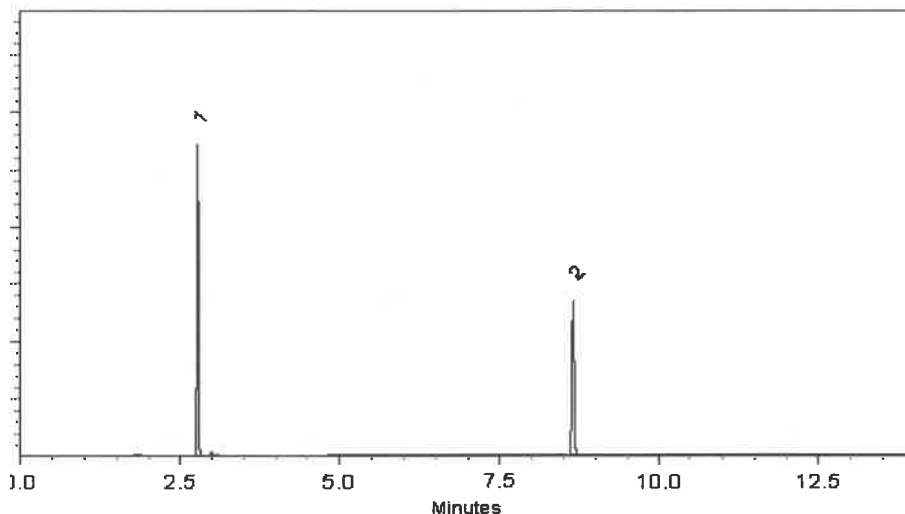
ECD

Split Vent:

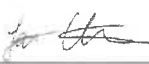
10 ml/min.

Inj. Vol

1µl

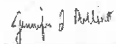


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

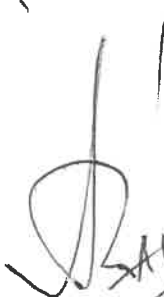
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
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P 13357
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SAUF
04/25/2025



ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Aroclor 1221 Standard
Product Number: PP-292-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006783205
Lot Issue Date: 20-Feb-2024
Expiration Date: 31-Mar-2032

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
Aroclor 1221	100.3 ±	0.5 µg/mL	011104-28-2	NT01017

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P13342
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P13343

Page: 1 of 2

CSD-QA-015.2

ISO 17025

Cert No. AT-1937

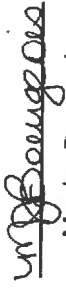
250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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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. : 32410 **Lot No.:** A0207475

Description : Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

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

Expiration Date : May 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1268	11100-14-4	10947000	---%	1,000.0 µg/mL	+/- 55.4925

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

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

P 13380
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P 13381
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SAZU
05/6/2024

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:

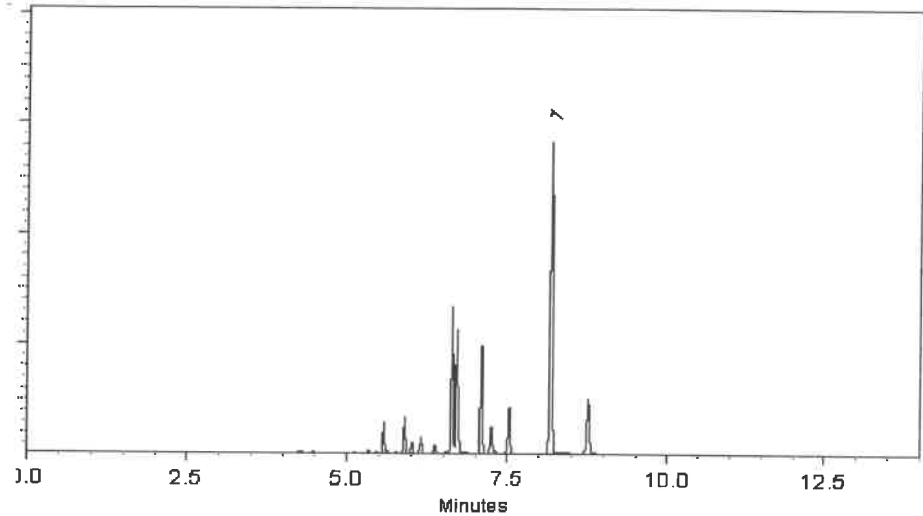
ECD

Split Vent:

Split ratio 500:1

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.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 06-Feb-2024

Balance Serial # B442140311

Dillon Murphy
Dillon Murphy - Operations Technician I

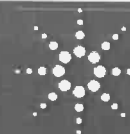
Date Passed: 09-Feb-2024

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

P13380 } ②
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[Signature]
05/6/2024

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Aroclor 1242 Standard

Lot Number: 0006665550

Product Number: PP-312-1

Lot Issue Date: 08-Feb-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Jan-2027

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
Aroclor 1242	100.4	± 0.5 µg/mL	053469-21-9	NT01020

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P13589
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P13590AJ
10/14/24

ISO 17034



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015
Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1



ISO 17025
Cert No. AT-

Reference Material Certificate
Product Information Sheet

Product Name: Aroclor 1248 Standard

Lot Number: 0006726317

Product Number: PP-342-1

Lot Issue Date: 27-Jan-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 28-Feb-2031

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3 ±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above. Purity values are taken from approved vendor raw material certificates.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference (RM) standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference (RM) standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard (RM) is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P13591
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P13592

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10/14/2024



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1

ISO 17025



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0210629

Description : Aroclor® 1016/1260 Mix
Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : July 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

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P13701 } Y.P.
10/19/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1016	12674-11-2	07	----%	1,005.3 µg/mL	+/- 55.7809
2	Aroclor 1260	11096-82-5	1320657	----%	1,000.0 µg/mL	+/- 55.4850

* 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:

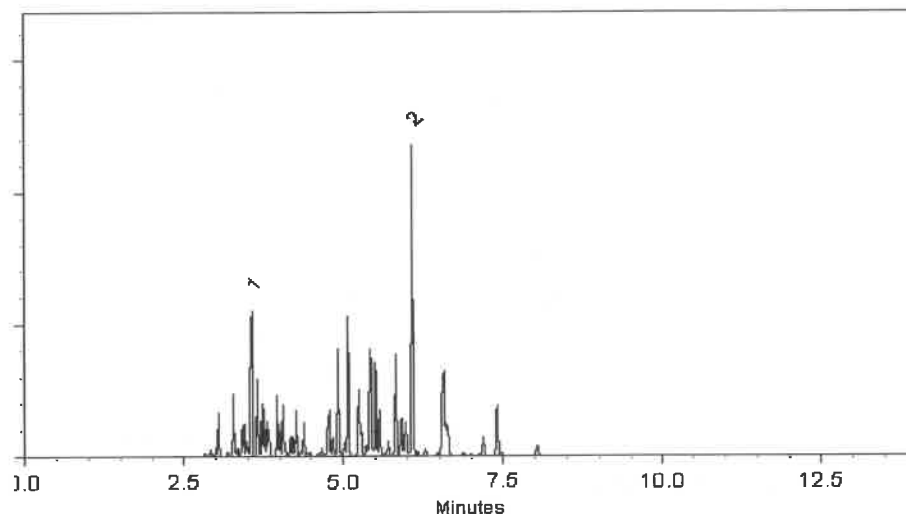
ECD

Split Vent:

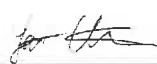
10 ml/min.

Inj. Vol

0.2µl

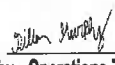


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B442140311


Dillan Murphy - Operations Technician I

Date Passed: 24-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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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. : 32007 **Lot No.:** A0215270

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : November 30, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

P13902 } Y.P.
P13703 } 10/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1221	11104-28-2	14969200	----%	1,005.0 µg/mL	+/- 55.7700

* 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:

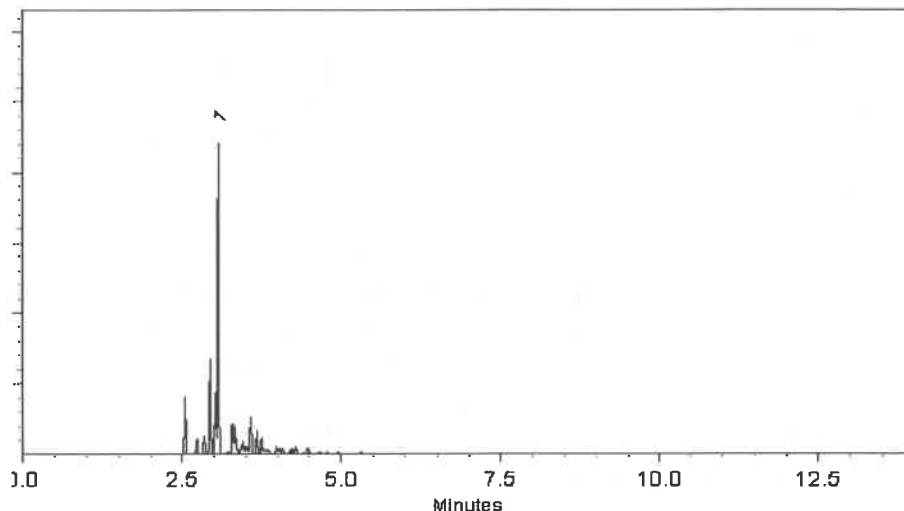
ECD

Split Vent:

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.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 16-Aug-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Aug-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32011 **Lot No.:** A0217391

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2031 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1254	11097-69-1	124-191-B	----%	1,004.7 µg/mL	+/- 55.7515

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

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

P13830
↓
P13832
AJ
12/09/24

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:

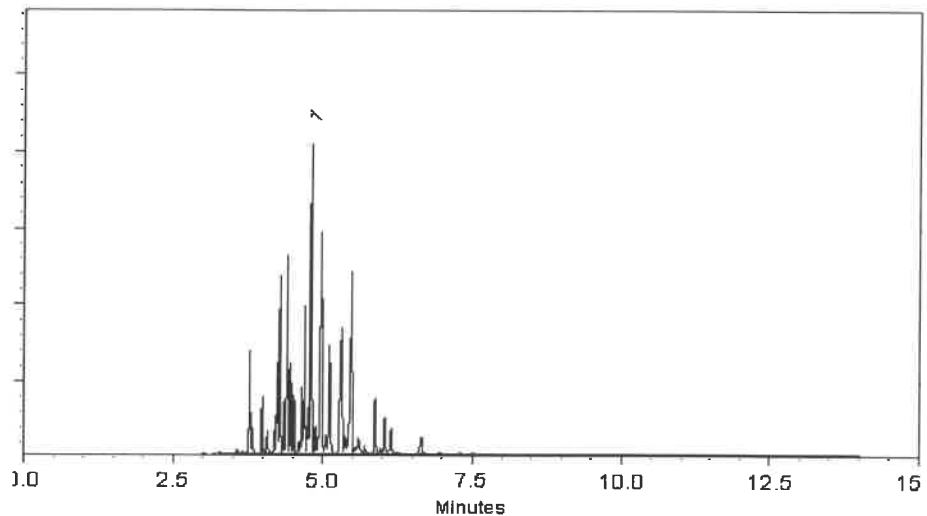
ECD

Split Vent:

300 ml/min.

Inj. Vol

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.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 02-Oct-2024

Balance Serial # C322230531

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Catalog No. : 32008

Lot No.: A0219655

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : March 31, 2031

Storage: 25°C nominal

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1232	11141-16-5	15665-01	---%	1,007.0 µg/mL	+/- 55.8810

Solvent: Hexane

CAS # 110-54-3

Purity 99%

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

P13878



AJ
01/28/25

P13880

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:

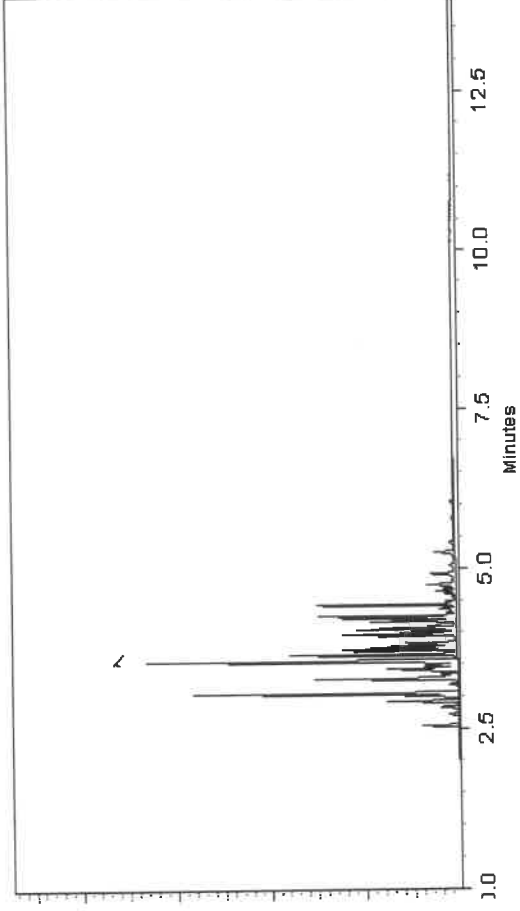
ECD

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.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 02-Dec-2024

Balance Serial #

C322230531

Brittany Federhik

Brittany Federhiko - Operations Tech I

Date Passed: 05-Dec-2024

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



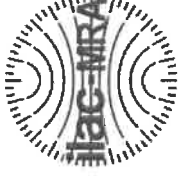
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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



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Catalog No.: 32409 **Lot No.:** A0220950

Description: Aroclor® 1262 Standard

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

Expiration Date: April 30, 2031 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1262	37324-23-5	10849100	----%	1,002.0 µg/mL	+/- 55.6035

Solvent: Hexane

CAS # 110-54-3
Purity 99%

P13882

↓

AJ
01/28/25

P13883

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

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:

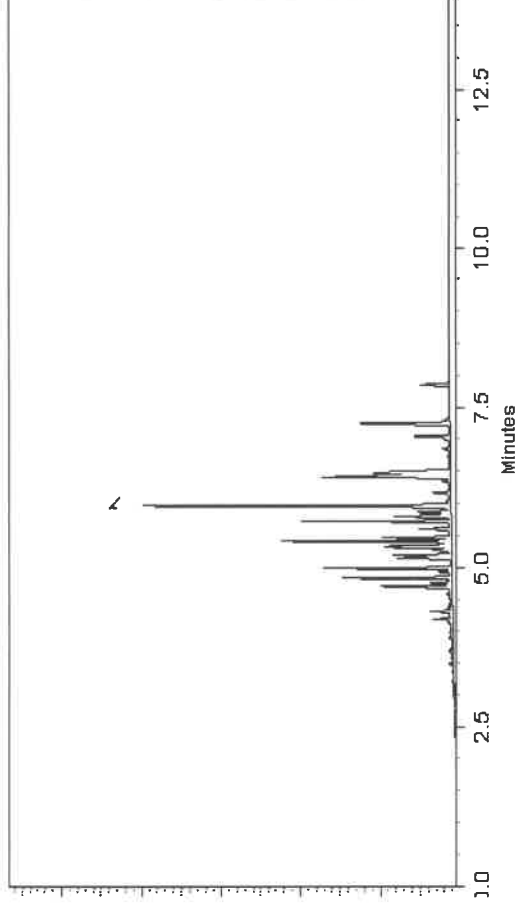
ECD

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.


Tom Suckal - Mix Technician

Date Mixed: 09-Jan-2025 Balance Serial # C322230531



Britiany Federenko - Operations Tech I

Date Passed: 14-Jan-2025

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

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



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)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Ave
CITY: Arlington STATE: PA ZIP: 19405
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SR
PROJECT NO.: 950000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QASC@BEMSYS.com
PHONE: 610-301-8432 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield St
CITY: Mountainside STATE: NJ ZIP: 07093
ATTENTION: Samavla Beasley PHONE: 908-788-3148

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT BEMED0

1. Full TCLP Analysis
2. RCRA parameters
3. PCBs
4. TAL Metals
5. TCL-VOC+10
6. Cr(VI)
7. TCL-SVOCs-BVA+20
8. EPH
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-188-SB01	S		X	4/5/25	13:20	9	X	X	X	X	X	X	X	X			
2.	B-158-SB02	S		X	4/5/25	17:10	9	X	X	X	X	X	X	X	X			
3.	IB				NA	NA						X						
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1040</u> <u>4-5-25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>Natalie Zaca</u>	DATE/TIME: <u>1040</u> <u>4-7-25</u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>IR. Gun #1</u> <u>"Adjust factor +1"</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page _____ of _____ CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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