



Cover Page

Order ID : O1232

Project ID : NYCDDC Phase II SCI Arthur Kill Road CEQR

Client : Louis Berger U.S., Inc., A WSP Company

Lab Sample Number

O1232-01
O1232-02
O1232-03
O1232-04
O1232-05
O1232-06
O1232-07
O1232-08
O1232-09
O1232-10

Client Sample Number

B-P17A
B-P17B
WC-17
B-P18A
B-P18B
B-P19A
B-P19B
B-P35A
B-P35B
DUP01

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

Signature : _____

Date: 9/13/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Louis Berger U.S., Inc., A WSP Company

Project Name: NYCDDC Phase II SCI Arthur Kill Road CEQR

Project # N/A

Chemtech Project # O1232

Test Name: PCB

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 01/19/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-PAH, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

This data Package has been revised to correct the Client ID of sample O1232-01, O1232-02, O1232-04, O1232-05, O1232-06, O1232-07, O1232-08, O1232-09 as per client request.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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



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Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A**QA REVIEW GENERAL DOCUMENTATION**

Project #: 01232

Completed

For thorough review, the report must have the following:

GENERAL:

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

☒

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

☒

Is the chain of custody signed and complete

☒

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

☒

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

☒**COVER PAGE:**

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

☒

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

☒**CHAIN OF CUSTODY:**

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

☒

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

☒

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

☒

Were the samples received within hold time

☒

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

☒**ANALYTICAL:**

Was method requirement followed?

☒

Was client requirement followed?

☒

Does the case narrative summarize all QC failure?

☒

All runlogs and manual integration are reviewed for requirements

☒

All manual calculations and /or hand notations verified

☒

1st Level QA Review Signature: SOHIL JODHANI

Date: 09/13/2023

2nd Level QA Review Signature: _____

Date: _____



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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: O1232
Client: Louis Berger U.S., Inc., A WSP Company
Contact: Jonathan Ganz

OrderDate: 1/19/2023 1:44:00 PM
Project: NYCDDC Phase II SCI Arthur Kill Road CEQR
Location: N11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O1232-01	B-P17A	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-02	B-P17B	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-03	WC-17	SOIL	Diesel Range Organics	8015D	01/18/23	01/20/23	01/20/23	01/19/23
			Gasoline Range Organics	8015D			01/20/23	
			PCB	8082A		01/20/23	01/20/23	
O1232-04	B-P18A	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-05	B-P18B	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-06	B-P19A	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-07	B-P19B	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/23/23	
O1232-08	B-P35A	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
O1232-09	B-P35B	SOIL			01/18/23			01/19/23



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LAB CHRONICLE

O1232-10	DUP01	SOIL	PCB	8082A	01/18/23	01/20/23	01/20/23	01/19/23
			Pesticide-TCL	8081B		01/20/23	01/20/23	
			PCB	8082A		01/20/23	01/20/23	
			Pesticide-TCL	8081B		01/20/23	01/20/23	



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Hit Summary Sheet
SW-846

SDG No.: O1232

Order ID: O1232

Client: Louis Berger U.S., Inc., A WSP Company

Project ID: NYCDDC Phase II SCI Arthur Kill Re

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	WC-17							
O1232-03	WC-17	SOIL	Aroclor-1242	42.6	P	2.60	18.6	ug/kg
			Total Concentration:	42.600				
Client ID :	B-P18B							
O1232-05	B-P18B	SOIL	Aroclor-1242	20.4		2.60	18.6	ug/kg
			Total Concentration:	20.400				

QC
SUMMARY

Surrogate Summary

SDG No.: **O1232**

Client: **Louis Berger U.S., Inc., A WSP Company**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PP054621.D	PIBLK-PP054621.D	Tetrachloro-m-xylene	1	20	22.9	114		60	140
		Decachlorobiphenyl	1	20	24.6	123		60	140
		Tetrachloro-m-xylene	2	20	22.4	112		60	140
		Decachlorobiphenyl	2	20	24.8	124		60	140
I.BLK-PP054771.D	PIBLK-PP054771.D	Tetrachloro-m-xylene	1	20	21.7	109		60	140
		Decachlorobiphenyl	1	20	22.2	111		60	140
		Tetrachloro-m-xylene	2	20	20.0	100		60	140
		Decachlorobiphenyl	2	20	21.2	106		60	140
PB150372BL	PB150372BL	Tetrachloro-m-xylene	1	20	16.6	83		40	162
		Decachlorobiphenyl	1	20	17.6	88		32	176
		Tetrachloro-m-xylene	2	20	15.1	75		40	162
		Decachlorobiphenyl	2	20	16.6	83		32	176
PB150372BS	PB150372BS	Tetrachloro-m-xylene	1	20	17.1	86		40	162
		Decachlorobiphenyl	1	20	18.2	91		32	176
		Tetrachloro-m-xylene	2	20	14.6	73		40	162
		Decachlorobiphenyl	2	20	17.3	87		32	176
O1232-01	B-P17A	Tetrachloro-m-xylene	1	20	22.0	110		40	162
		Decachlorobiphenyl	1	20	20.8	104		32	176
		Tetrachloro-m-xylene	2	20	20.3	102		40	162
		Decachlorobiphenyl	2	20	20.3	101		32	176
O1232-01MS	B-P17AMS	Tetrachloro-m-xylene	1	20	22.2	111		40	162
		Decachlorobiphenyl	1	20	19.9	99		32	176
		Tetrachloro-m-xylene	2	20	19.0	95		40	162
		Decachlorobiphenyl	2	20	19.2	96		32	176
O1232-01MSD	B-P17AMSD	Tetrachloro-m-xylene	1	20	22.3	111		40	162
		Decachlorobiphenyl	1	20	19.8	99		32	176
		Tetrachloro-m-xylene	2	20	18.8	94		40	162
		Decachlorobiphenyl	2	20	19.3	96		32	176
O1232-02	B-P17B	Tetrachloro-m-xylene	1	20	22.9	114		40	162
		Decachlorobiphenyl	1	20	21.3	107		32	176
		Tetrachloro-m-xylene	2	20	21.0	105		40	162
		Decachlorobiphenyl	2	20	21.0	105		32	176
O1232-03	WC-17	Tetrachloro-m-xylene	1	20	21.8	109		40	162
		Decachlorobiphenyl	1	20	21.0	105		32	176
		Tetrachloro-m-xylene	2	20	20.1	101		40	162
		Decachlorobiphenyl	2	20	20.4	102		32	176
O1232-04	B-P18A	Tetrachloro-m-xylene	1	20	22.6	113		40	162
		Decachlorobiphenyl	1	20	21.2	106		32	176
		Tetrachloro-m-xylene	2	20	20.8	104		40	162
		Decachlorobiphenyl	2	20	21.1	105		32	176
O1232-05	B-P18B	Tetrachloro-m-xylene	1	20	22.1	110		40	162
		Decachlorobiphenyl	1	20	22.4	112		32	176
		Tetrachloro-m-xylene	2	20	19.6	98		40	162



Surrogate Summary

SDG No.: O1232Client: Louis Berger U.S., Inc., A WSP CompanyAnalytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
O1232-05	B-P18B	Decachlorobiphenyl	2	20	21.3	107		32	176
O1232-06	B-P19A	Tetrachloro-m-xylene	1	20	20.9	104		40	162
		Decachlorobiphenyl	1	20	17.4	87		32	176
		Tetrachloro-m-xylene	2	20	19.2	96		40	162
		Decachlorobiphenyl	2	20	16.5	82		32	176
O1232-07	B-P19B	Tetrachloro-m-xylene	1	20	21.3	107		40	162
		Decachlorobiphenyl	1	20	20.6	103		32	176
		Tetrachloro-m-xylene	2	20	19.8	99		40	162
		Decachlorobiphenyl	2	20	19.4	97		32	176
O1232-08	B-P35A	Tetrachloro-m-xylene	1	20	22.3	111		40	162
		Decachlorobiphenyl	1	20	20.2	101		32	176
		Tetrachloro-m-xylene	2	20	20.7	104		40	162
		Decachlorobiphenyl	2	20	19.4	97		32	176
O1232-09	B-P35B	Tetrachloro-m-xylene	1	20	21.5	108		40	162
		Decachlorobiphenyl	1	20	19.5	98		32	176
		Tetrachloro-m-xylene	2	20	19.2	96		40	162
		Decachlorobiphenyl	2	20	19.3	97		32	176
O1232-10	DUP01	Tetrachloro-m-xylene	1	20	21.9	110		40	162
		Decachlorobiphenyl	1	20	21.2	106		32	176
		Tetrachloro-m-xylene	2	20	20.1	101		40	162
		Decachlorobiphenyl	2	20	19.8	99		32	176
I.BLK-PP054793.D	PIBLK-PP054793.D	Tetrachloro-m-xylene	1	20	23.1	115		60	140
		Decachlorobiphenyl	1	20	23.5	117		60	140
		Tetrachloro-m-xylene	2	20	21.0	105		60	140
		Decachlorobiphenyl	2	20	24.1	121		60	140



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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: O1232

Client: Louis Berger U.S., Inc., A WSP Compan

Analytical Method: 8082A

DataFile : PP054775.D

Lab Sample ID:		Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	Qual	Low	Limits High	RPD
Client Sample ID:		B-P17AMS											
O1232-01MS		AR1016	185.9	0	174	ug/kg	94				70	142	
		AR1260	185.9	0	161	ug/kg	87				50	147	



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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: O1232

Client: Louis Berger U.S., Inc., A WSP Compan

Analytical Method: 8082A

DataFile : PP054776.D

Lab Sample ID:		Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	Qual	Low	Limits High	RPD
Client Sample ID:		B-P17AMSD											
O1232-01MSD		AR1016	186	0	172	ug/kg	92		2		70	142	20
		AR1260	186	0	161	ug/kg	87		0		50	147	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: O1232

Client: Louis Berger U.S., Inc., A WSP Compan

Analytical Method: 8082A

Datafile : PP054773.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB150372BS	AR1016	166.6	119	ug/kg	71				71	120	
	AR1260	166.6	120	ug/kg	72				65	130	



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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB150372BL

Lab Name: CHEMTECH

Contract: loui01

Lab Code: CHEM Case No.: O1232

SAS No.: O1232 SDG NO.: O1232

Lab Sample ID: PB150372BL

Lab File ID: PP054772.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 01/20/2023

Date Analyzed (1): 01/20/2023

Date Analyzed (2): 01/20/2023

Time Analyzed (1): 19:15

Time Analyzed (2): 19:15

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
PB150372BS	PB150372BS	PP054773.D	01/20/2023	01/20/2023
B-P17A	O1232-01	PP054774.D	01/20/2023	01/20/2023
B-P17AMS	O1232-01MS	PP054775.D	01/20/2023	01/20/2023
B-P17AMSD	O1232-01MSD	PP054776.D	01/20/2023	01/20/2023
B-P17B	O1232-02	PP054777.D	01/20/2023	01/20/2023
WC-17	O1232-03	PP054778.D	01/20/2023	01/20/2023
B-P18A	O1232-04	PP054779.D	01/20/2023	01/20/2023
B-P18B	O1232-05	PP054780.D	01/20/2023	01/20/2023
B-P19A	O1232-06	PP054781.D	01/20/2023	01/20/2023
B-P19B	O1232-07	PP054782.D	01/20/2023	01/20/2023
B-P35A	O1232-08	PP054783.D	01/20/2023	01/20/2023
B-P35B	O1232-09	PP054784.D	01/20/2023	01/20/2023
DUP01	O1232-10	PP054785.D	01/20/2023	01/20/2023

COMMENTS: _____

SAMPLE DATA



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P17A		SDG No.:	O1232	
Lab Sample ID:	O1232-01		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	89.4	Decanted:
Sample Wt/Vol:	30.04	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
PP054774.D	1	01/20/23 10:35	01/20/23 19:48	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	19.0	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	19.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	19.0	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	19.0	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	19.0	ug/kg
11097-69-1	Aroclor-1254	4.70	U	4.70	19.0	ug/kg
37324-23-5	Aroclor-1262	3.70	U	3.70	19.0	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	19.0	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.0		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		32 - 176	104%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054774.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 19:48
 Operator : YP\AJ
 Sample : 01232-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-17A

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:47:44 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	40401057	32546194	22.003	20.332
2) SA Decachlor...	10.094	8.600	27889029	29050328	20.778	20.286

Target Compounds

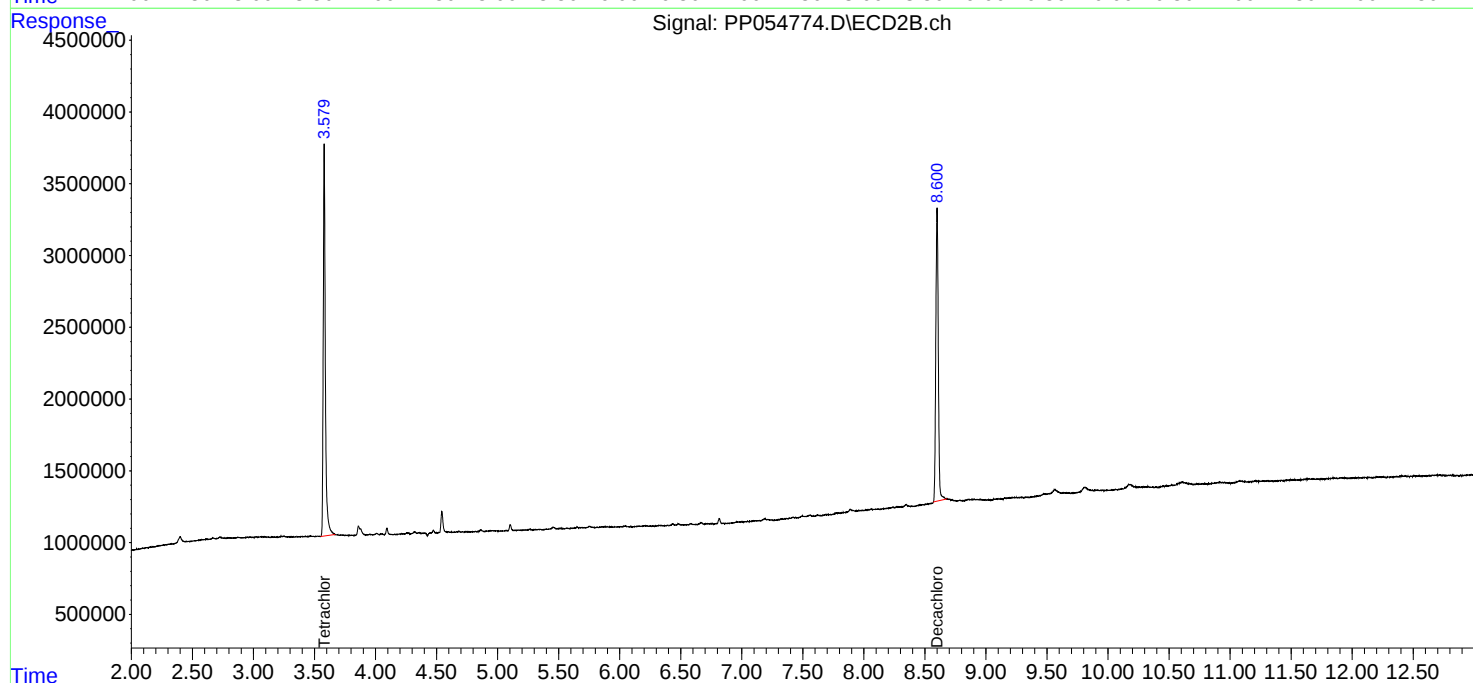
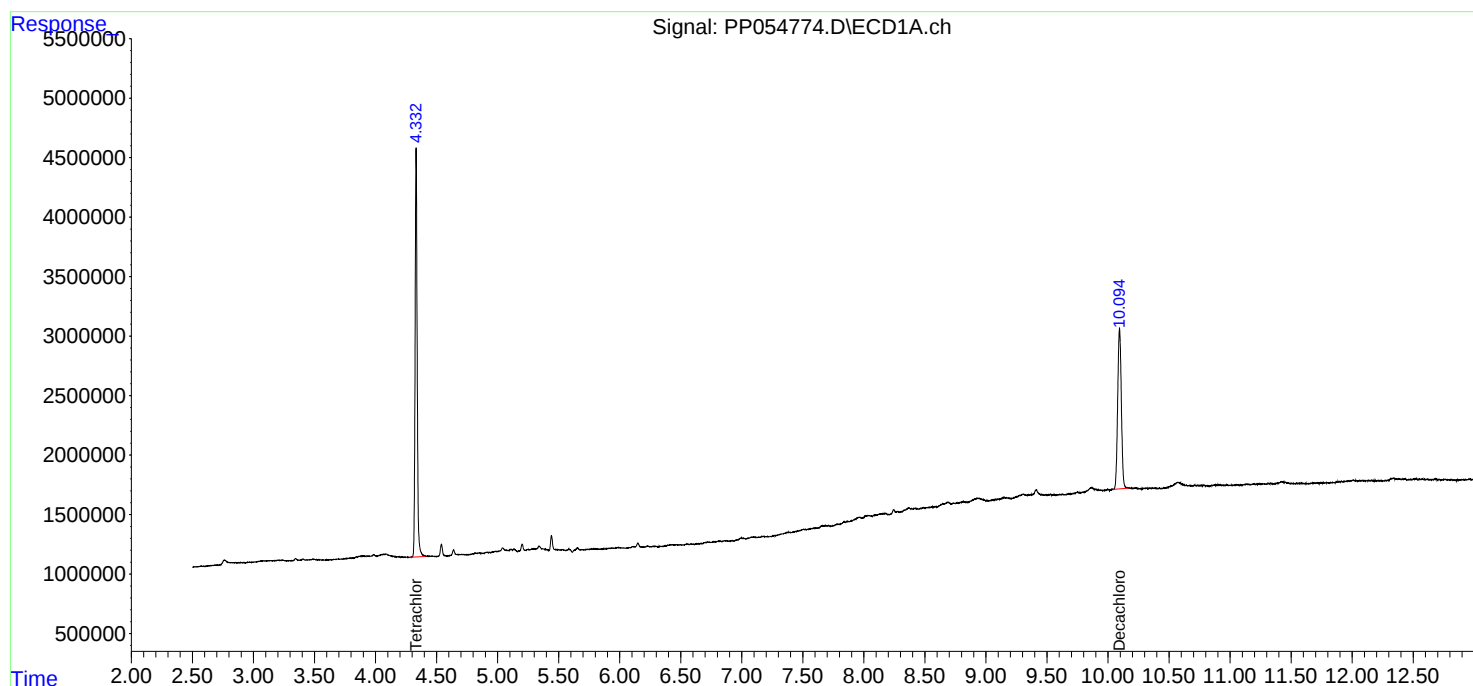
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054774.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 19:48
Operator : YP\AJ
Sample : 01232-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

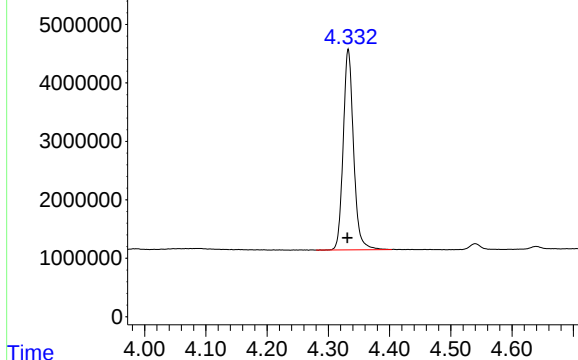
Instrument :
ECD_P
ClientSampleId :
B-P-17A

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:47:44 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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



Response_ Signal: PP054774.D\ECD1A.ch

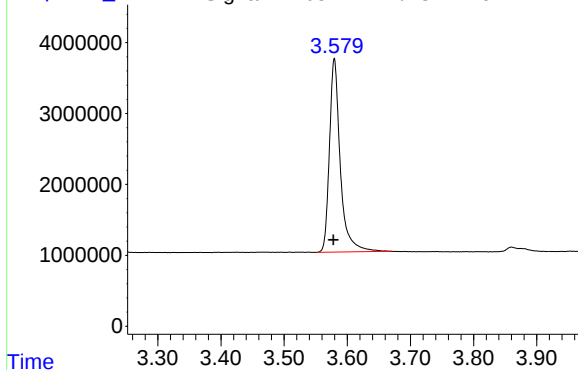


#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 40401057
Conc: 22.00 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-17A

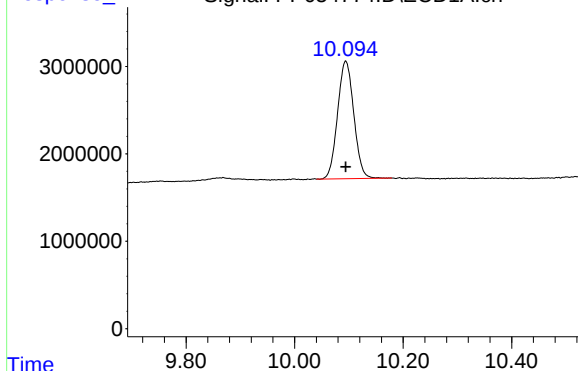
Time Response_ Signal: PP054774.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.001 min
Response: 32546194
Conc: 20.33 ng/ml

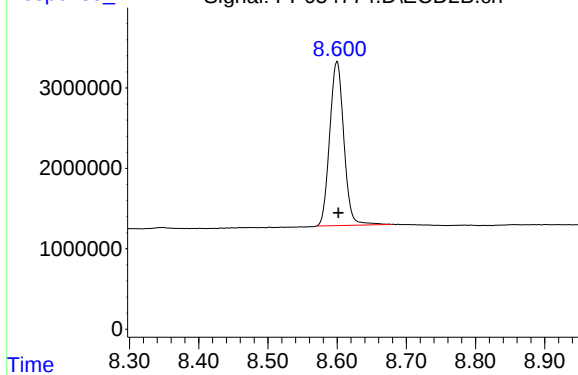
Time Response_ Signal: PP054774.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 10.094 min
Delta R.T.: 0.000 min
Response: 27889029
Conc: 20.78 ng/ml

Time Response_ Signal: PP054774.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 29050328
Conc: 20.29 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P17B		SDG No.:	O1232	
Lab Sample ID:	O1232-02		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	86.9	Decanted:
Sample Wt/Vol:	30.08	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
PP054777.D	1	01/20/23 10:35	01/20/23 20:38	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.50	U	3.50	19.5	ug/kg
11104-28-2	Aroclor-1221	5.40	U	5.40	19.5	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	19.5	ug/kg
53469-21-9	Aroclor-1242	2.80	U	2.80	19.5	ug/kg
12672-29-6	Aroclor-1248	3.40	U	3.40	19.5	ug/kg
11097-69-1	Aroclor-1254	4.80	U	4.80	19.5	ug/kg
37324-23-5	Aroclor-1262	3.80	U	3.80	19.5	ug/kg
11100-14-4	Aroclor-1268	6.60	U	6.60	19.5	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		40 - 162	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		32 - 176	107%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054777.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 20:38
 Operator : YP\AJ
 Sample : 01232-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-17B

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:49:47 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	41950940	33677439	22.847	21.039
2) SA Decachlor...	10.093	8.599	28644213	30046458	21.340	20.981

Target Compounds

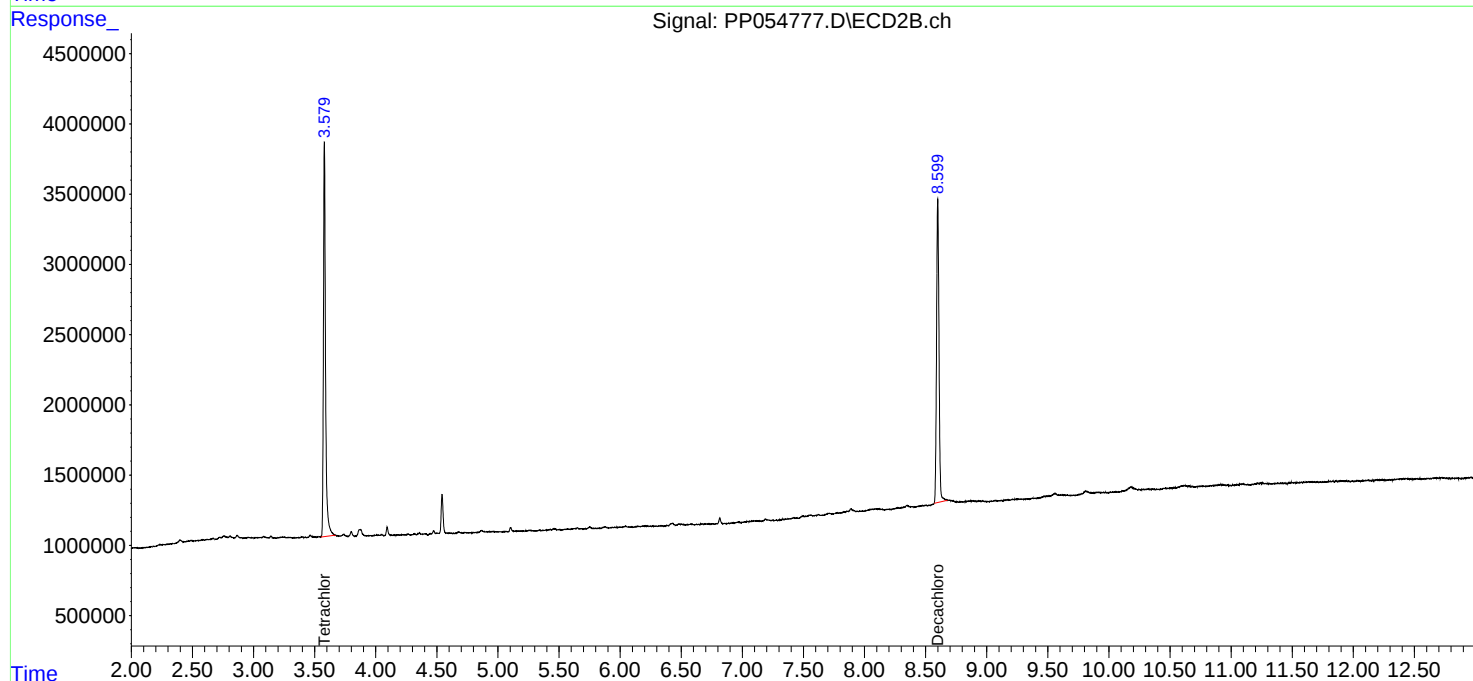
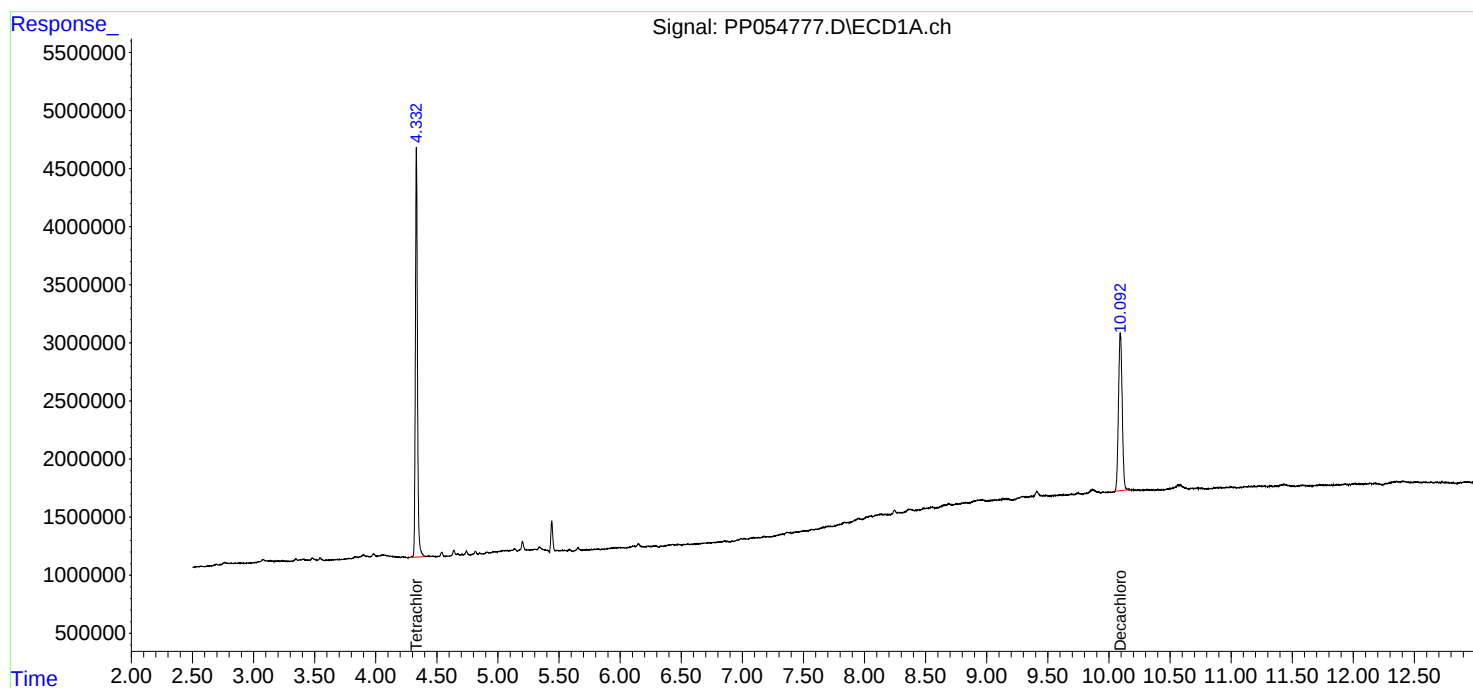
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054777.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 20:38
Operator : YP\AJ
Sample : 01232-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

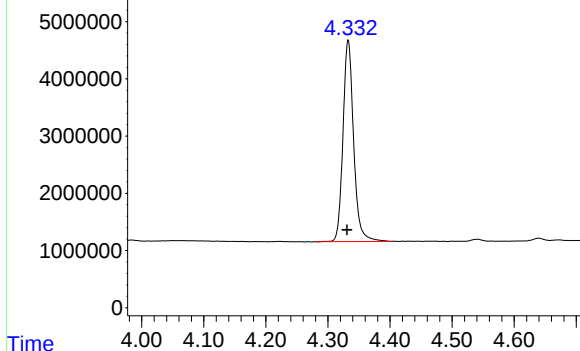
Instrument :
ECD_P
ClientSampleId :
B-P-17B

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:49:47 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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



Response_ Signal: PP054777.D\ECD1A.ch

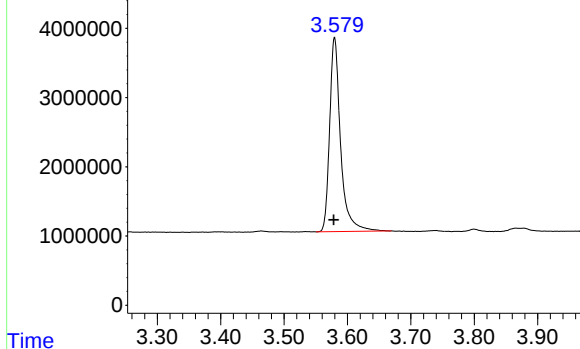


#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 41950940
Conc: 22.85 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-17B

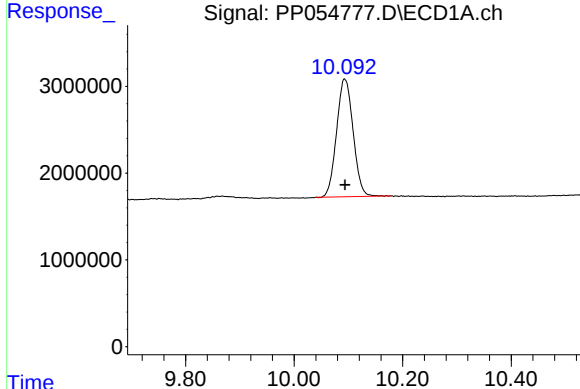
Response_ Signal: PP054777.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.001 min
Response: 33677439
Conc: 21.04 ng/ml

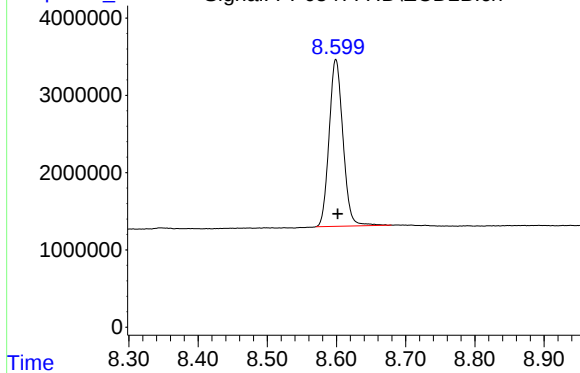
Response_ Signal: PP054777.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: 0.000 min
Response: 28644213
Conc: 21.34 ng/ml

Response_ Signal: PP054777.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.599 min
Delta R.T.: -0.003 min
Response: 30046458
Conc: 20.98 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	WC-17		SDG No.:	O1232	
Lab Sample ID:	O1232-03		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	91.4	Decanted:
Sample Wt/Vol:	30.03	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
PP054778.D	1	01/20/23 10:35	01/20/23 20:54	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.30	U	3.30	18.6	ug/kg
11104-28-2	Aroclor-1221	5.10	U	5.10	18.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	18.6	ug/kg
53469-21-9	Aroclor-1242	42.6	P	2.60	18.6	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	18.6	ug/kg
11097-69-1	Aroclor-1254	4.60	U	4.60	18.6	ug/kg
37324-23-5	Aroclor-1262	3.60	U	3.60	18.6	ug/kg
11100-14-4	Aroclor-1268	6.30	U	6.30	18.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.8		40 - 162	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		32 - 176	105%	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\PP012023\
 Data File : PP054778.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 20:54
 Operator : YP\AJ
 Sample : 01232-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 WC-17

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 06:26:46 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	40091412	32195382	21.834	20.113
2) SA Decachlor...	10.095	8.600	28170443	29204249	20.987	20.393
Target Compounds						
16) L4 AR-1242-1	5.505	4.666	4766478	4077397	88.153	96.644
17) L4 AR-1242-2	5.527	4.684	10004226	8487960	128.227	144.559
18) L4 AR-1242-3	5.591	4.861	2648819	4391119	53.921	136.887 #
19) L4 AR-1242-4	5.688	4.945	4518352	4919770	113.900	140.217
20) L4 AR-1242-5	6.430	5.470	2328000	2519027	64.523	66.272

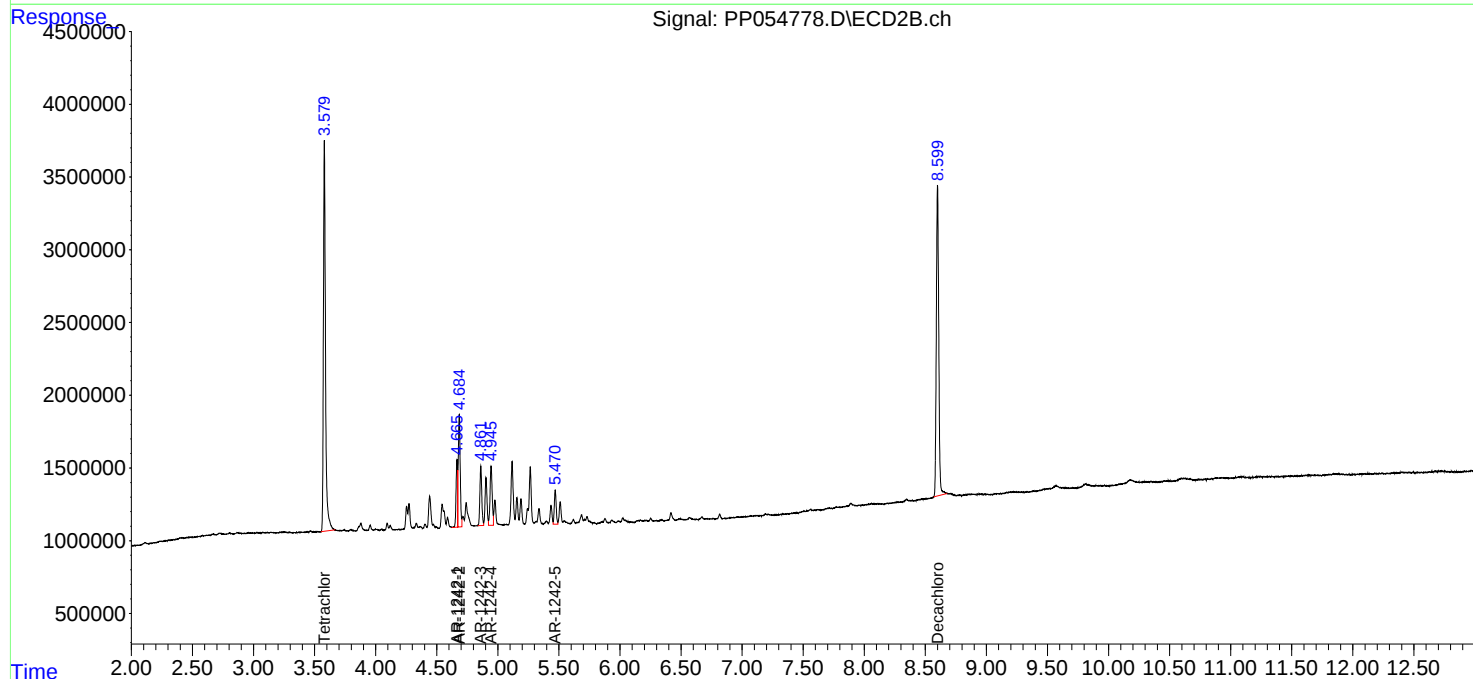
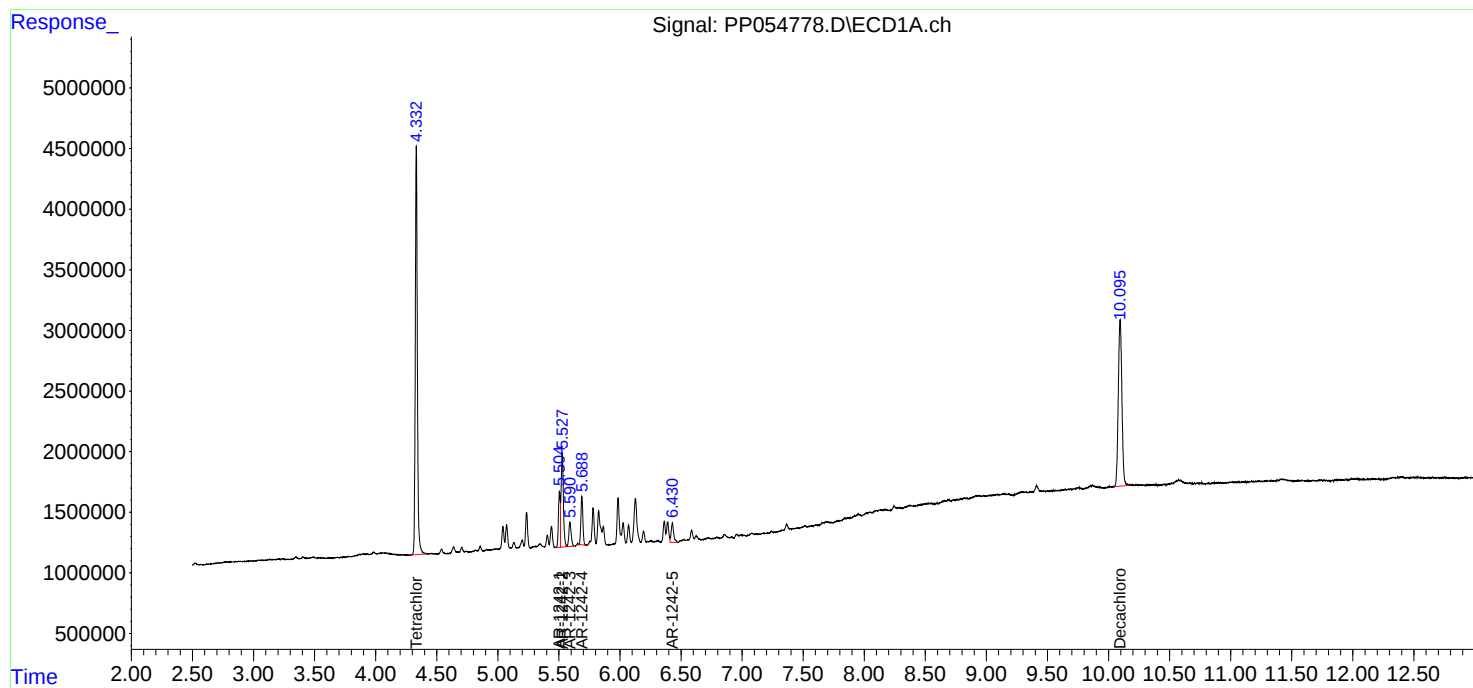
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

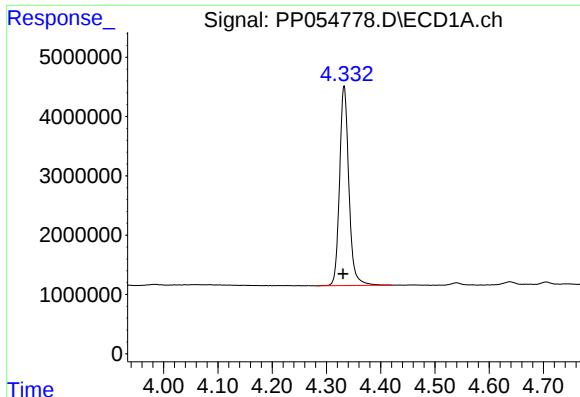
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054778.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 20:54
Operator : YP\AJ
Sample : 01232-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
WC-17

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 06:26:46 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

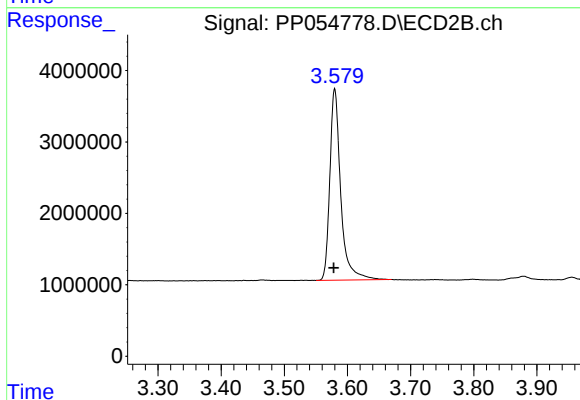




#1 Tetrachloro-m-xylene

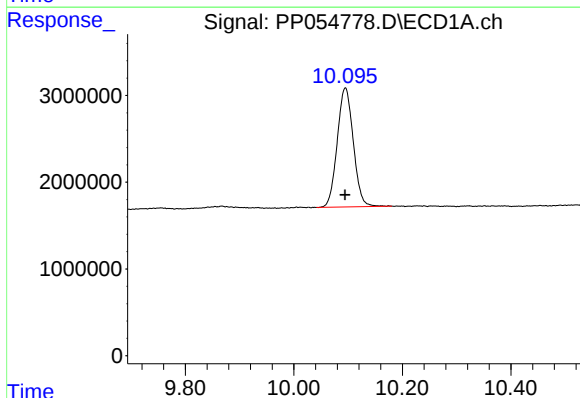
R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 40091412
Conc: 21.83 ng/ml

Instrument :
ECD_P
ClientSampleId :
WC-17



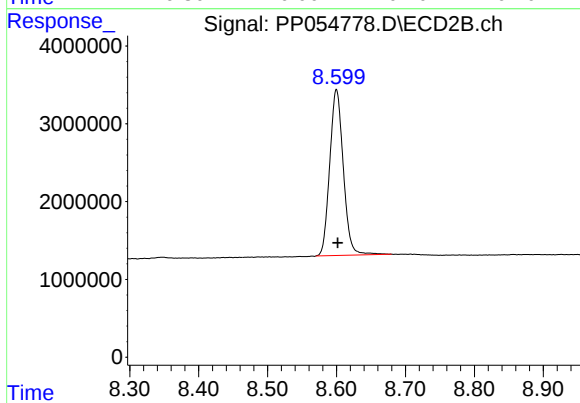
#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 32195382
Conc: 20.11 ng/ml



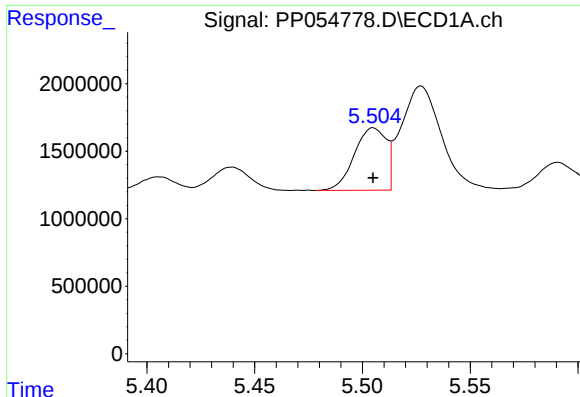
#2 Decachlorobiphenyl

R.T.: 10.095 min
Delta R.T.: 0.000 min
Response: 28170443
Conc: 20.99 ng/ml



#2 Decachlorobiphenyl

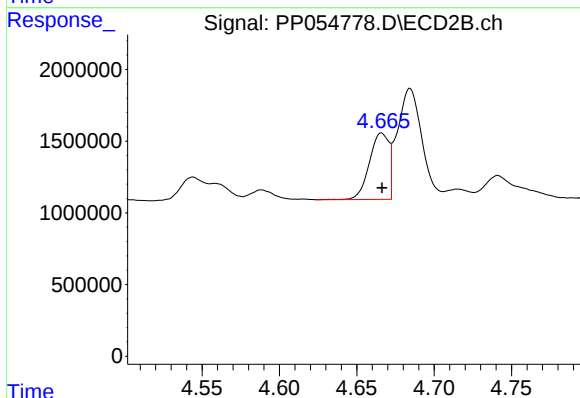
R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 29204249
Conc: 20.39 ng/ml



#16 AR-1242-1

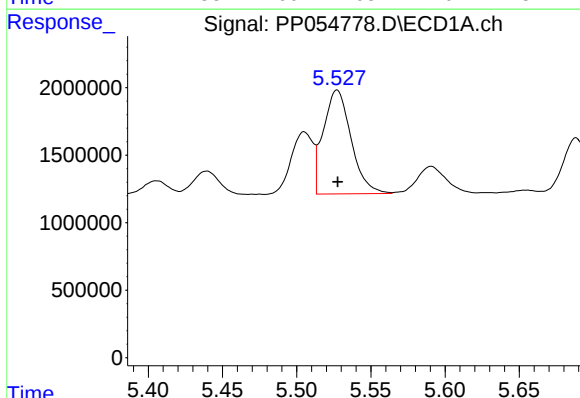
R.T.: 5.505 min
Delta R.T.: 0.000 min
Response: 4766478
Conc: 88.15 ng/ml

Instrument :
ECD_P
ClientSampleId :
WC-17



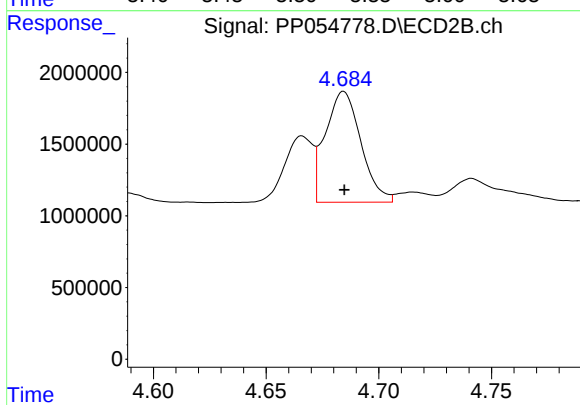
#16 AR-1242-1

R.T.: 4.666 min
Delta R.T.: 0.000 min
Response: 4077397
Conc: 96.64 ng/ml



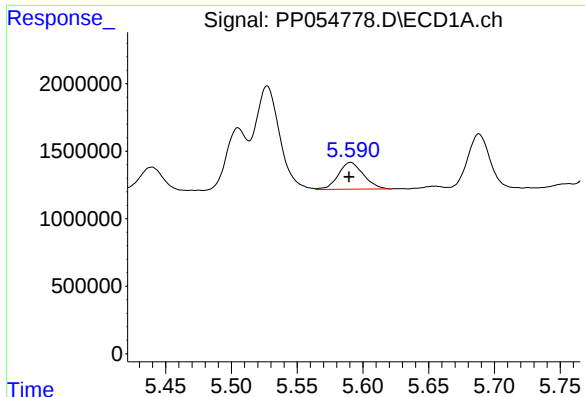
#17 AR-1242-2

R.T.: 5.527 min
Delta R.T.: 0.000 min
Response: 10004226
Conc: 128.23 ng/ml



#17 AR-1242-2

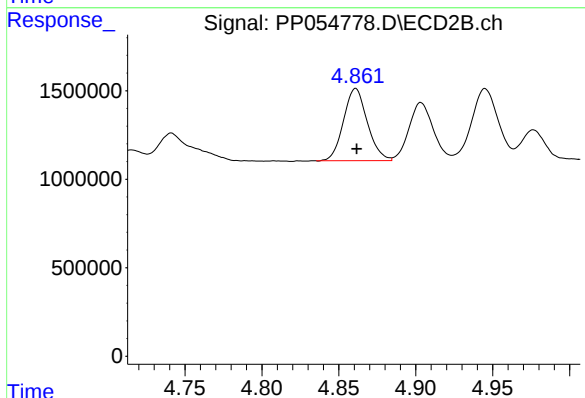
R.T.: 4.684 min
Delta R.T.: 0.000 min
Response: 8487960
Conc: 144.56 ng/ml



#18 AR-1242-3

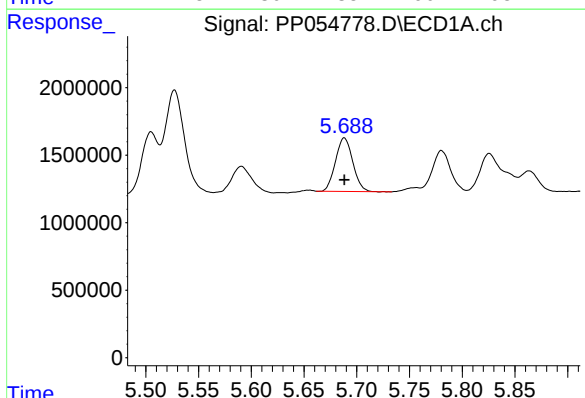
R.T.: 5.591 min
Delta R.T.: 0.001 min
Response: 2648819
Conc: 53.92 ng/ml

Instrument :
ECD_P
ClientSampleId :
WC-17



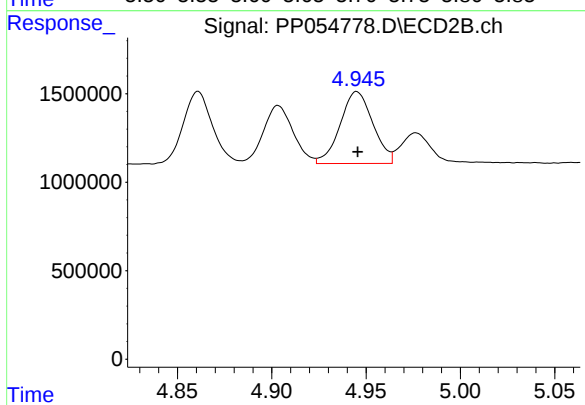
#18 AR-1242-3

R.T.: 4.861 min
Delta R.T.: 0.000 min
Response: 4391119
Conc: 136.89 ng/ml



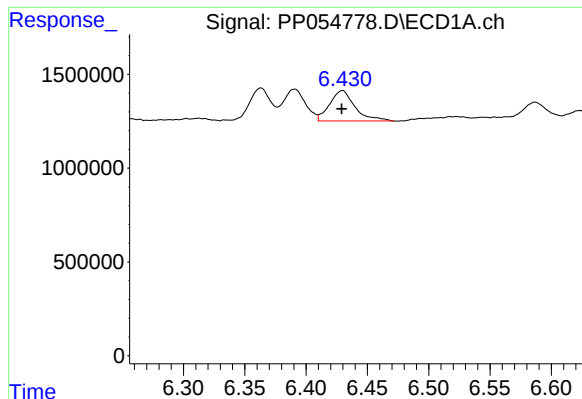
#19 AR-1242-4

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 4518352
Conc: 113.90 ng/ml



#19 AR-1242-4

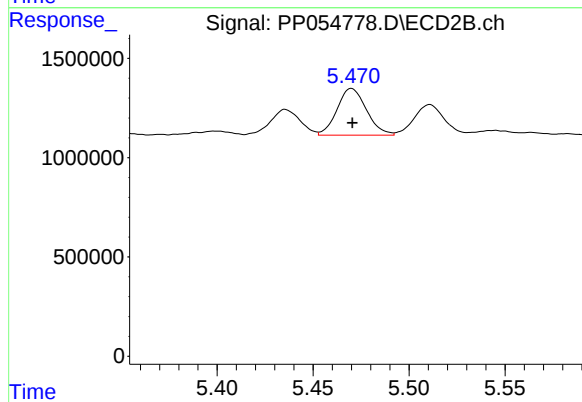
R.T.: 4.945 min
Delta R.T.: 0.000 min
Response: 4919770
Conc: 140.22 ng/ml



#20 AR-1242-5

R.T.: 6.430 min
Delta R.T.: 0.000 min
Response: 2328000
Conc: 64.52 ng/ml

Instrument :
ECD_P
ClientSampleId :
WC-17



#20 AR-1242-5

R.T.: 5.470 min
Delta R.T.: 0.000 min
Response: 2519027
Conc: 66.27 ng/ml



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P18A	SDG No.:	O1232
Lab Sample ID:	O1232-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.5
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
PP054779.D	1	01/20/23 10:35	01/20/23 21:11	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.50	U	3.50	19.4	ug/kg
11104-28-2	Aroclor-1221	5.40	U	5.40	19.4	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	19.4	ug/kg
53469-21-9	Aroclor-1242	2.80	U	2.80	19.4	ug/kg
12672-29-6	Aroclor-1248	3.40	U	3.40	19.4	ug/kg
11097-69-1	Aroclor-1254	4.80	U	4.80	19.4	ug/kg
37324-23-5	Aroclor-1262	3.80	U	3.80	19.4	ug/kg
11100-14-4	Aroclor-1268	6.50	U	6.50	19.4	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.6		40 - 162	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		32 - 176	106%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054779.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 21:11
 Operator : YP\AJ
 Sample : 01232-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-18A

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:50:18 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	41582146	33355405	22.646	20.838
2) SA Decachlor...	10.095	8.600	28452128	30150021	21.197	21.054

Target Compounds

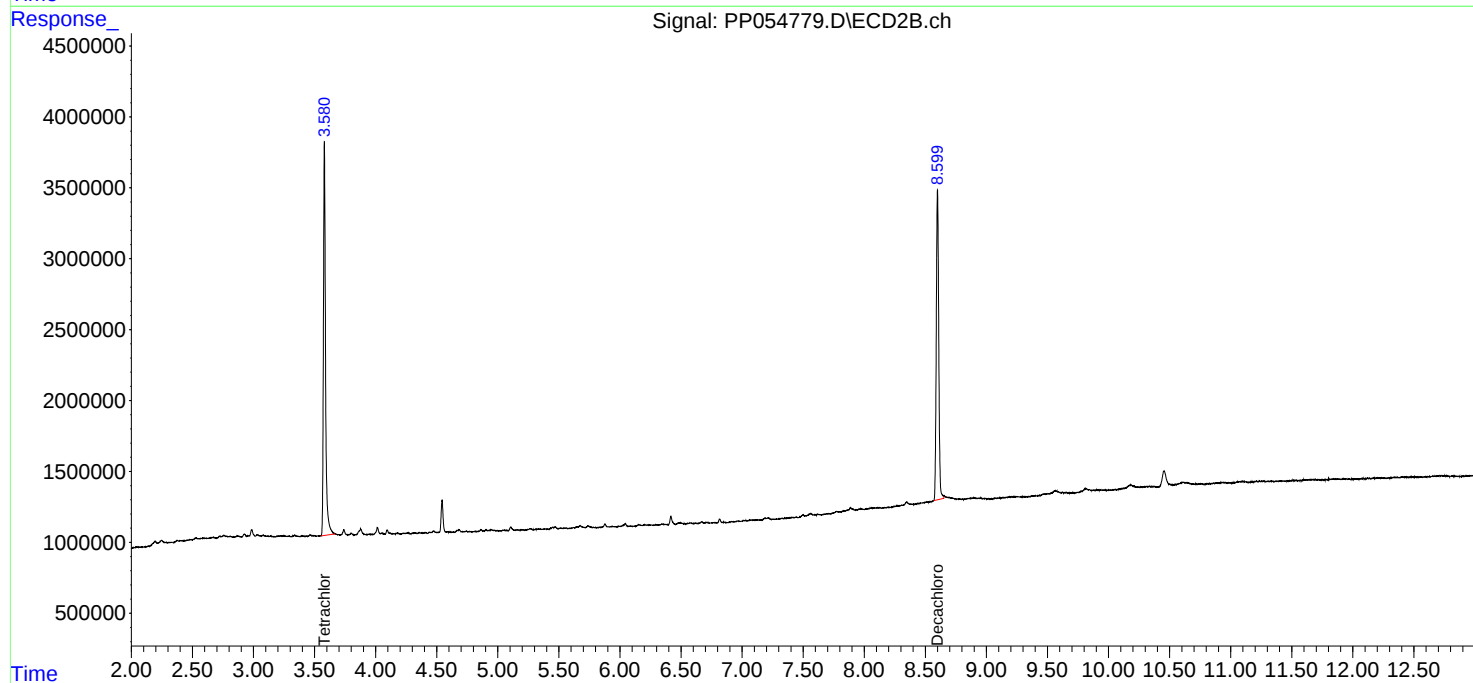
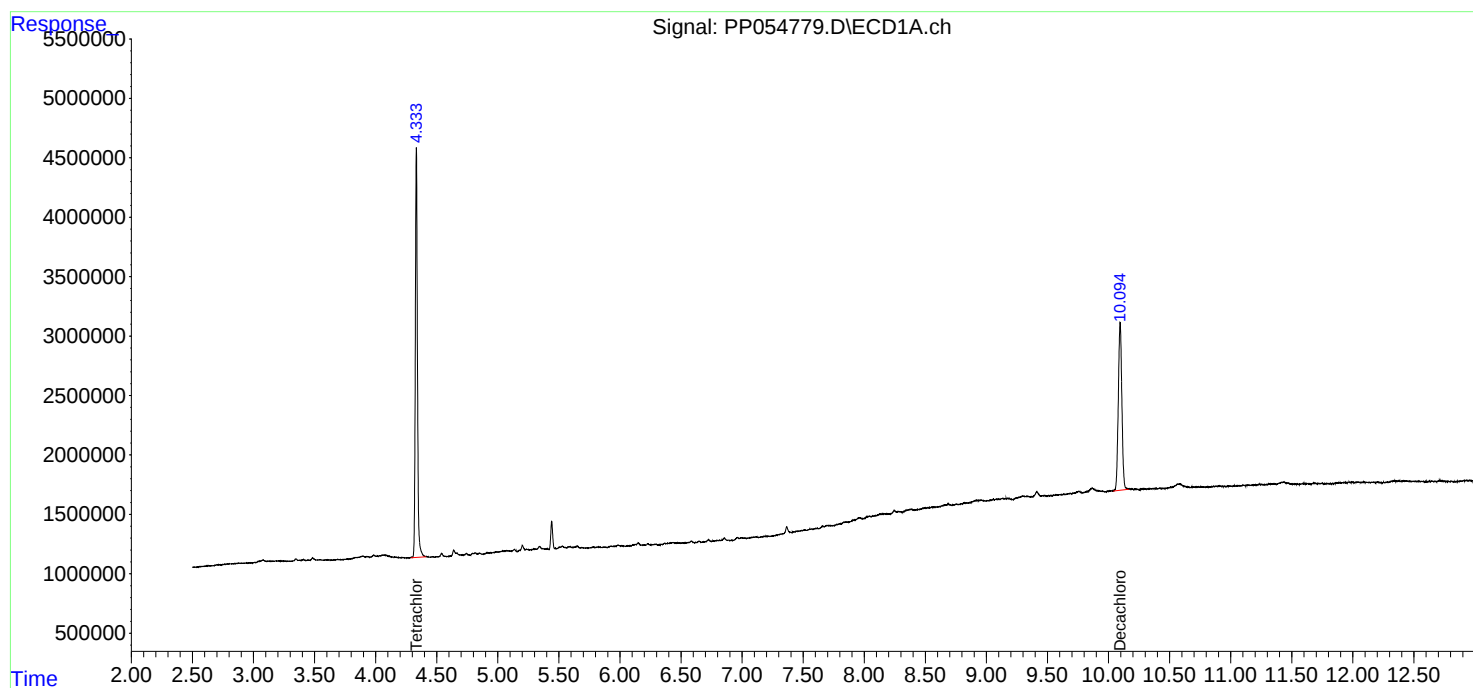
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054779.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 21:11
Operator : YP\AJ
Sample : 01232-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

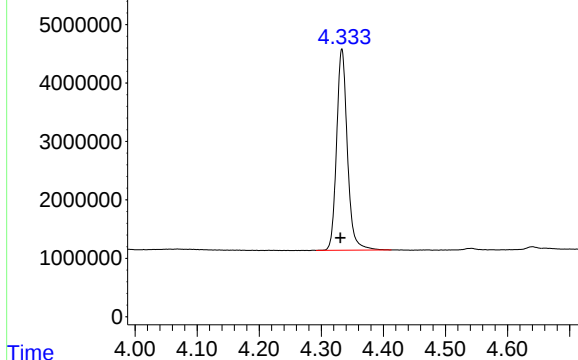
Instrument :
ECD_P
ClientSampleId :
B-P-18A

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:50:18 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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



Response_ Signal: PP054779.D\ECD1A.ch

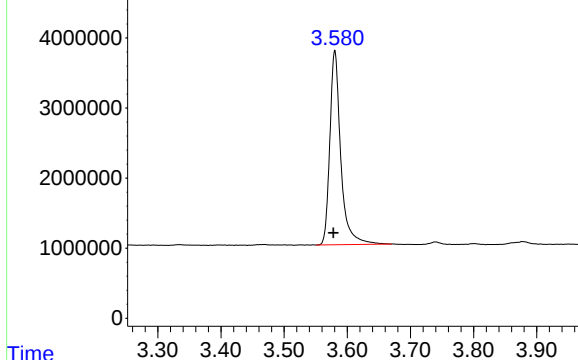


#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 41582146
Conc: 22.65 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-18A

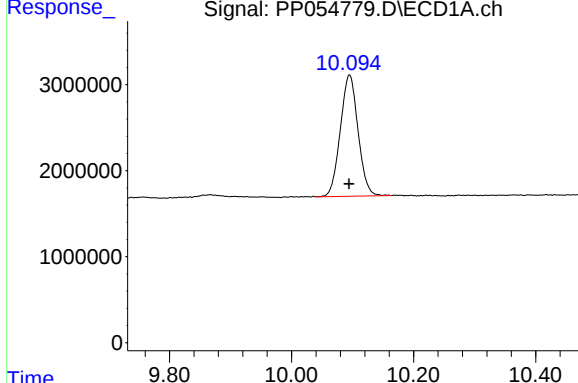
Response_ Signal: PP054779.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 33355405
Conc: 20.84 ng/ml

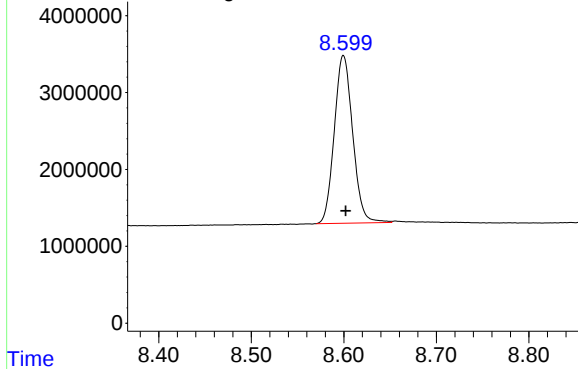
Response_ Signal: PP054779.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 10.095 min
Delta R.T.: 0.000 min
Response: 28452128
Conc: 21.20 ng/ml

Response_ Signal: PP054779.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 30150021
Conc: 21.05 ng/ml



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P18B		SDG No.:	O1232	
Lab Sample ID:	O1232-05		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	91.4	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
PP054780.D	1	01/20/23 10:35	01/20/23 21:27	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.30	U	3.30	18.6	ug/kg
11104-28-2	Aroclor-1221	5.10	U	5.10	18.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	18.6	ug/kg
53469-21-9	Aroclor-1242	20.4		2.60	18.6	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	18.6	ug/kg
11097-69-1	Aroclor-1254	4.60	U	4.60	18.6	ug/kg
37324-23-5	Aroclor-1262	3.60	U	3.60	18.6	ug/kg
11100-14-4	Aroclor-1268	6.30	U	6.30	18.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.4		32 - 176	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\PP012023\
 Data File : PP054780.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 21:27
 Operator : YP\AJ
 Sample : 01232-05
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-18B

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/23/2023
 Supervised By :Ankita Jodhani 01/23/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:50:47 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	40541880	31398786	22.080	19.616
2) SA Decachlor...	10.094	8.599	30063146	30560519	22.397	21.340
Target Compounds						
16) L4 AR-1242-1	5.505	4.665	2544346	1995454	47.056m	47.297m
17) L4 AR-1242-2	5.527	4.684	5169390	3594911	66.258	61.225m
18) L4 AR-1242-3	5.590	4.861	1863327	1983480	37.931	61.832 #
19) L4 AR-1242-4	5.688	4.947	1631555	1868189	41.129m	53.245 #
20) L4 AR-1242-5	6.429	5.470	1437894	2130943	39.853	56.062m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054780.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 21:27
Operator : YP\AJ
Sample : 01232-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

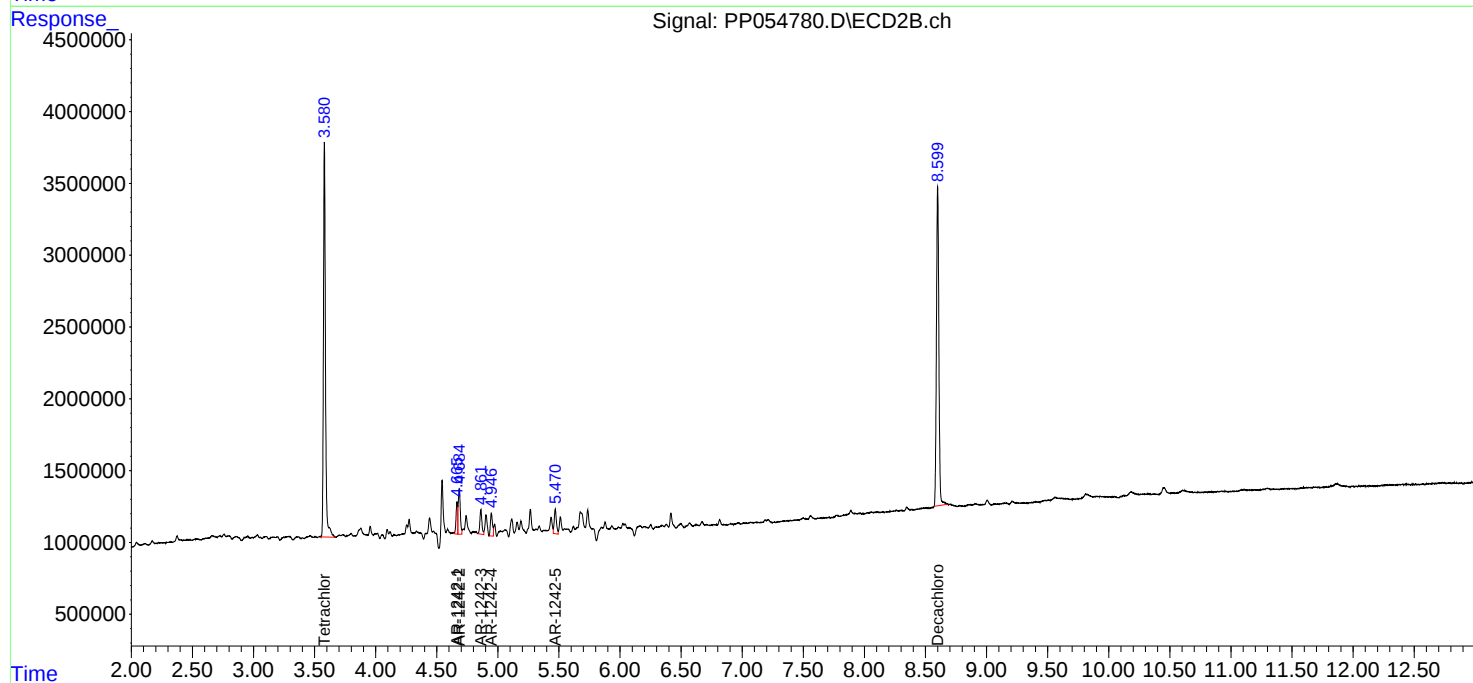
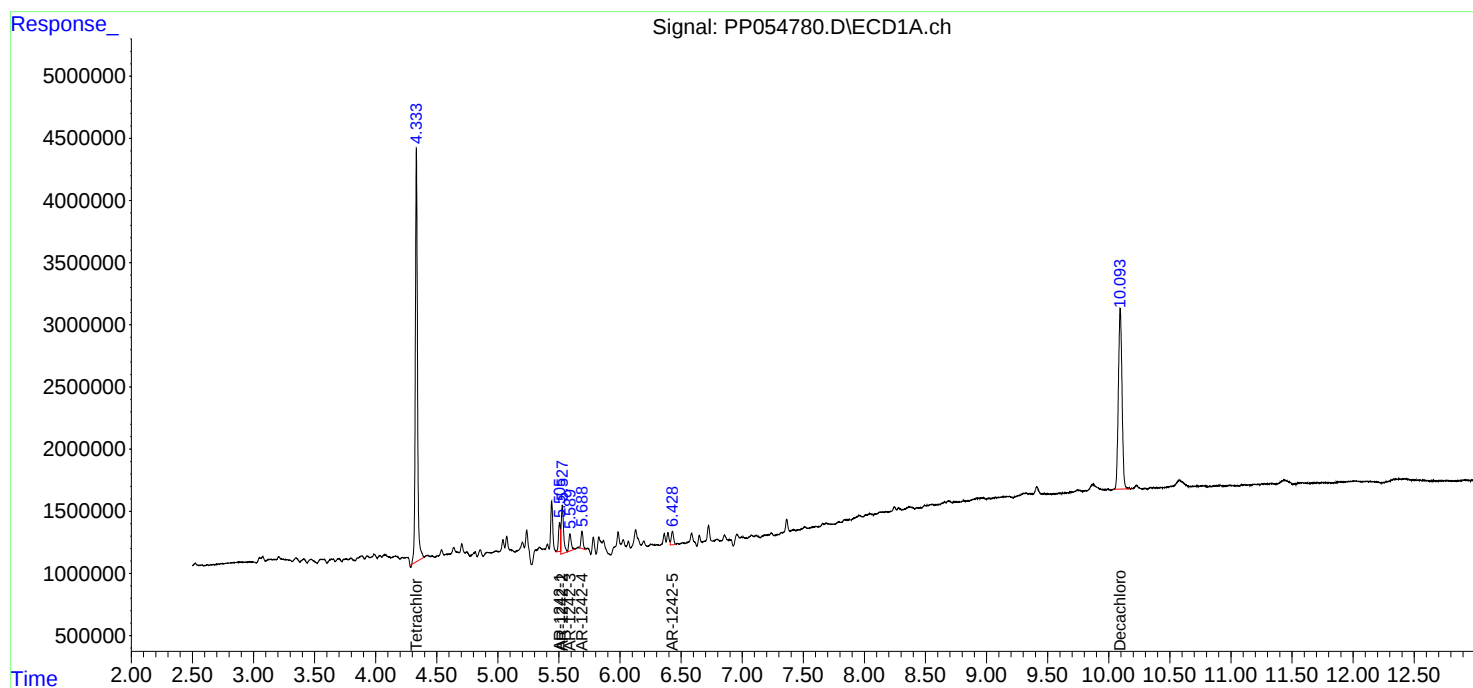
Instrument :
ECD_P
ClientSampleId :
B-P-18B

Manual Integrations
APPROVED

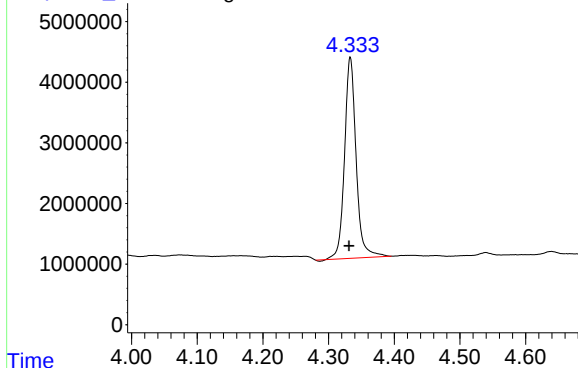
Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:50:47 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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



Signal: PP054780.D\ECD1A.ch



#1 Tetrachloro-m-xylene

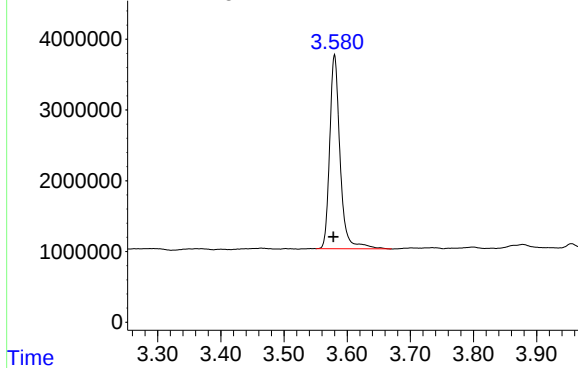
R.T.: 4.333 min
 Delta R.T.: 0.002 min
 Response: 40541880
 Conc: 22.08 ng/ml

Instrument :
 ECD_P
 ClientSampleId :
 B-P-18B

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/23/2023
 Supervised By :Ankita Jodhani 01/23/2023

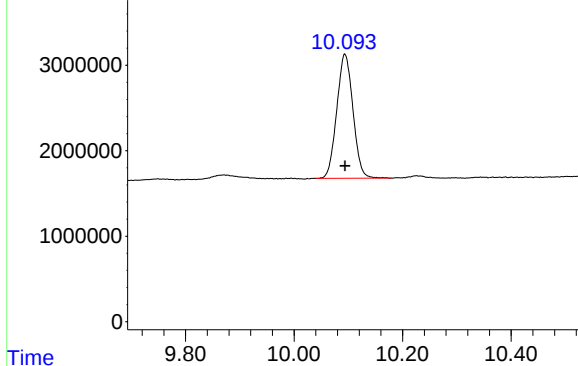
Signal: PP054780.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.580 min
 Delta R.T.: 0.002 min
 Response: 31398786
 Conc: 19.62 ng/ml

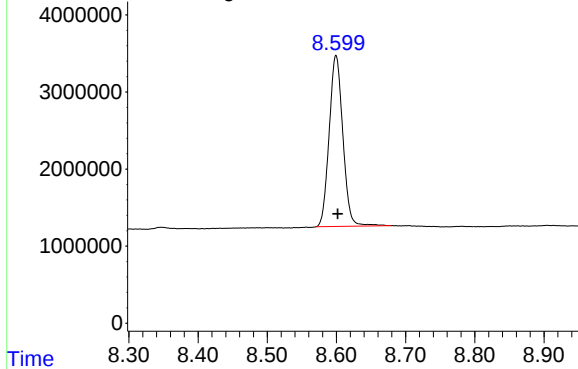
Signal: PP054780.D\ECD1A.ch



#2 Decachlorobiphenyl

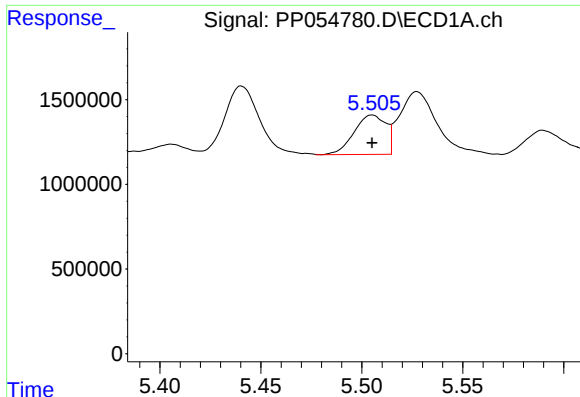
R.T.: 10.094 min
 Delta R.T.: 0.000 min
 Response: 30063146
 Conc: 22.40 ng/ml

Signal: PP054780.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.599 min
 Delta R.T.: -0.003 min
 Response: 30560519
 Conc: 21.34 ng/ml



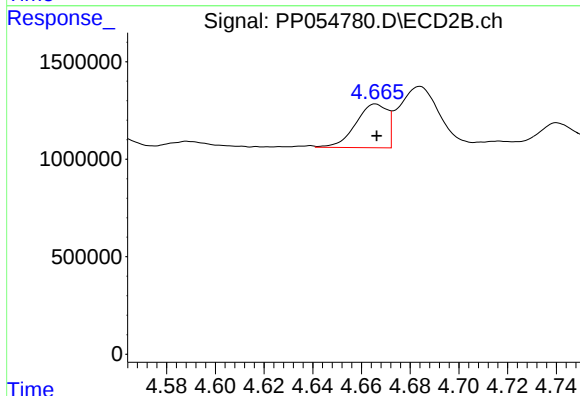
#16 AR-1242-1

R.T.: 5.505 min
Delta R.T.: 0.000 min
Response: 2544346
Conc: 47.06 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-18B

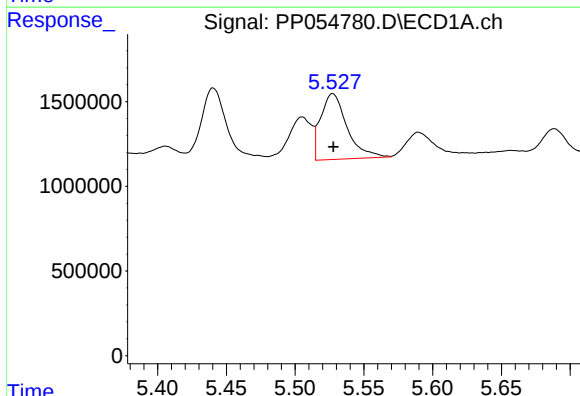
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023



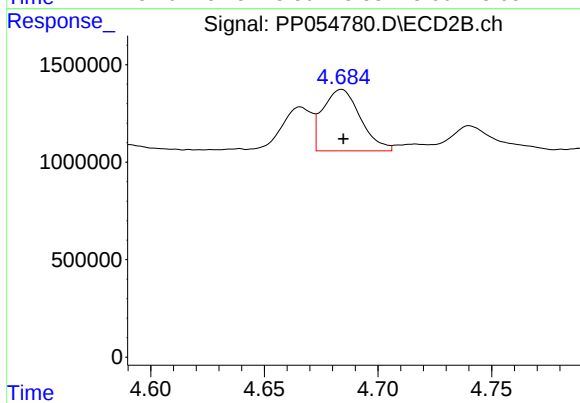
#16 AR-1242-1

R.T.: 4.665 min
Delta R.T.: 0.000 min
Response: 1995454
Conc: 47.30 ng/ml m



#17 AR-1242-2

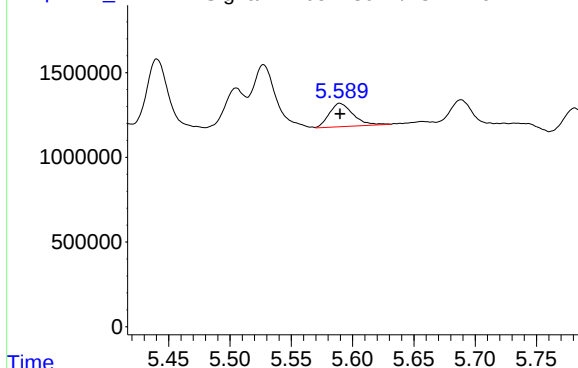
R.T.: 5.527 min
Delta R.T.: 0.000 min
Response: 5169390
Conc: 66.26 ng/ml



#17 AR-1242-2

R.T.: 4.684 min
Delta R.T.: -0.001 min
Response: 3594911
Conc: 61.23 ng/ml m

Response_ Signal: PP054780.D\ECD1A.ch



#18 AR-1242-3

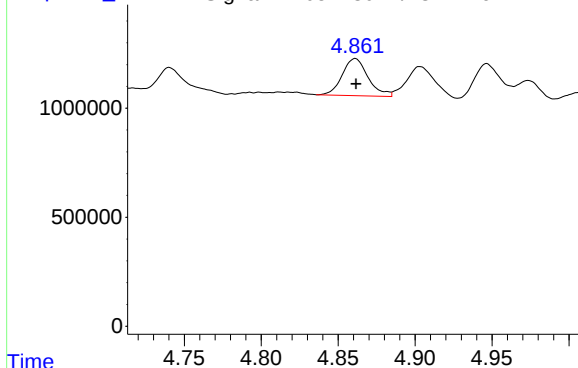
R.T.: 5.590 min
Delta R.T.: 0.000 min
Response: 1863327
Conc: 37.93 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-18B

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023

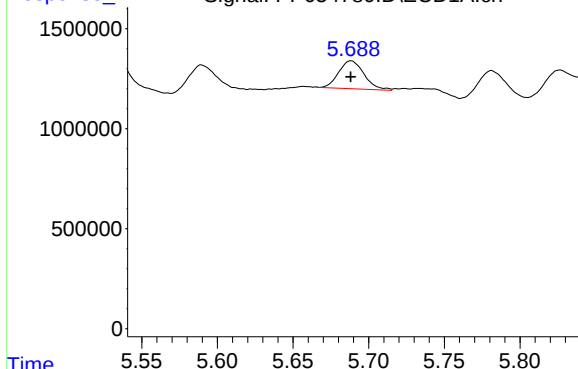
Time Response_ Signal: PP054780.D\ECD2B.ch



#18 AR-1242-3

R.T.: 4.861 min
Delta R.T.: 0.000 min
Response: 1983480
Conc: 61.83 ng/ml

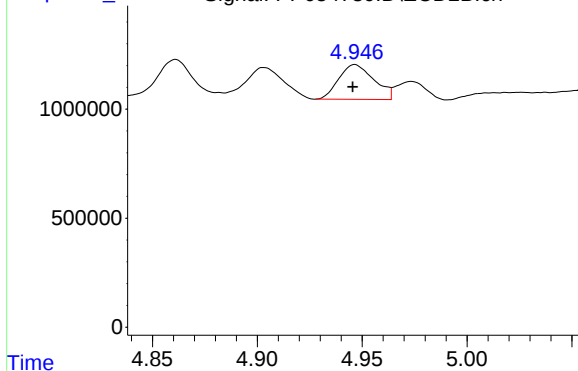
Time Response_ Signal: PP054780.D\ECD1A.ch



#19 AR-1242-4

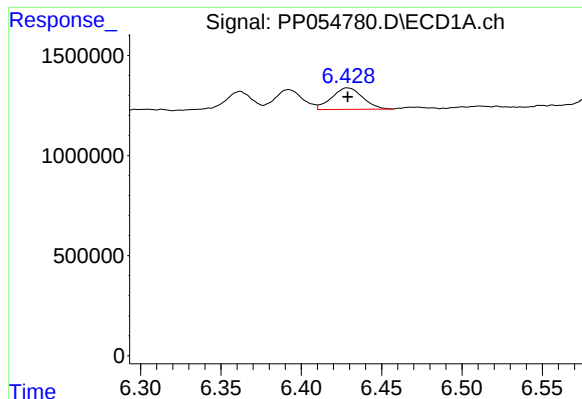
R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 1631555
Conc: 41.13 ng/ml m

Time Response_ Signal: PP054780.D\ECD2B.ch



#19 AR-1242-4

R.T.: 4.947 min
Delta R.T.: 0.001 min
Response: 1868189
Conc: 53.24 ng/ml



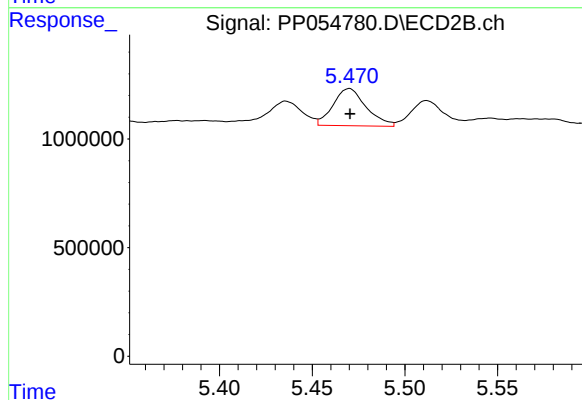
#20 AR-1242-5

R.T.: 6.429 min
Delta R.T.: 0.000 min
Response: 1437894
Conc: 39.85 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-18B

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023



#20 AR-1242-5

R.T.: 5.470 min
Delta R.T.: 0.000 min
Response: 2130943
Conc: 56.06 ng/ml m



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P19A	SDG No.:	O1232
Lab Sample ID:	O1232-06	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.2
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP054781.D	1	01/20/23 10:35	01/20/23 21:43	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.50	U	3.50	19.2	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	19.2	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	19.2	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	19.2	ug/kg
12672-29-6	Aroclor-1248	3.40	U	3.40	19.2	ug/kg
11097-69-1	Aroclor-1254	4.80	U	4.80	19.2	ug/kg
37324-23-5	Aroclor-1262	3.80	U	3.80	19.2	ug/kg
11100-14-4	Aroclor-1268	6.50	U	6.50	19.2	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		40 - 162	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		32 - 176	87%	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\PP012023\
 Data File : PP054781.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 21:43
 Operator : YP\AJ
 Sample : 01232-06
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-19A

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:51:15 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.580	38349821	30727093	20.886	19.196
2) SA Decachlor...	10.094	8.599	23290789	23589624	17.352	16.473

Target Compounds

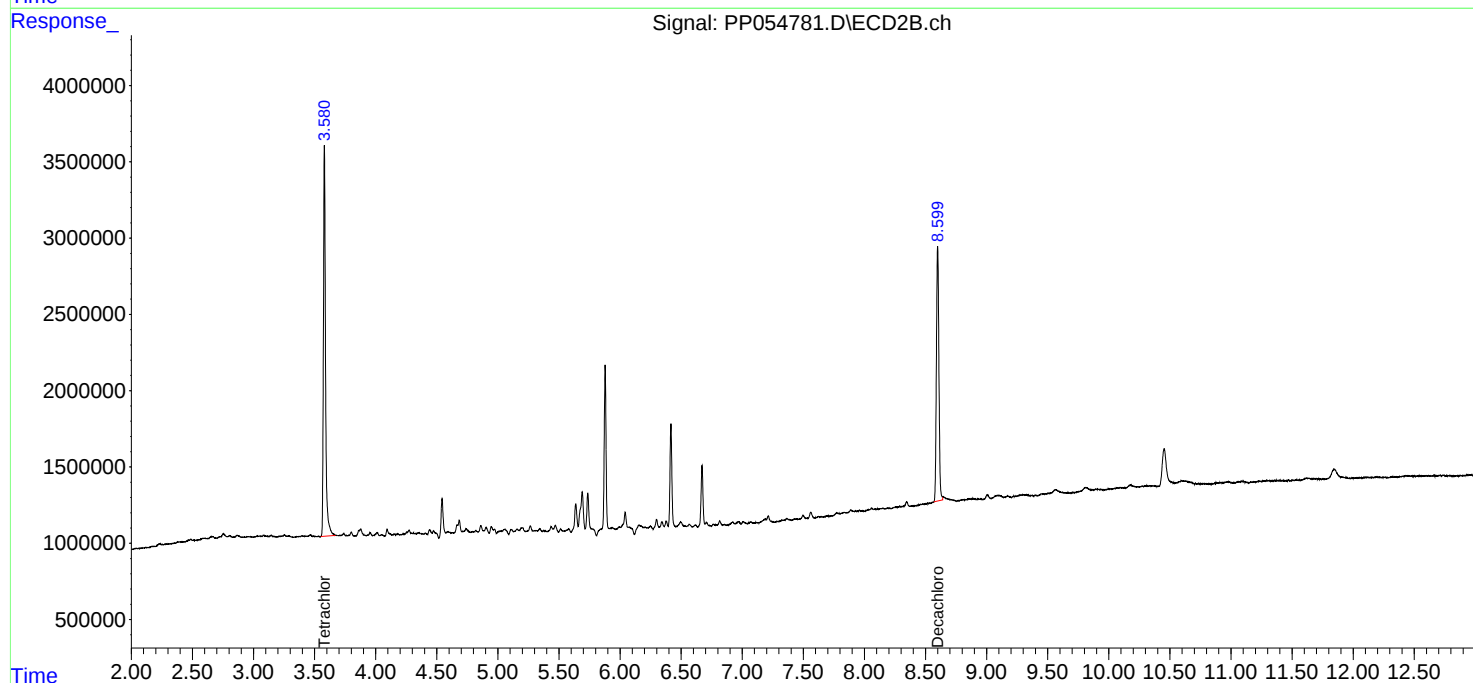
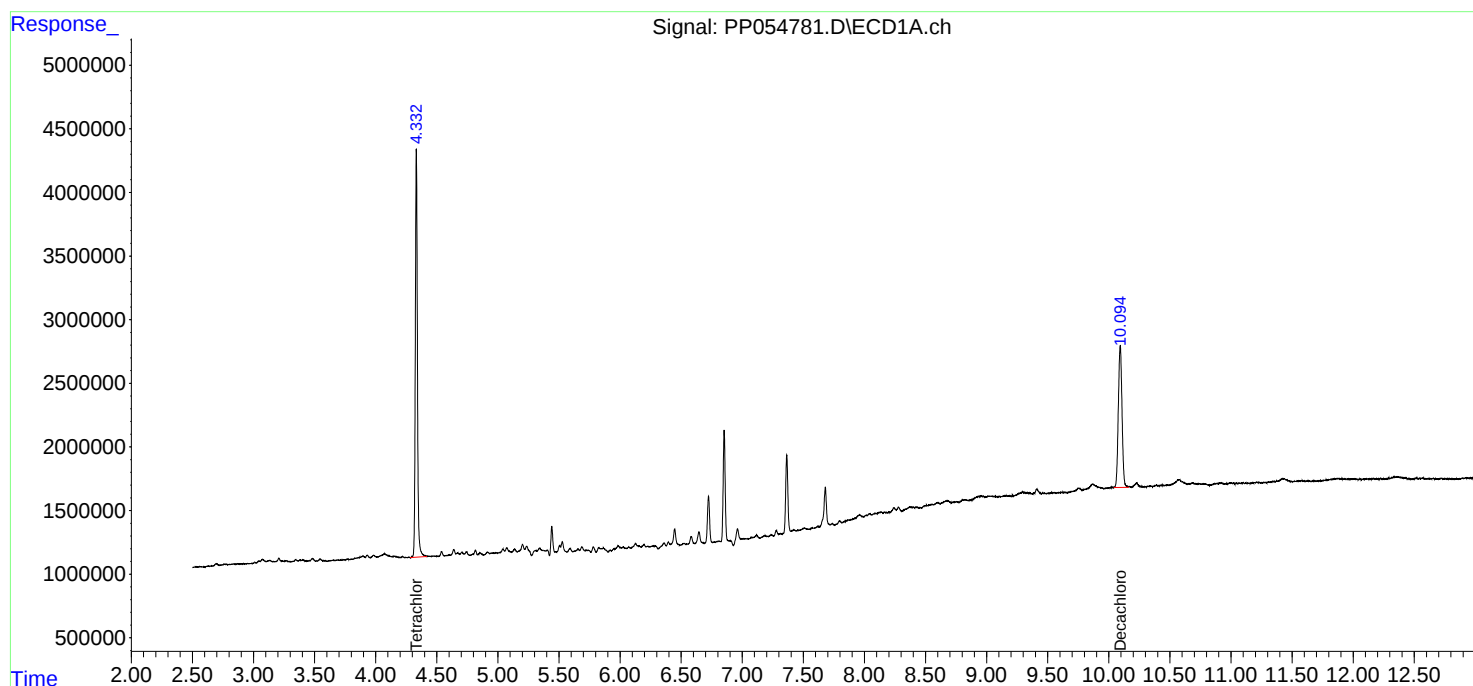
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

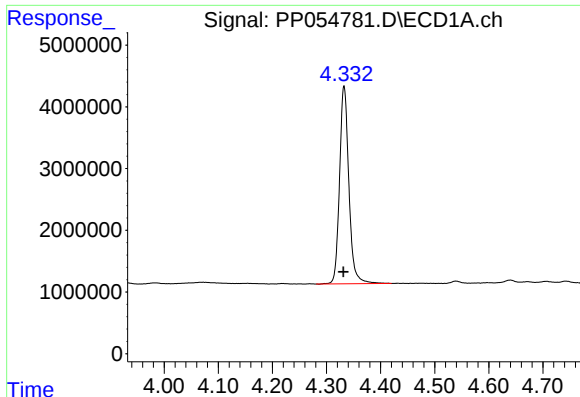
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054781.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 21:43
Operator : YP\AJ
Sample : 01232-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-19A

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:51:15 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

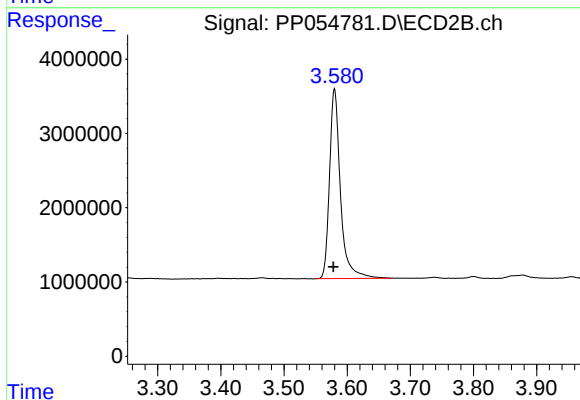




#1 Tetrachloro-m-xylene

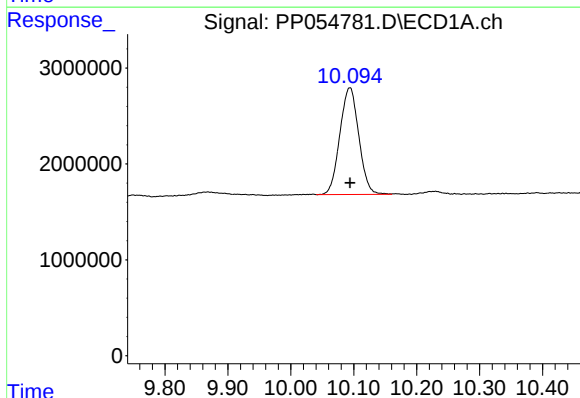
R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 38349821
Conc: 20.89 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-19A



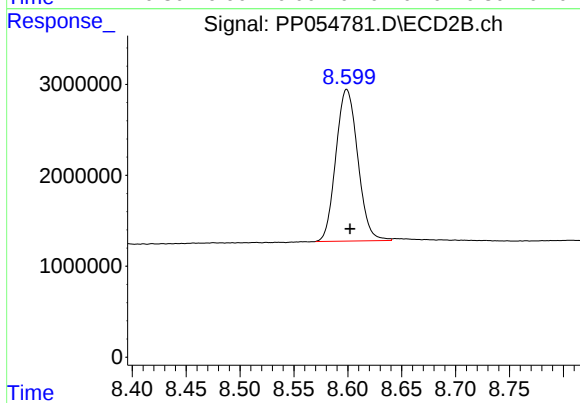
#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 30727093
Conc: 19.20 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.094 min
Delta R.T.: 0.000 min
Response: 23290789
Conc: 17.35 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.599 min
Delta R.T.: -0.003 min
Response: 23589624
Conc: 16.47 ng/ml



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P19B		SDG No.:	O1232	
Lab Sample ID:	O1232-07		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	88	Decanted:
Sample Wt/Vol:	30.1	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
PP054782.D	1	01/20/23 10:35	01/20/23 22:00	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.50	U	3.50	19.3	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	19.3	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	19.3	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	19.3	ug/kg
12672-29-6	Aroclor-1248	3.40	U	3.40	19.3	ug/kg
11097-69-1	Aroclor-1254	4.80	U	4.80	19.3	ug/kg
37324-23-5	Aroclor-1262	3.80	U	3.80	19.3	ug/kg
11100-14-4	Aroclor-1268	6.50	U	6.50	19.3	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.3		40 - 162	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		32 - 176	103%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054782.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 22:00
 Operator : YP\AJ
 Sample : 01232-07
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-19B

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/23/2023
 Supervised By :Ankita Jodhani 01/23/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:51:45 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.580	39164744	31748120	21.330m	19.834
2) SA Decachlor...	10.092	8.598	27629542	27740185	20.584	19.371

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054782.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 22:00
Operator : YP\AJ
Sample : 01232-07
Misc :
ALS Vial : 17 Sample Multiplier: 1

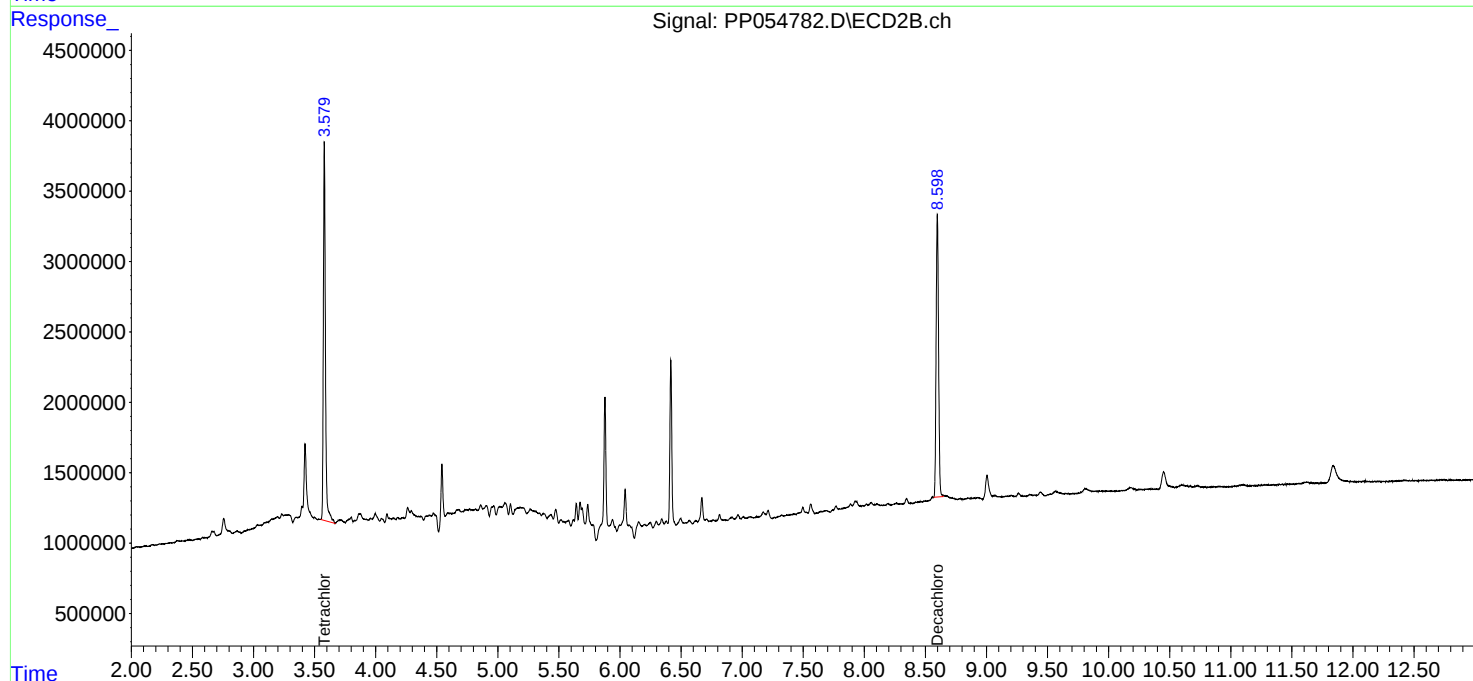
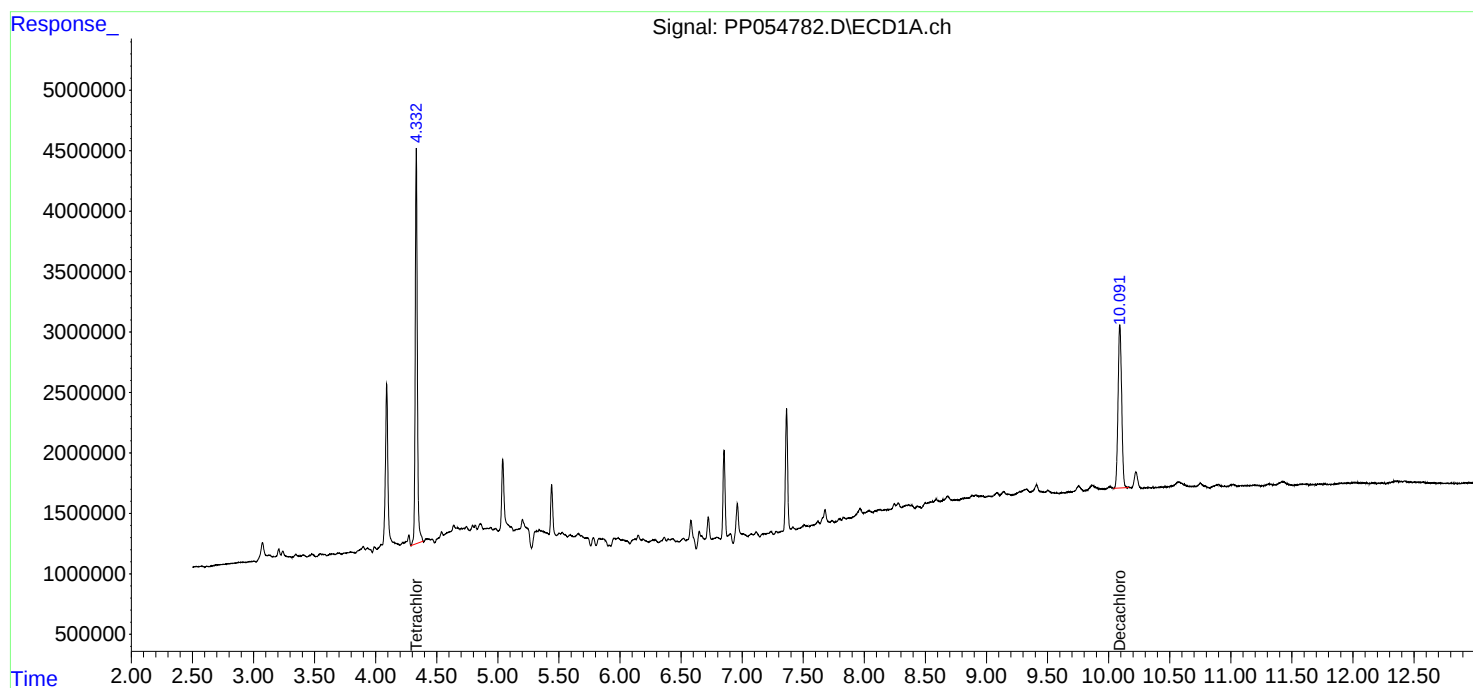
Instrument :
ECD_P
ClientSampleId :
B-P-19B

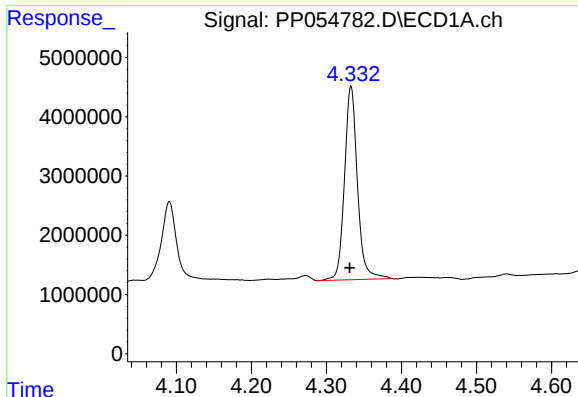
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:51:45 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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





#1 Tetrachloro-m-xylene

R.T.: 4.332 min
Delta R.T.: 0.001 min
Response: 39164744
Conc: 21.33 ng/ml

Instrument :

ECD_P

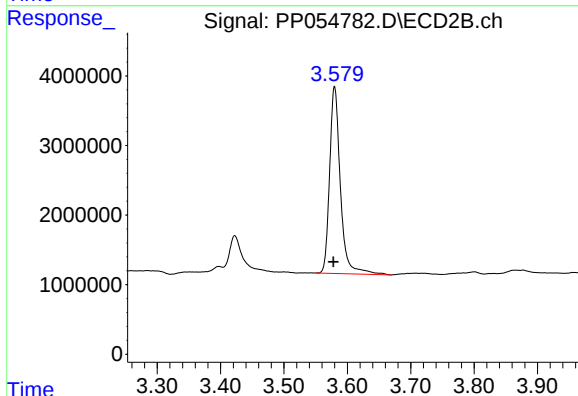
ClientSampleId :

B-P-19B

Manual Integrations

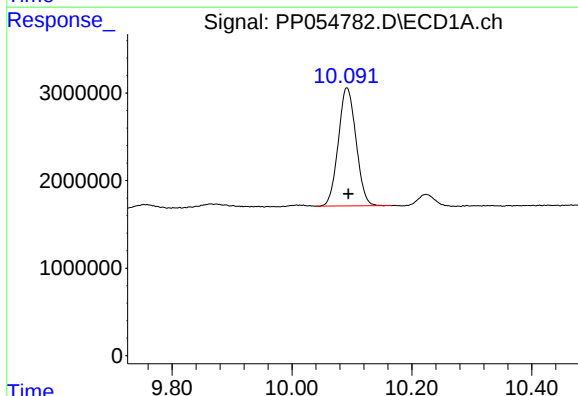
APPROVED

Reviewed By :Yogesh Patel 01/23/2023
Supervised By :Ankita Jodhani 01/23/2023



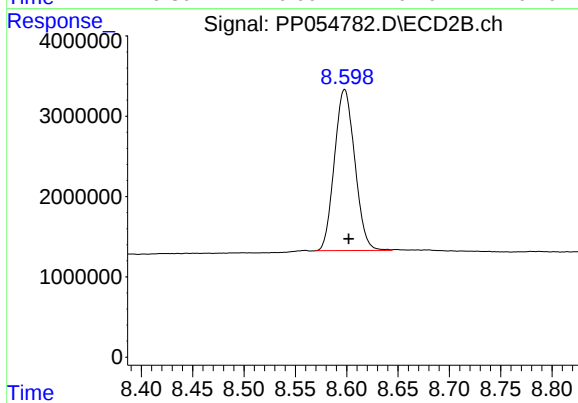
#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 31748120
Conc: 19.83 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: -0.003 min
Response: 27629542
Conc: 20.58 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 27740185
Conc: 19.37 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P35A		SDG No.:	O1232	
Lab Sample ID:	O1232-08		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	91.3	Decanted:
Sample Wt/Vol:	30.05	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
PP054783.D	1	01/20/23 10:35	01/20/23 22:16	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.30	U	3.30	18.6	ug/kg
11104-28-2	Aroclor-1221	5.10	U	5.10	18.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	18.6	ug/kg
53469-21-9	Aroclor-1242	2.60	U	2.60	18.6	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	18.6	ug/kg
11097-69-1	Aroclor-1254	4.60	U	4.60	18.6	ug/kg
37324-23-5	Aroclor-1262	3.60	U	3.60	18.6	ug/kg
11100-14-4	Aroclor-1268	6.30	U	6.30	18.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		40 - 162	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		32 - 176	101%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054783.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 22:16
Operator : YP\AJ
Sample : 01232-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-35A

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:52:20 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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...	4.332	3.579	40906391	33176187	22.278	20.726
2) SA Decachlor...	10.092	8.599	27167307	27787929	20.240	19.404

Target Compounds

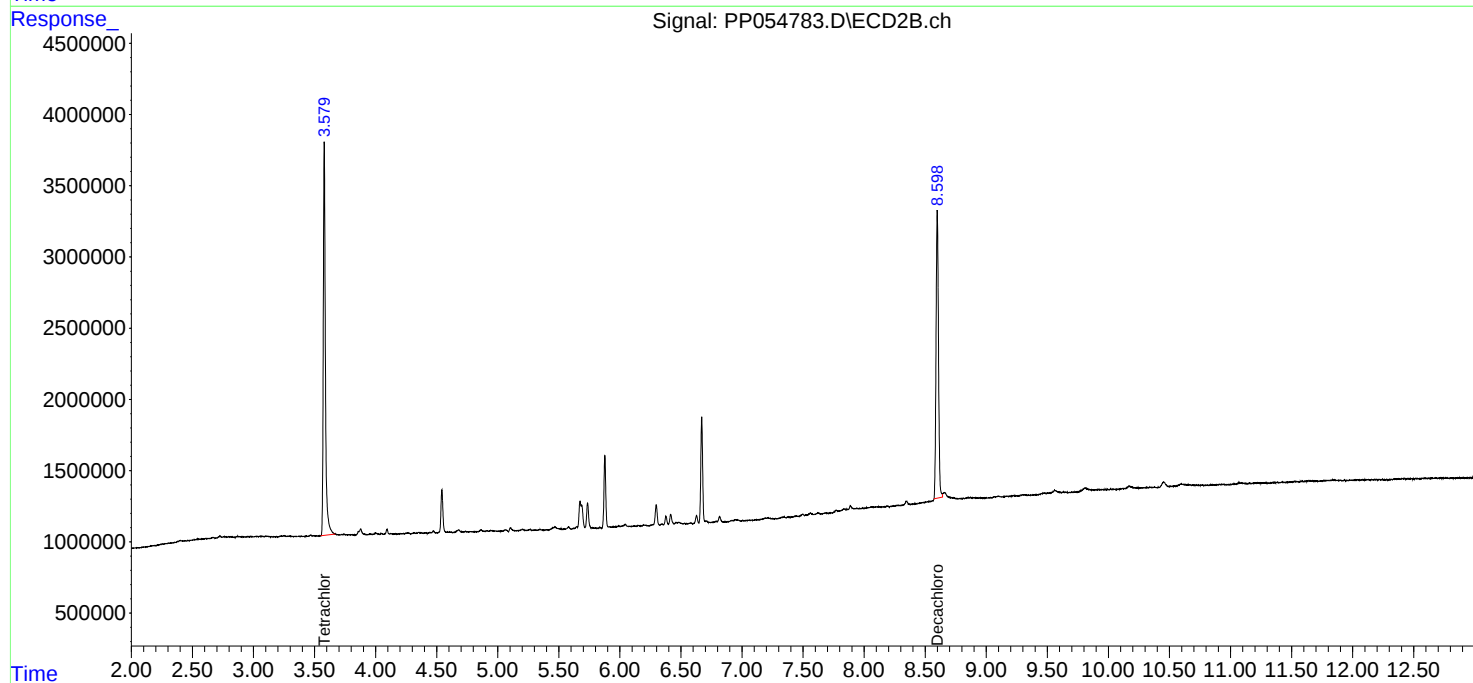
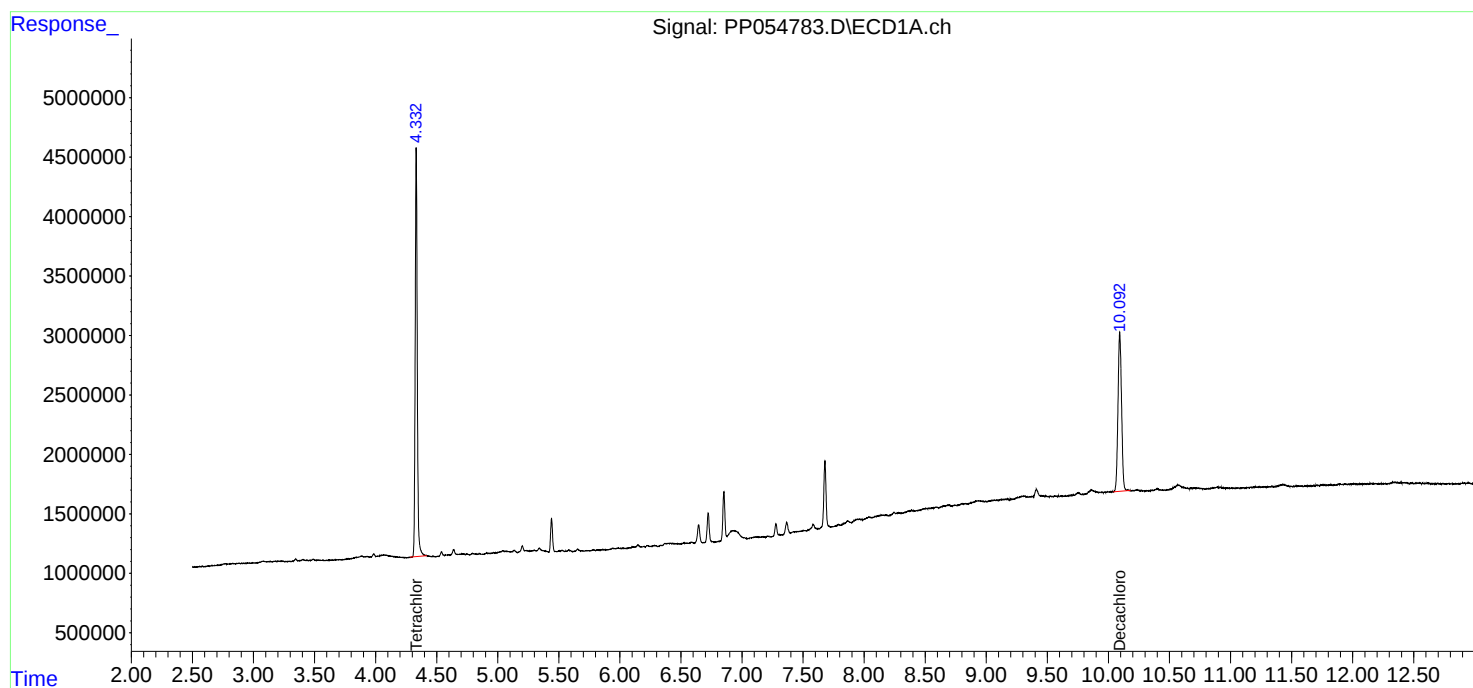
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

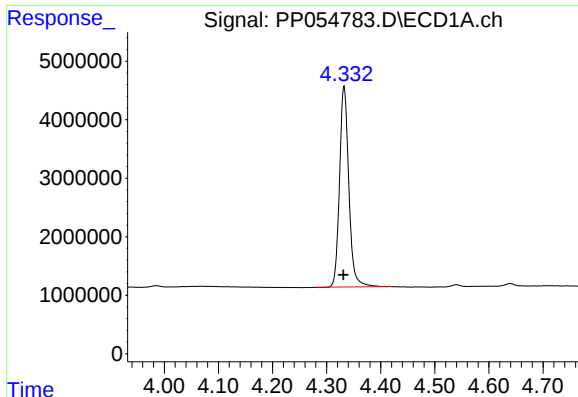
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054783.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 22:16
Operator : YP\AJ
Sample : 01232-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-35A

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:52:20 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

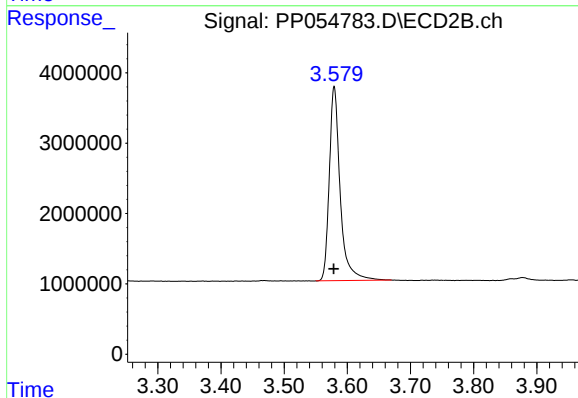




#1 Tetrachloro-m-xylene

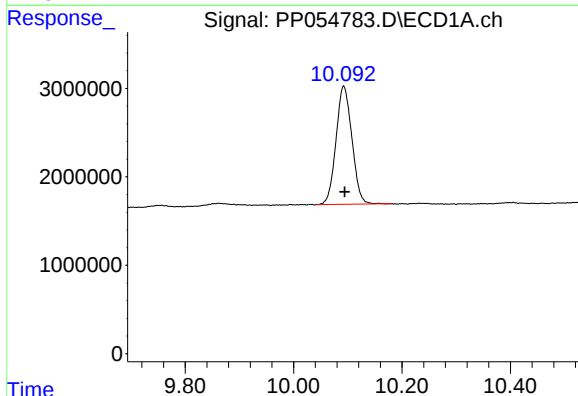
R.T.: 4.332 min
Delta R.T.: 0.001 min
Response: 40906391
Conc: 22.28 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-35A



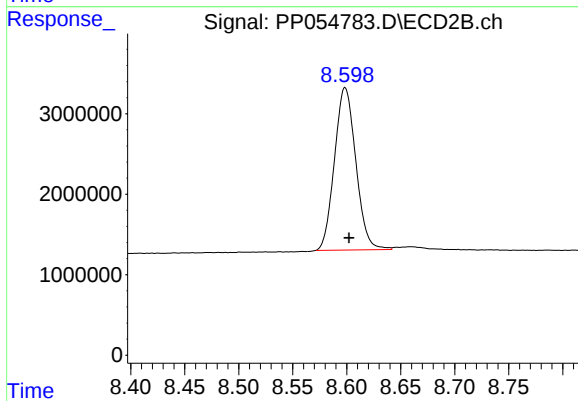
#1 Tetrachloro-m-xylene

R.T.: 3.579 min
Delta R.T.: 0.000 min
Response: 33176187
Conc: 20.73 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: -0.002 min
Response: 27167307
Conc: 20.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.599 min
Delta R.T.: -0.003 min
Response: 27787929
Conc: 19.40 ng/ml



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	B-P35B		SDG No.:	O1232	
Lab Sample ID:	O1232-09		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	93.3	Decanted:
Sample Wt/Vol:	30.03	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
PP054784.D	1	01/20/23 10:35	01/20/23 22:33	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.30	U	3.30	18.2	ug/kg
11104-28-2	Aroclor-1221	5.00	U	5.00	18.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	18.2	ug/kg
53469-21-9	Aroclor-1242	2.60	U	2.60	18.2	ug/kg
12672-29-6	Aroclor-1248	3.20	U	3.20	18.2	ug/kg
11097-69-1	Aroclor-1254	4.50	U	4.50	18.2	ug/kg
37324-23-5	Aroclor-1262	3.60	U	3.60	18.2	ug/kg
11100-14-4	Aroclor-1268	6.10	U	6.10	18.2	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.5		40 - 162	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		32 - 176	98%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054784.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 22:33
 Operator : YP\AJ
 Sample : 01232-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-35B

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:53:08 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.579	39478825	30675868	21.501	19.164
2) SA Decachlor...	10.093	8.600	26199322	27665042	19.519	19.318

Target Compounds

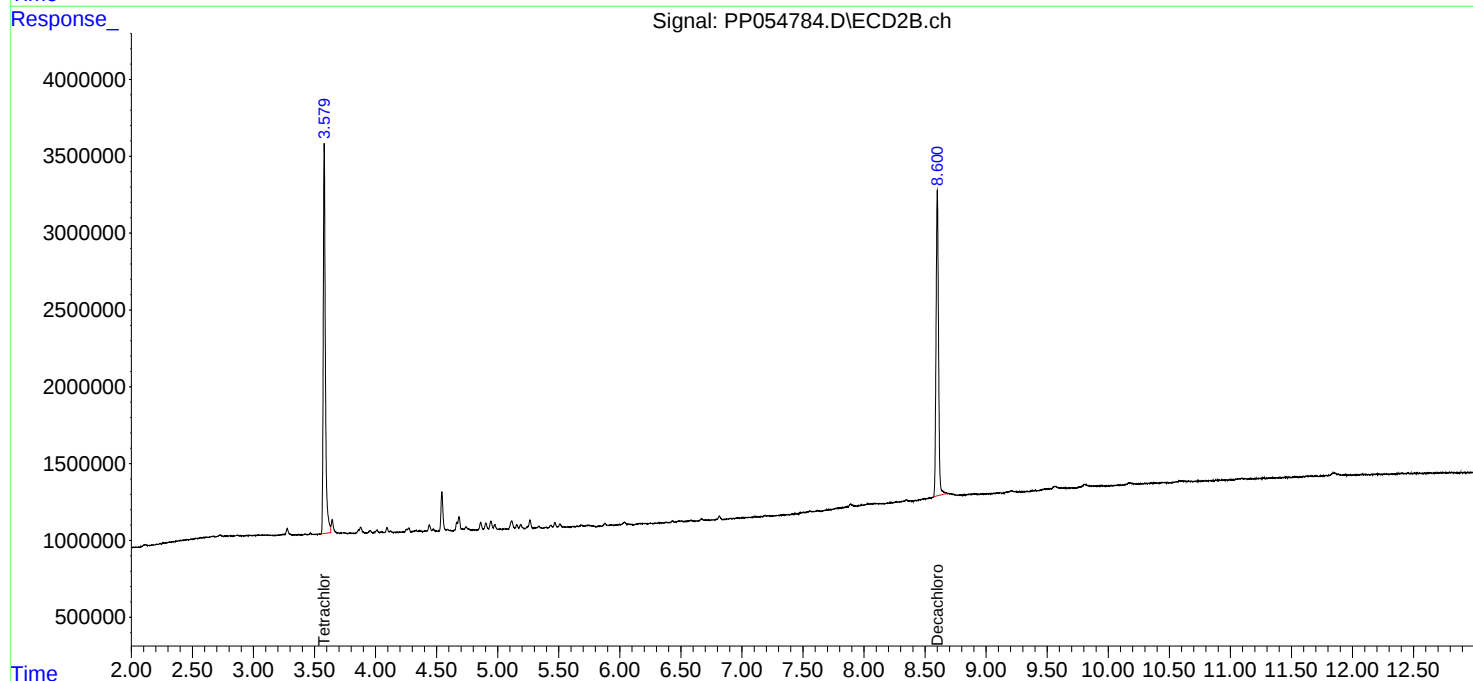
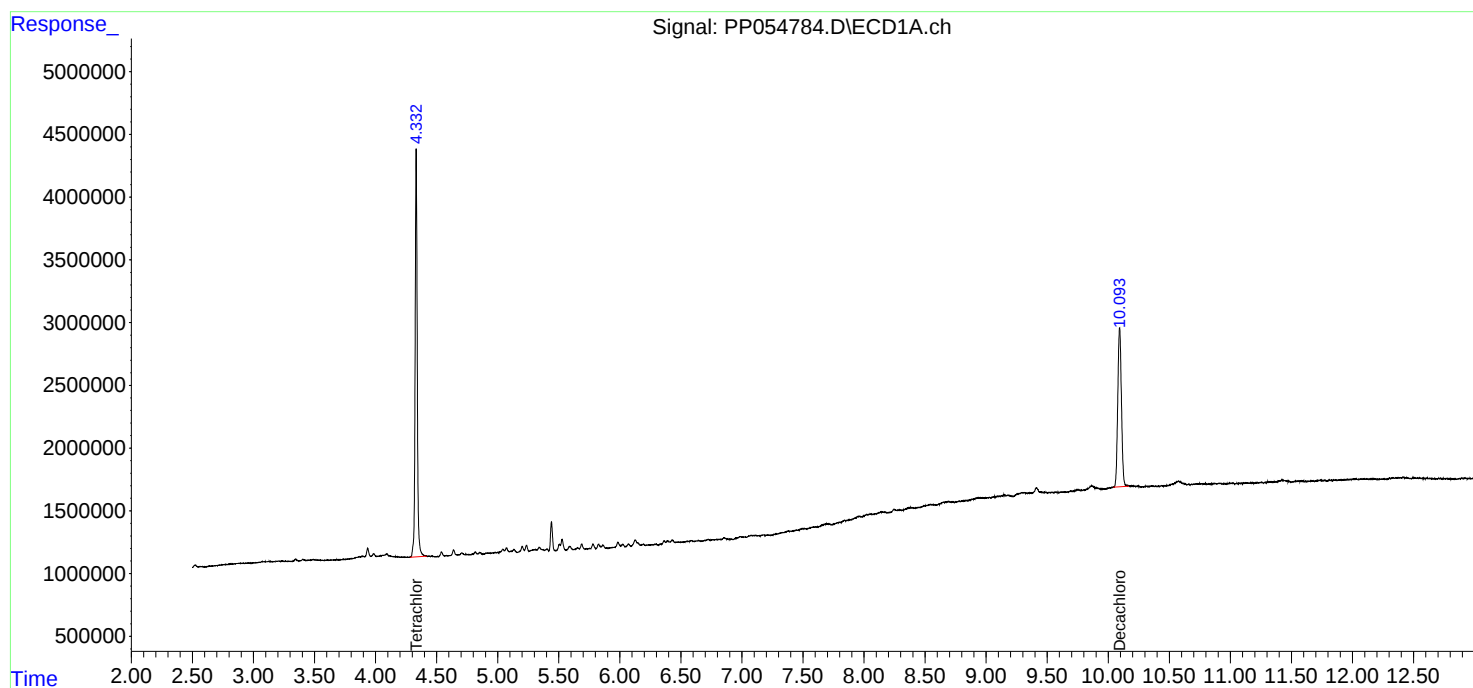
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

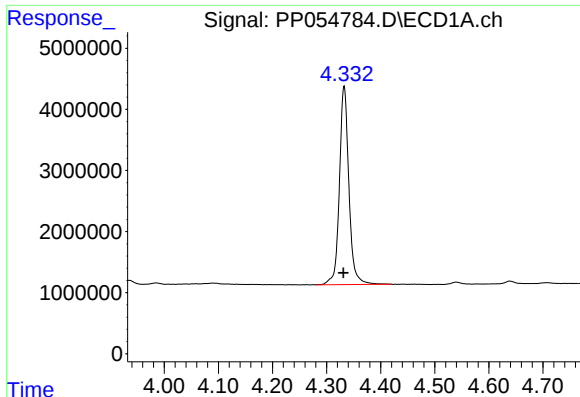
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054784.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 22:33
Operator : YP\AJ
Sample : 01232-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-35B

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:53:08 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

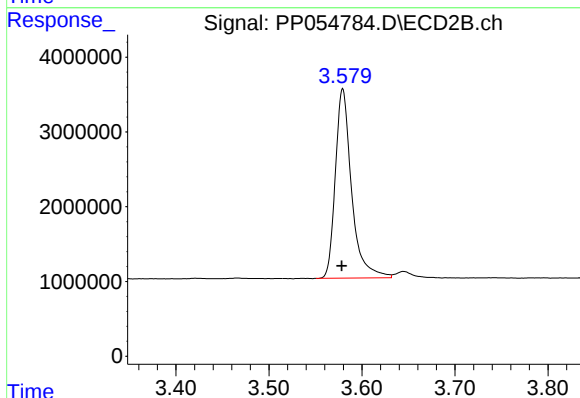




#1 Tetrachloro-m-xylene

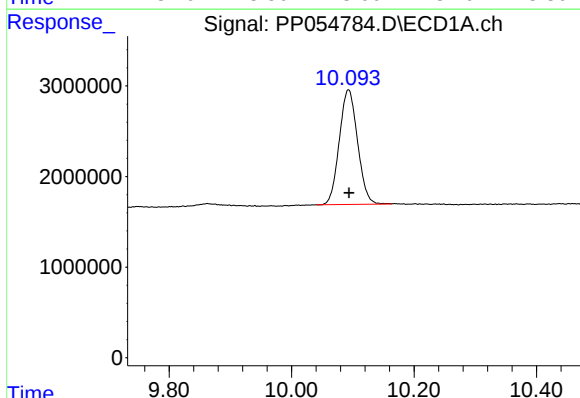
R.T.: 4.332 min
Delta R.T.: 0.001 min
Response: 39478825
Conc: 21.50 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-P-35B



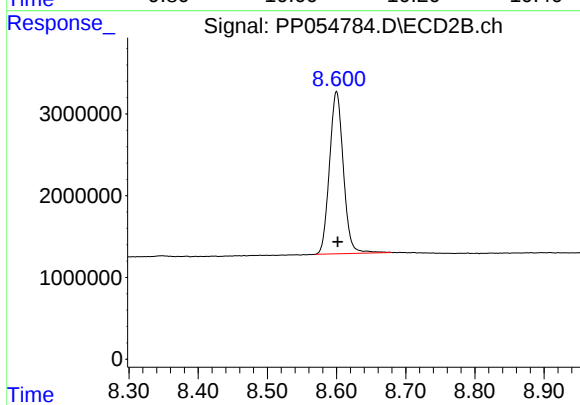
#1 Tetrachloro-m-xylene

R.T.: 3.579 min
Delta R.T.: 0.001 min
Response: 30675868
Conc: 19.16 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.093 min
Delta R.T.: -0.001 min
Response: 26199322
Conc: 19.52 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 27665042
Conc: 19.32 ng/ml



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

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23	
Client Sample ID:	DUP01		SDG No.:	O1232	
Lab Sample ID:	O1232-10		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	90.1	Decanted:
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
PP054785.D	1	01/20/23 10:35	01/20/23 22:49	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	18.8	ug/kg
11104-28-2	Aroclor-1221	5.20	U	5.20	18.8	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	18.8	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	18.8	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	18.8	ug/kg
11097-69-1	Aroclor-1254	4.70	U	4.70	18.8	ug/kg
37324-23-5	Aroclor-1262	3.70	U	3.70	18.8	ug/kg
11100-14-4	Aroclor-1268	6.30	U	6.30	18.8	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		40 - 162	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		32 - 176	106%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054785.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 22:49
 Operator : YP\AJ
 Sample : 01232-10
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 DUP01

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:53:46 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.579	40254264	32226868	21.923	20.133
2)	SA Decachlor...	10.092	8.598	28466755	28418929	21.208	19.845

Target Compounds

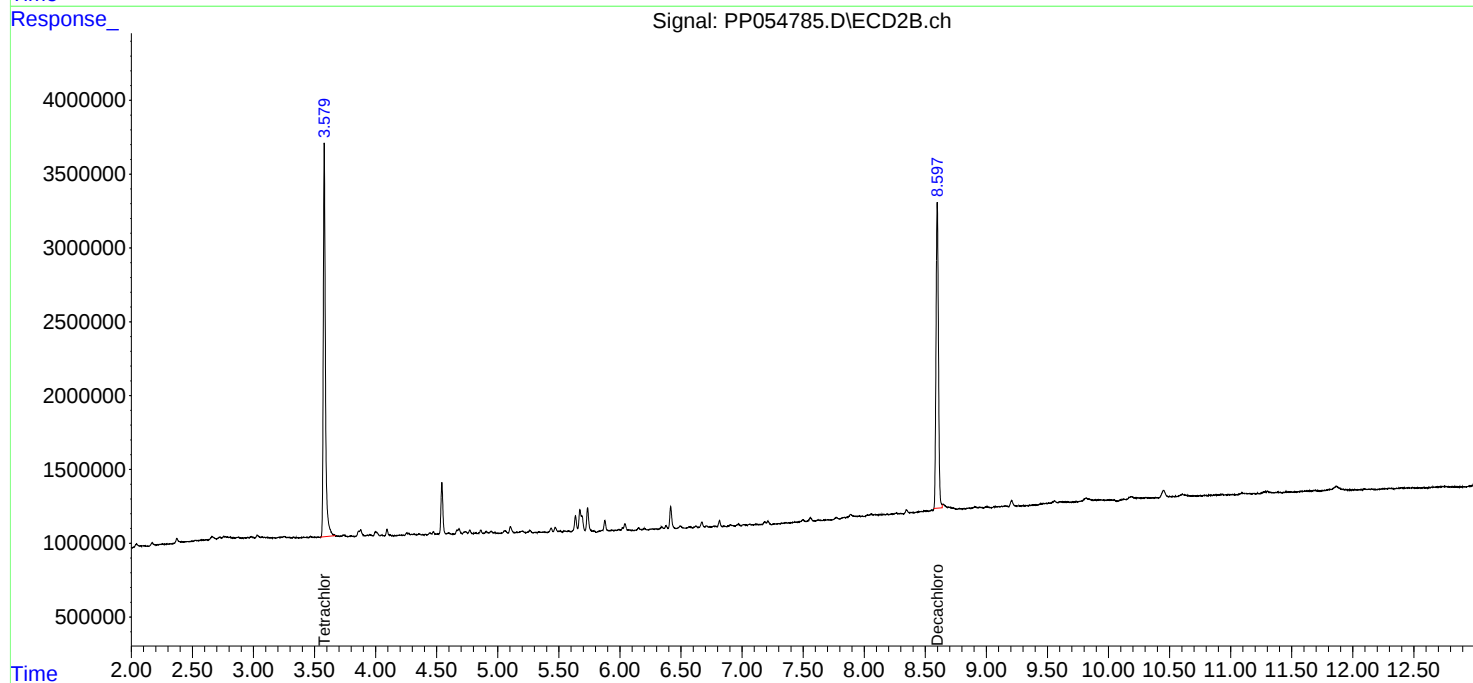
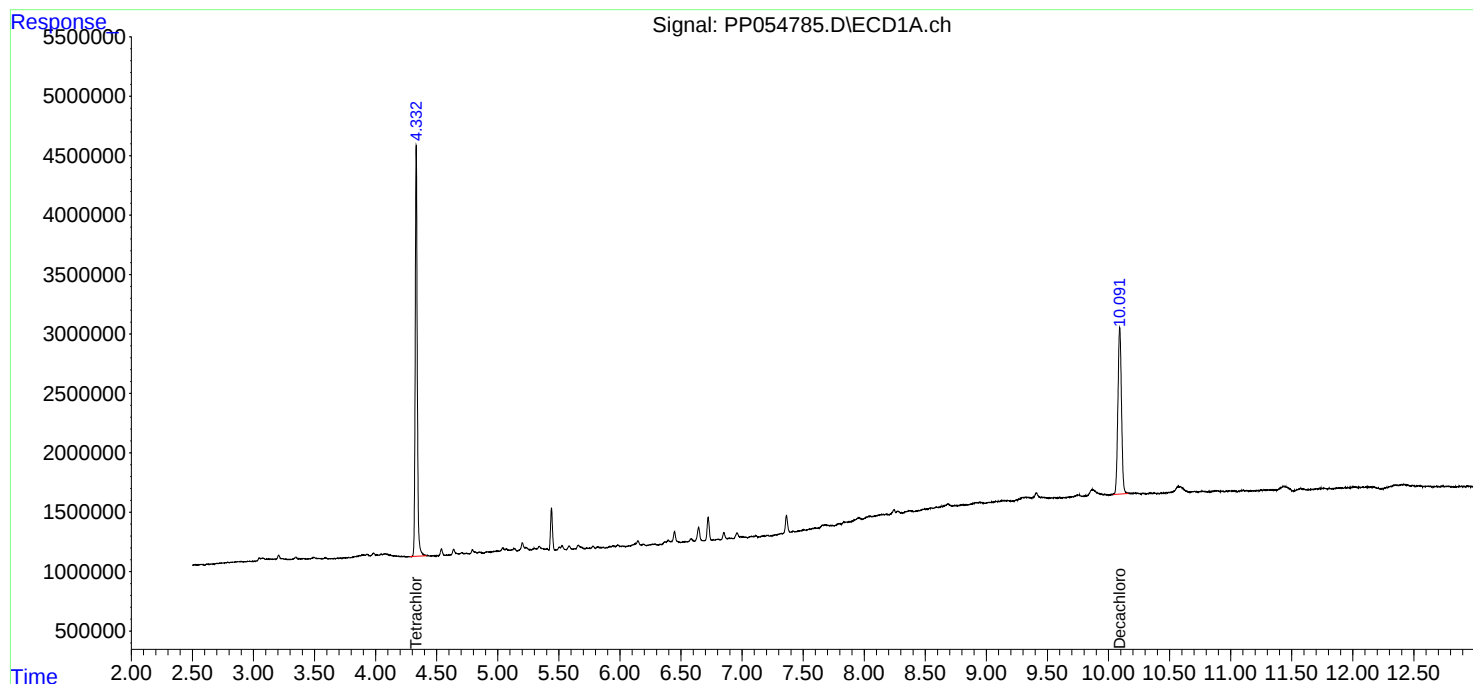
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054785.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 22:49
Operator : YP\AJ
Sample : 01232-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

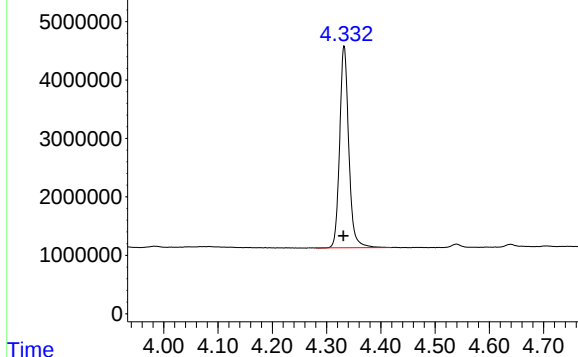
Instrument :
ECD_P
ClientSampleId :
DUP01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:53:46 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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



Response_ Signal: PP054785.D\ECD1A.ch

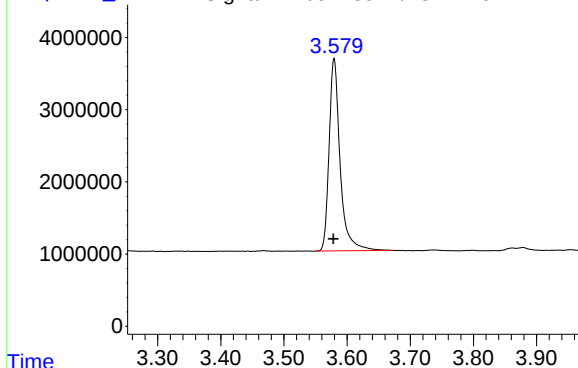


#1 Tetrachloro-m-xylene

R.T.: 4.332 min
Delta R.T.: 0.001 min
Response: 40254264
Conc: 21.92 ng/ml

Instrument :
ECD_P
ClientSampleId :
DUP01

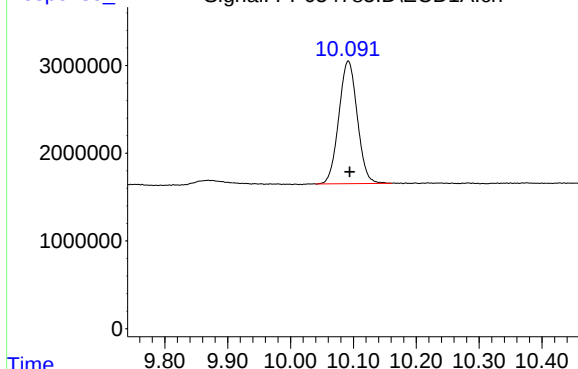
Time Response_ Signal: PP054785.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.579 min
Delta R.T.: 0.001 min
Response: 32226868
Conc: 20.13 ng/ml

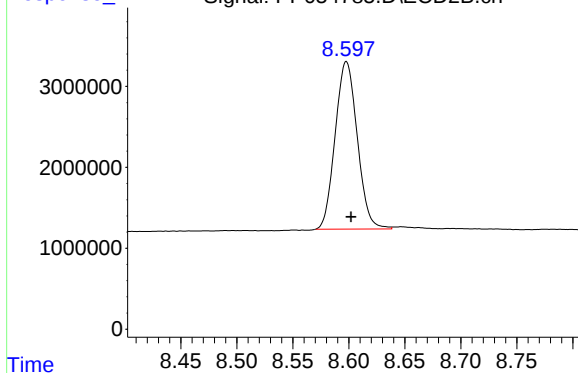
Time Response_ Signal: PP054785.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: -0.002 min
Response: 28466755
Conc: 21.21 ng/ml

Time Response_ Signal: PP054785.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 28418929
Conc: 19.84 ng/ml

CALIBRATION SUMMARY

[illegible]

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

[illegible]

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232

Instrument ID: ECD_P Calibration Date(s): 01/17/2023 01/18/2023

Calibration Times: 19:14 02:39

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

LAB FILE ID:							
CF 500 = <u>PP054624.D</u>		CF 1000 = <u>PP054622.D</u>		CF 750 = <u>PP054623.D</u>		CF 250 = <u>PP054625.D</u>	
				CF 050 = <u>PP054626.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	60994757	61617163	65555438	69557608	66086960	5
Aroclor-1016-2	(2)	89698776	91415513	95488362	100337572	95540200	4
Aroclor-1016-3	(3)	55770302	57035852	60394448	64434108	60548420	6
Aroclor-1016-4	(4)	45481753	46113448	48521374	51105992	46383960	5
Aroclor-1016-5	(5)	45060833	46319016	49079426	52666764	48937780	6
Aroclor-1260-1	(1)	63208139	64131257	68618860	73920032	73551140	7
Aroclor-1260-2	(2)	73618973	74006295	78778356	85364204	88083200	8
Aroclor-1260-3	(3)	57002616	57349332	60308428	64600060	61936160	5
Aroclor-1260-4	(4)	66249620	67120772	70758598	75398920	70316000	5
Aroclor-1260-5	(5)	126243057	124643740	130501186	136485244	133523920	4
Decachlorobiphenyl		1274969720	1274505000	1355090560	1428073880	1378697600	5
Tetrachloro-m-xylene		1833116560	1821365480	1874138920	1904245840	1747971400	3
Aroclor-1242-1	(1)	50809135	52021196	54810186	57831004	54879600	5
Aroclor-1242-2	(2)	73973970	74978488	79076574	83453528	78615140	5
Aroclor-1242-3	(3)	46155227	47067688	50035314	53190808	49172100	6
Aroclor-1242-4	(4)	37578215	38537477	40276172	42845280	39110980	5
Aroclor-1242-5	(5)	29832252	32681105	39082358	45312016	33492960	17
Decachlorobiphenyl		1251041510	1273988747	1344550800	1416939680	1385203200	5
Tetrachloro-m-xylene		1811405100	1815934547	1861729720	1883700080	1773088000	2
Aroclor-1248-1	(1)	37607776	39006492	40780610	43090024	38634340	5
Aroclor-1248-2	(2)	54475652	56989927	59770636	63999452	61541340	6
Aroclor-1248-3	(3)	60721667	62367509	66784284	71364928	68713780	7
Aroclor-1248-4	(4)	62162191	63537173	66947460	71225736	70218880	6
Aroclor-1248-5	(5)	60838553	60991893	64904352	68877936	69476000	6
Decachlorobiphenyl		1247706810	1281398533	1334691060	1413445920	1382528000	5
Tetrachloro-m-xylene		1778703180	1796466640	1840391920	1855036880	1716680200	3
Aroclor-1254-1	(1)	64876069	67358152	70187782	76230944	74744580	7
Aroclor-1254-2	(2)	79306440	82003113	93891248	112648900	110718960	16
Aroclor-1254-3	(3)	81892178	84489736	87129344	93066756	87230040	5
Aroclor-1254-4	(4)	58248595	60618040	62943304	67757892	63676880	6
Aroclor-1254-5	(5)	64415099	66907195	69281020	74033684	75257760	7
Decachlorobiphenyl		1254664020	1300116533	1341785500	1428088760	1371493400	5
Tetrachloro-m-xylene		1792448220	1818331987	1827797180	1888829640	1734829400	3
Aroclor-1268-1	(1)	175484193	178569517	187137462	192825248	188148800	4

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	160551159	163997384	171189930	177103064	174642720	169496851	4
Aroclor-1268-3	(3)	140670488	143555869	150787190	155460048	154331920	148961103	4
Aroclor-1268-4	(4)	62374308	64150585	66875200	68369584	61005440	64555023	5
Aroclor-1268-5	(5)	472850074	479426876	492048528	498177556	470558160	482612239	3
Decachlorobiphenyl		2241360920	2290810347	2403495460	2504350200	2478617600	2383726905	5
Tetrachloro-m-xylene		1820885660	1841071600	1902207260	1899803000	1713261200	1835445744	4

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232

Instrument ID: ECD_P Calibration Date(s): 01/17/2023 01/18/2023

Calibration Times: 19:14 02:39

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

LAB FILE ID:							
CF 500 = <u>PP054624.D</u>		CF 1000 = <u>PP054622.D</u>		CF 750 = <u>PP054623.D</u>		CF 250 = <u>PP054625.D</u>	
				CF 050 = <u>PP054626.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	48110900	48110107	50537560	54617184	50472120	5
Aroclor-1016-2	(2)	69111880	69642880	72798372	74770824	70622940	3
Aroclor-1016-3	(3)	37563855	37764157	39734264	41695432	37909600	5
Aroclor-1016-4	(4)	31567046	32159183	34386044	36537740	35170860	6
Aroclor-1016-5	(5)	41182153	41787627	44073134	47148696	44877720	6
Aroclor-1260-1	(1)	79365232	78844829	83633318	87879524	85377440	5
Aroclor-1260-2	(2)	88933725	87782645	92805916	97339284	93364340	4
Aroclor-1260-3	(3)	87602101	86249311	91183270	94760696	89598560	4
Aroclor-1260-4	(4)	73956541	72106947	75886624	78959280	75422320	3
Aroclor-1260-5	(5)	159388878	153900888	160536508	163728940	156965120	2
Decachlorobiphenyl		1372404250	1343669640	1421472540	1500508000	1522245600	5
Tetrachloro-m-xylene		1613419820	1600019107	1643383900	1655624320	1491050200	4
Aroclor-1242-1	(1)	39381881	40399891	43176434	45114300	42876980	5
Aroclor-1242-2	(2)	56142526	57034204	59998510	63074588	57331580	5
Aroclor-1242-3	(3)	30728980	31194883	32930514	34323884	31213980	5
Aroclor-1242-4	(4)	32535838	33258647	35808658	37654476	36175940	6
Aroclor-1242-5	(5)	36257488	36521681	38439862	40852864	37981200	5
Decachlorobiphenyl		1315958030	1336503627	1397426220	1474809520	1523899200	6
Tetrachloro-m-xylene		1598557950	1600123813	1632195220	1649415280	1503535600	4
Aroclor-1248-1	(1)	29968083	30528827	32630110	33078996	30239600	5
Aroclor-1248-2	(2)	42656411	46196937	48804598	52134512	50261680	8
Aroclor-1248-3	(3)	47442287	48618009	51003946	54494984	52529060	6
Aroclor-1248-4	(4)	58144594	56358249	59692022	62643004	60418260	4
Aroclor-1248-5	(5)	51788530	48406688	51046562	52821868	49982340	3
Decachlorobiphenyl		1312777750	1324791253	1399268980	1478112400	1469837800	6
Tetrachloro-m-xylene		1568868510	1578596160	1614623820	1618825400	1470404000	4
Aroclor-1254-1	(1)	79431366	81682171	83681748	89732044	90578220	6
Aroclor-1254-2	(2)	68328243	70260385	72293666	77989120	74967820	5
Aroclor-1254-3	(3)	107725360	111793424	114278880	119519708	112560740	4
Aroclor-1254-4	(4)	58850995	61251233	63196410	66474456	61431200	5
Aroclor-1254-5	(5)	90585374	93603605	94943324	100286216	94427640	4
Decachlorobiphenyl		1315840430	1351611280	1390860680	1481754480	1472256400	5
Tetrachloro-m-xylene		1573028330	1599438347	1606333020	1637352520	1467704000	4
Aroclor-1268-1	(1)	211800889	212068772	218805520	222295460	216088460	2

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	193204962	192623001	197813464	201698528	194072640	195882519	2
Aroclor-1268-3	(3)	173229843	174323716	178901816	182613184	175756480	176965008	2
Aroclor-1268-4	(4)	65506290	66378420	68913796	71791976	65601900	67638476	4
Aroclor-1268-5	(5)	517569534	517095833	523047182	523415748	491419840	514509627	3
Decachlorobiphenyl		2382750360	2420081013	2478549680	2574937120	2599484600	2491160555	4
Tetrachloro-m-xylene		1599008690	1617900053	1666311200	1654862560	1461882000	1599992901	5

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232

Instrument ID: ECD_P Date(s) Analyzed: 01/17/2023 01/18/2023

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.54	4.44	4.64	22885400
		2	4.63	4.53	4.73	17599600
		3	4.70	4.60	4.80	53152600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.70	4.60	4.80	44446000
		2	5.24	5.14	5.34	24106800
		3	5.53	5.43	5.63	43099800
		4	5.69	5.59	5.79	21462800
		5	5.78	5.68	5.88	17205600
Aroclor-1262	500	1	7.74	7.64	7.84	81857800
		2	8.28	8.18	8.38	141579000
		3	8.59	8.49	8.69	103096000
		4	8.68	8.58	8.78	49715200
		5	9.34	9.24	9.44	56956800

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: loui01

Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232

Instrument ID: ECD_P Date(s) Analyzed: 01/17/2023 01/18/2023

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.79	3.69	3.89	19786500
		2	3.88	3.78	3.98	15022200
		3	3.95	3.85	4.05	45959600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	3.95	3.85	4.05	38578200
		2	4.69	4.59	4.79	32690000
		3	4.86	4.76	4.96	17196900
		4	4.95	4.85	5.05	17323300
		5	5.12	5.02	5.22	18925700
Aroclor-1262	500	1	6.77	6.67	6.87	42418000
		2	6.97	6.87	7.07	91943600
		3	7.50	7.40	7.60	71841200
		4	7.56	7.46	7.66	129314000
		5	8.06	7.96	8.16	59579600

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
 Data File : PP054622.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 19:14
 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: Jan 18 00:25:53 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:22:18 2023
 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...	4.332	3.578	183.3E6	161.3E6	98.893	99.080
2) SA Decachlor...	10.095	8.603	127.5E6	137.2E6	96.954	98.244
Target Compounds						
3) L1 AR-1016-1	5.505	4.666	60994757	48110900	963.961	975.401
4) L1 AR-1016-2	5.527	4.685	89698776	69111880	968.737	974.022
5) L1 AR-1016-3	5.590	4.861	55770302	37563855	960.193	971.922
6) L1 AR-1016-4	5.688	4.904	45481753	31567046	967.665	957.258
7) L1 AR-1016-5	5.985	5.118	45060833	41182153	957.313	966.090
31) L7 AR-1260-1	7.117	6.155	63208139	79365232	958.956	973.815
32) L7 AR-1260-2	7.375	6.344	73618973	88933725	966.145	978.694
33) L7 AR-1260-3	7.736	6.499	57002616	87602101	971.820	979.969
34) L7 AR-1260-4	7.963	6.972	66249620	73956541	967.090	987.119
35) L7 AR-1260-5	8.280	7.216	126.2E6	159.4E6	983.415	996.413

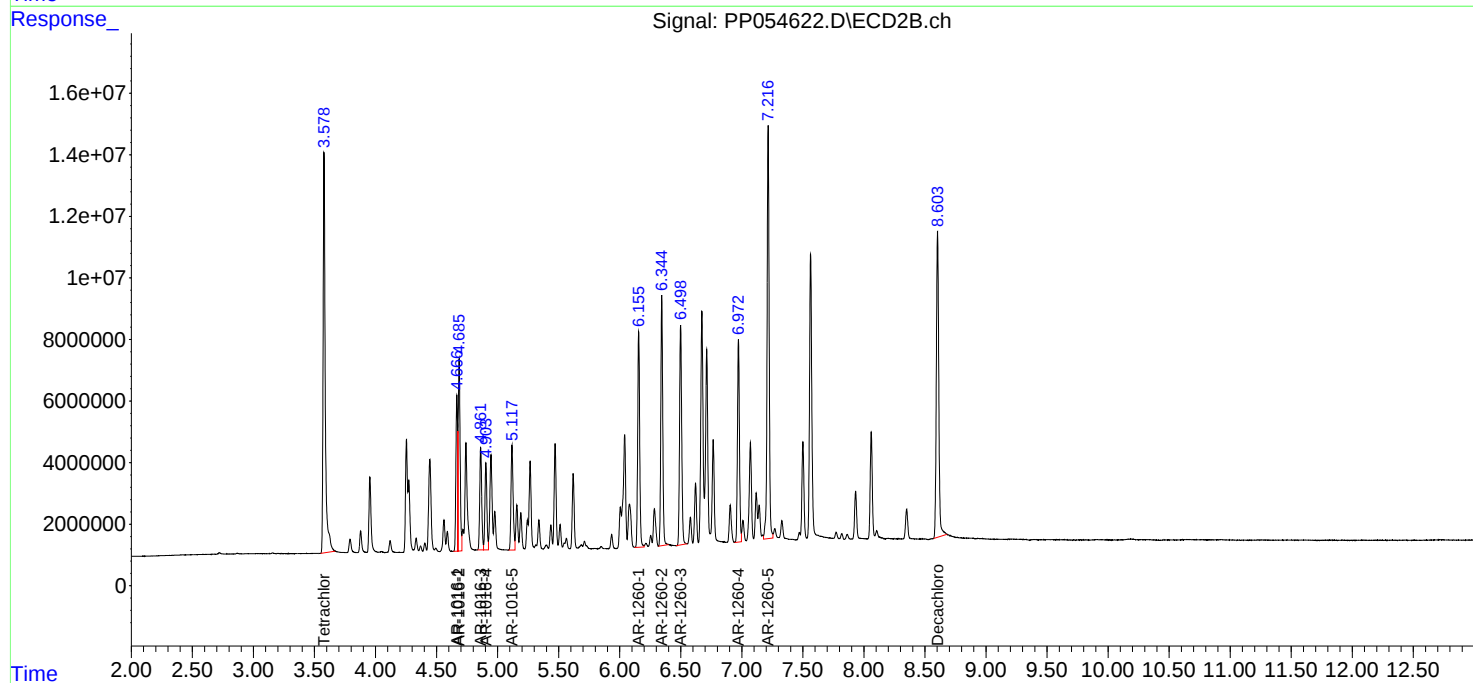
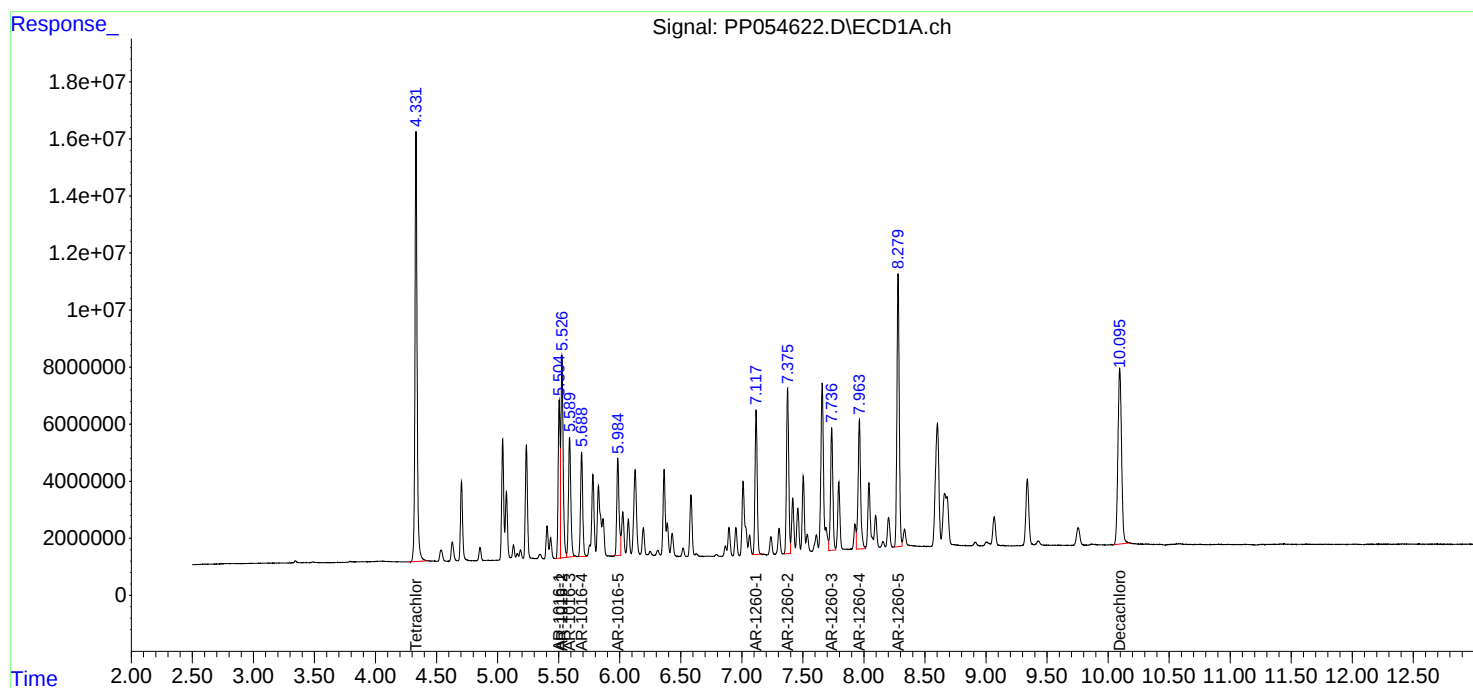
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 19:14
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: Jan 18 00:25:53 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:22:18 2023
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\PP011723\
 Data File : PP054623.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 19:31
 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: Jan 18 00:28:31 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:22:18 2023
 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...	4.332	3.579	136.6E6	120.0E6	74.125	74.123
2) SA Decachlor...	10.097	8.603	95587875	100.8E6	73.443	73.069
Target Compounds						
3) L1 AR-1016-1	5.505	4.667	46212872	36082580	736.784	737.591
4) L1 AR-1016-2	5.528	4.686	68561635	52232160	743.611	740.696
5) L1 AR-1016-3	5.590	4.862	42776889	28323118	740.937	738.464
6) L1 AR-1016-4	5.689	4.904	34585086	24119387	740.492	737.504
7) L1 AR-1016-5	5.985	5.118	34739262	31340720	741.979	740.082
31) L7 AR-1260-1	7.117	6.156	48098443	59133622	736.357	733.536
32) L7 AR-1260-2	7.376	6.345	55504721	65836984	735.475	732.819
33) L7 AR-1260-3	7.738	6.499	43011999	64686983	738.782	732.210
34) L7 AR-1260-4	7.964	6.973	50340579	54080210	739.835	730.978
35) L7 AR-1260-5	8.282	7.216	93482805	115.4E6	735.336	730.810

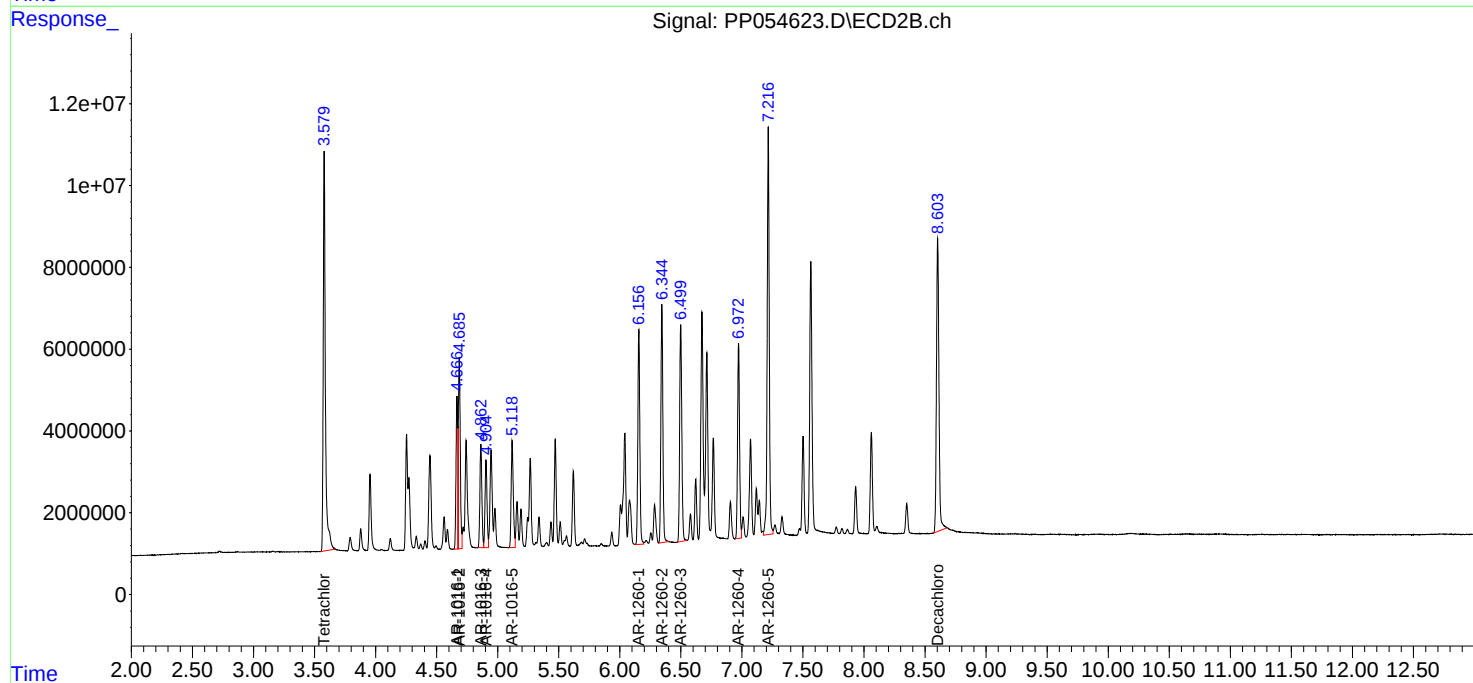
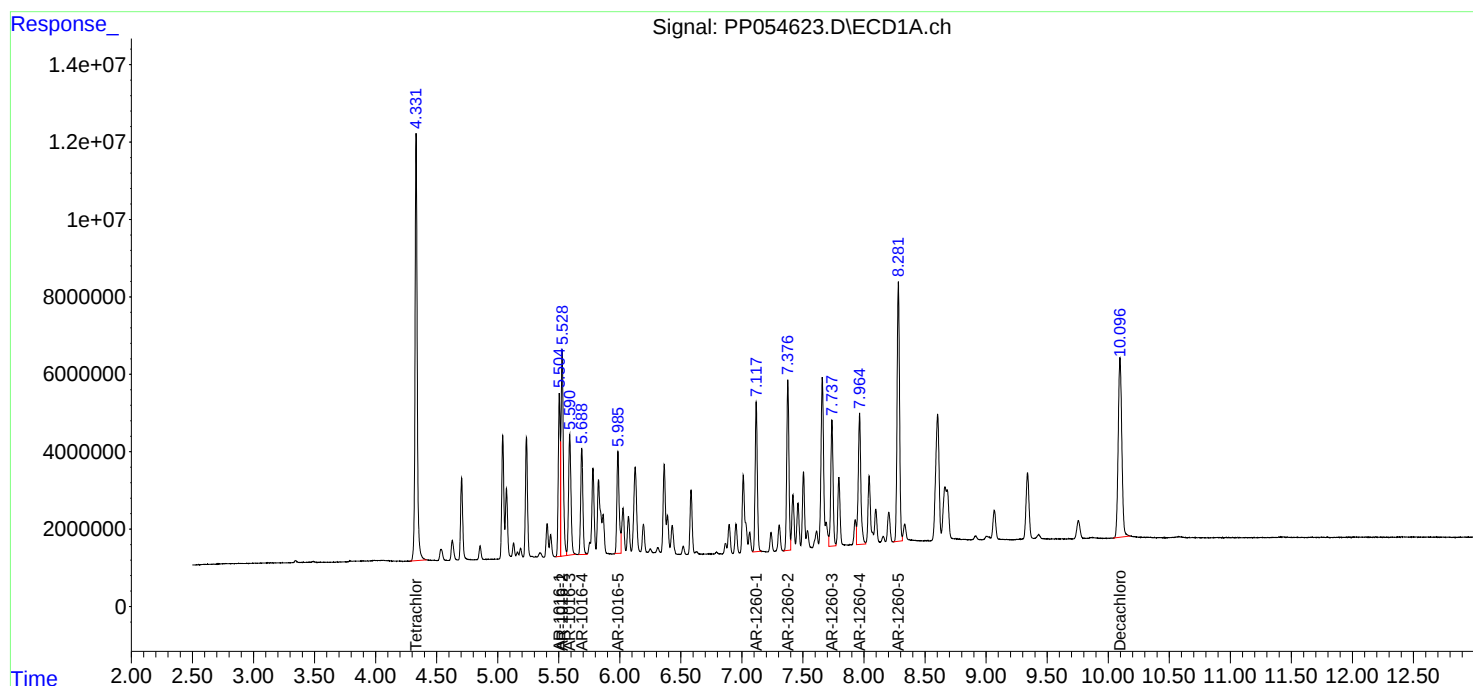
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 19:31
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: Jan 18 00:28:31 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:22:18 2023
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\PP011723\
 Data File : PP054624.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 19:47
 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: Jan 18 00:22:39 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:22:18 2023
 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...	4.331	3.578	93706946	82169195	50.000	50.000
2) SA Decachlor...	10.094	8.602	67754528	71073627	50.000	50.000
Target Compounds						
3) L1 AR-1016-1	5.505	4.665	32777719	25268780	500.000	500.000
4) L1 AR-1016-2	5.527	4.684	47744181	36399186	500.000	500.000
5) L1 AR-1016-3	5.590	4.861	30197224	19867132	500.000	500.000
6) L1 AR-1016-4	5.688	4.904	24260687	17193022	500.000	500.000
7) L1 AR-1016-5	5.985	5.117	24539713	22036567	500.000	500.000
31) L7 AR-1260-1	7.117	6.155	34309430	41816659	500.000	500.000
32) L7 AR-1260-2	7.375	6.343	39389178	46402958	500.000	500.000
33) L7 AR-1260-3	7.737	6.498	30154214	45591635	500.000	500.000
34) L7 AR-1260-4	7.963	6.972	35379299	37943312	500.000	500.000
35) L7 AR-1260-5	8.281	7.215	65250593	80268254	500.000	500.000

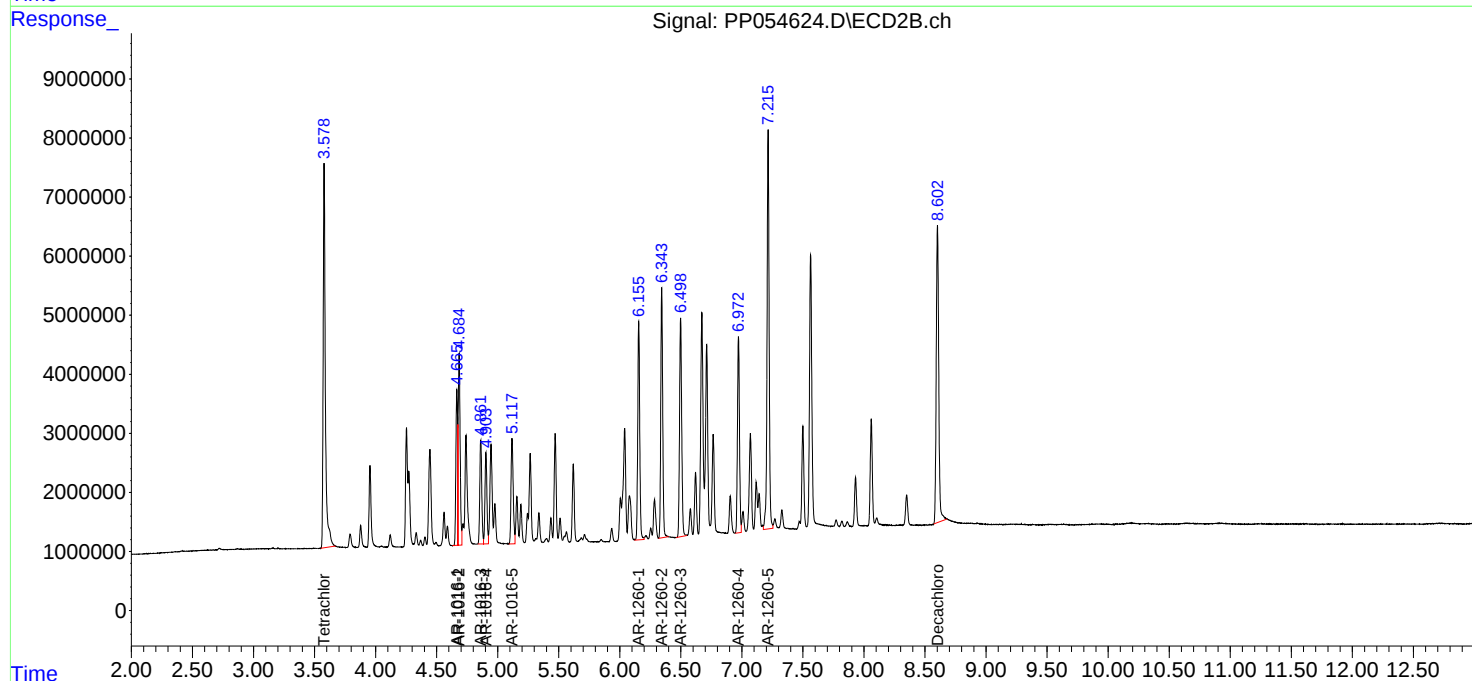
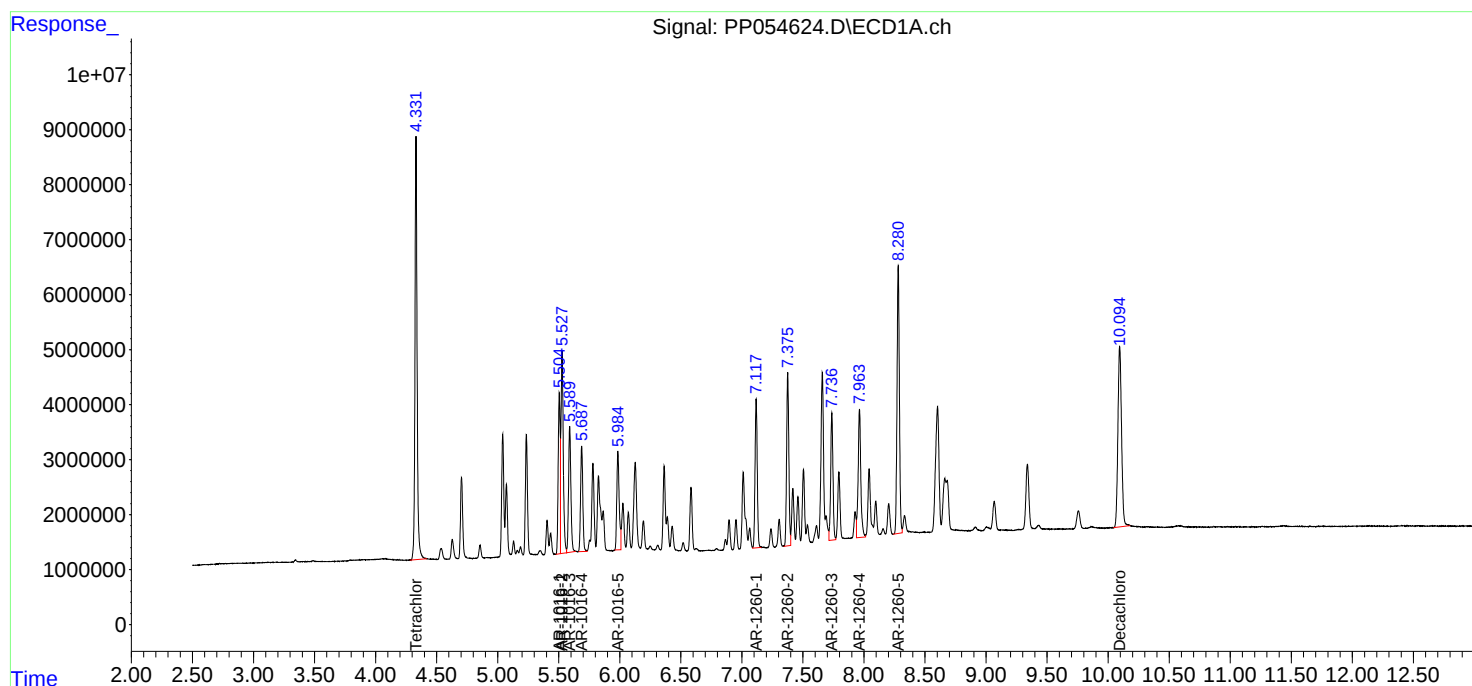
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 19:47
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: Jan 18 00:22:39 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:22:18 2023
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\PP011723\
 Data File : PP054625.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 20:04
 Operator : YP\AJ
 Sample : AR1660ICC250
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 00:33:17 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:22:18 2023
 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...	4.331	3.578	47606146	41390608	25.619	25.422
2) SA Decachlor...	10.095	8.603	35701847	37512700	26.780	26.614
Target Compounds						
3) L1 AR-1016-1	5.505	4.666	17389402	13654296	269.891	271.220
4) L1 AR-1016-2	5.527	4.684	25084393	18692706	266.190	261.141
5) L1 AR-1016-3	5.590	4.862	16108527	10423858	271.148	265.986
6) L1 AR-1016-4	5.688	4.904	12776498	9134435	267.259	271.353
7) L1 AR-1016-5	5.984	5.118	13166691	11787174	272.707	270.671
31) L7 AR-1260-1	7.117	6.156	18480008	21969881	273.901	266.525
32) L7 AR-1260-2	7.376	6.344	21341051	24334821	273.807	265.330
33) L7 AR-1260-3	7.738	6.499	16150015	23690174	269.999	263.374
34) L7 AR-1260-4	7.963	6.972	18849730	19739820	269.737	262.402
35) L7 AR-1260-5	8.281	7.215	34121311	40932235	263.550	256.807

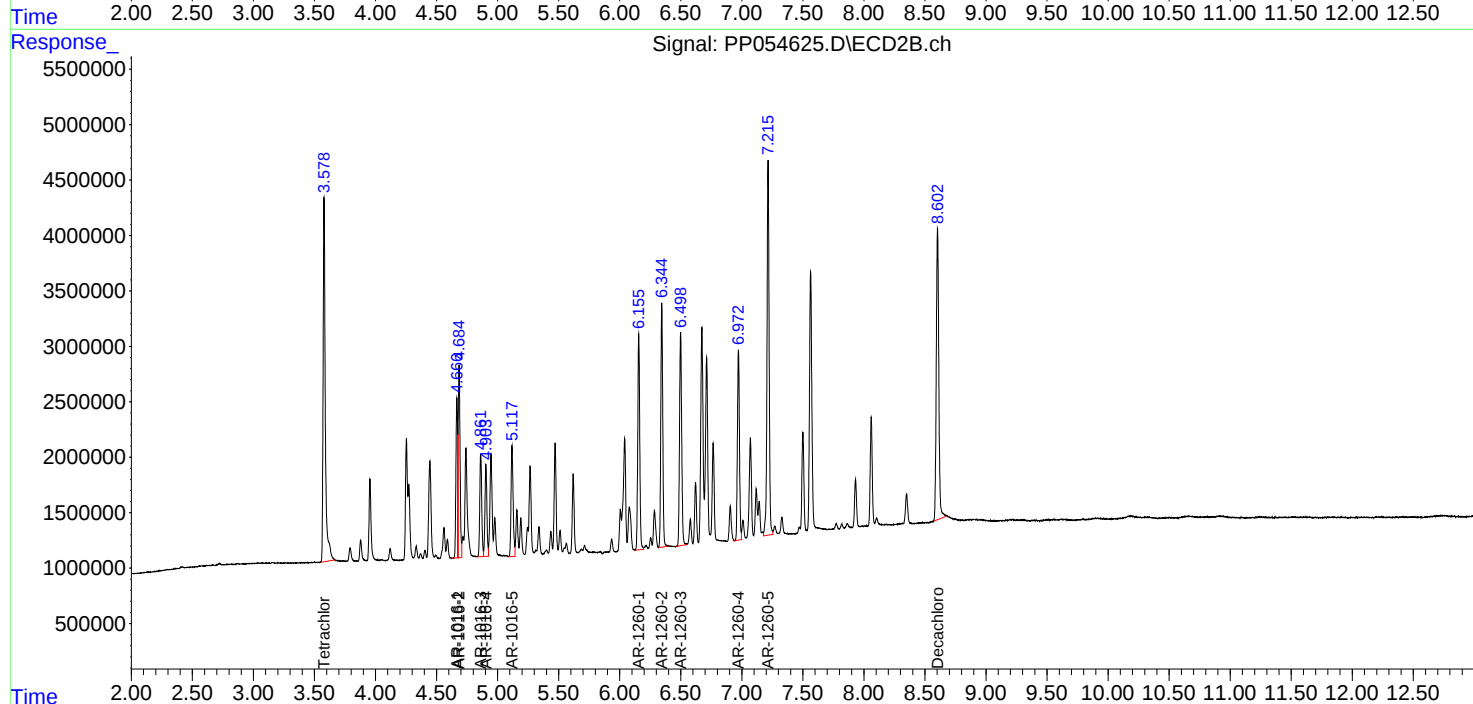
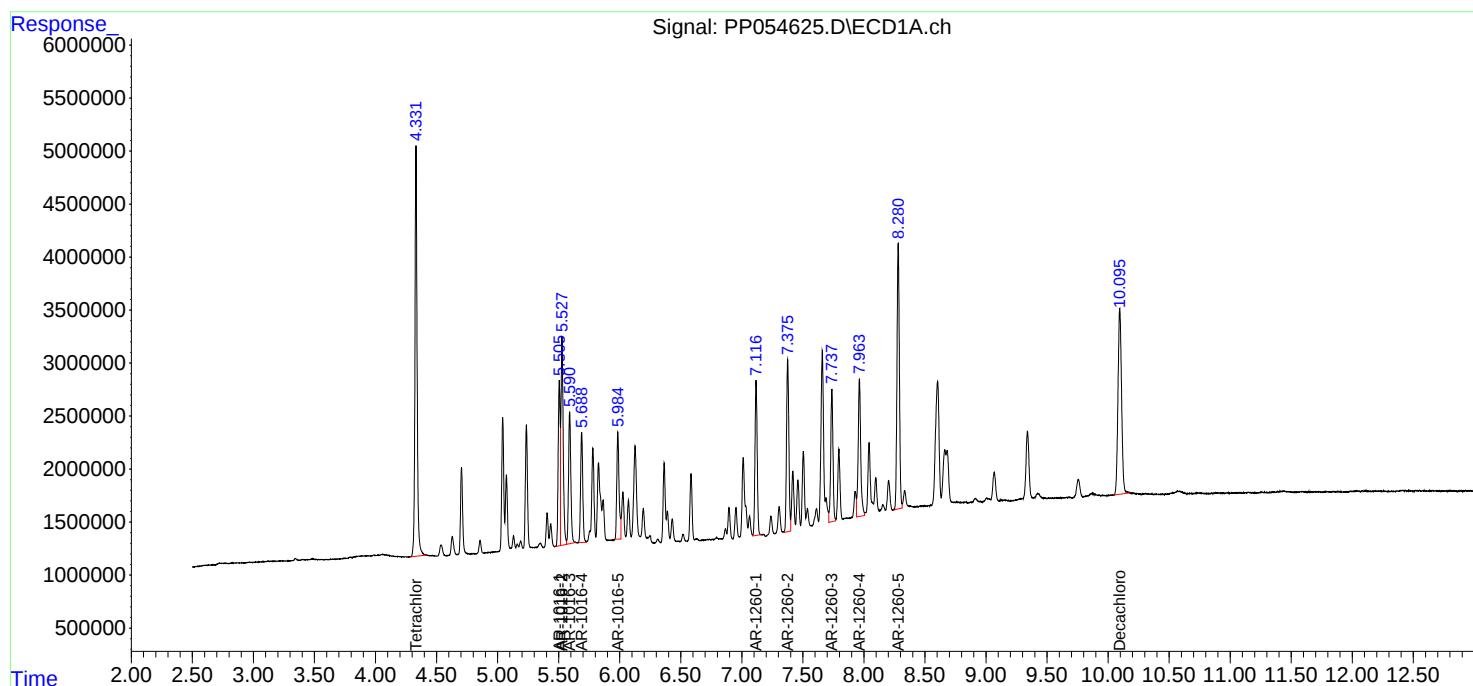
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 20:04
Operator : YP\AJ
Sample : AR1660ICC250
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 00:33:17 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:22:18 2023
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\PP011723\
 Data File : PP054626.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 20:20
 Operator : YP\AJ
 Sample : AR1660ICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 00:39:43 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:22:18 2023
 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...	4.331	3.578	8739857	7455251	4.760	4.657
2)	SA Decachlor...	10.098	8.603	6893488	7611228	5.136	5.315
Target Compounds							
3)	L1 AR-1016-1	5.505	4.666	3304348	2523606	51.023	50.102
4)	L1 AR-1016-2	5.527	4.685	4777010	3531147	50.552	49.463
5)	L1 AR-1016-3	5.589	4.861	3027421	1895480	50.764	48.685
6)	L1 AR-1016-4	5.689	4.904	2319198	1758543	48.803	51.776
7)	L1 AR-1016-5	5.984	5.117	2446889	2243886	50.542	51.214
31)	L7 AR-1260-1	7.117	6.155	3677557	4268872	53.542	51.420
32)	L7 AR-1260-2	7.376	6.344	4404160	4668217	55.073	50.717
33)	L7 AR-1260-3	7.737	6.498	3096808	4479928	51.408	49.844
34)	L7 AR-1260-4	7.962	6.972	3515800	3771116	50.001m	50.104
35)	L7 AR-1260-5	8.281	7.215	6676196	7848256	51.245	49.390

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054626.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 20:20
Operator : YP\AJ
Sample : AR1660ICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

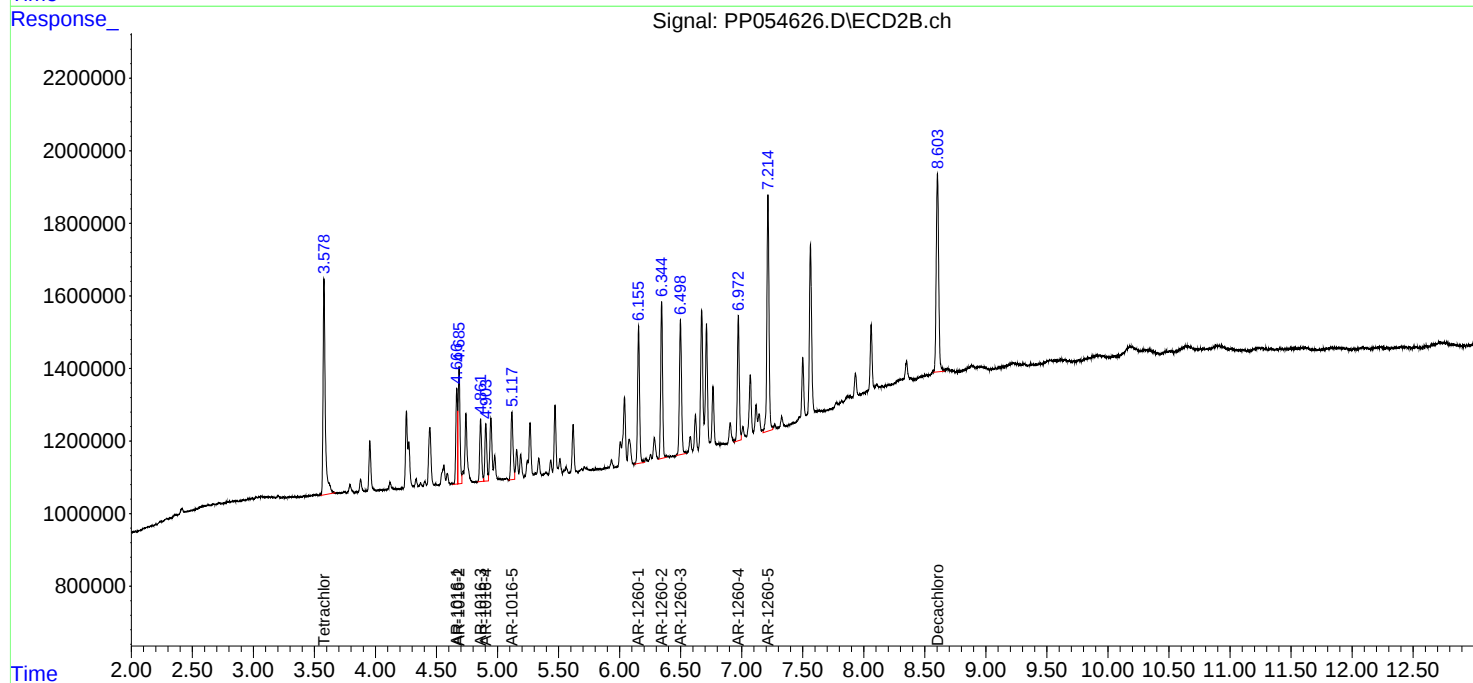
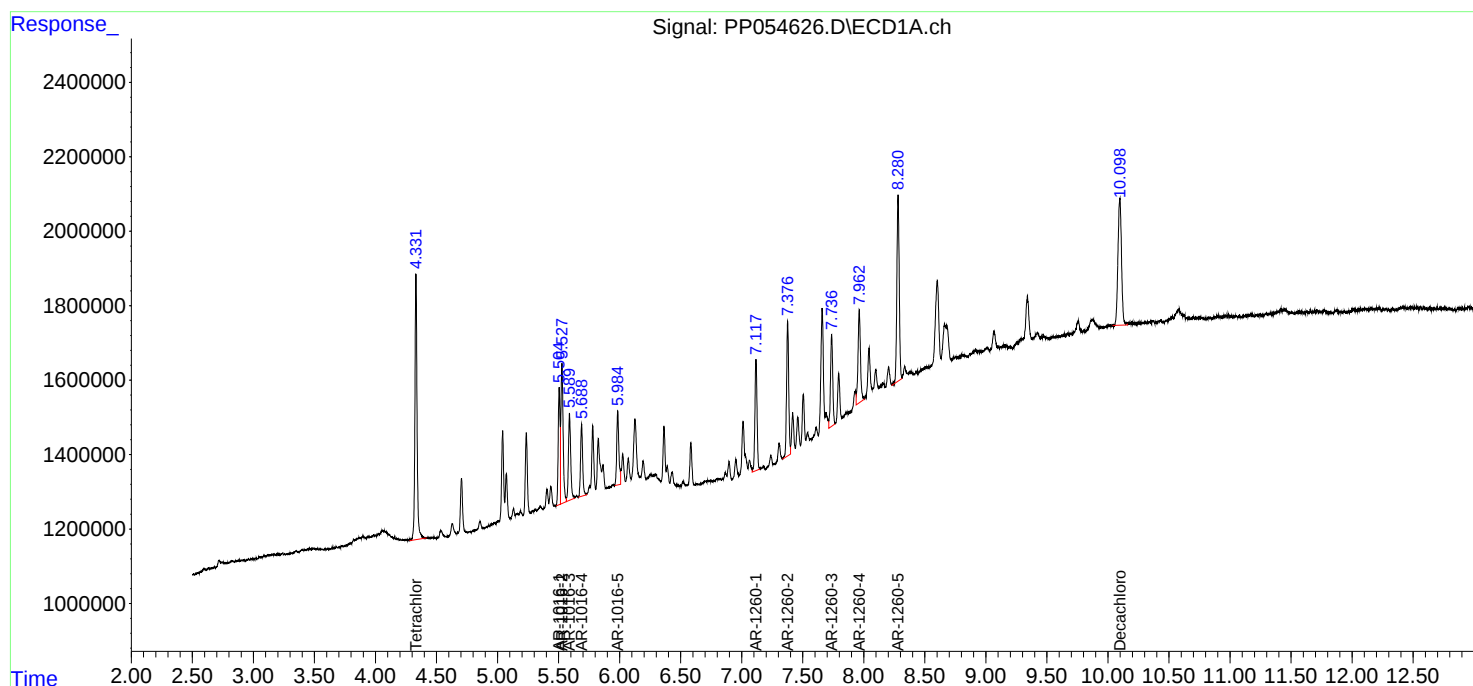
Instrument :
ECD_P
ClientSampleId :
AR1660ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 00:39:43 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:22:18 2023
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\PP011723\
 Data File : PP054627.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 20:37
 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: Jan 18 03:12:35 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 03:12:21 2023
 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...	4.332	3.578	93278265	81878870	50.000	50.000
2) SA Decachlor...	10.097	8.602	66345583	69076277	50.000	50.000
Target Compounds						
8) L2 AR-1221-1	4.541	3.793	11442650	9893265	500.000	500.000
9) L2 AR-1221-2	4.628	3.878	8799823	7511122	500.000	500.000
10) L2 AR-1221-3	4.704	3.954	26576300	22979828	500.000	500.000

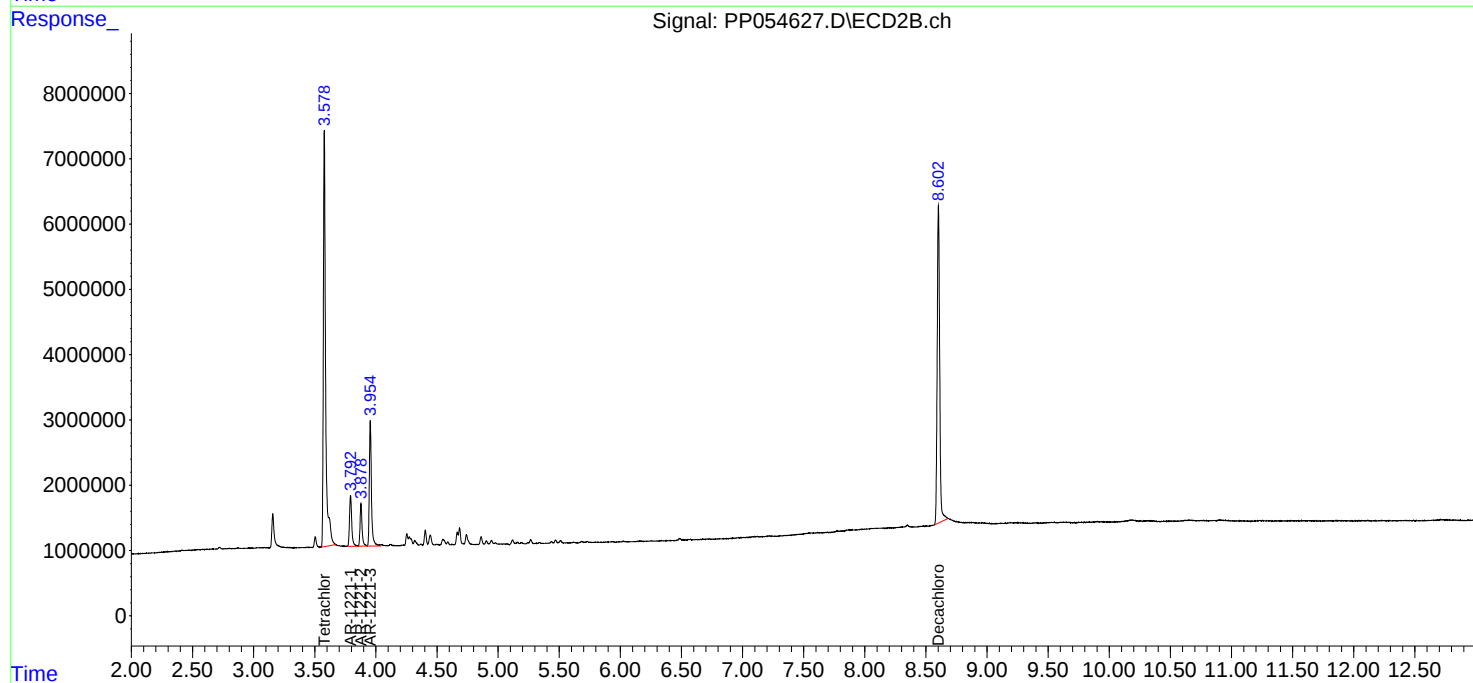
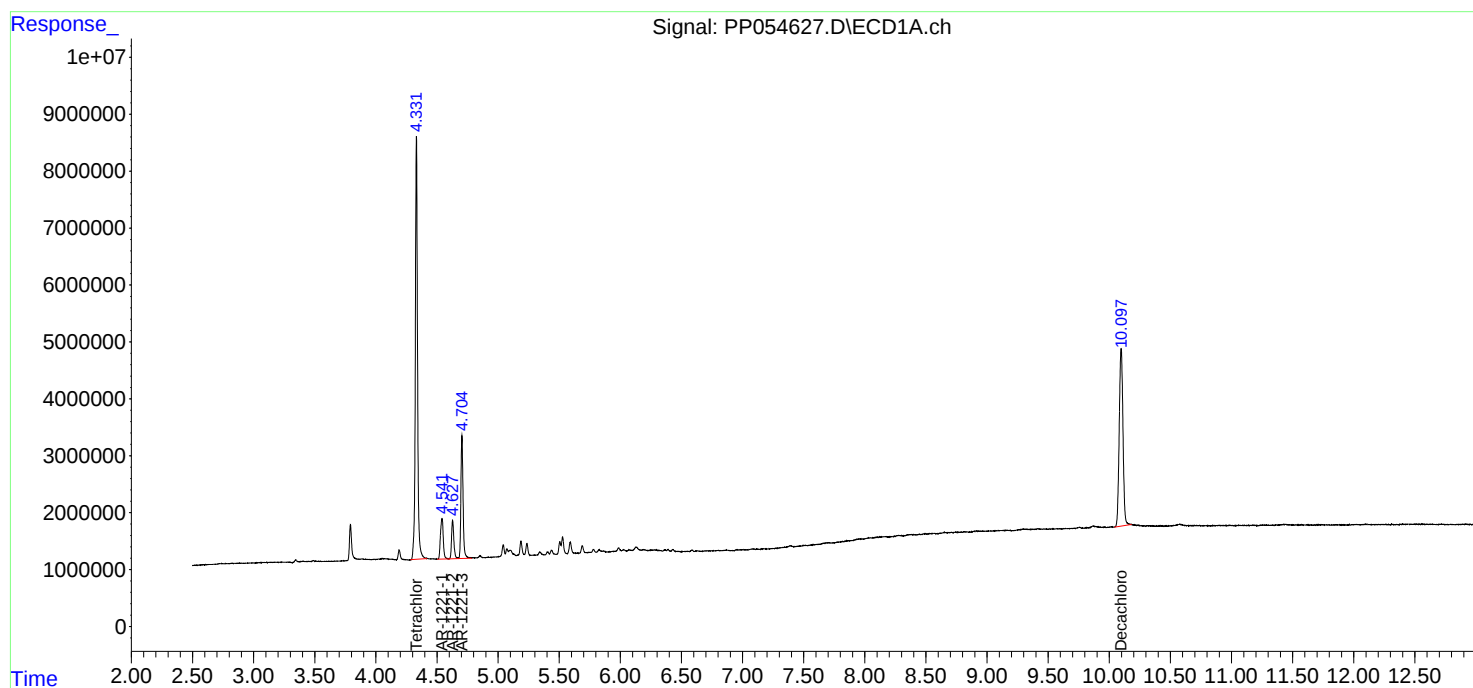
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054627.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 20:37
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: Jan 18 03:12:35 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 03:12:21 2023
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\PP011723\
 Data File : PP054628.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 20:53
 Operator : YP\AJ
 Sample : AR1232ICC500
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1232ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 03:15:10 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 03:12:21 2023
 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...	4.331	3.578	92639963	81387546	50.000	50.000
2) SA Decachlor...	10.096	8.603	66412933	69975945	50.000	50.000
Target Compounds						
11) L3 AR-1232-1	4.704	3.954	22223038	19289054	500.000	500.000
12) L3 AR-1232-2	5.235	4.685	12053428	16344981	500.000	500.000
13) L3 AR-1232-3	5.527	4.862	21549870	8598437	500.000	500.000
14) L3 AR-1232-4	5.688	4.945	10731416	8661639	500.000	500.000
15) L3 AR-1232-5	5.780	5.118	8602800	9462835	500.000	500.000

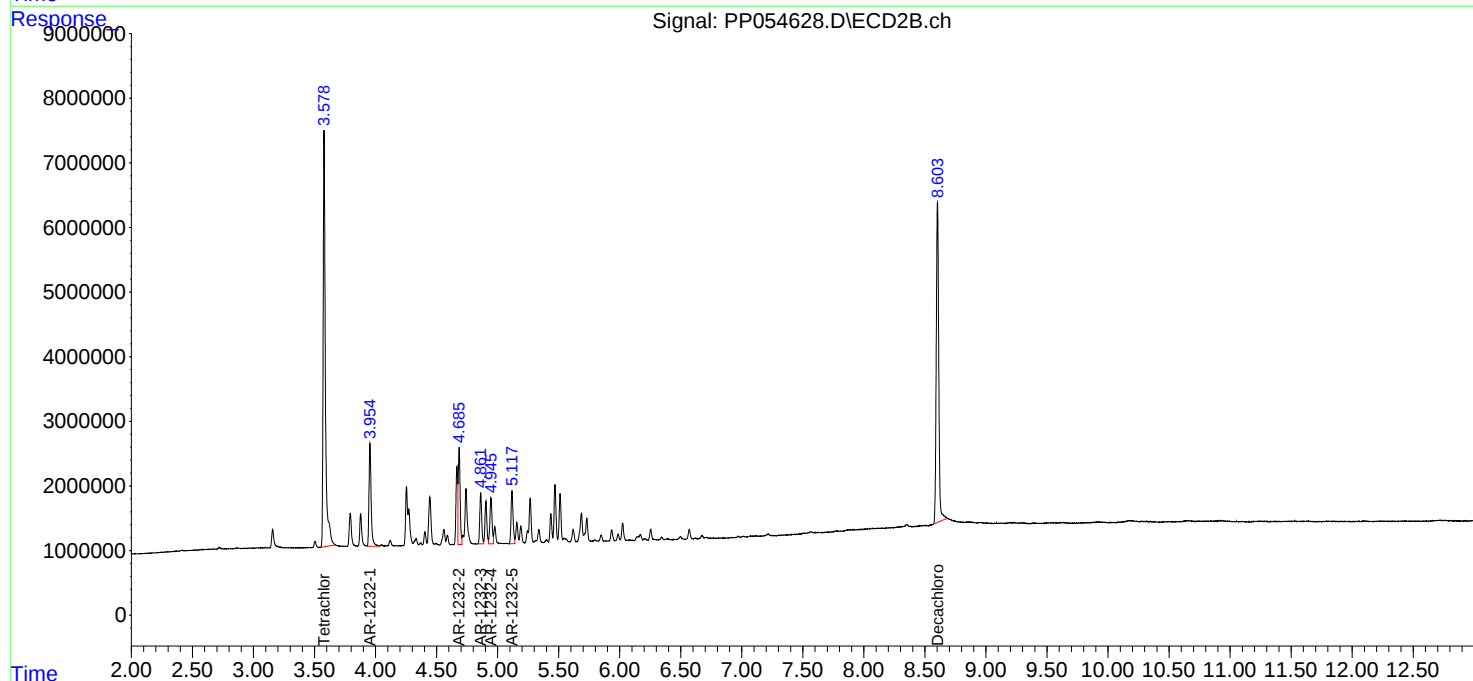
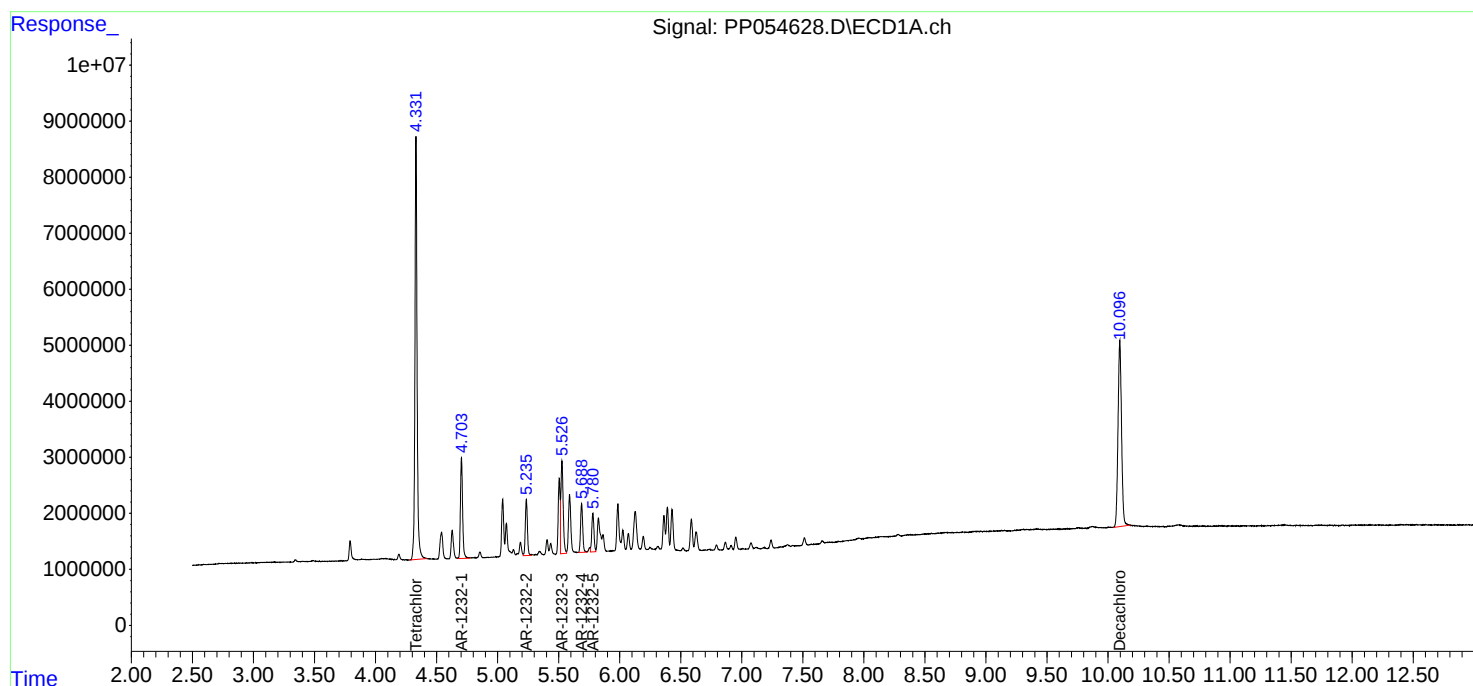
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054628.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 20:53
Operator : YP\AJ
Sample : AR1232ICC500
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1232ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 03:15:10 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 03:12:21 2023
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\PP011723\
 Data File : PP054629.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 21:10
 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: Jan 18 00:50:28 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:47:31 2023
 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...	4.332	3.579	181.1E6	159.9E6	98.630	98.959
2) SA Decachlor...	10.096	8.603	125.1E6	131.6E6	96.397	96.998
Target Compounds						
16) L4 AR-1242-1	5.505	4.667	50809135	39381881	962.118	954.038
17) L4 AR-1242-2	5.528	4.685	73973970	56142526	966.661	966.799
18) L4 AR-1242-3	5.589	4.862	46155227	30728980	959.662	965.417
19) L4 AR-1242-4	5.688	4.946	37578215	32535838	965.346	952.113
20) L4 AR-1242-5	6.429	5.470	29832252	36257488	865.774	970.784

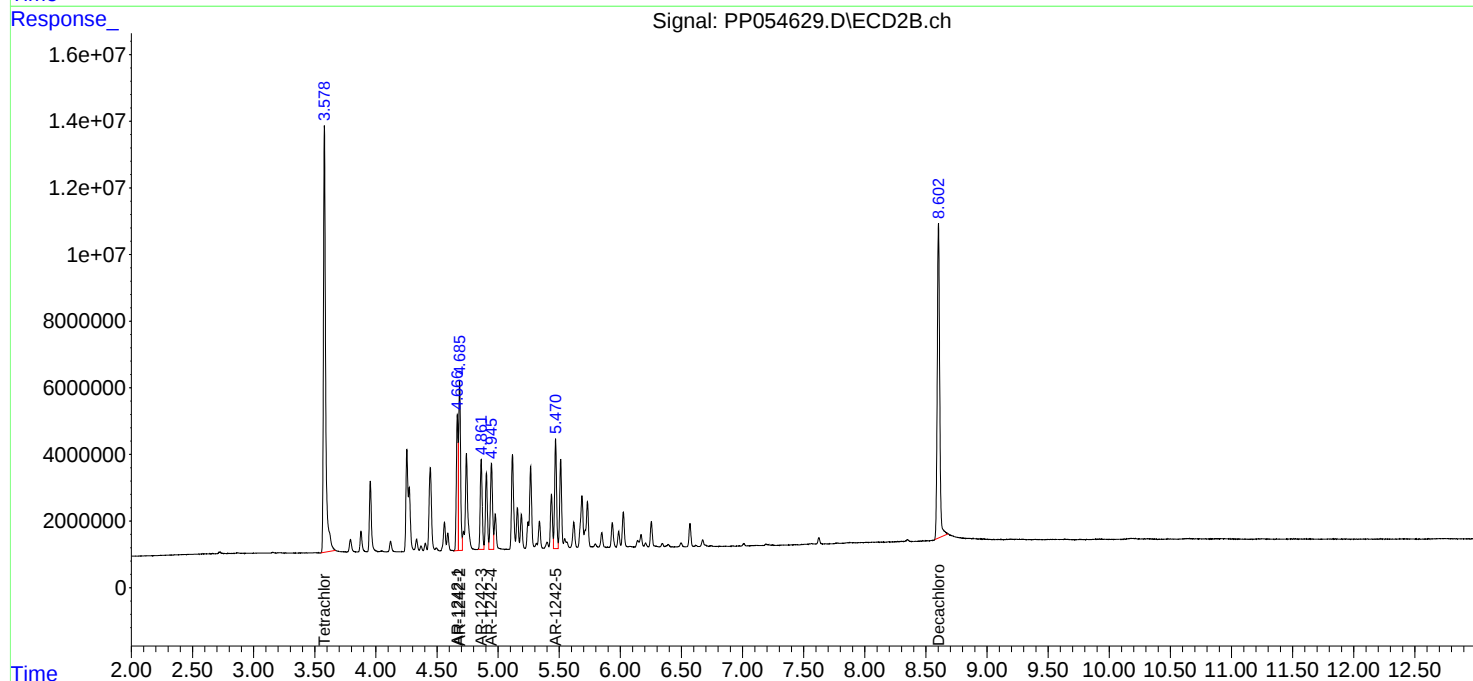
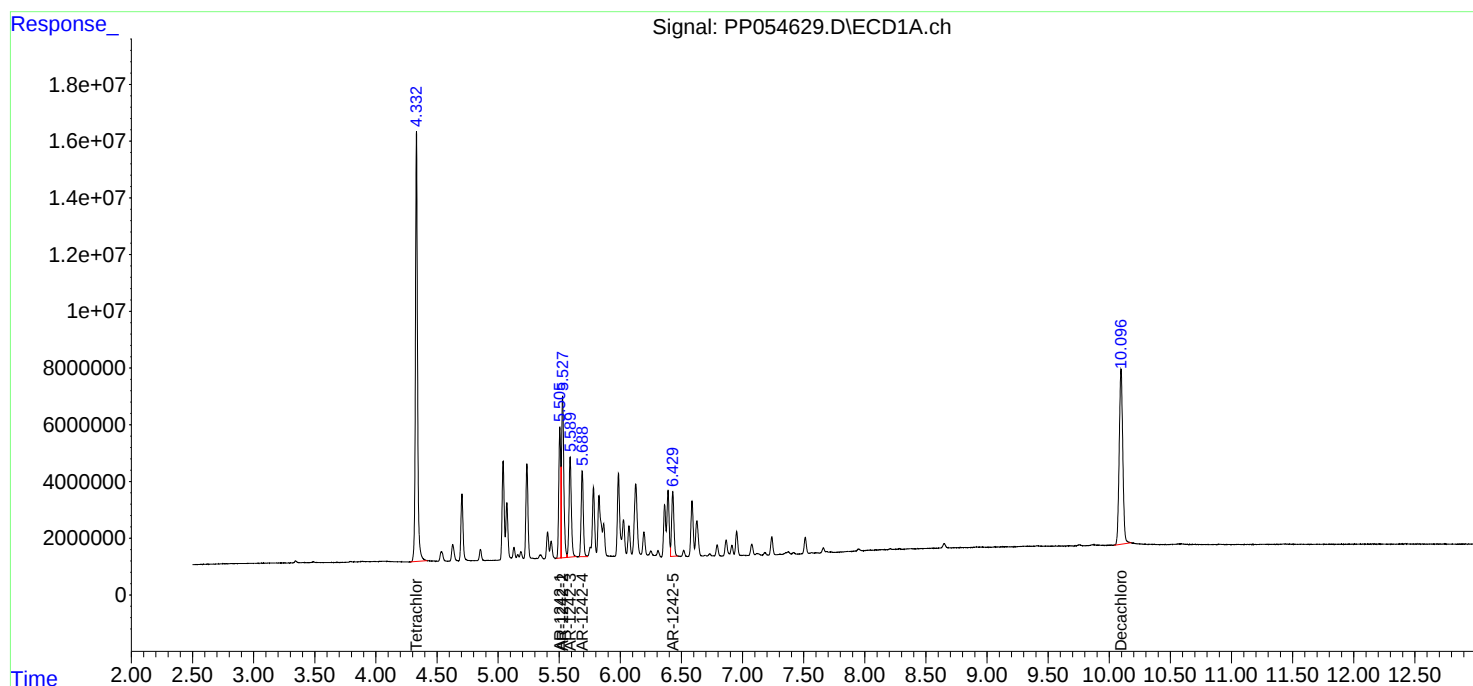
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054629.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 21:10
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: Jan 18 00:50:28 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:47:31 2023
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\PP011723\
 Data File : PP054630.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 21:26
 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: Jan 18 00:53:14 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:47:31 2023
 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...	4.331	3.578	136.2E6	120.0E6	74.436	74.526
2) SA Decachlor...	10.096	8.602	95549156	100.2E6	74.077	74.252
Target Compounds						
16) L4 AR-1242-1	5.505	4.666	39015897	30299918	742.498	739.274
17) L4 AR-1242-2	5.527	4.684	56233866	42775653	739.825	741.024
18) L4 AR-1242-3	5.590	4.861	35300766	23396162	739.241	739.960
19) L4 AR-1242-4	5.688	4.946	28903108	24943985	744.978	736.512
20) L4 AR-1242-5	6.429	5.470	24510829	27391261	723.775	738.846

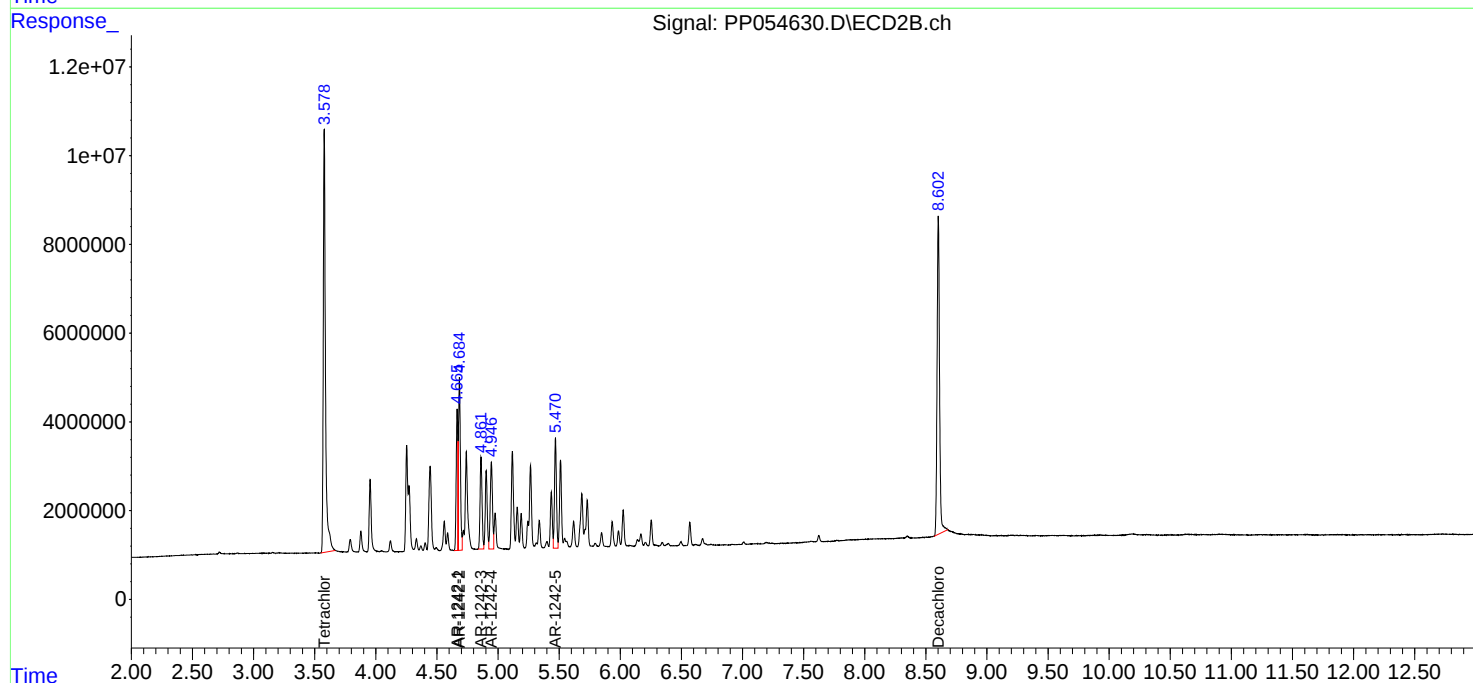
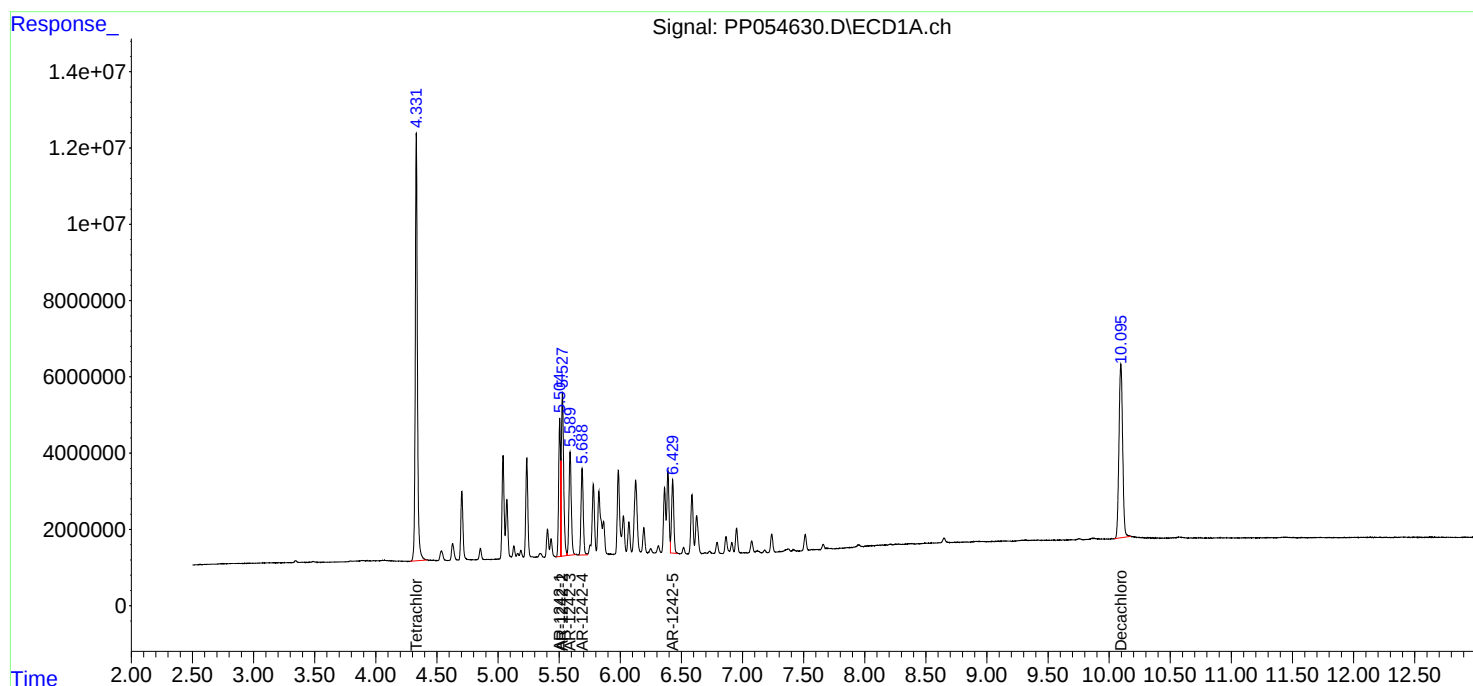
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054630.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 21:26
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: Jan 18 00:53:14 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:47:31 2023
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\PP011723\
 Data File : PP054631.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 21:43
 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: Jan 18 00:47:48 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:47:31 2023
 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...	4.332	3.579	93086486	81609761	50.000	50.000
2) SA Decachlor...	10.096	8.603	67227540	69871311	50.000	50.000
Target Compounds						
16) L4 AR-1242-1	5.505	4.666	27405093	21588217	500.000	500.000
17) L4 AR-1242-2	5.528	4.685	39538287	29999255	500.000	500.000
18) L4 AR-1242-3	5.590	4.862	25017657	16465257	500.000	500.000
19) L4 AR-1242-4	5.688	4.946	20138086	17904329	500.000	500.000
20) L4 AR-1242-5	6.429	5.470	19541179	19219931	500.000	500.000

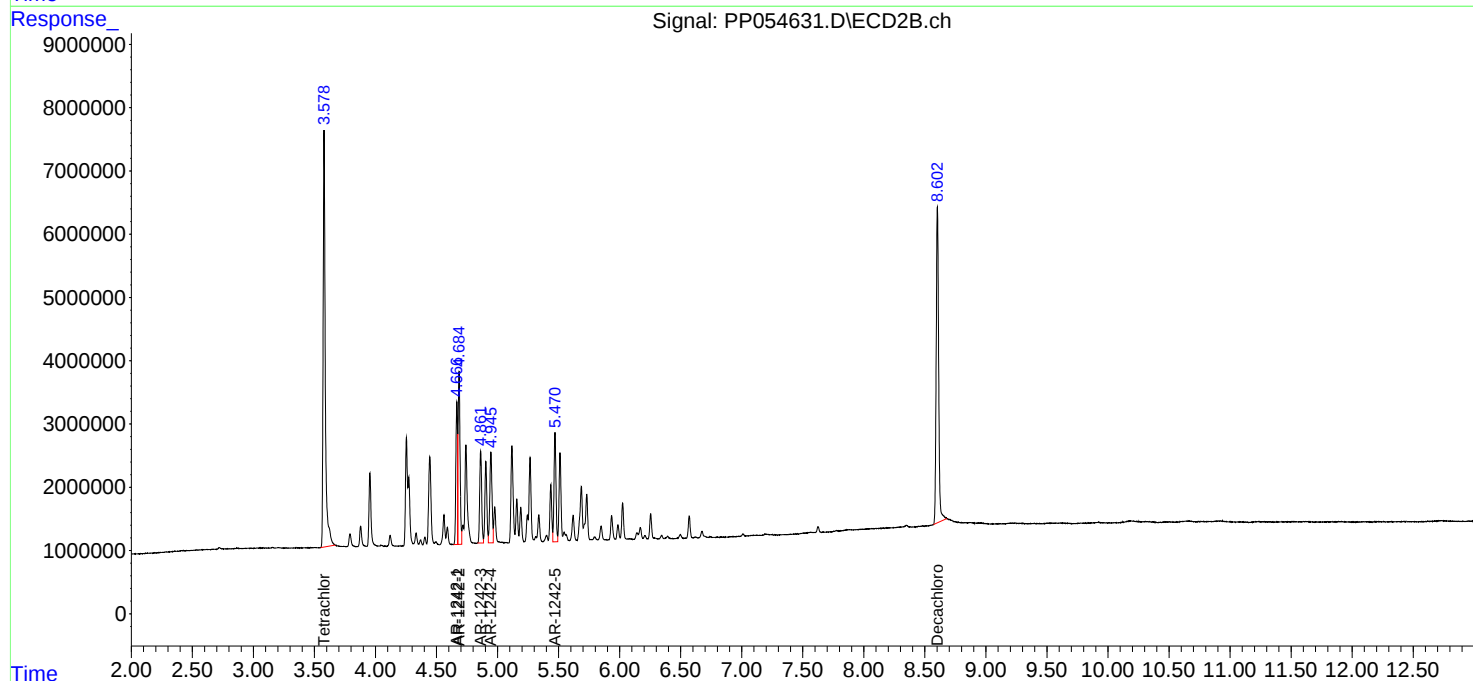
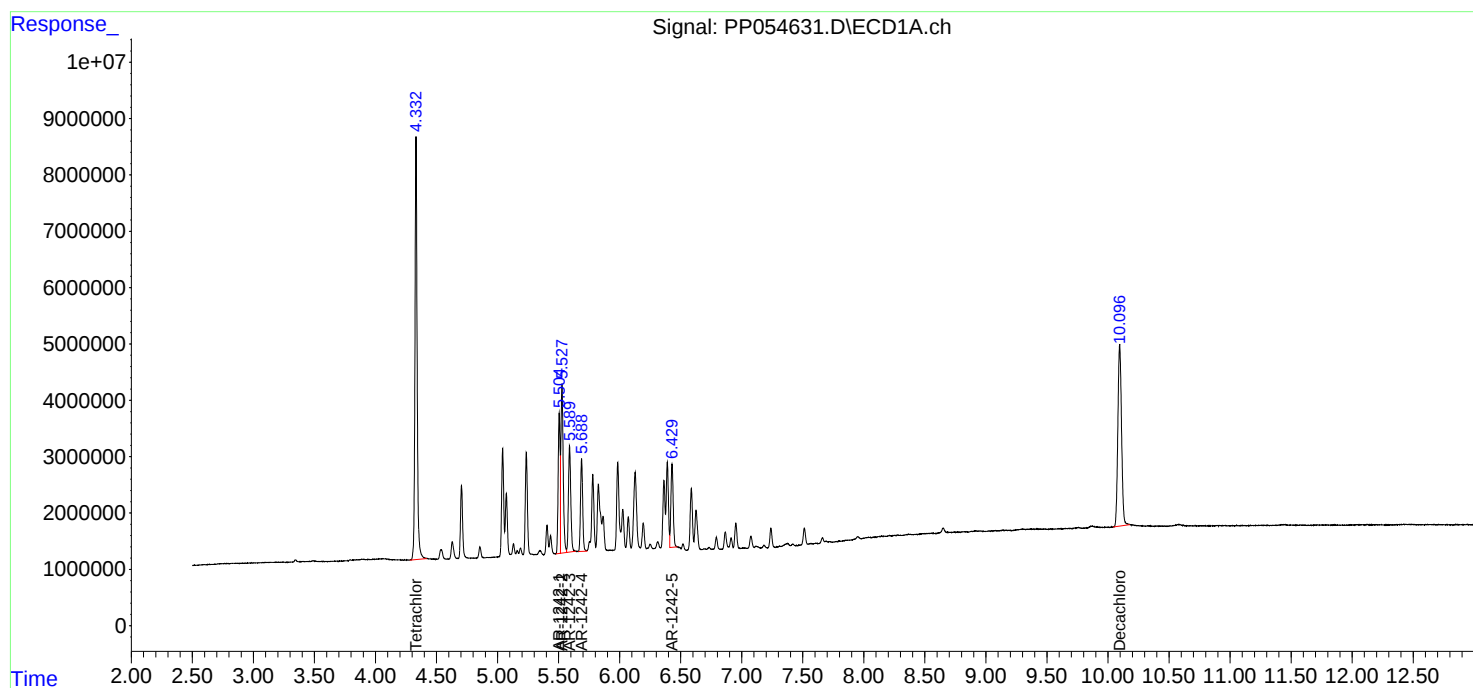
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 21:43
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: Jan 18 00:47:48 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:47:31 2023
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\PP011723\
 Data File : PP054632.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 21:59
 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: Jan 18 00:56:29 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:47:31 2023
 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...	4.332	3.578	47092502	41235382	25.549	25.453
2) SA Decachlor...	10.095	8.603	35423492	36870238	26.803	26.695
Target Compounds						
16) L4 AR-1242-1	5.505	4.666	14457751	11278575	268.393	268.422
17) L4 AR-1242-2	5.527	4.685	20863382	15768647	267.924	266.983
18) L4 AR-1242-3	5.590	4.861	13297702	8580971	270.761	265.709
19) L4 AR-1242-4	5.689	4.946	10711320	9413619	269.066	270.394
20) L4 AR-1242-5	6.430	5.470	11328004	10213216	308.439	268.642

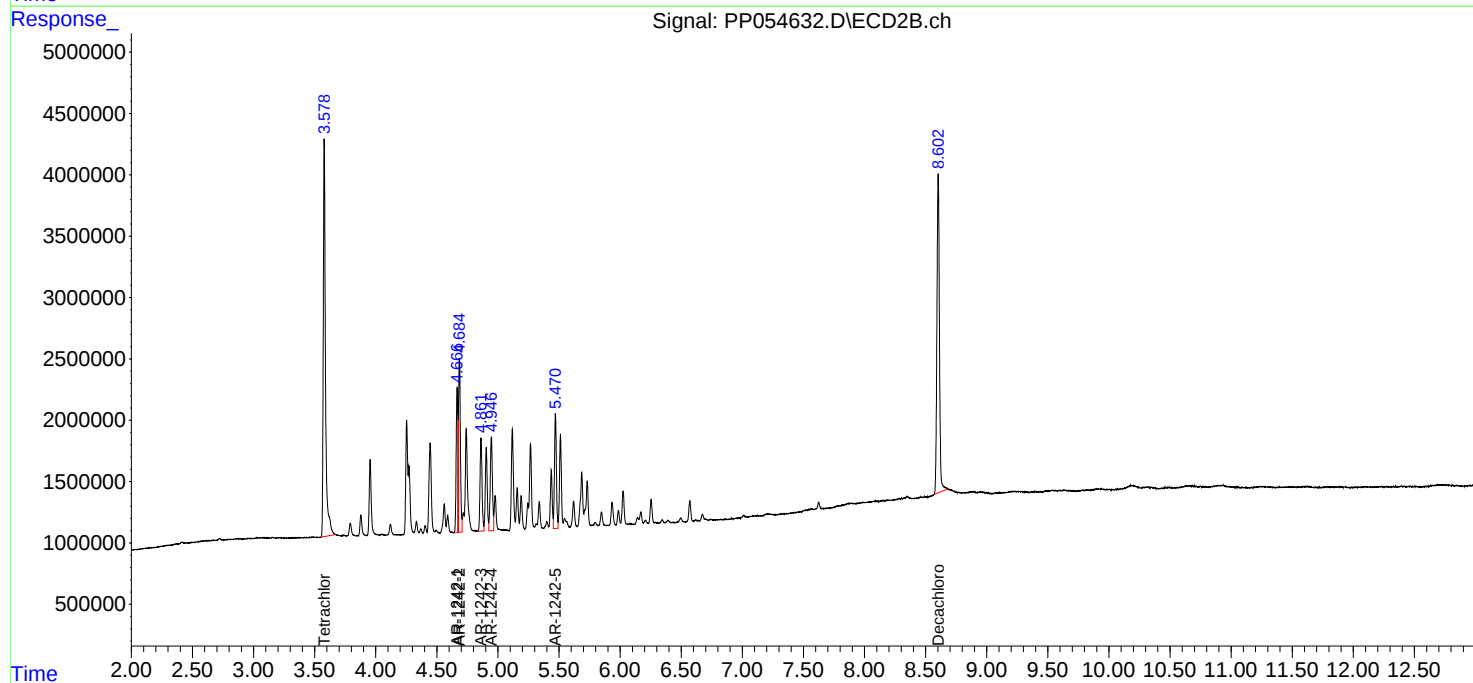
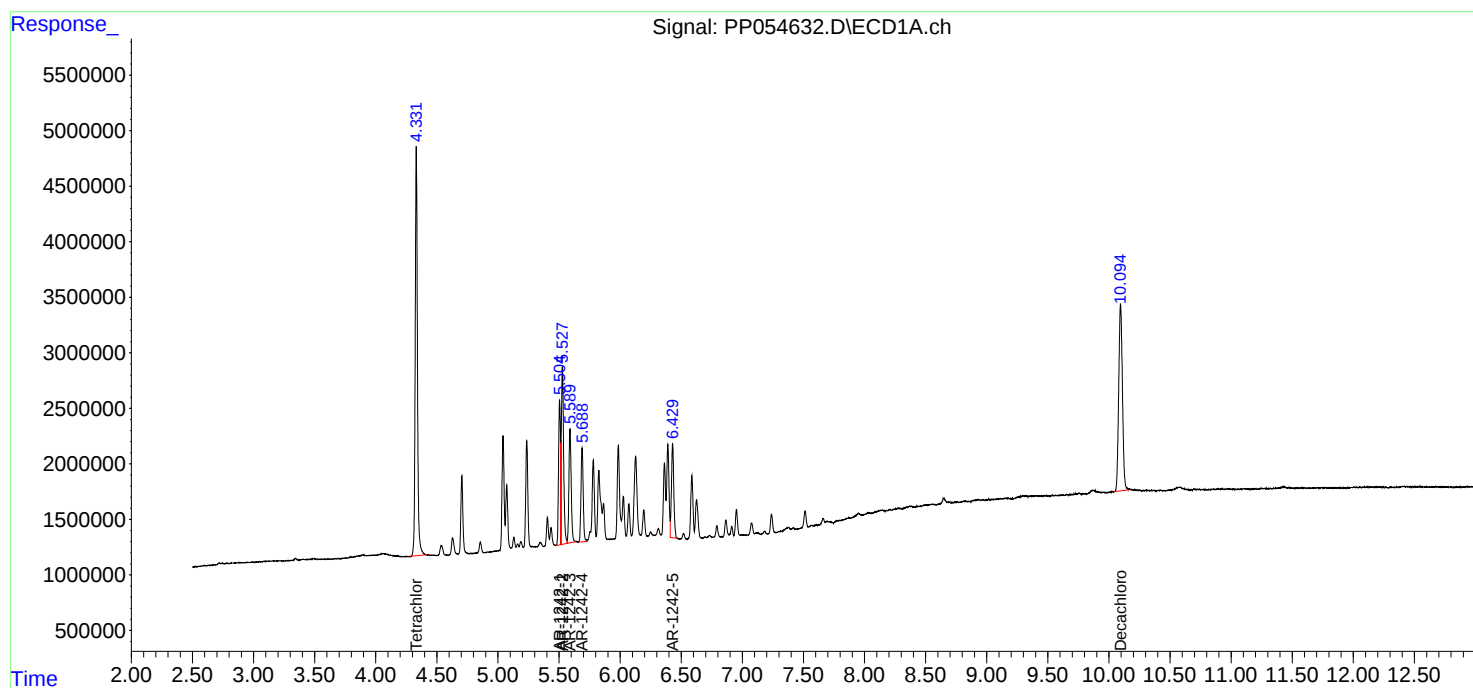
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 21:59
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: Jan 18 00:56:29 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:47:31 2023
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\PP011723\
 Data File : PP054633.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 22:15
 Operator : YP\AJ
 Sample : AR1242ICC050
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1242ICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:06:37 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 00:57:39 2023
 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...	4.332	3.578	8865440	7517678	4.847	4.708
2) SA Decachlor...	10.095	8.602	6926016	7619496	5.191	5.405
Target Compounds						
16) L4 AR-1242-1	5.505	4.666	2743980	2143849	50.748	50.814
17) L4 AR-1242-2	5.528	4.685	3930757	2866579	50.382	48.821
18) L4 AR-1242-3	5.590	4.862	2458605	1560699	50.049	48.653
19) L4 AR-1242-4	5.688	4.946	1955549	1808797	49.296	51.552
20) L4 AR-1242-5	6.429	5.470	1674648	1899060	45.597	49.952

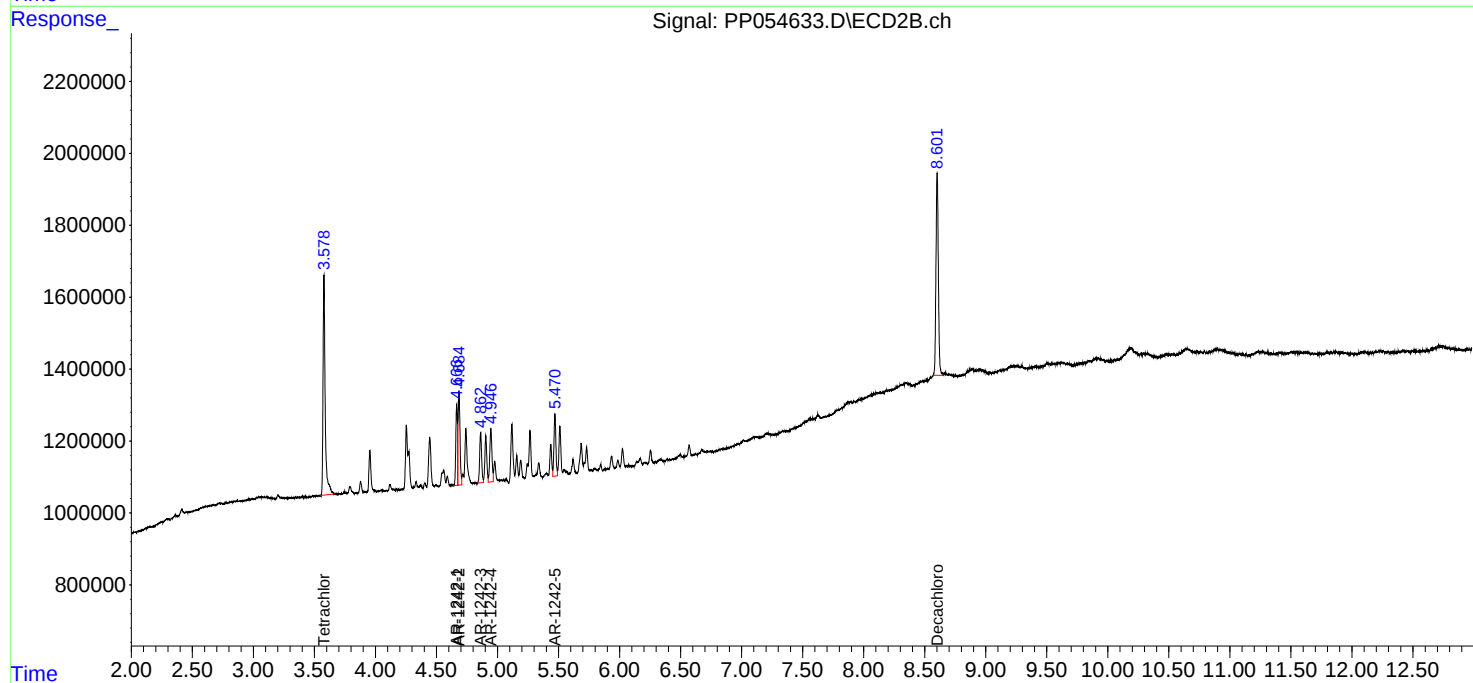
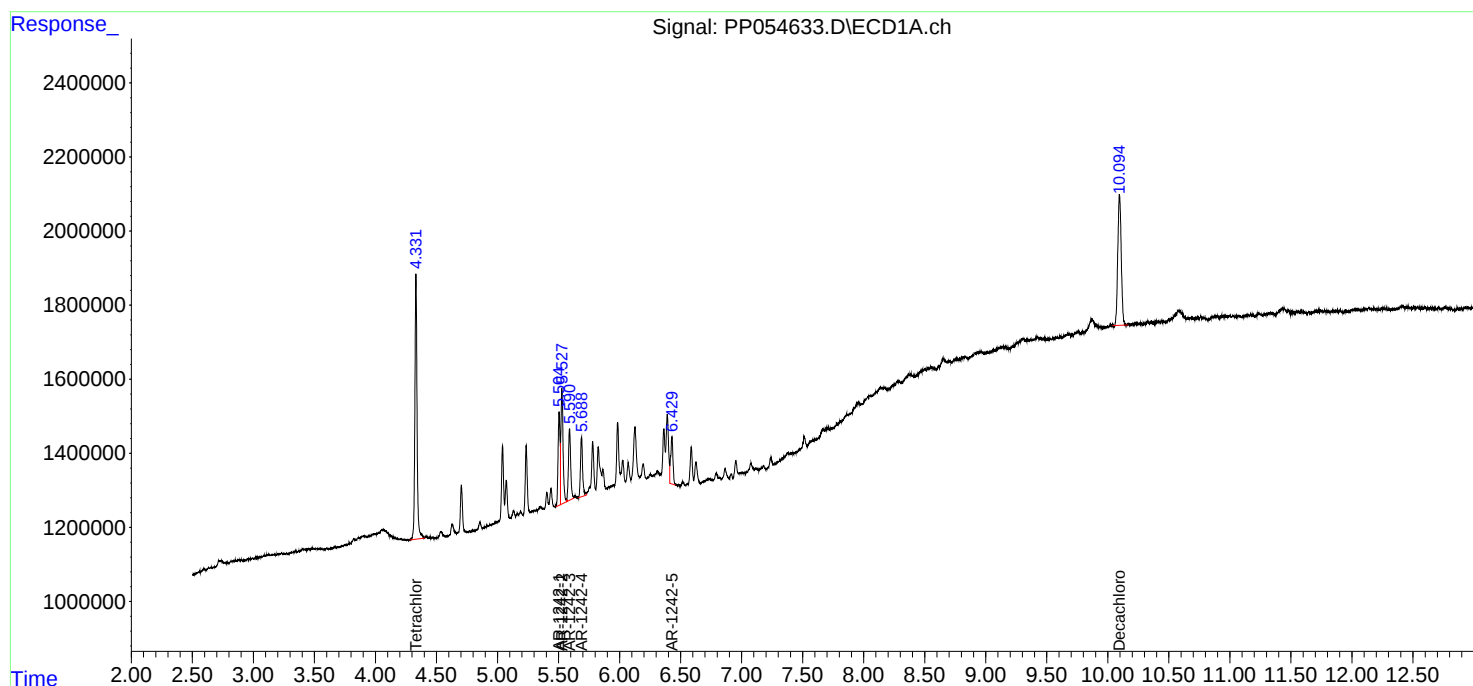
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 22:15
Operator : YP\AJ
Sample : AR1242ICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1242ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:06:37 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 00:57:39 2023
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\PP011723\
 Data File : PP054634.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 22:32
 Operator : YP\AJ
 Sample : AR1248ICC1000
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC1000

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:37:38 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:34:28 2023
 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...	4.331	3.578	177.9E6	156.9E6	98.295	98.563
2) SA Decachlor...	10.096	8.603	124.8E6	131.3E6	96.632	96.811
Target Compounds						
21) L5 AR-1248-1	5.505	4.665	37607776	29968083	959.524	957.474
22) L5 AR-1248-2	5.780	4.903	54475652	42656411	952.048m	932.778
23) L5 AR-1248-3	5.985	4.945	60721667	47442287	952.452	963.821
24) L5 AR-1248-4	6.390	5.117	62162191	58144594	962.936	986.868
25) L5 AR-1248-5	6.429	5.511	60838553	51788530	967.666	1007.215

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054634.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 22:32
Operator : YP\AJ
Sample : AR1248ICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

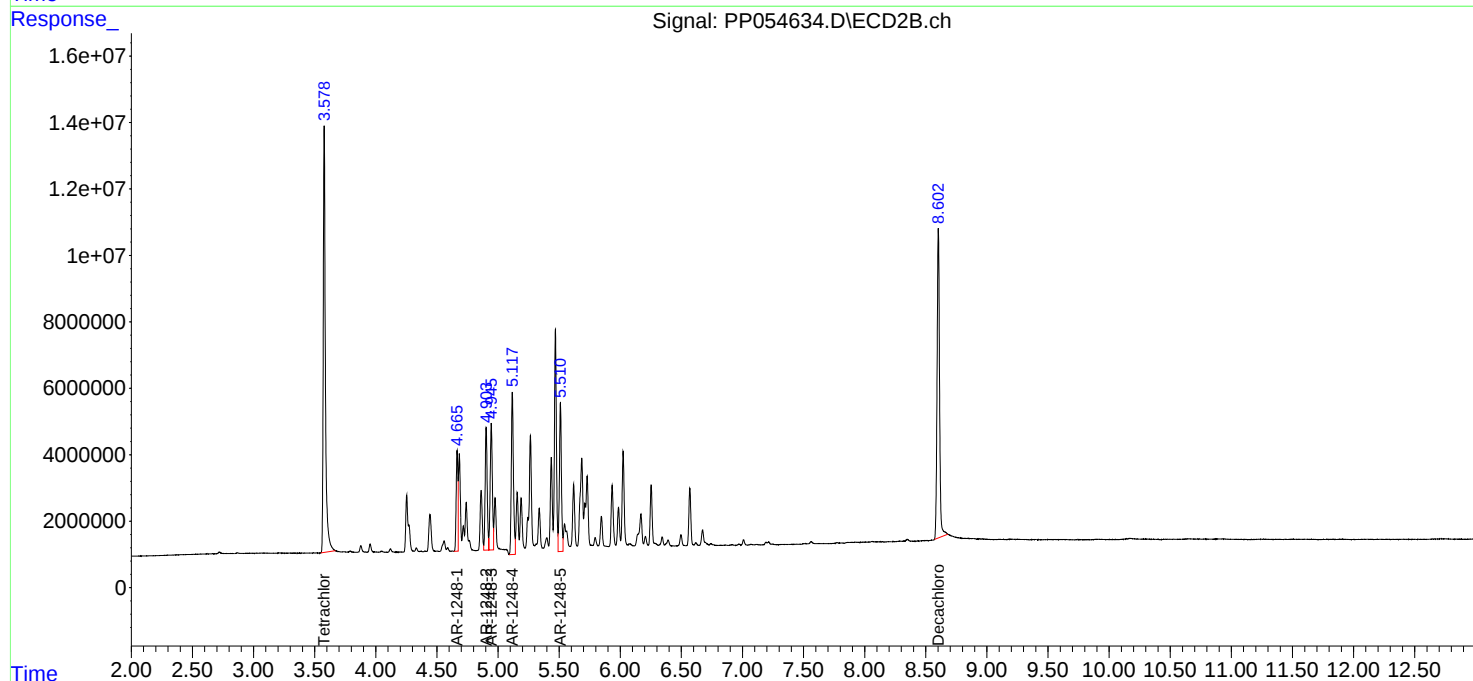
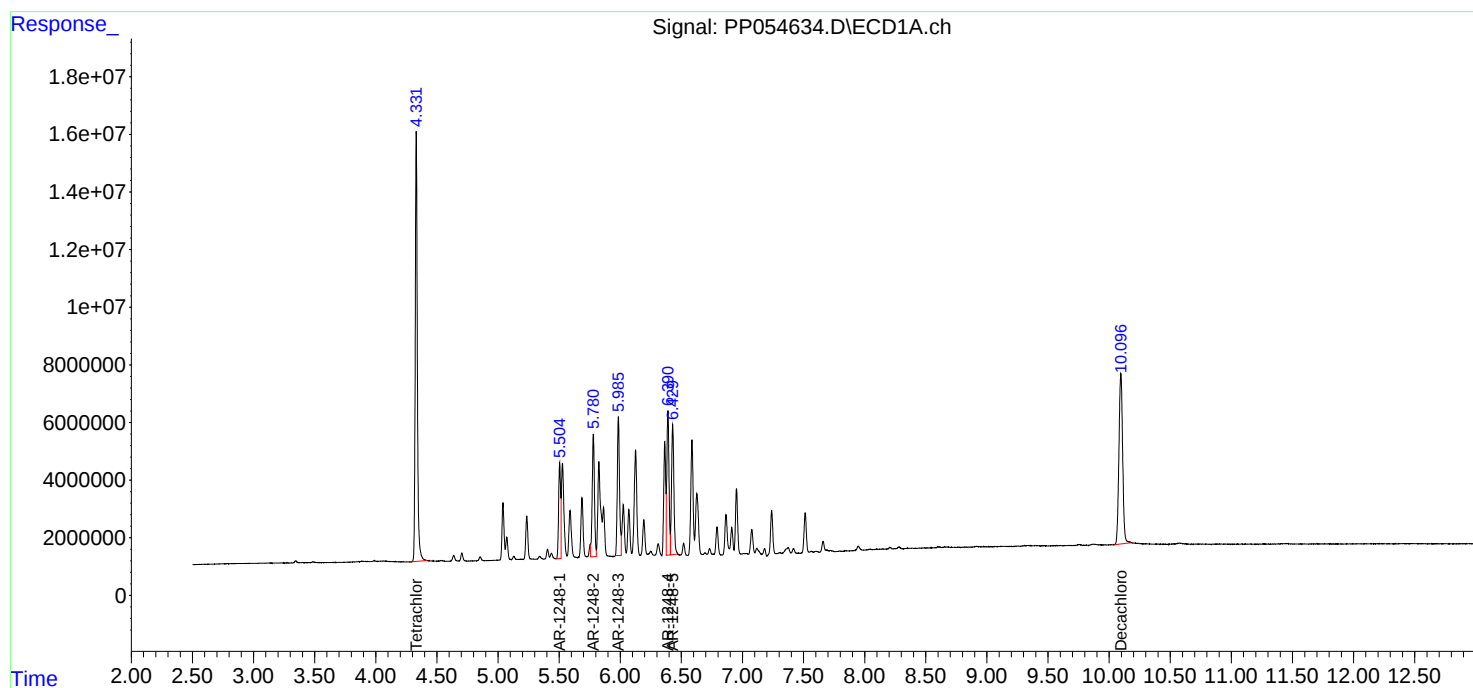
Instrument :
ECD_P
ClientSampleId :
AR1248ICC1000

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:37:38 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:34:28 2023
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\PP011723\
 Data File : PP054635.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 22:48
 Operator : YP\AJ
 Sample : AR1248ICC750
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC750

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:41:12 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:34:28 2023
 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...	4.331	3.578	134.7E6	118.4E6	74.638	74.586
2) SA Decachlor...	10.097	8.603	96104890	99359344	74.620	73.839
Target Compounds						
21) L5 AR-1248-1	5.505	4.666	29254869	22896620	747.602	737.593
22) L5 AR-1248-2	5.779	4.904	42742445	34647703	749.238m	755.083
23) L5 AR-1248-3	5.985	4.945	46775632	36463507	739.055	743.828
24) L5 AR-1248-4	6.391	5.118	47652880	42268687	742.076	727.955
25) L5 AR-1248-5	6.430	5.512	45743920	36305016	734.902	720.139

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054635.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 22:48
Operator : YP\AJ
Sample : AR1248ICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

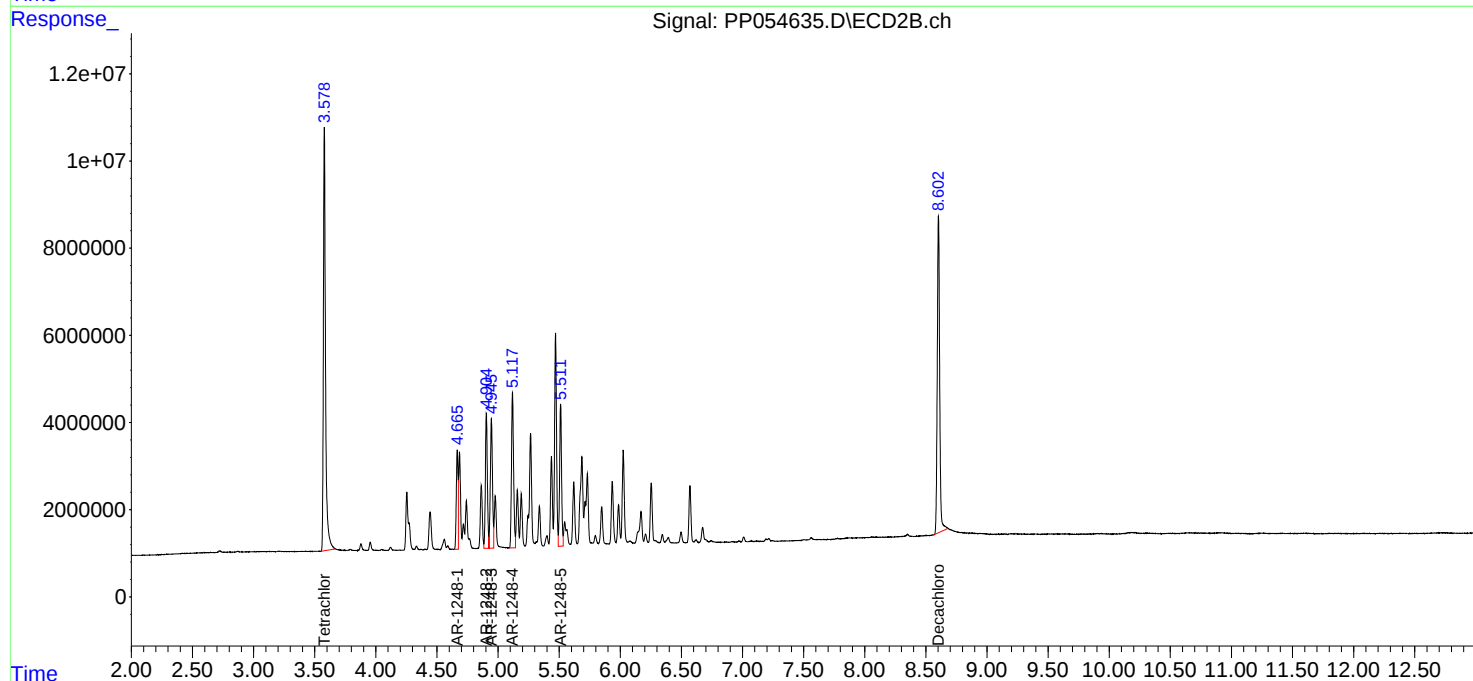
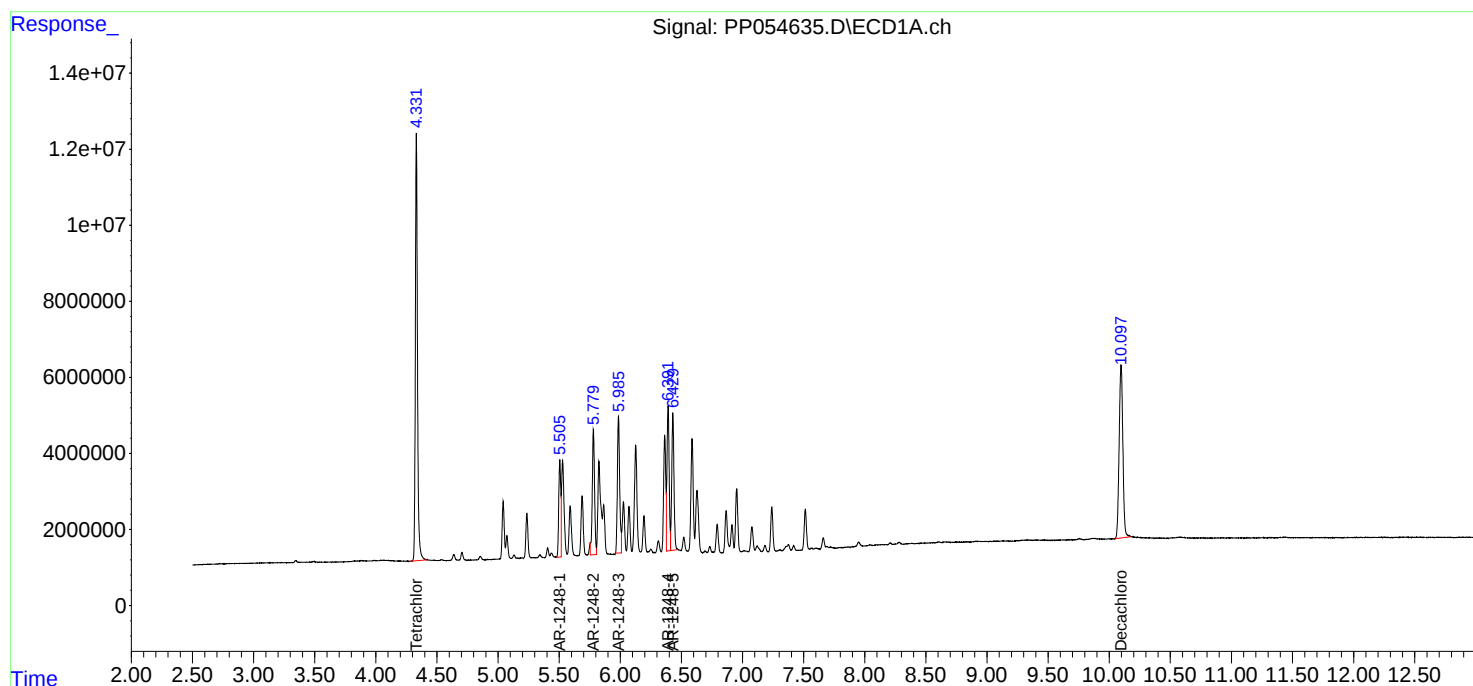
Instrument :
ECD_P
ClientSampleId :
AR1248ICC750

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:41:12 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:34:28 2023
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\PP011723\
 Data File : PP054636.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 23:05
 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: Jan 18 01:34:42 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:34:28 2023
 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...	4.331	3.578	92019596	80731191	50.000	50.000
2) SA Decachlor...	10.096	8.602	66734553	69963449	50.000	50.000
Target Compounds						
21) L5 AR-1248-1	5.504	4.666	20390305	16315055	500.000	500.000
22) L5 AR-1248-2	5.780	4.904	29885318	24402299	500.000	500.000
23) L5 AR-1248-3	5.984	4.945	33392142	25501973	500.000	500.000
24) L5 AR-1248-4	6.391	5.118	33473730	29846011	500.000	500.000
25) L5 AR-1248-5	6.429	5.512	32452176	25523281	500.000	500.000

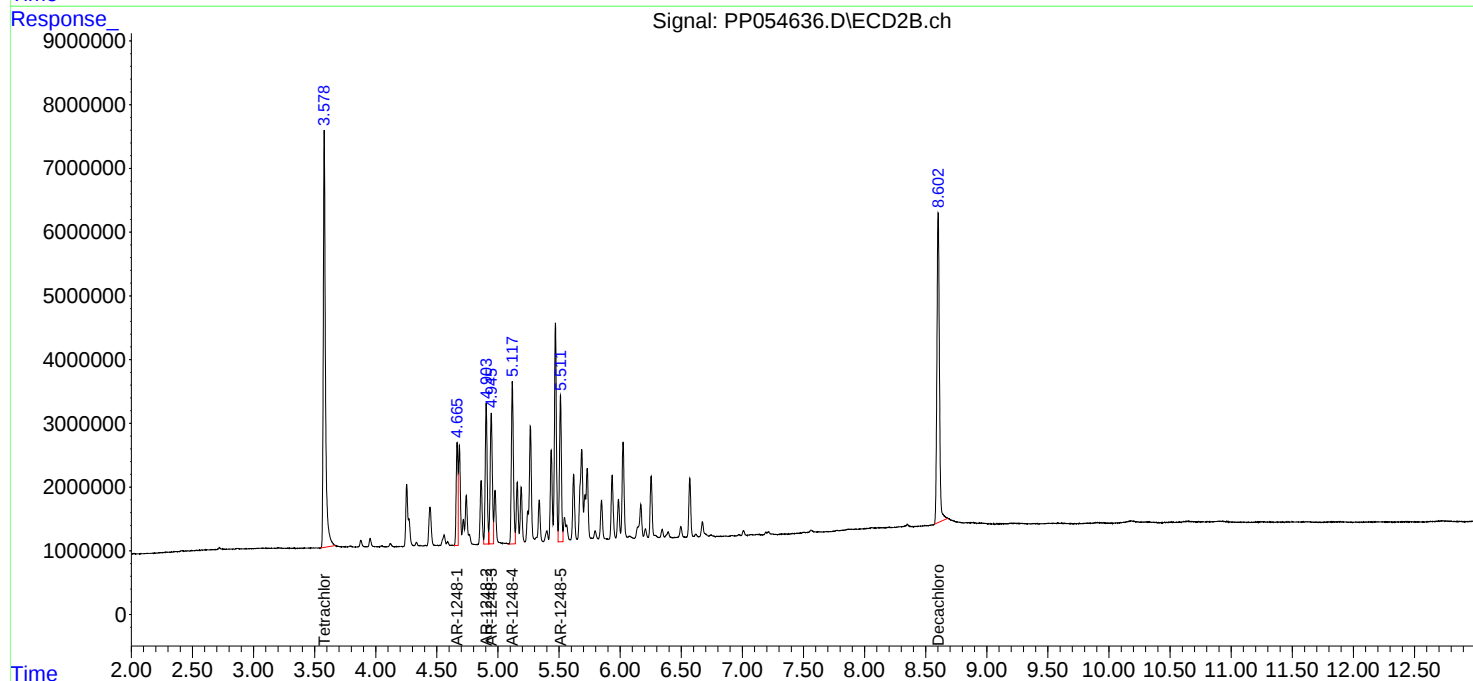
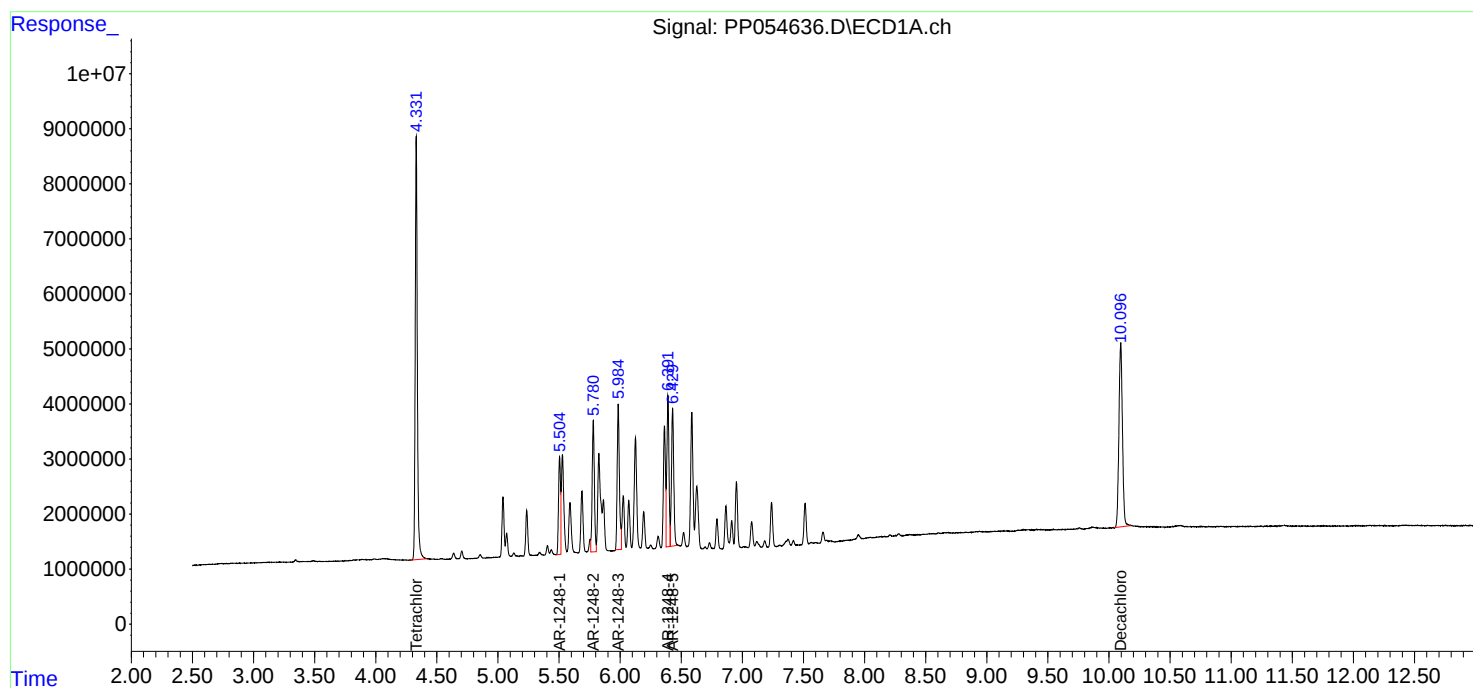
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054636.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 23:05
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: Jan 18 01:34:42 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:34:28 2023
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\PP011723\
 Data File : PP054637.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 23:22
 Operator : YP\AJ
 Sample : AR1248ICC250
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC250

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:44:15 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:34:28 2023
 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...	4.331	3.578	46375922	40470635	25.514	25.370
2) SA Decachlor...	10.095	8.602	35336148	36952810	26.784	26.802
Target Compounds						
21) L5 AR-1248-1	5.505	4.665	10772506	8269749	268.499	262.103
22) L5 AR-1248-2	5.780	4.904	15999863	13033628	271.409m	274.692
23) L5 AR-1248-3	5.985	4.945	17841232	13623746	273.179	270.367
24) L5 AR-1248-4	6.391	5.117	17806434	15660751	269.925	264.497
25) L5 AR-1248-5	6.429	5.511	17219484	13205467	269.462	258.850

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054637.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 23:22
Operator : YP\AJ
Sample : AR1248ICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

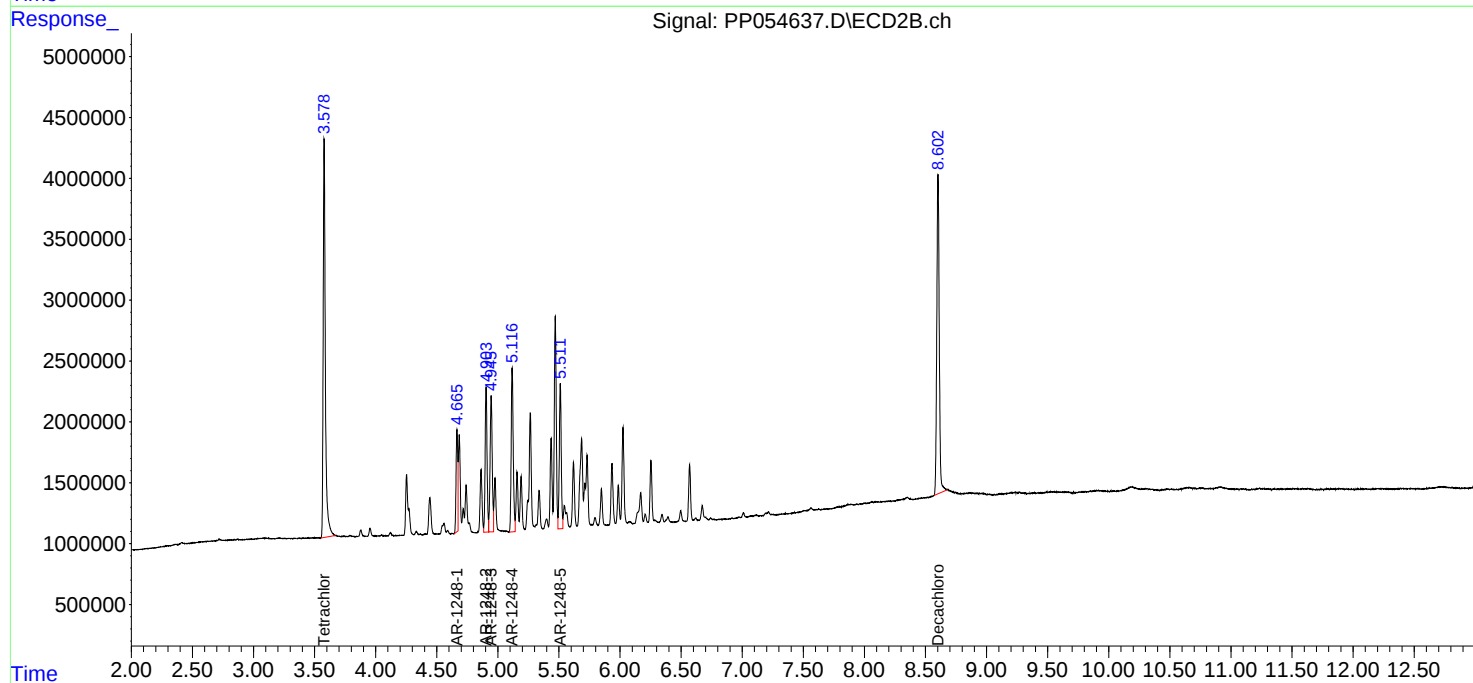
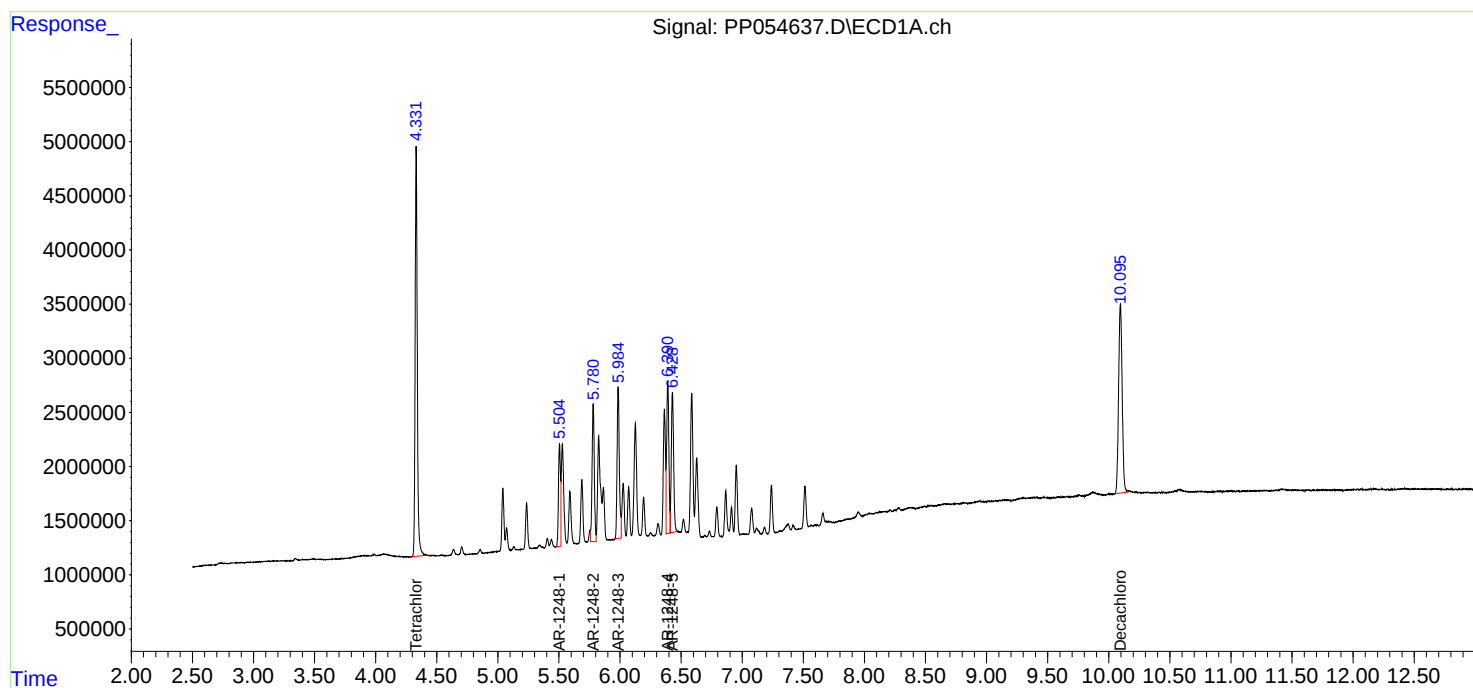
Instrument :
ECD_P
ClientSampleId :
AR1248ICC250

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:44:15 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:34:28 2023
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\PP011723\
 Data File : PP054638.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 23:38
 Operator : YP\AJ
 Sample : AR1248ICC050
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1248ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:47:53 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:34:28 2023
 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...	4.331	3.578	8583401	7352020	4.775	4.682
2) SA Decachlor...	10.095	8.603	6912640	7349189	5.190	5.261
Target Compounds						
21) L5 AR-1248-1	5.504	4.666	1931717	1511980	48.507	48.323
22) L5 AR-1248-2	5.780	4.903	3077067	2513084	52.158m	52.344
23) L5 AR-1248-3	5.984	4.945	3435689	2626453	52.063	51.684
24) L5 AR-1248-4	6.390	5.117	3510944	3020913	52.545	50.813
25) L5 AR-1248-5	6.429	5.511	3473800	2499117	53.428	49.186

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054638.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 23:38
Operator : YP\AJ
Sample : AR1248ICC050
Misc :
ALS Vial : 19 Sample Multiplier: 1

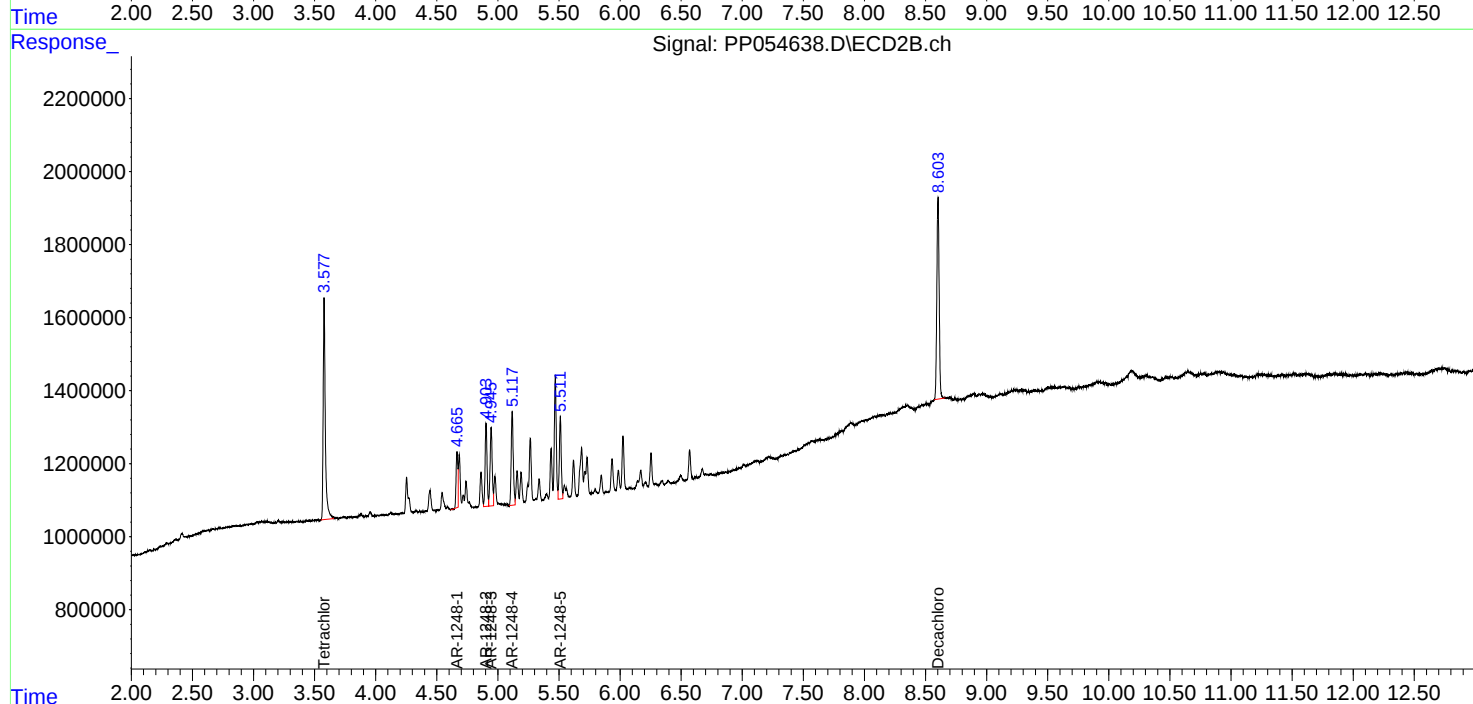
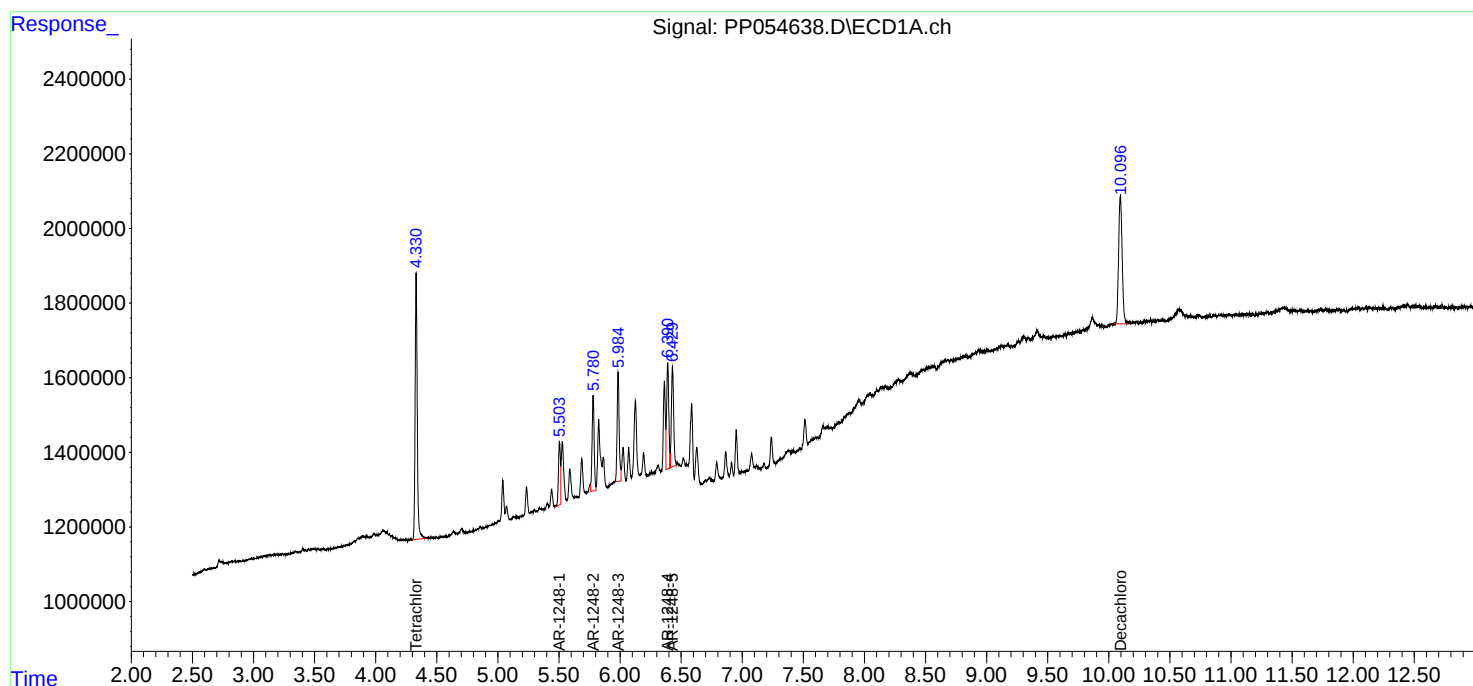
Instrument :
ECD_P
ClientSampleId :
AR1248ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:47:53 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:34:28 2023
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\PP011723\
 Data File : PP054639.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Jan 2023 23:55
 Operator : YP\AJ
 Sample : AR1254ICC1000
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:55:27 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:52:34 2023
 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...	4.332	3.579	179.2E6	157.3E6	99.024	98.952
2) SA Decachlor...	10.095	8.603	125.5E6	131.6E6	96.645	97.228
Target Compounds						
26) L6 AR-1254-1	6.365	5.471	64876069	79431366	960.673	973.942
27) L6 AR-1254-2	6.585	5.619	79306440	68328243	915.791	971.801
28) L6 AR-1254-3	6.952	6.024	81892178	107.7E6	969.015	970.480
29) L6 AR-1254-4	7.239	6.254	58248595	58850995	961.262	964.396
30) L6 AR-1254-5	7.660	6.673	64415099	90585374	963.605	976.511

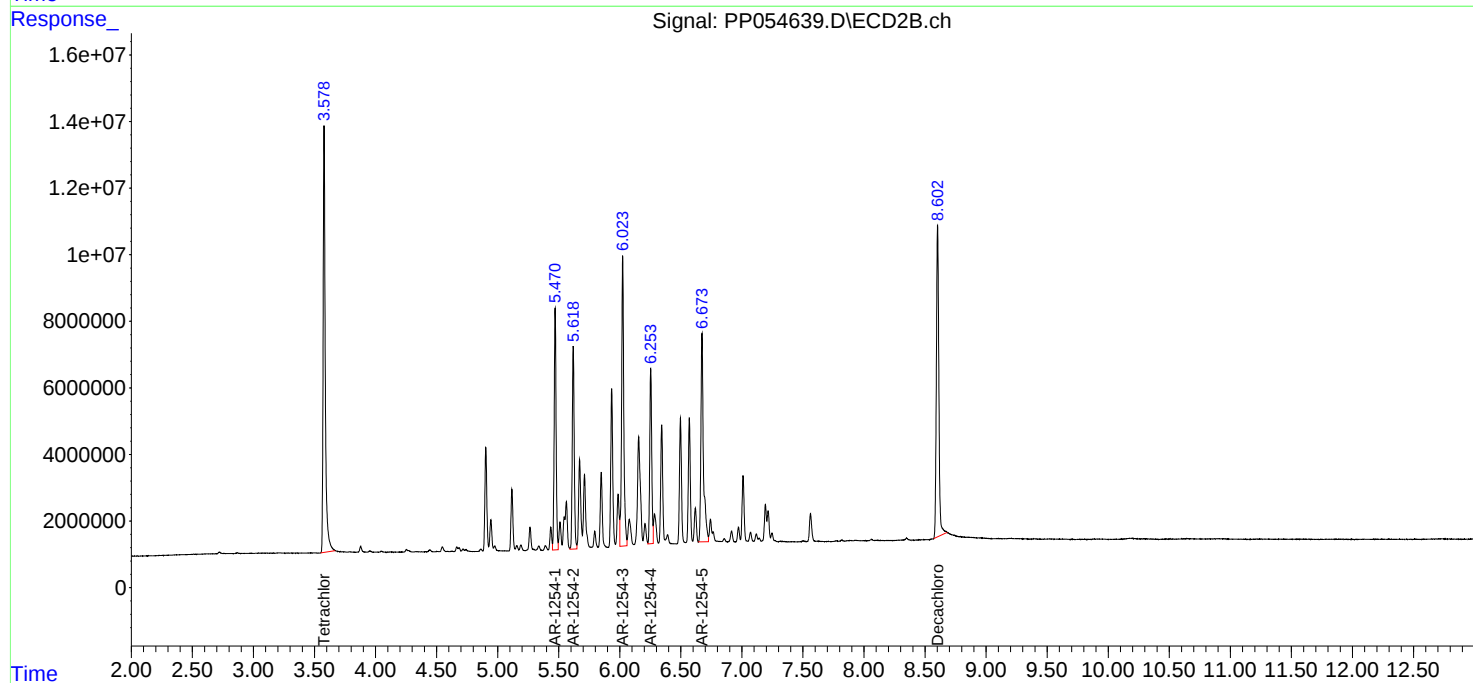
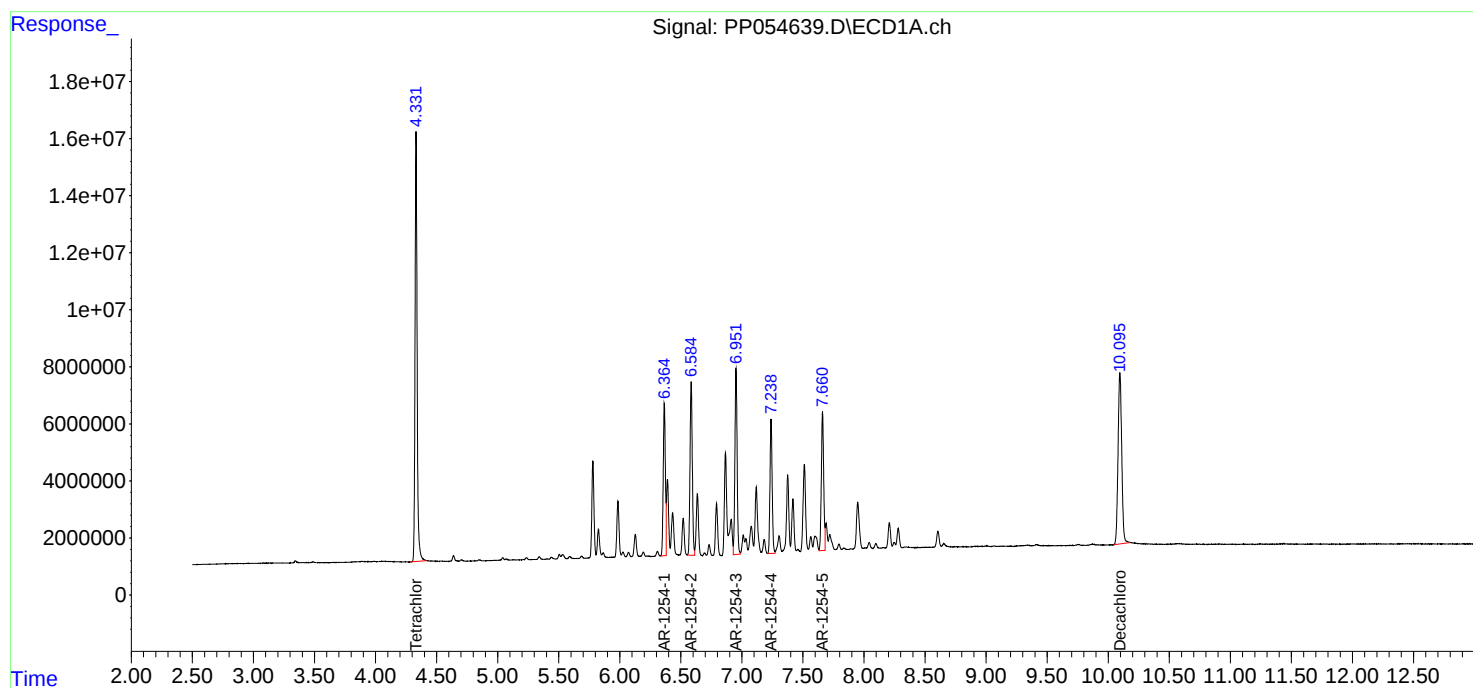
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054639.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 23:55
Operator : YP\AJ
Sample : AR1254ICC1000
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1254ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:55:27 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:52:34 2023
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\PP011723\
 Data File : PP054640.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 00:11
 Operator : YP\AJ
 Sample : AR1254ICC750
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 01:59:50 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:52:34 2023
 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...	4.331	3.578	136.4E6	120.0E6	75.226	75.306
2) SA Decachlor...	10.096	8.601	97508740	101.4E6	75.073	74.936
Target Compounds						
26) L6 AR-1254-1	6.363	5.470	50518614	61261628	748.712	750.770
27) L6 AR-1254-2	6.583	5.618	61502335	52695289	722.988	749.640
28) L6 AR-1254-3	6.951	6.024	63367302	83845068	749.876	753.556
29) L6 AR-1254-4	7.238	6.253	45463530	45938425	750.182	751.862
30) L6 AR-1254-5	7.659	6.673	50180396	70202704	750.442	754.510

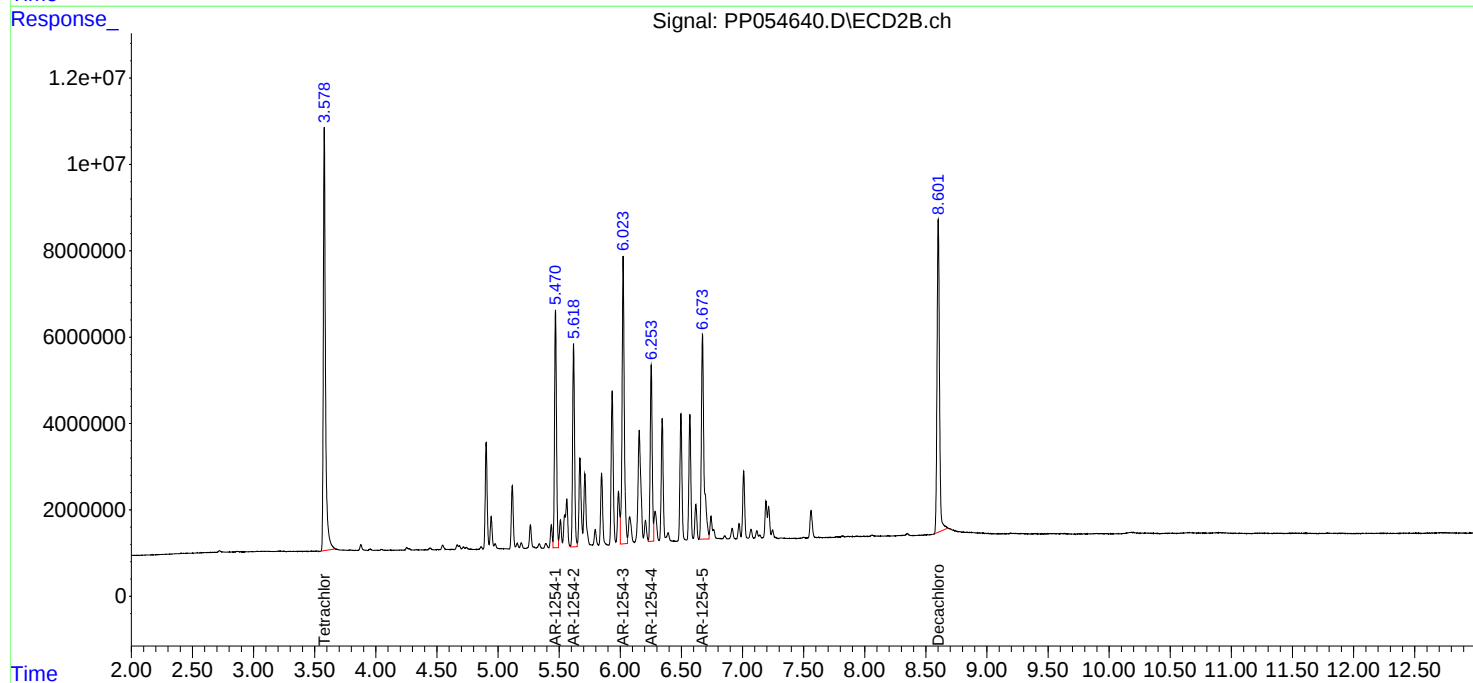
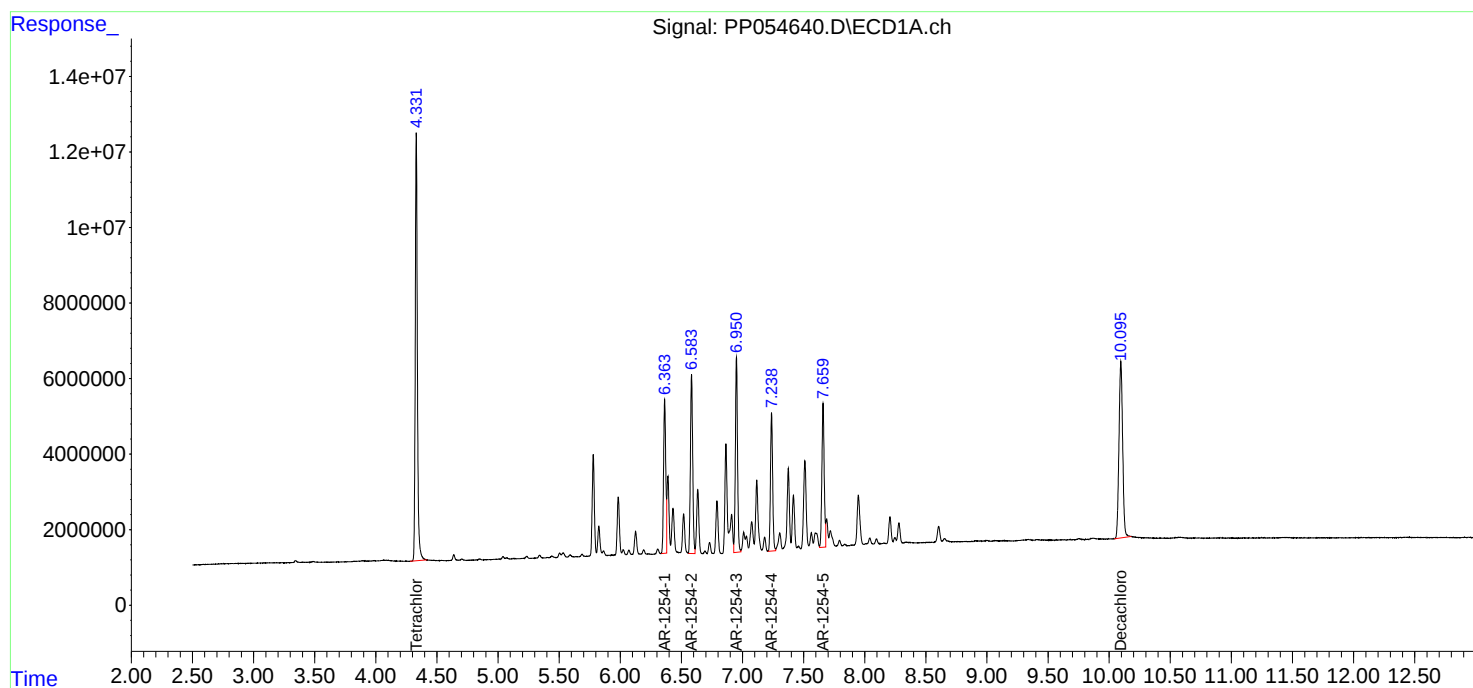
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054640.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 00:11
Operator : YP\AJ
Sample : AR1254ICC750
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1254ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 01:59:50 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:52:34 2023
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\PP011723\
 Data File : PP054641.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 00:27
 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: Jan 18 01:52:50 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:52:34 2023
 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...	4.331	3.578	91389859	80316651	50.000	50.000
2) SA Decachlor...	10.095	8.602	67089275	69543034	50.000	50.000
Target Compounds						
26) L6 AR-1254-1	6.364	5.470	35093891	41840874	500.000	500.000
27) L6 AR-1254-2	6.583	5.619	46945624	36146833	500.000	500.000
28) L6 AR-1254-3	6.952	6.024	43564672	57139440	500.000	500.000
29) L6 AR-1254-4	7.239	6.254	31471652	31598205	500.000	500.000
30) L6 AR-1254-5	7.660	6.673	34640510	47471662	500.000	500.000

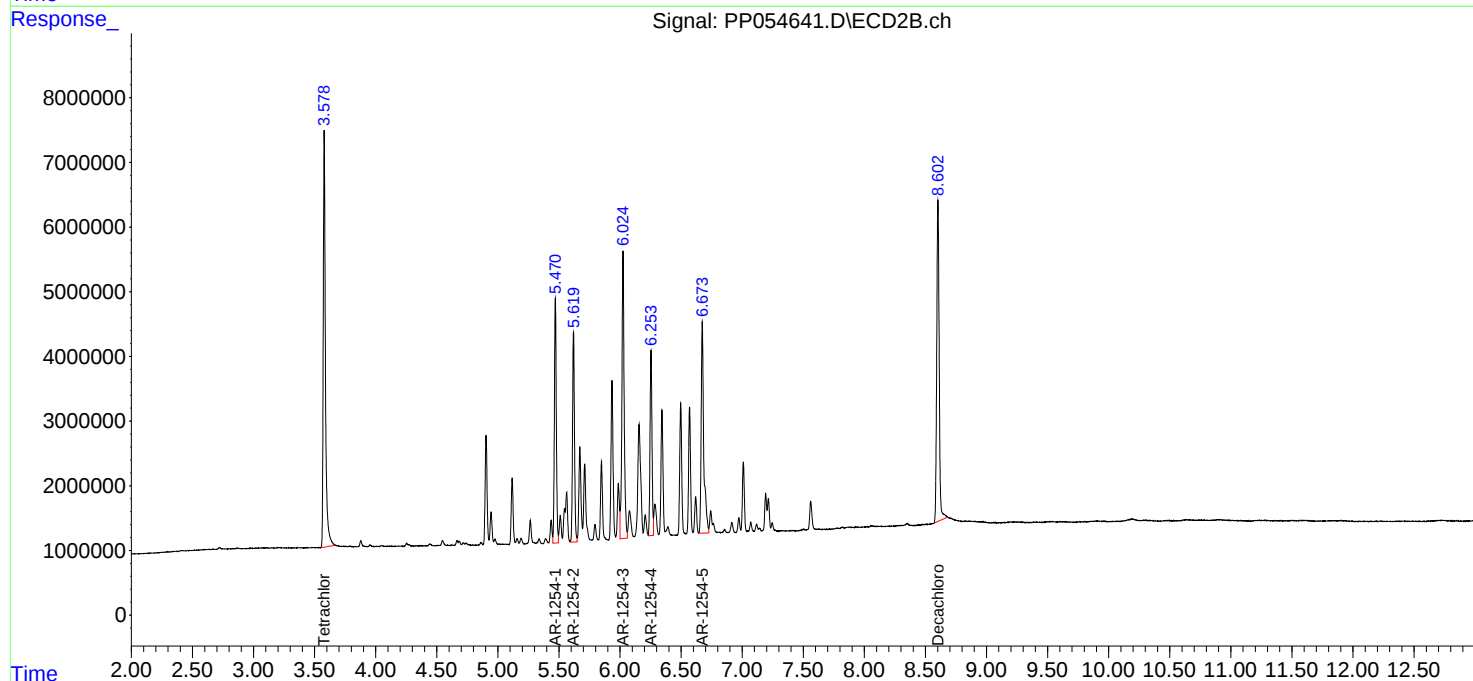
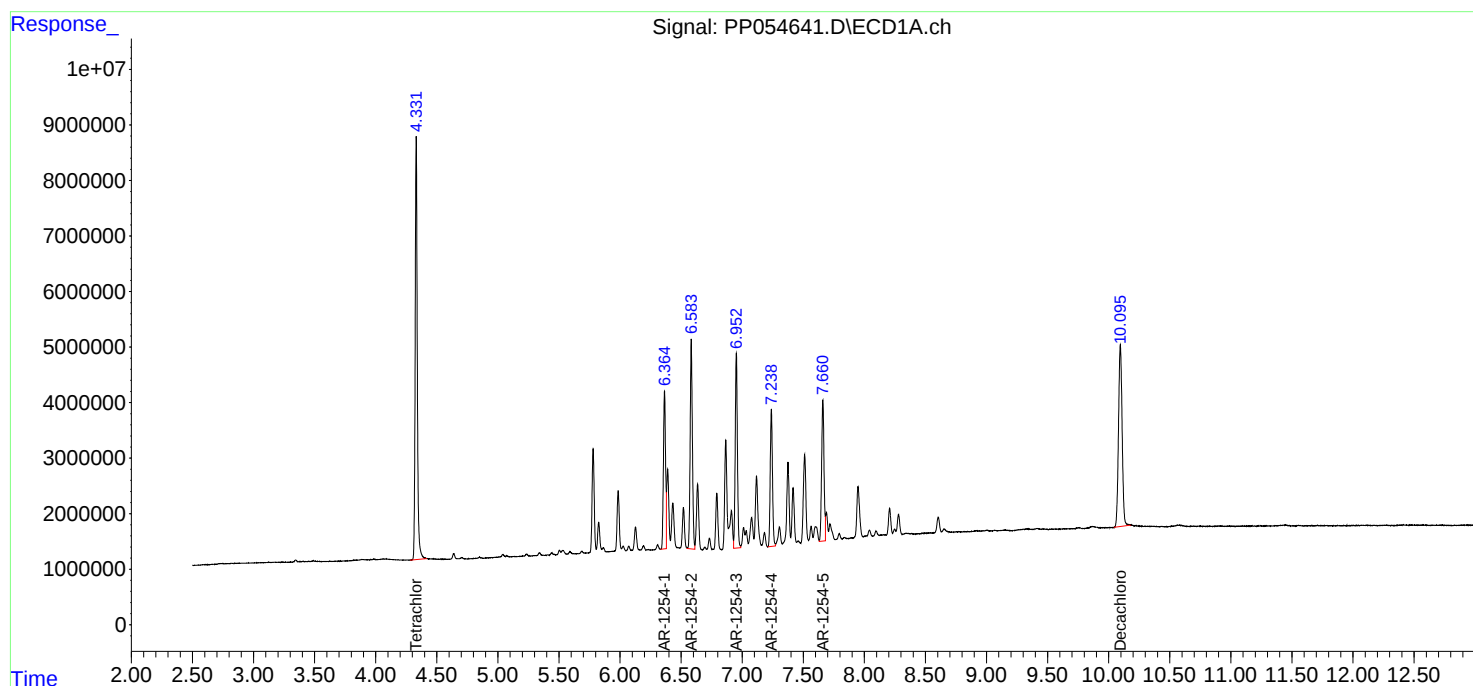
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054641.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 00:27
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: Jan 18 01:52:50 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:52:34 2023
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\PP011723\
 Data File : PP054642.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 00:44
 Operator : YP\AJ
 Sample : AR1254ICC250
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 02:02:27 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:52:34 2023
 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...	4.332	3.578	47220741	40933813	25.778	25.519
2) SA Decachlor...	10.095	8.603	35702219	37043862	26.820	26.746
Target Compounds						
26) L6 AR-1254-1	6.364	5.471	19057736	22433011	273.569	268.235
27) L6 AR-1254-2	6.584	5.619	28162225	19497280	306.236	269.979
28) L6 AR-1254-3	6.952	6.024	23266689	29879927	268.530	263.656
29) L6 AR-1254-4	7.239	6.253	16939473	16618614	271.501	266.139
30) L6 AR-1254-5	7.661	6.673	18508421	25071554	269.569	264.316

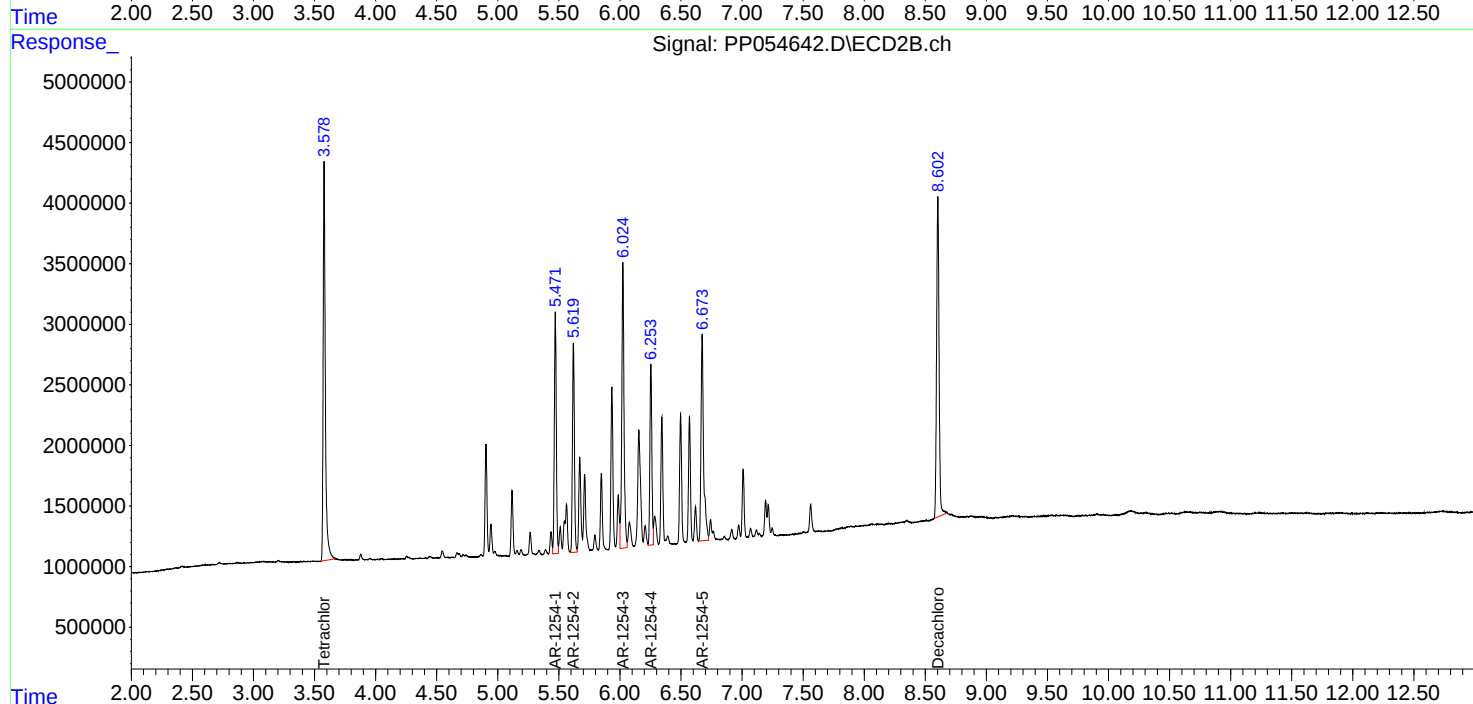
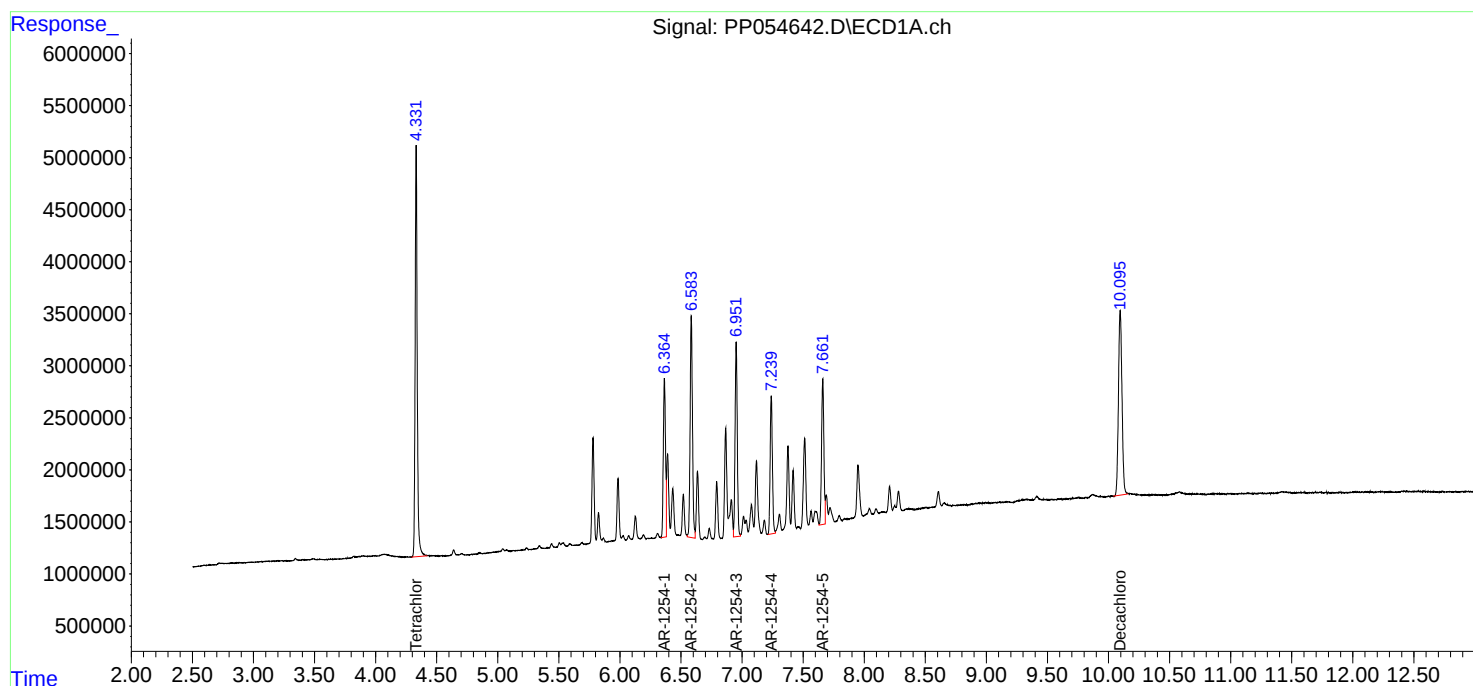
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 00:44
Operator : YP\AJ
Sample : AR1254ICC250
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1254ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 02:02:27 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:52:34 2023
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\PP011723\
 Data File : PP054643.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 01:00
 Operator : YP\AJ
 Sample : AR1254ICC050
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 02:05:19 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 01:52:34 2023
 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...	4.332	3.578	8674147	7338520	4.786	4.654
2) SA Decachlor...	10.096	8.602	6857467	7361282	5.120	5.249
Target Compounds						
26) L6 AR-1254-1	6.364	5.470	3737229	4528911	52.876	53.268
27) L6 AR-1254-2	6.584	5.618	5535948	3748391	58.174m	51.512
28) L6 AR-1254-3	6.952	6.024	4361502	5628037	50.270	49.728
29) L6 AR-1254-4	7.239	6.253	3183844	3071560	50.820	49.350
30) L6 AR-1254-5	7.661	6.673	3762888	4721382	53.772	49.820

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054643.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 01:00
Operator : YP\AJ
Sample : AR1254ICC050
Misc :
ALS Vial : 24 Sample Multiplier: 1

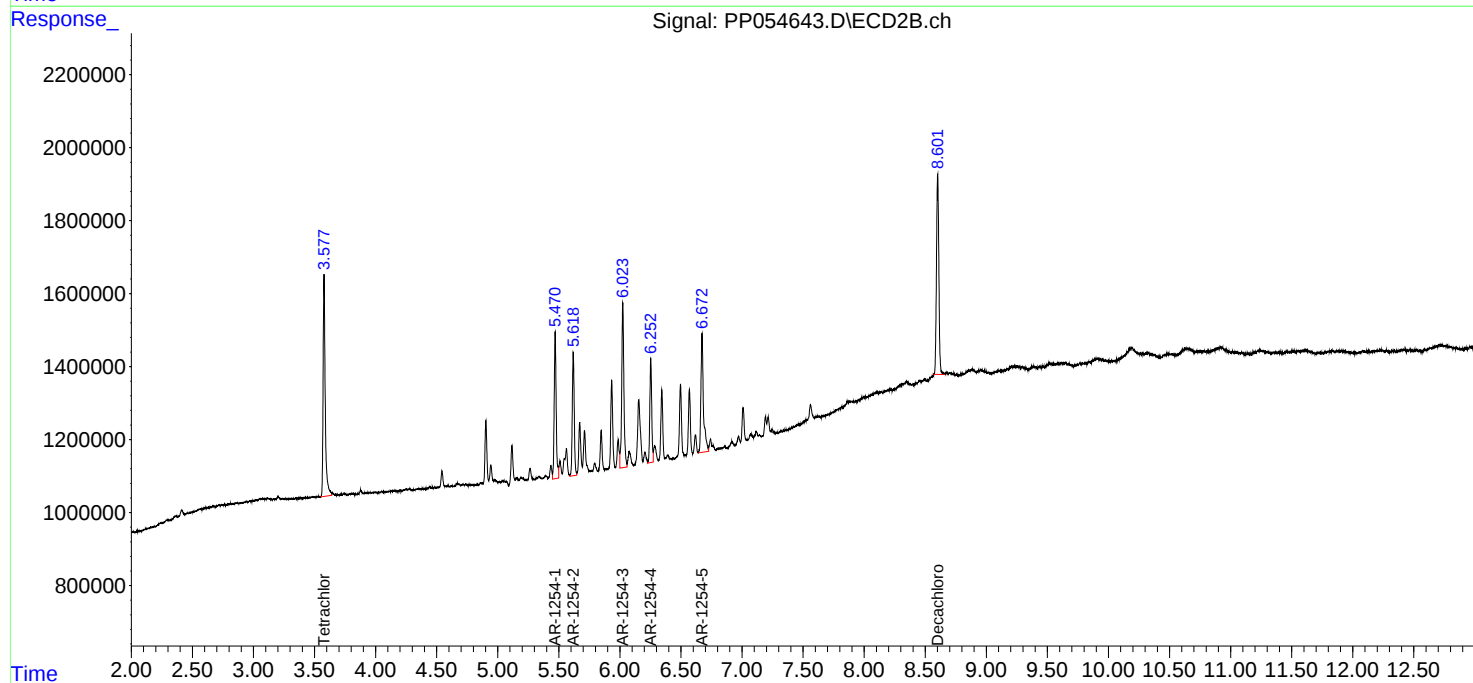
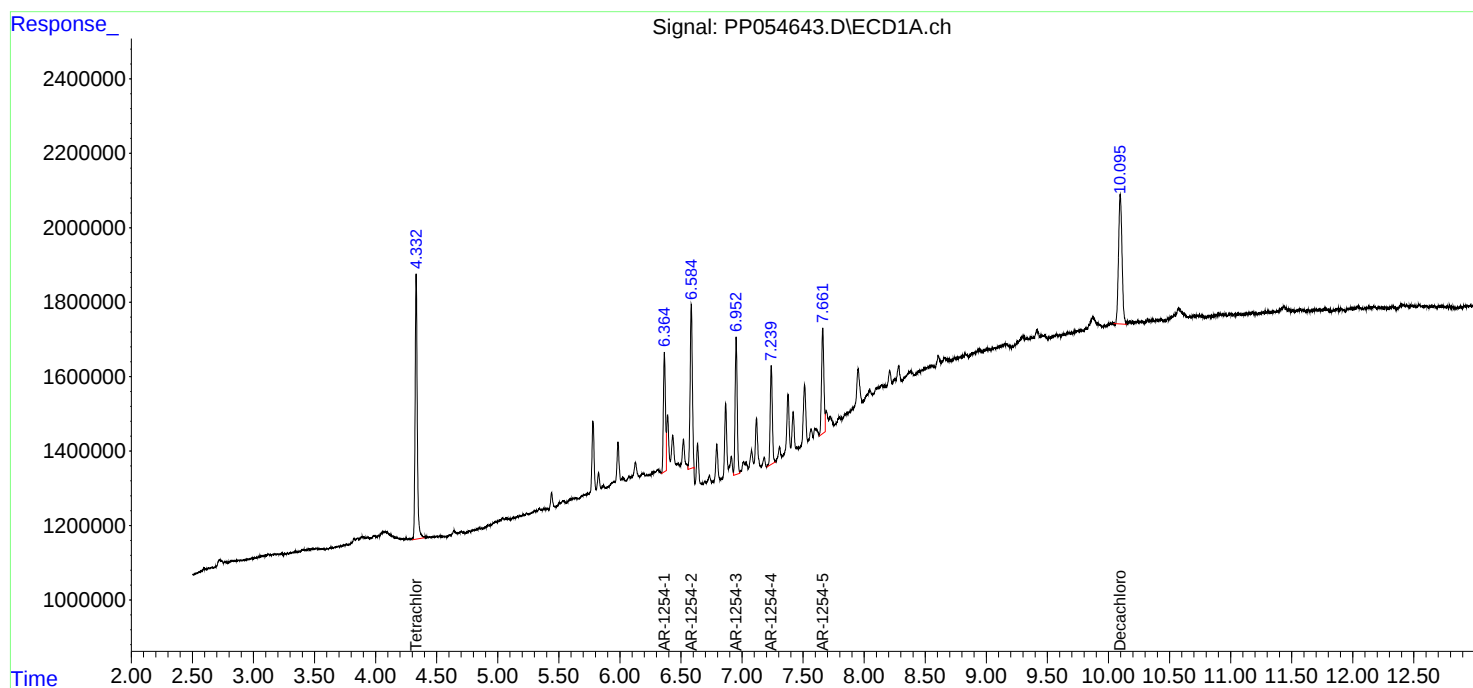
Instrument :
ECD_P
ClientSampleId :
AR1254ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 02:05:19 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 01:52:34 2023
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\PP011723\
 Data File : PP054644.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 01:17
 Operator : YP\AJ
 Sample : AR1262ICC500
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1262ICC500

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 03:19:12 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 03:12:21 2023
 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...	4.331	3.578	91612718	80367868	50.000	50.000
2) SA Decachlor...	10.097	8.601	67937418	69935138	50.000	50.000
Target Compounds						
36) L8 AR-1262-1	7.738	6.765	40928853	21209023	500.000	500.000
37) L8 AR-1262-2	8.280	6.972	70789629	45971819	500.000	500.000
38) L8 AR-1262-3	8.593	7.500	51547817	35920611	500.000	500.000
39) L8 AR-1262-4	8.682	7.563	24857612	64657181	523.373m	500.000
40) L8 AR-1262-5	9.340	8.059	28478428	29789814	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\PP011723\
Data File : PP054644.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 01:17
Operator : YP\AJ
Sample : AR1262ICC500
Misc :
ALS Vial : 25 Sample Multiplier: 1

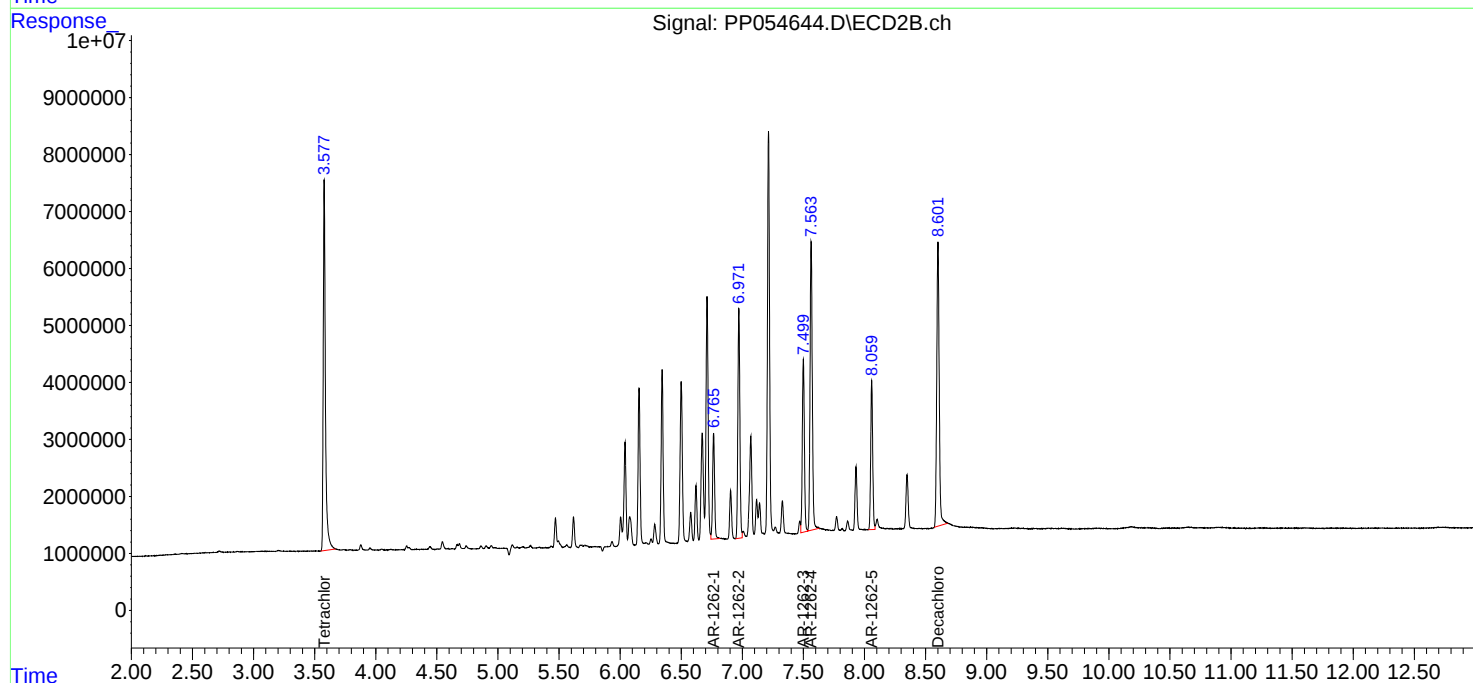
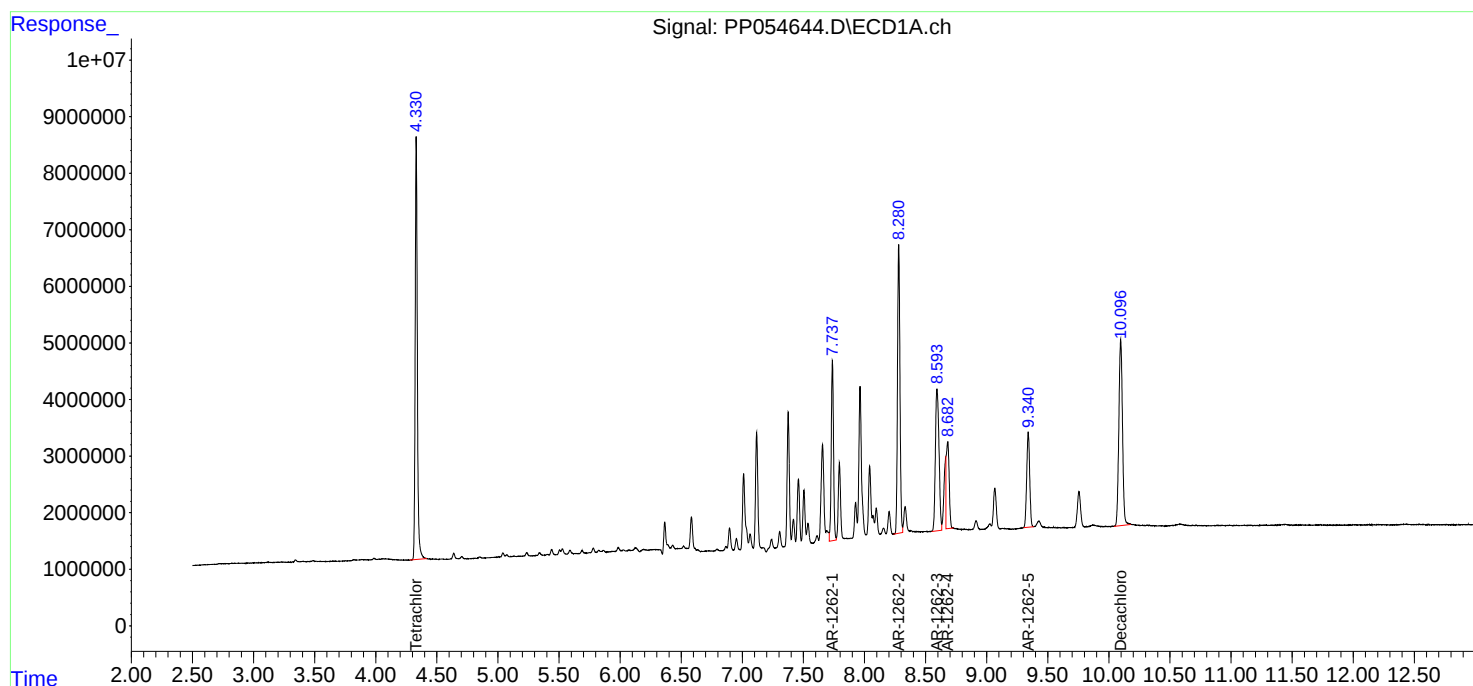
Instrument :
ECD_P
ClientSampleId :
AR1262ICC500

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 03:19:12 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 03:12:21 2023
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\PP011723\
 Data File : PP054645.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 01:33
 Operator : YP\AJ
 Sample : AR1268ICC1000
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 02:57:33 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 02:22:15 2023
 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...	4.331	3.578	182.1E6	159.9E6	97.816	97.939
2) SA Decachlor...	10.095	8.602	224.1E6	238.3E6	96.509	98.029
Target Compounds						
41) L9 AR-1268-1	8.589	7.500	175.5E6	211.8E6	967.864	983.733
42) L9 AR-1268-2	8.683	7.565	160.6E6	193.2E6	967.930	988.214
43) L9 AR-1268-3	8.912	7.772	140.7E6	173.2E6	965.289	983.892
44) L9 AR-1268-4	9.338	8.059	62374308	65506290	965.177	974.650
45) L9 AR-1268-5	9.754	8.349	472.9E6	517.6E6	980.103	994.736

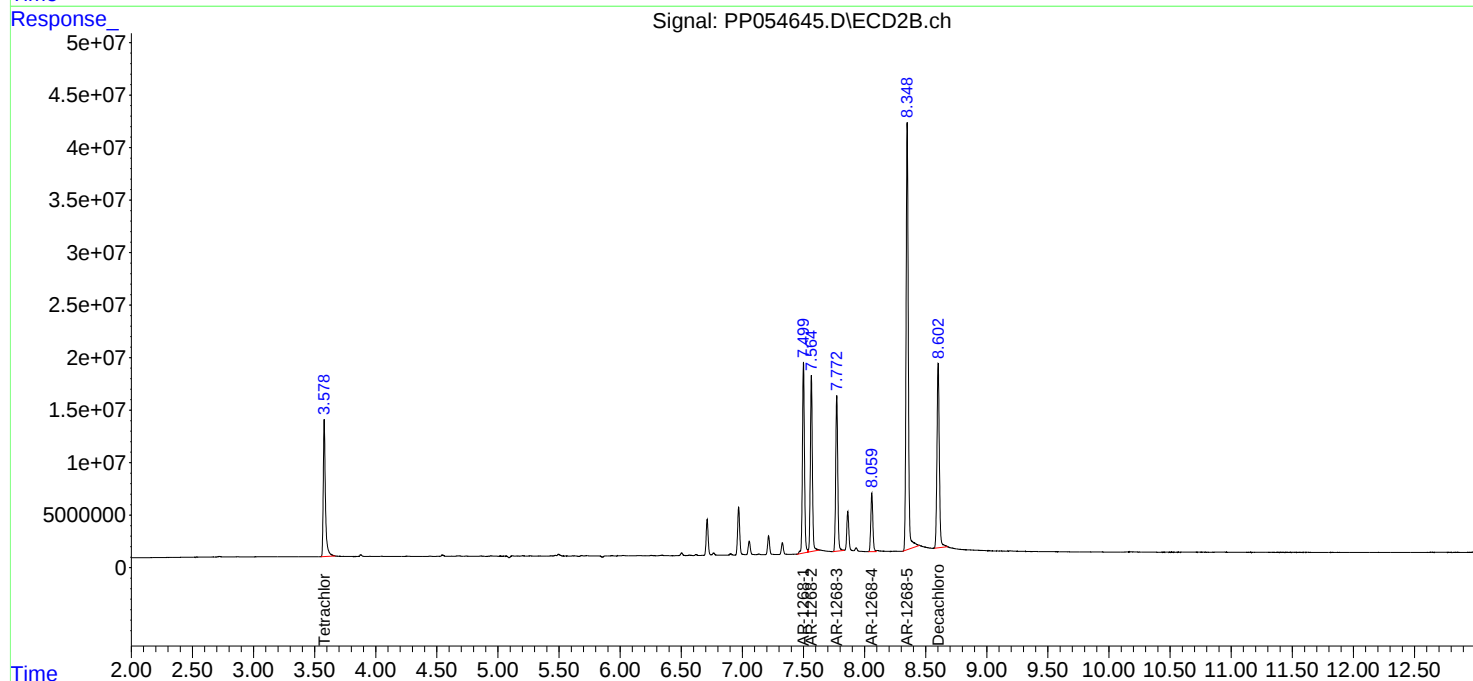
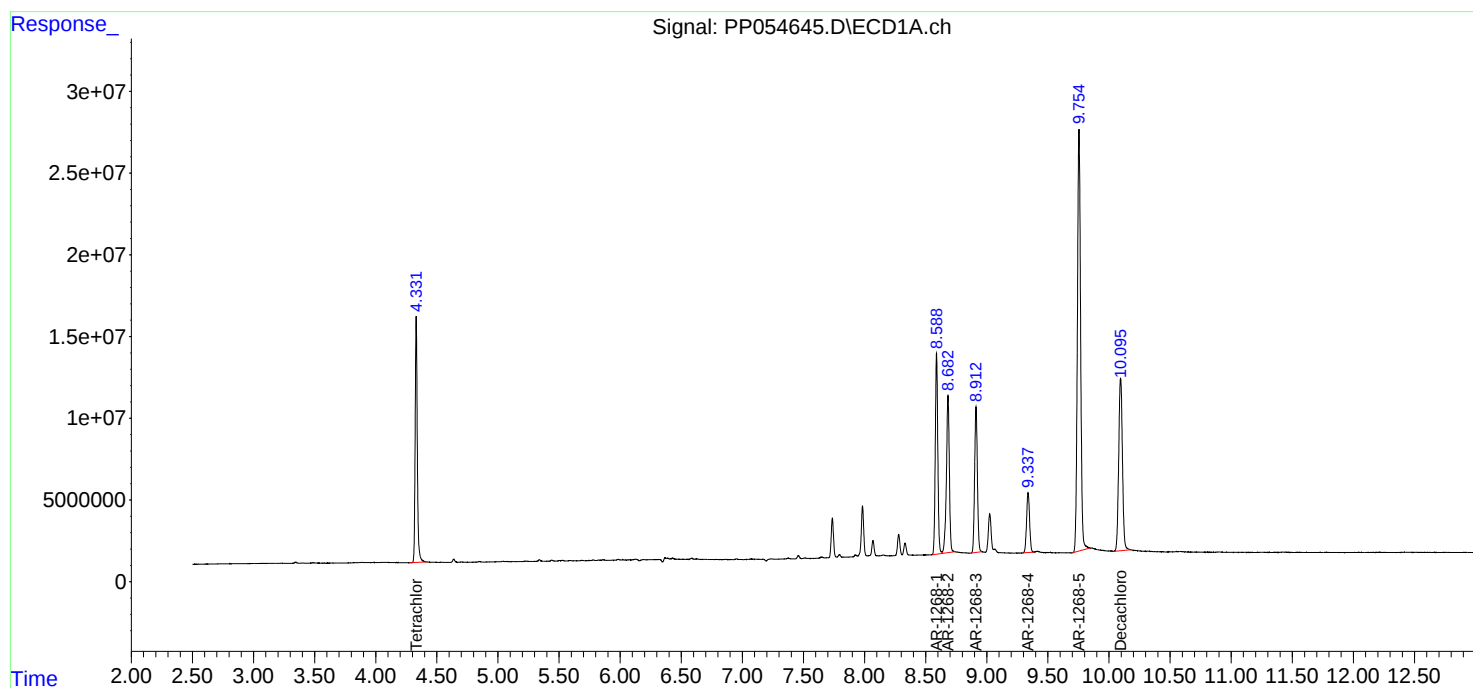
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054645.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 01:33
Operator : YP\AJ
Sample : AR1268ICC1000
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1268ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 02:57:33 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 02:22:15 2023
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\PP011723\
 Data File : PP054646.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 01:50
 Operator : YP\AJ
 Sample : AR1268ICC750
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 03:01:51 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 02:22:15 2023
 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...	4.331	3.579	138.1E6	121.3E6	74.448	74.547
2) SA Decachlor...	10.095	8.602	171.8E6	181.5E6	74.316	74.782
Target Compounds						
41) L9 AR-1268-1	8.590	7.500	133.9E6	159.1E6	742.402	742.451
42) L9 AR-1268-2	8.685	7.564	123.0E6	144.5E6	744.332	742.582
43) L9 AR-1268-3	8.913	7.771	107.7E6	130.7E6	742.507	745.036
44) L9 AR-1268-4	9.338	8.059	48112939	49783815	746.322	743.788
45) L9 AR-1268-5	9.755	8.349	359.6E6	387.8E6	746.861	746.906

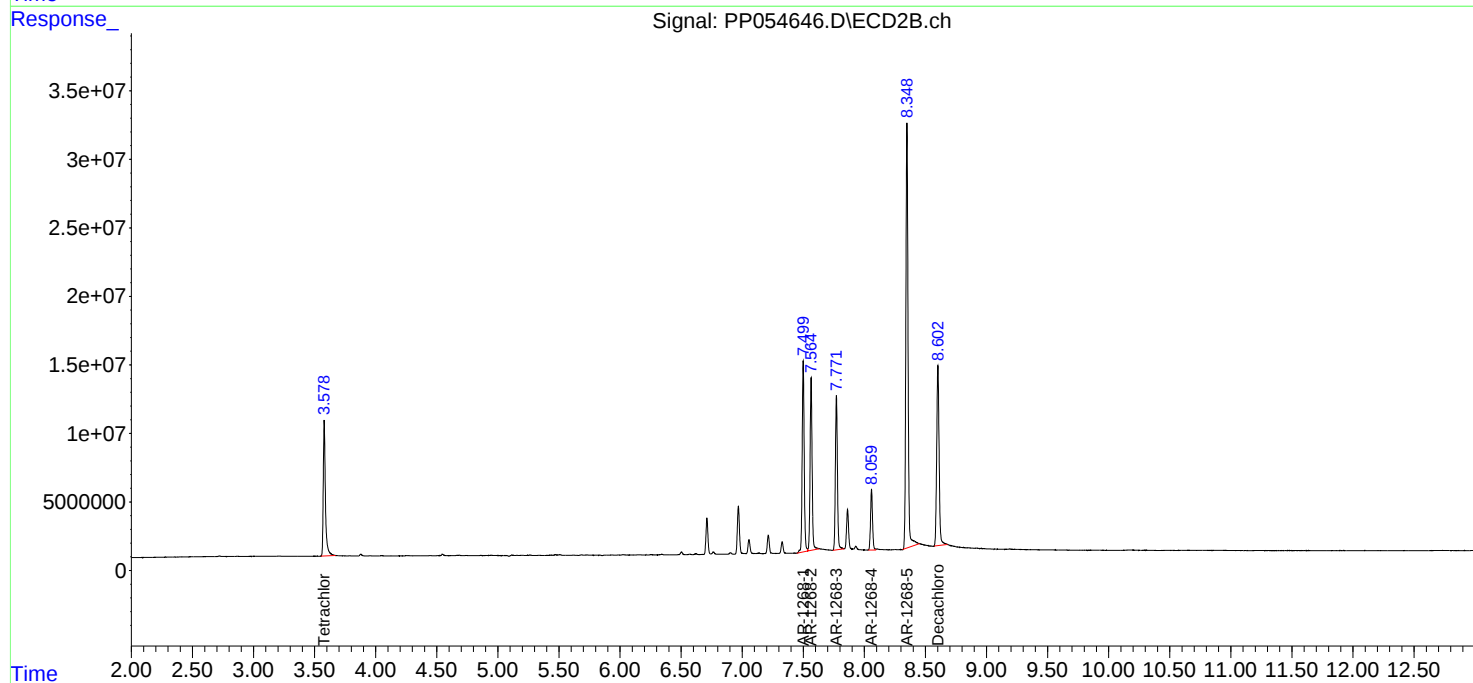
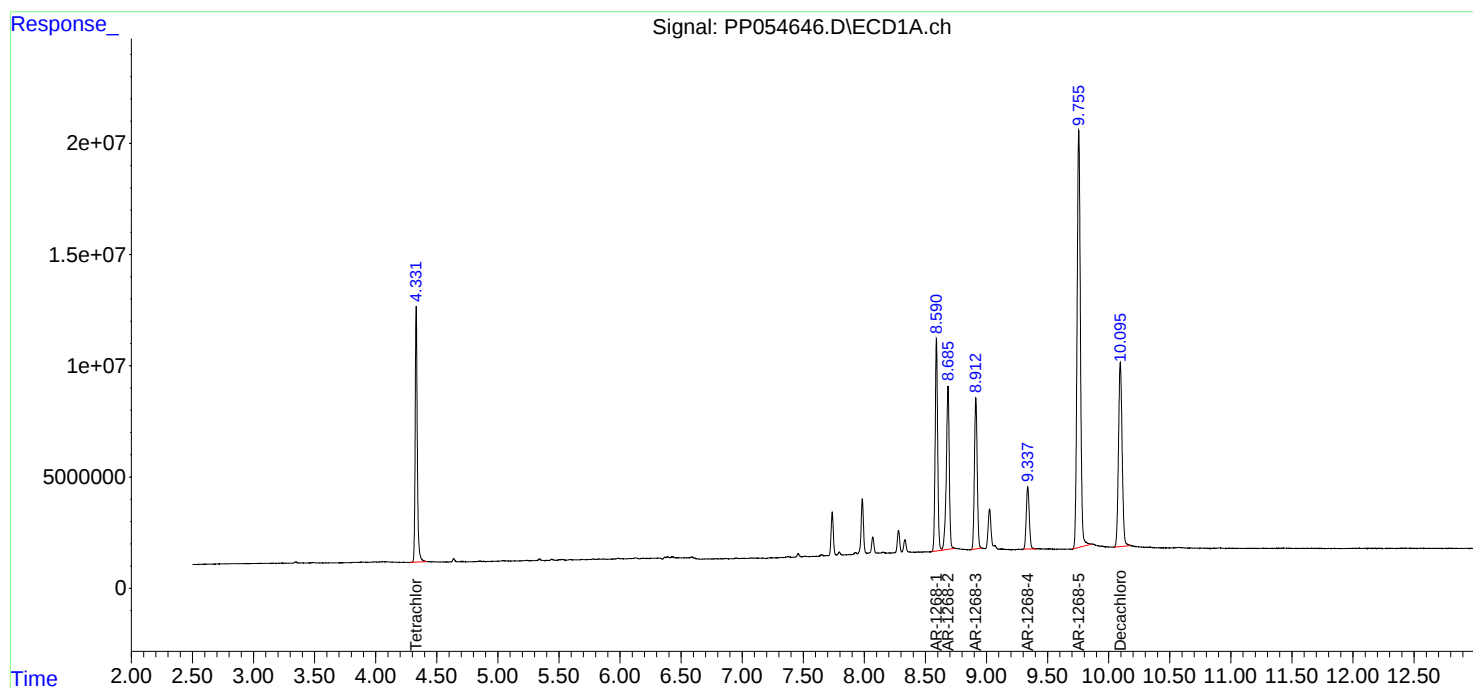
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054646.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 01:50
Operator : YP\AJ
Sample : AR1268ICC750
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1268ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 03:01:51 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 02:22:15 2023
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\PP011723\
 Data File : PP054647.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 02:06
 Operator : YP\AJ
 Sample : AR1268ICC500
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 02:22:30 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 02:22:15 2023
 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...	4.332	3.578	95110363	83315560	50.000	50.000
2) SA Decachlor...	10.095	8.602	120.2E6	123.9E6	50.000	50.000
Target Compounds						
41) L9 AR-1268-1	8.590	7.499	93568731	109.4E6	500.000	500.000
42) L9 AR-1268-2	8.684	7.564	85594965	98906732	500.000	500.000
43) L9 AR-1268-3	8.913	7.772	75393595	89450908	500.000	500.000
44) L9 AR-1268-4	9.339	8.059	33437600	34456898	500.000	500.000
45) L9 AR-1268-5	9.755	8.349	246.0E6	261.5E6	500.000	500.000

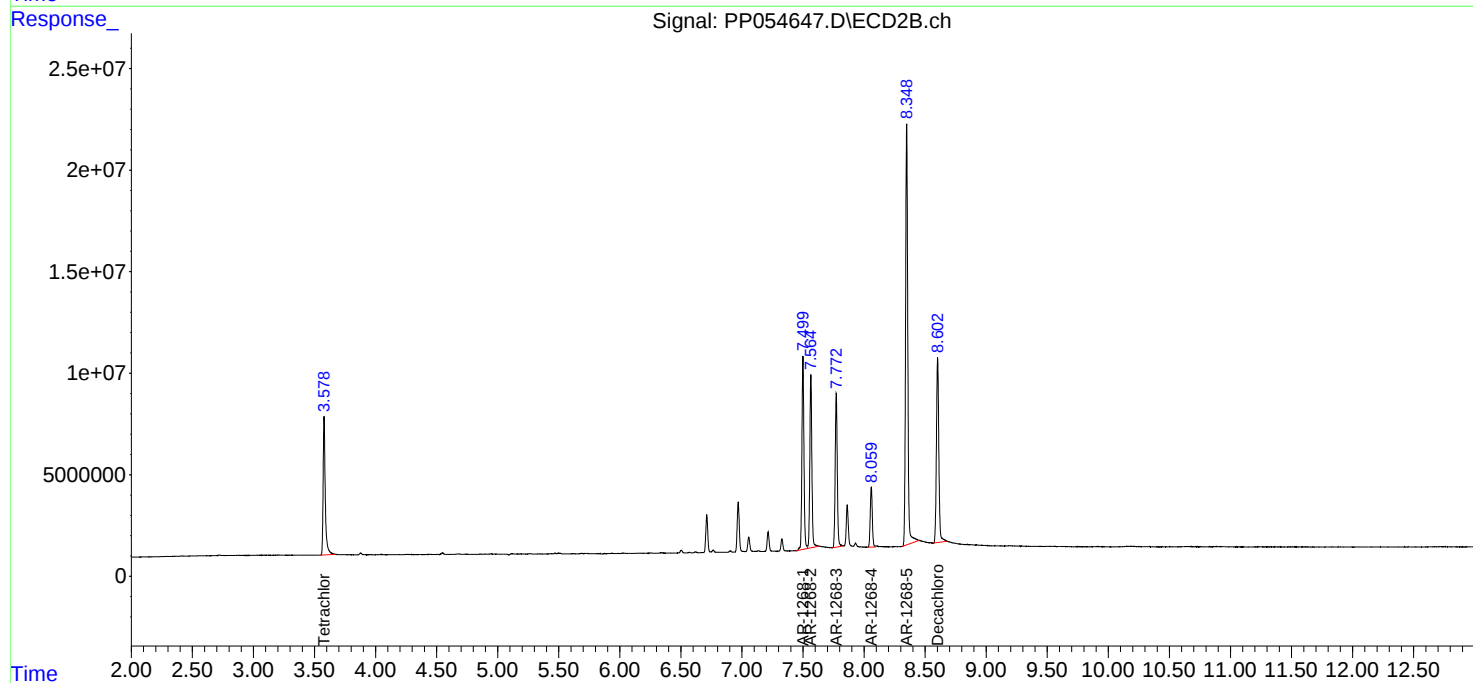
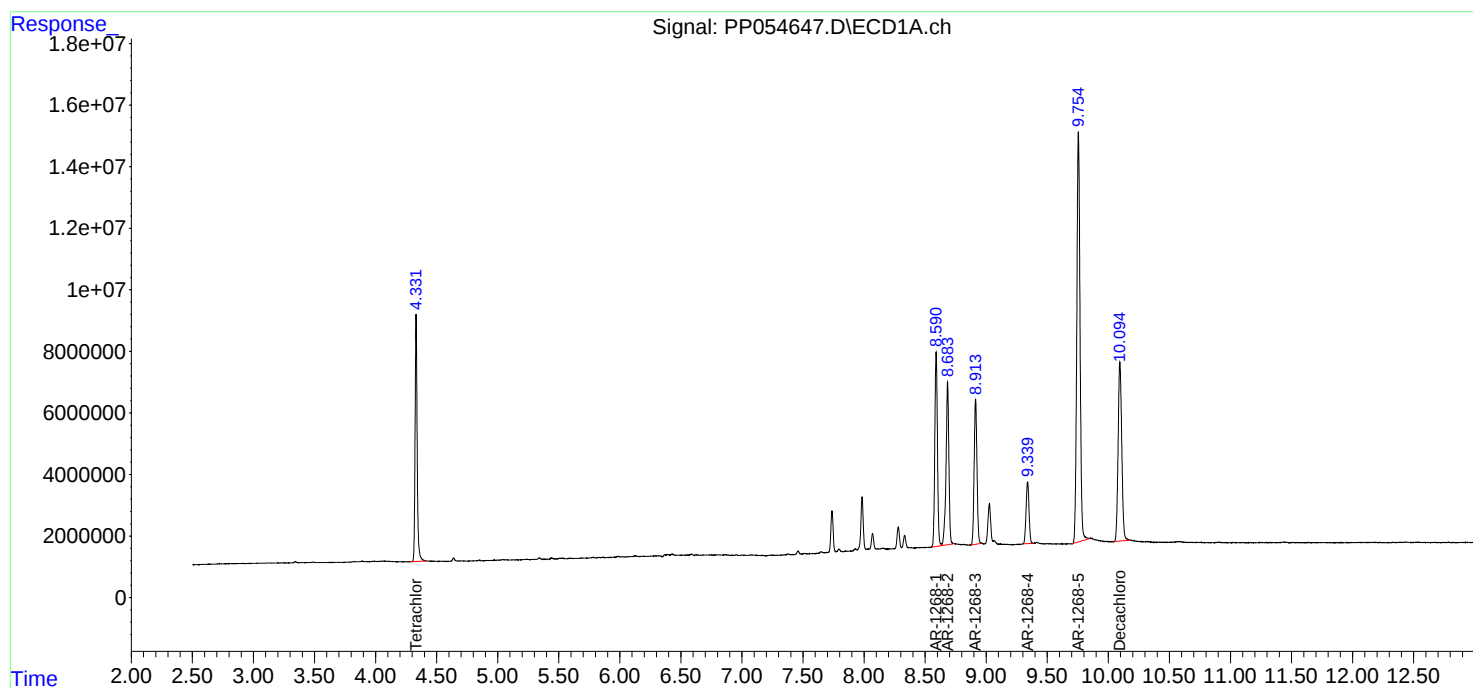
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054647.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 02:06
Operator : YP\AJ
Sample : AR1268ICC500
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1268ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 02:22:30 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 02:22:15 2023
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\PP011723\
 Data File : PP054648.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 02:22
 Operator : YP\AJ
 Sample : AR1268ICC250
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 03:06:12 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 02:22:15 2023
 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...	4.332	3.578	47495075	41371564	25.453	25.311
2) SA Decachlor...	10.095	8.602	62608755	64373428	26.529	26.125
Target Compounds						
41) L9 AR-1268-1	8.590	7.500	48206312	55573865	262.699	256.998
42) L9 AR-1268-2	8.683	7.564	44275766	50424632	263.217	256.830
43) L9 AR-1268-3	8.912	7.772	38865012	45653296	263.280	257.540
44) L9 AR-1268-4	9.338	8.059	17092396	17947994	261.182	263.369
45) L9 AR-1268-5	9.755	8.348	124.5E6	130.9E6	256.462	251.506

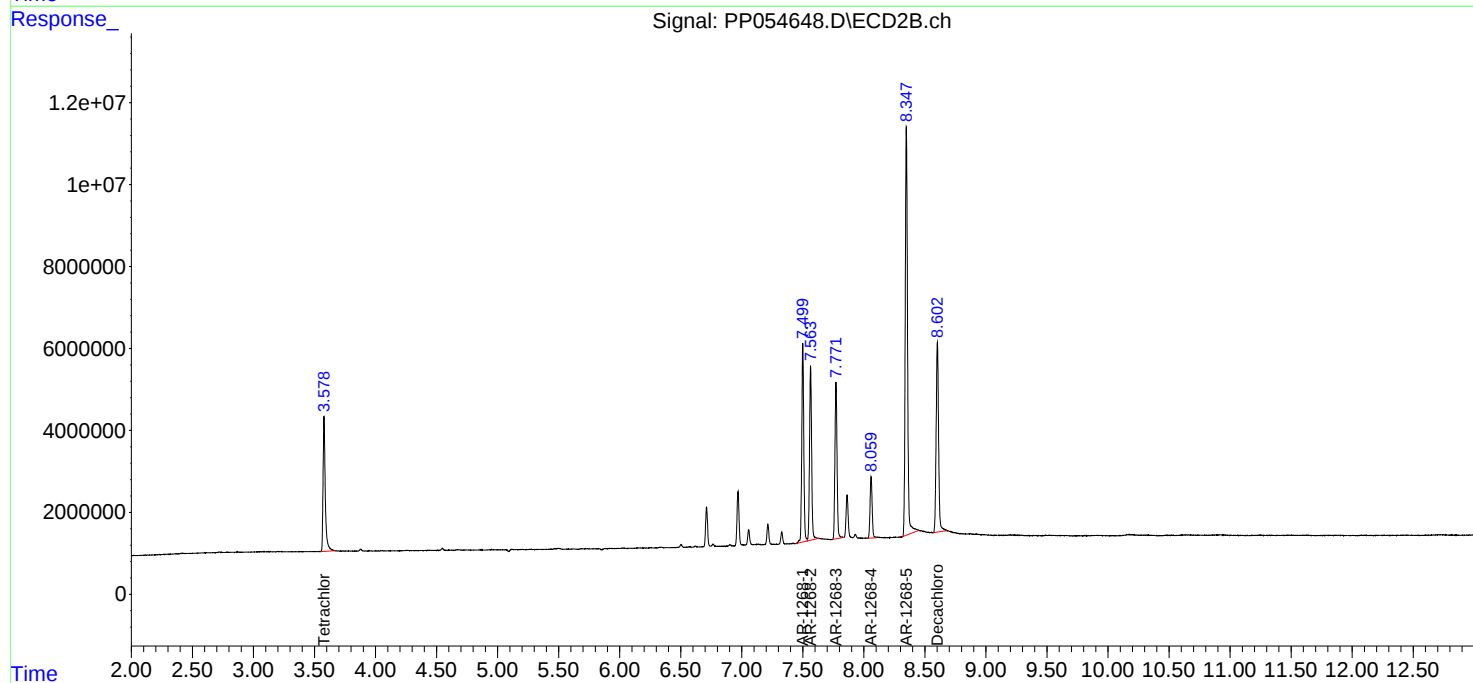
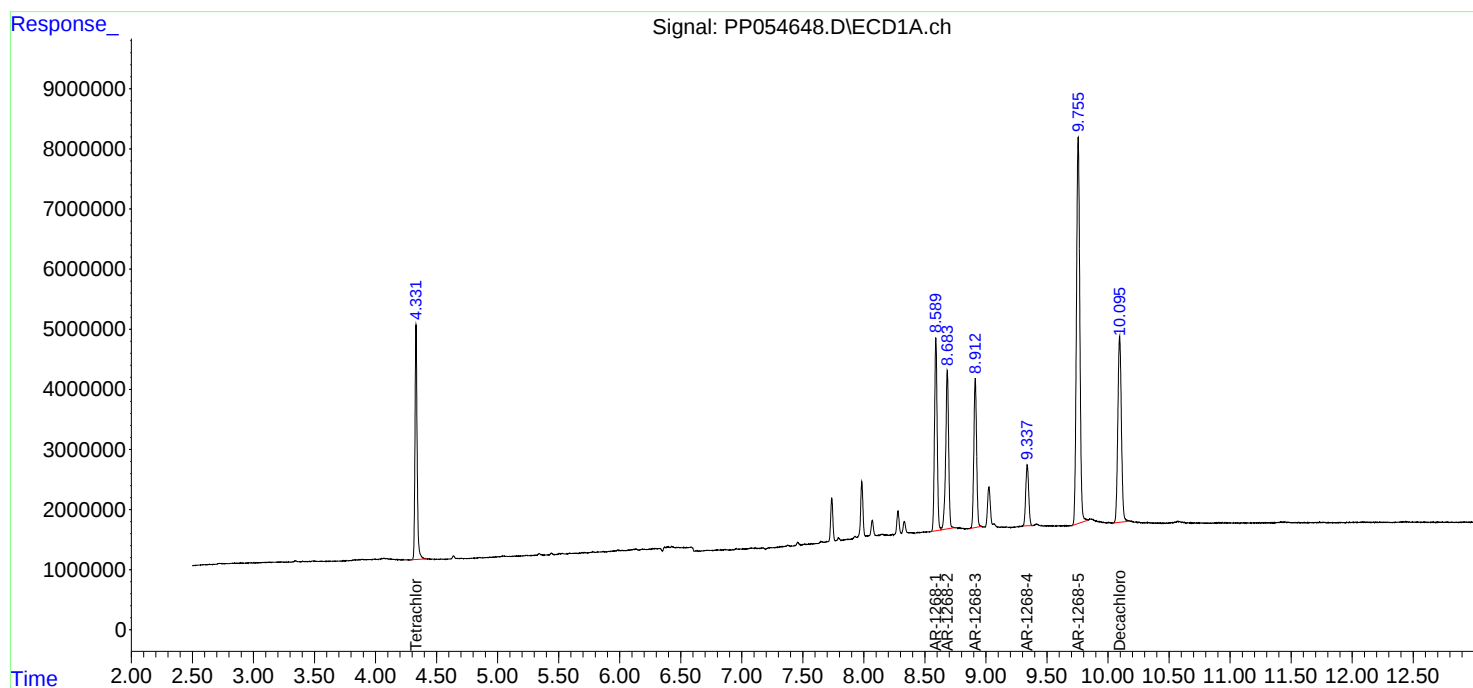
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054648.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 02:22
Operator : YP\AJ
Sample : AR1268ICC250
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1268ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 03:06:12 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 02:22:15 2023
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\PP011723\
 Data File : PP054649.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 02:39
 Operator : YP\AJ
 Sample : AR1268ICC050
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1268ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 03:08:53 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 02:22:15 2023
 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...	4.331	3.578	8566306	7309410	4.667	4.568
2) SA Decachlor...	10.096	8.602	12393088	12997423	5.199	5.217
Target Compounds						
41) L9 AR-1268-1	8.590	7.499	9407440	10804423	51.007	50.051m
42) L9 AR-1268-2	8.683	7.564	8732136	9703632	51.518	49.538
43) L9 AR-1268-3	8.913	7.772	7716596	8787824	51.803	49.659
44) L9 AR-1268-4	9.339	8.059	3050272	3280095	47.251	48.495
45) L9 AR-1268-5	9.755	8.348	23527908	24570992	48.751	47.756

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054649.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 02:39
Operator : YP\AJ
Sample : AR1268ICC050
Misc :
ALS Vial : 30 Sample Multiplier: 1

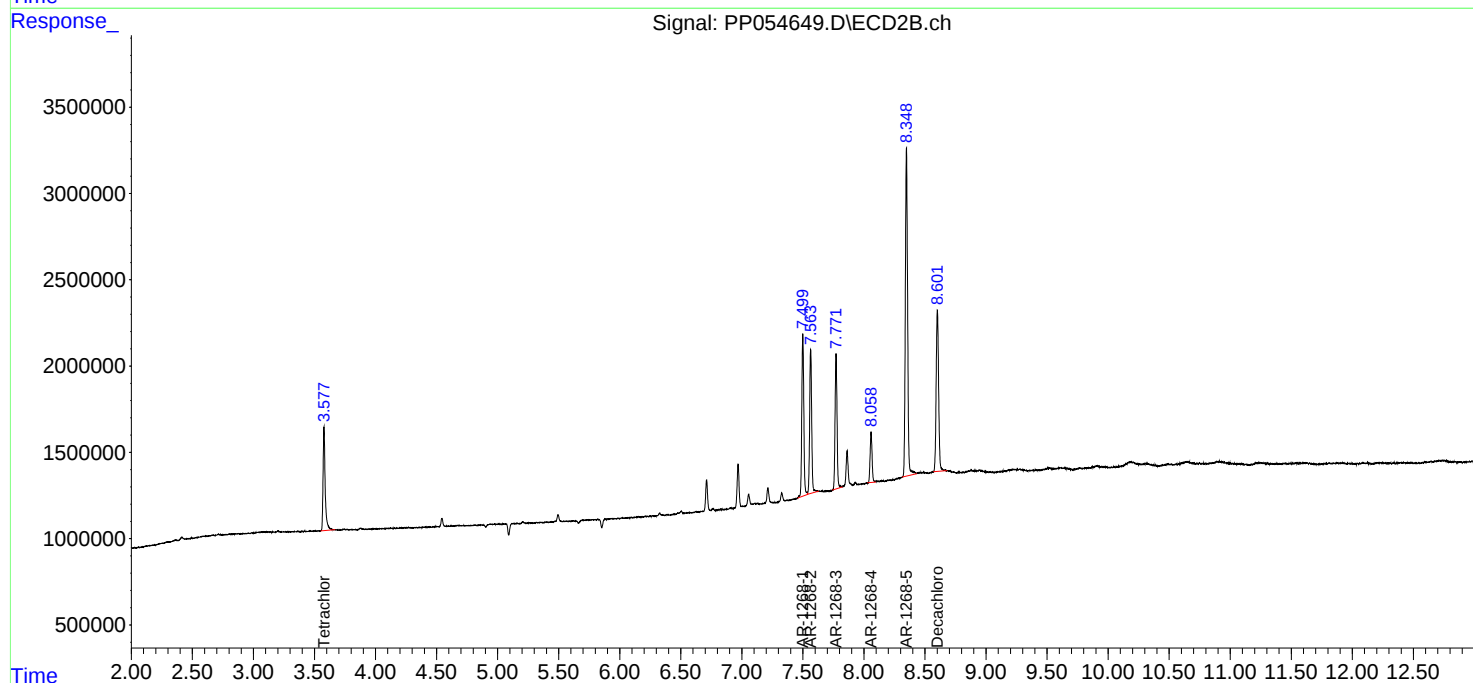
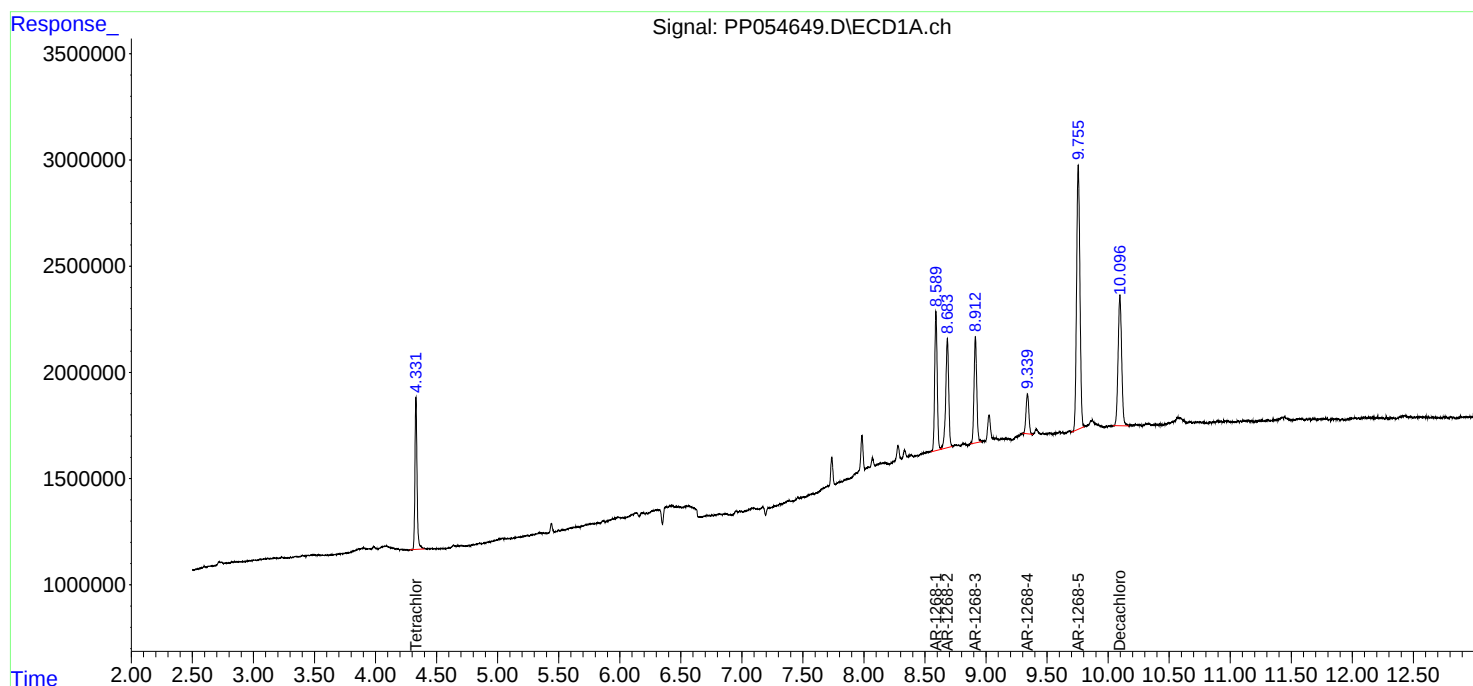
Instrument :
ECD_P
ClientSampleId :
AR1268ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 03:08:53 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 02:22:15 2023
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\PP011723\
 Data File : PP054650.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 03:12
 Operator : YP\AJ
 Sample : PP011623ICV500
 Misc :
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP011723

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 04:36:34 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.578	93749304	82254534	51.057	51.387
2) SA Decachlor...	10.096	8.602	68612720	70226252	51.117	49.039
Target Compounds						
3) L1 AR-1016-1	5.505	4.666	32188085	25623791	497.018	508.716
4) L1 AR-1016-2	5.528	4.684	47225952	35692754	499.766	499.973
5) L1 AR-1016-3	5.590	4.861	29731255	19722760	498.540	506.576
6) L1 AR-1016-4	5.689	4.903	24198571	16820200	509.215	495.234
7) L1 AR-1016-5	5.985	5.117	24904656	22606575	514.423	515.969
31) L7 AR-1260-1	7.117	6.155	35162104	41801619	511.926	503.512
32) L7 AR-1260-2	7.376	6.344	40184004	46306576	502.487	503.085
33) L7 AR-1260-3	7.737	6.498	30697038	44979482	509.585	500.446
34) L7 AR-1260-4	7.963	6.971	35863959	37677980	512.571	500.595
35) L7 AR-1260-5	8.281	7.214	66282663	79824664	508.773	502.345

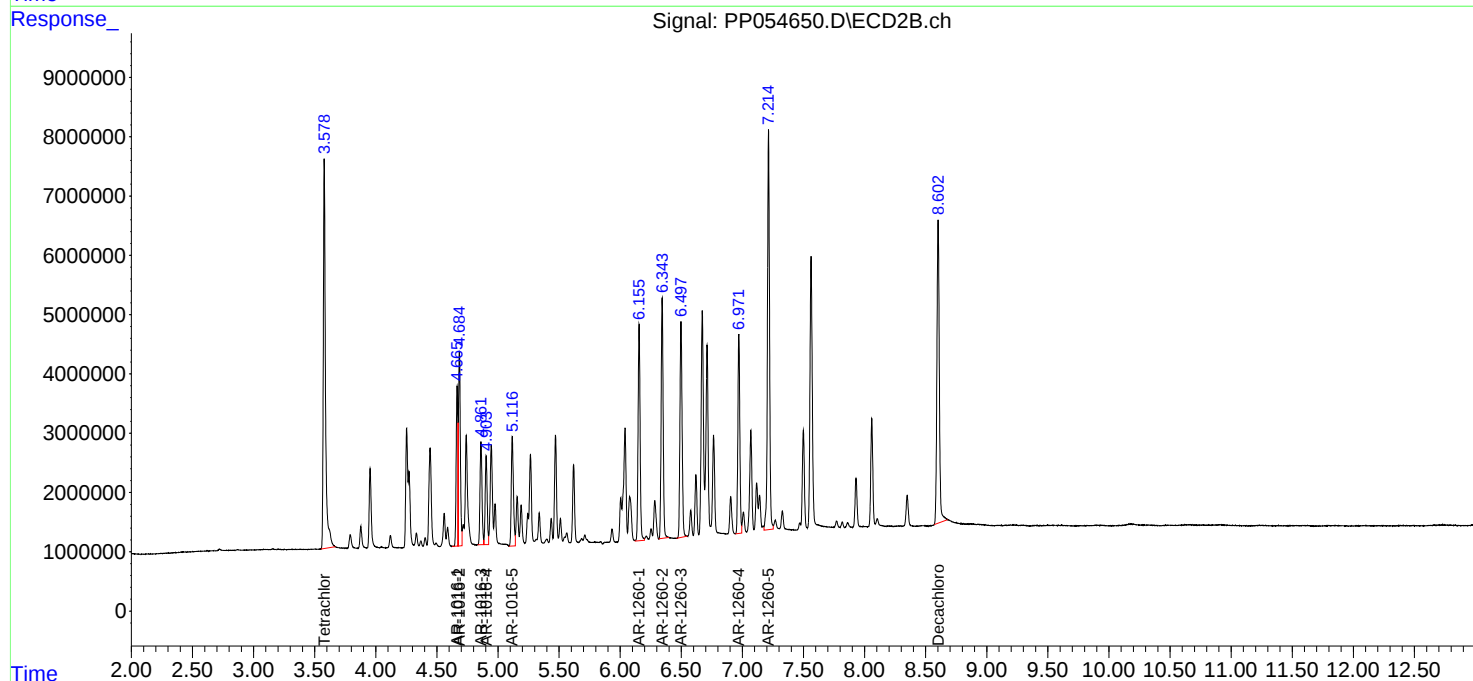
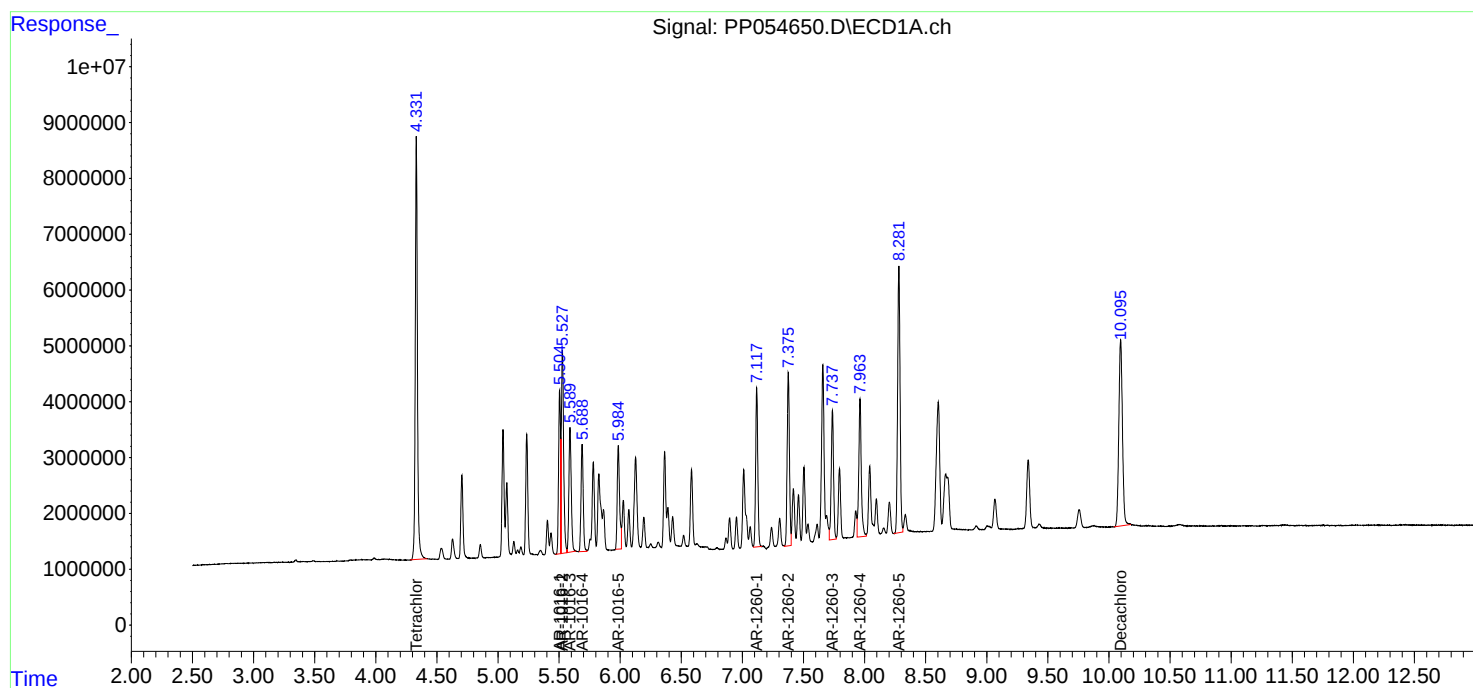
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 03:12
Operator : YP\AJ
Sample : PP011623ICV500
Misc :
ALS Vial : 100 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP011723

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:36:34 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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\PP011723\
 Data File : PP054651.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 03:28
 Operator : YP\AJ
 Sample : AR1242ICV500
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP011723AR1242

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 04:03:59 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 03:22:26 2023
 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...	4.331	3.578	92486218	80751074	50.562	50.572
2) SA Decachlor...	10.094	8.602	67520801	69911737	50.602	49.593
Target Compounds						
16) L4 AR-1242-1	5.504	4.666	26332517	20881261	487.006	494.935
17) L4 AR-1242-2	5.527	4.684	38761419	29388614	496.817	500.519
18) L4 AR-1242-3	5.589	4.861	24380214	16165438	496.297	503.935
19) L4 AR-1242-4	5.688	4.945	19813709	17431791	499.468	496.820
20) L4 AR-1242-5	6.429	5.469	20684902	20058486	573.304	527.707m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 03:28
Operator : YP\AJ
Sample : AR1242ICV500
Misc :
ALS Vial : 32 Sample Multiplier: 1

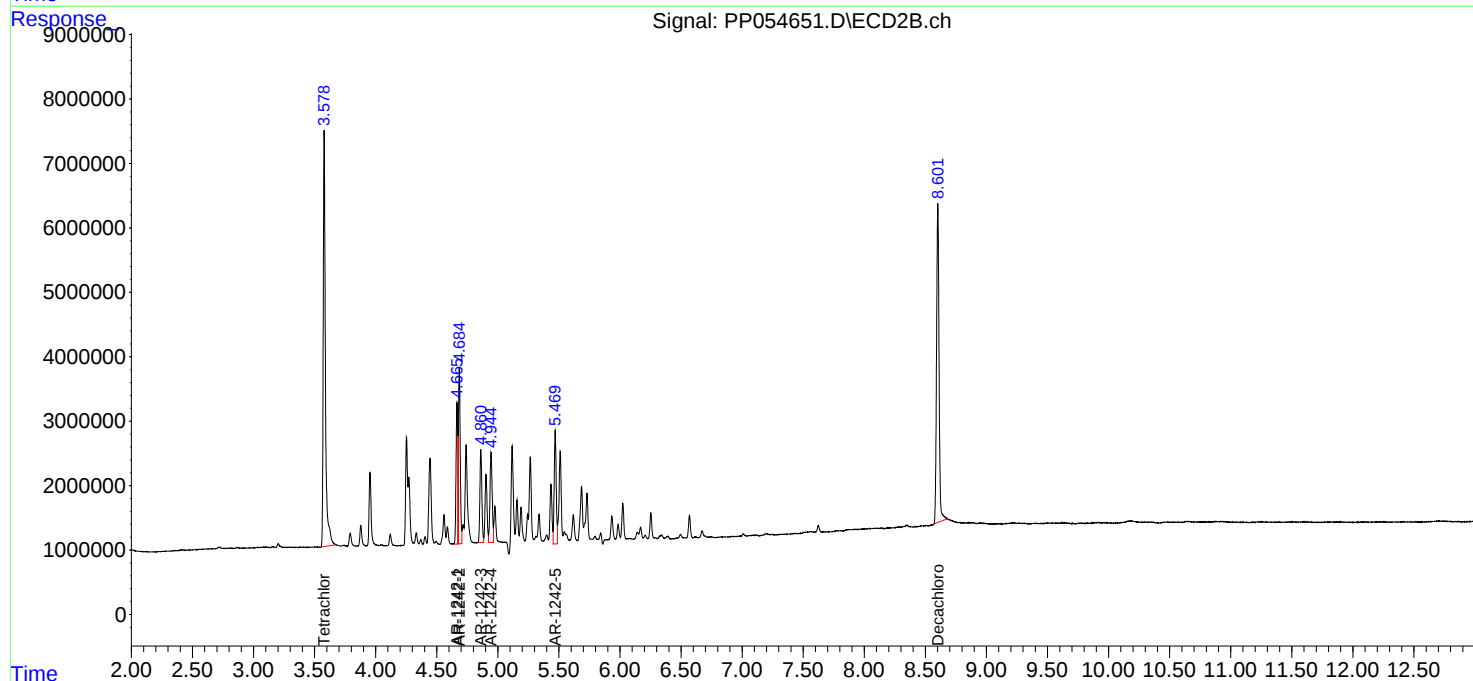
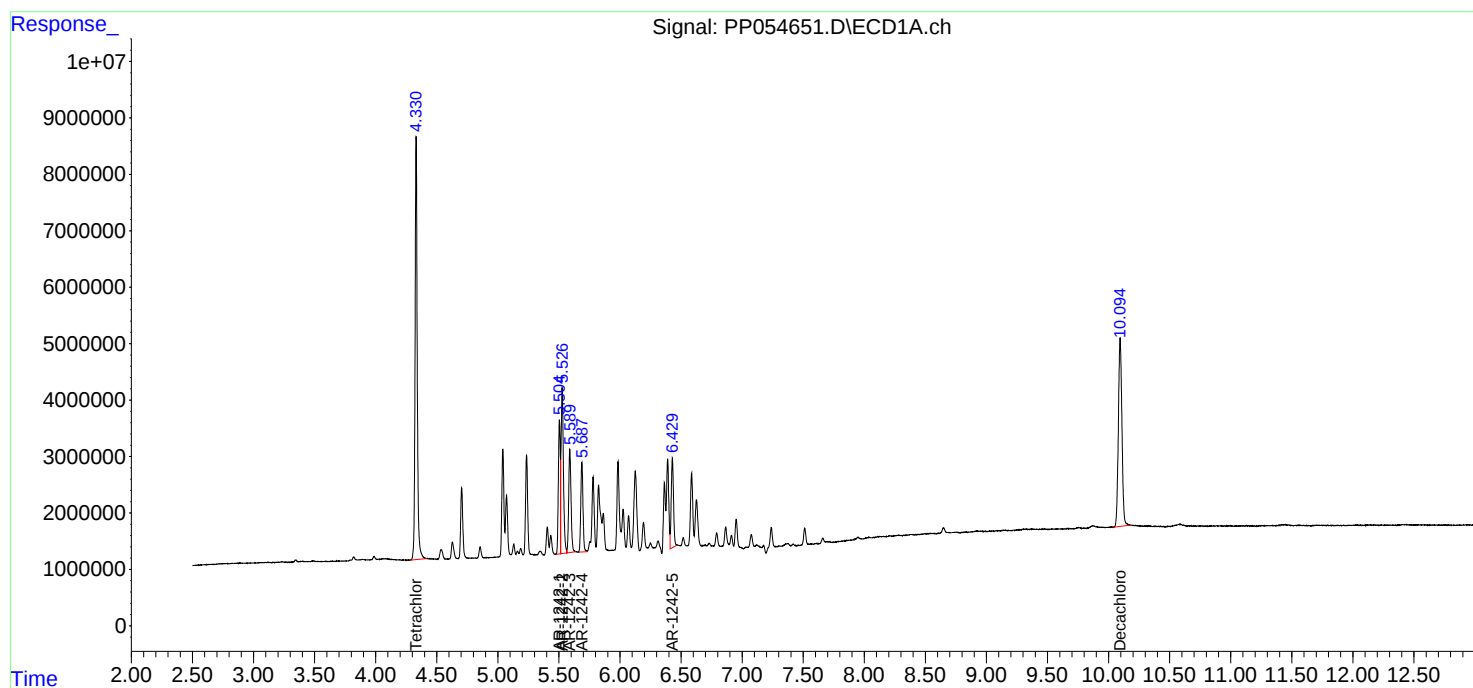
Instrument :
ECD_P
ClientSampleId :
ICVPP011723AR1242

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:03:59 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 03:22:26 2023
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\PP011723\
 Data File : PP054652.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 03:45
 Operator : YP\AJ
 Sample : AR1248ICV500
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP011723AR1248

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 04:07:32 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:07:00 2023
 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...	4.332	3.578	89882802	78870714	50.006	50.228
2) SA Decachlor...	10.096	8.602	65812772	67974011	49.411	48.659
Target Compounds						
21) L5 AR-1248-1	5.505	4.665	19655486	15837096	493.561	506.153
22) L5 AR-1248-2	5.780	4.904	28923437	23841029	487.292m	496.576
23) L5 AR-1248-3	5.985	4.945	32072867	24984708	486.023	491.654
24) L5 AR-1248-4	6.391	5.117	33516812	29016940	501.611	488.080
25) L5 AR-1248-5	6.430	5.511	32492373	24447266	499.746	481.158

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 03:45
Operator : YP\AJ
Sample : AR1248ICV500
Misc :
ALS Vial : 33 Sample Multiplier: 1

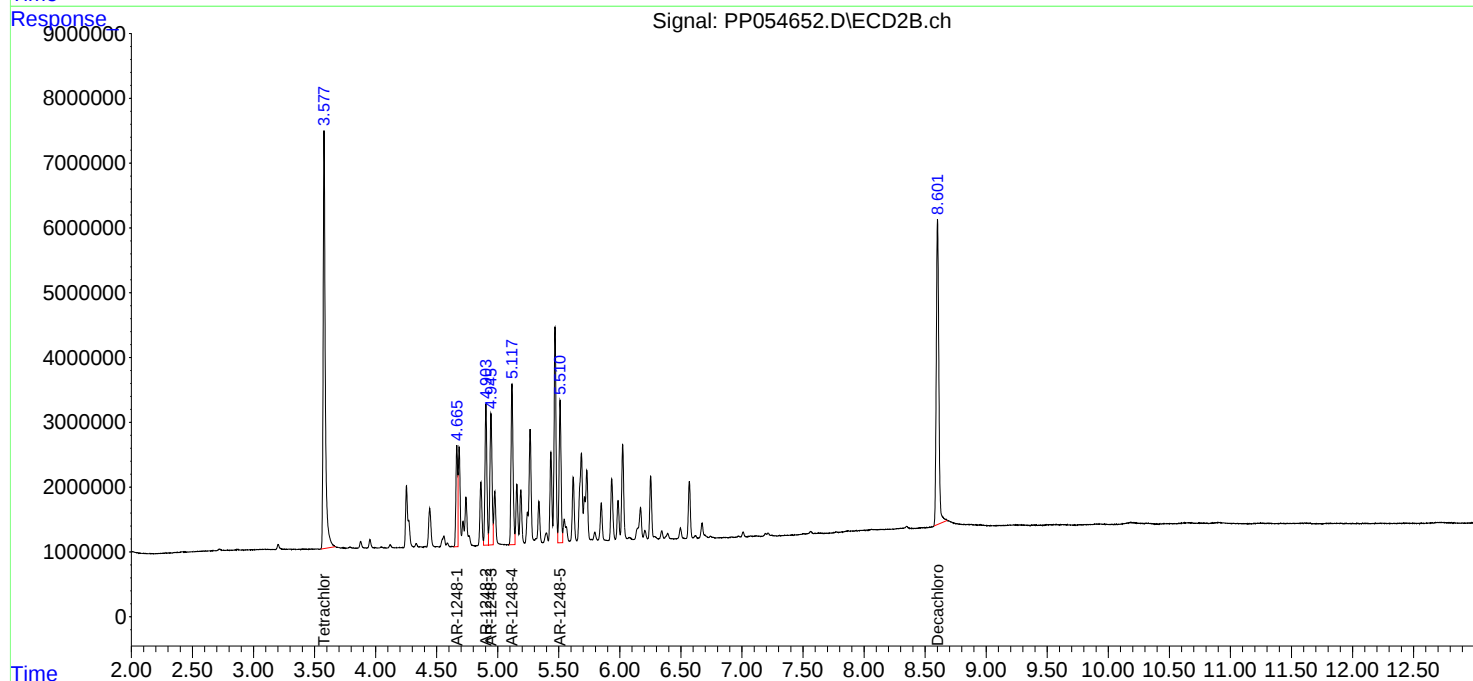
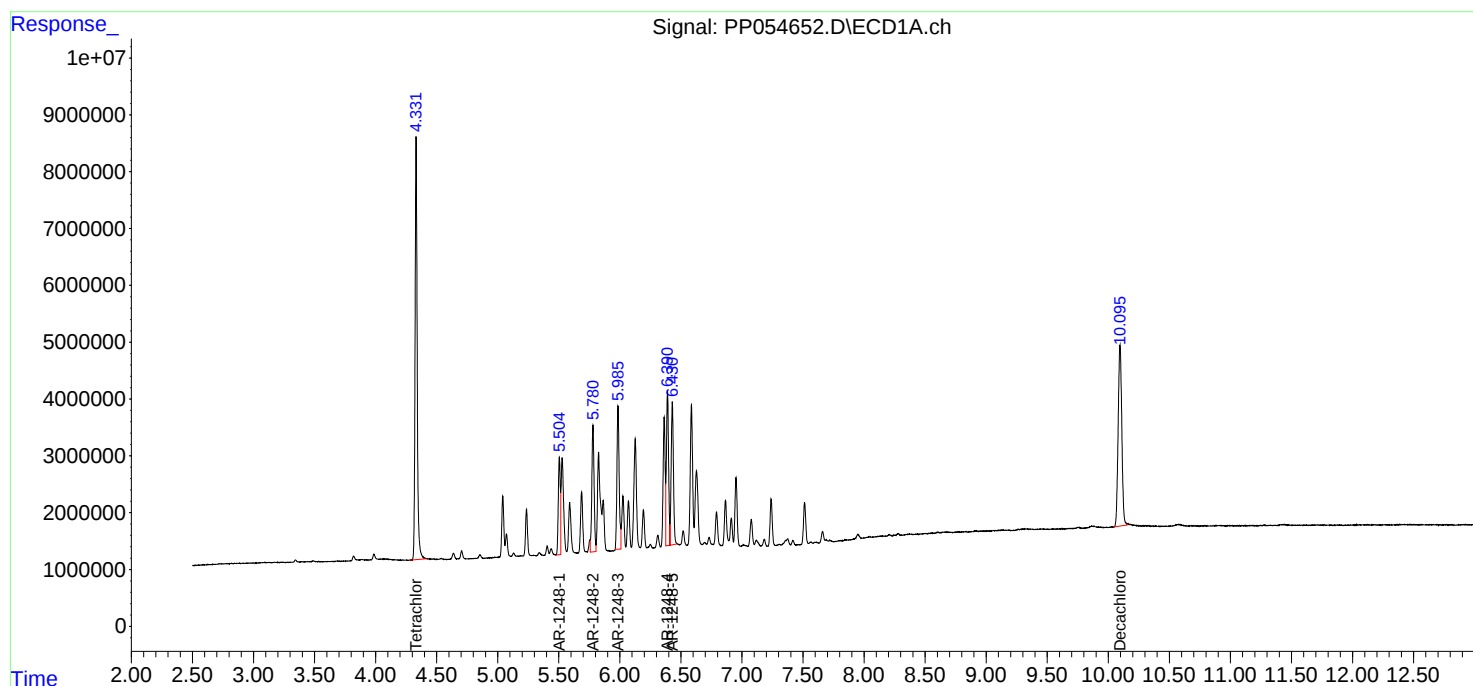
Instrument :
ECD_P
ClientSampleId :
ICVPP011723AR1248

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:07:32 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:07:00 2023
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\PP011723\
 Data File : PP054653.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 04:01
 Operator : YP\AJ
 Sample : AR1254ICV500
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP011723AR1254

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 04:13:23 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:10:39 2023
 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...	4.331	3.578	90663027	79369913	50.022	50.337
2) SA Decachlor...	10.095	8.601	66534652	68801037	49.681	49.057
Target Compounds						
26) L6 AR-1254-1	6.364	5.470	36136237	41559752	511.269	488.817
27) L6 AR-1254-2	6.583	5.619	48745612	35783741	509.285	491.752
28) L6 AR-1254-3	6.951	6.023	43249086	55973337	498.482	494.571
29) L6 AR-1254-4	7.238	6.253	31134198	31031448	496.963	498.570
30) L6 AR-1254-5	7.660	6.673	34278068	47101197	489.834	497.009

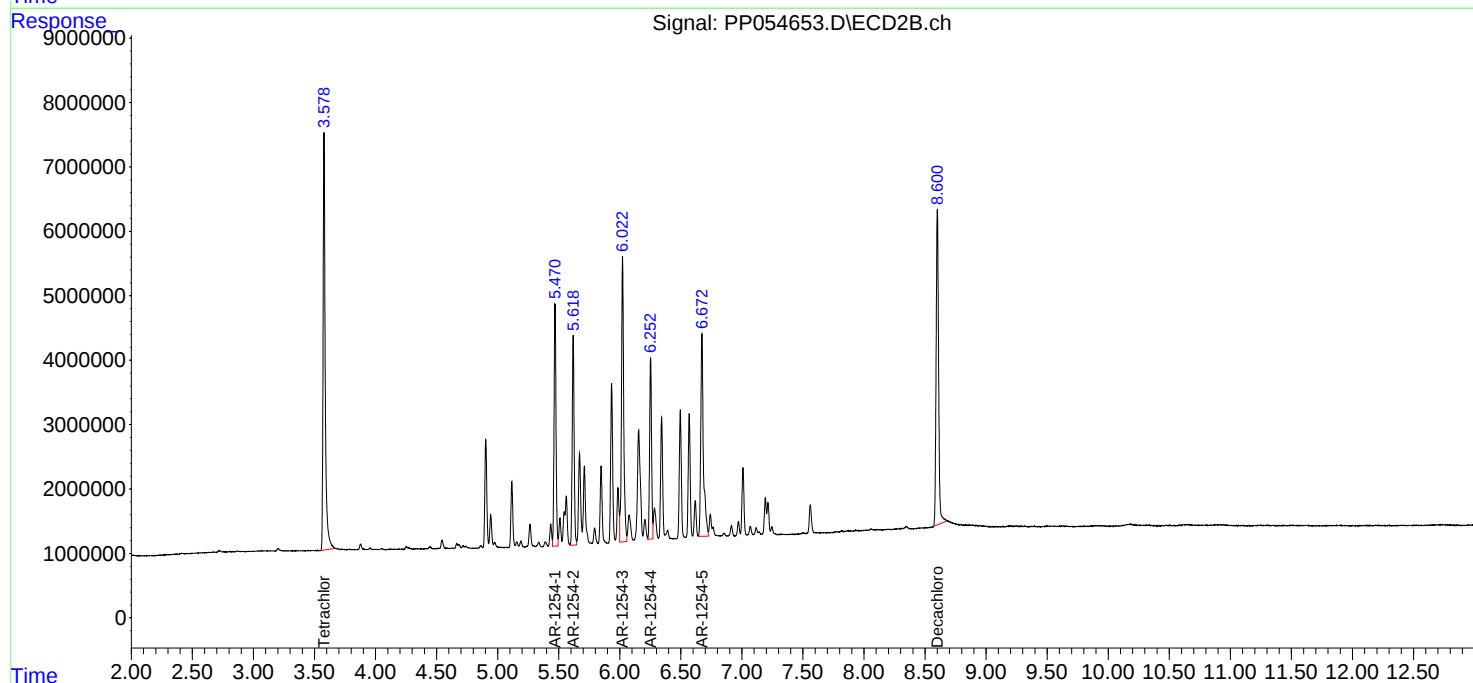
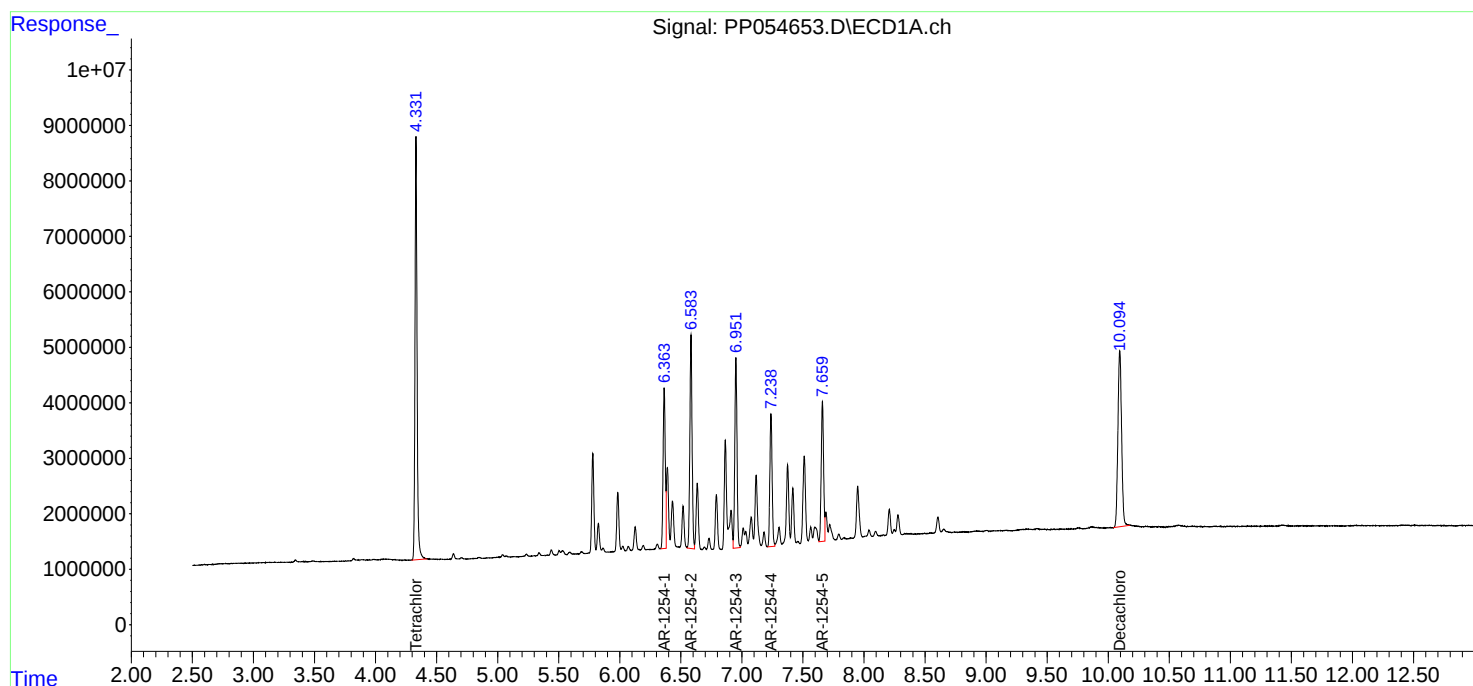
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 04:01
Operator : YP\AJ
Sample : AR1254ICV500
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
ICVPP011723AR1254

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:13:23 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:10:39 2023
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\PP011723\
 Data File : PP054654.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Jan 2023 04:18
 Operator : YP\AJ
 Sample : AR1268ICV500
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 ICVPP011723AR1268

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 01/18/2023
 Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 18 04:31:05 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:16:10 2023
 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...	4.331	3.578	90473456	78950032	49.292	49.344
2) SA Decachlor...	10.095	8.603	115.2E6	118.5E6	48.327	47.573
Target Compounds						
41) L9 AR-1268-1	8.590	7.499	89089762	103.0E6	483.047	476.518m
42) L9 AR-1268-2	8.683	7.565	81724910	93231549	482.162	475.956
43) L9 AR-1268-3	8.913	7.772	71863211	84925688	482.429	479.901
44) L9 AR-1268-4	9.338	8.060	31845104	32985730	493.302	487.677
45) L9 AR-1268-5	9.754	8.349	234.5E6	248.3E6	485.949	482.677

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jan 2023 04:18
Operator : YP\AJ
Sample : AR1268ICV500
Misc :
ALS Vial : 35 Sample Multiplier: 1

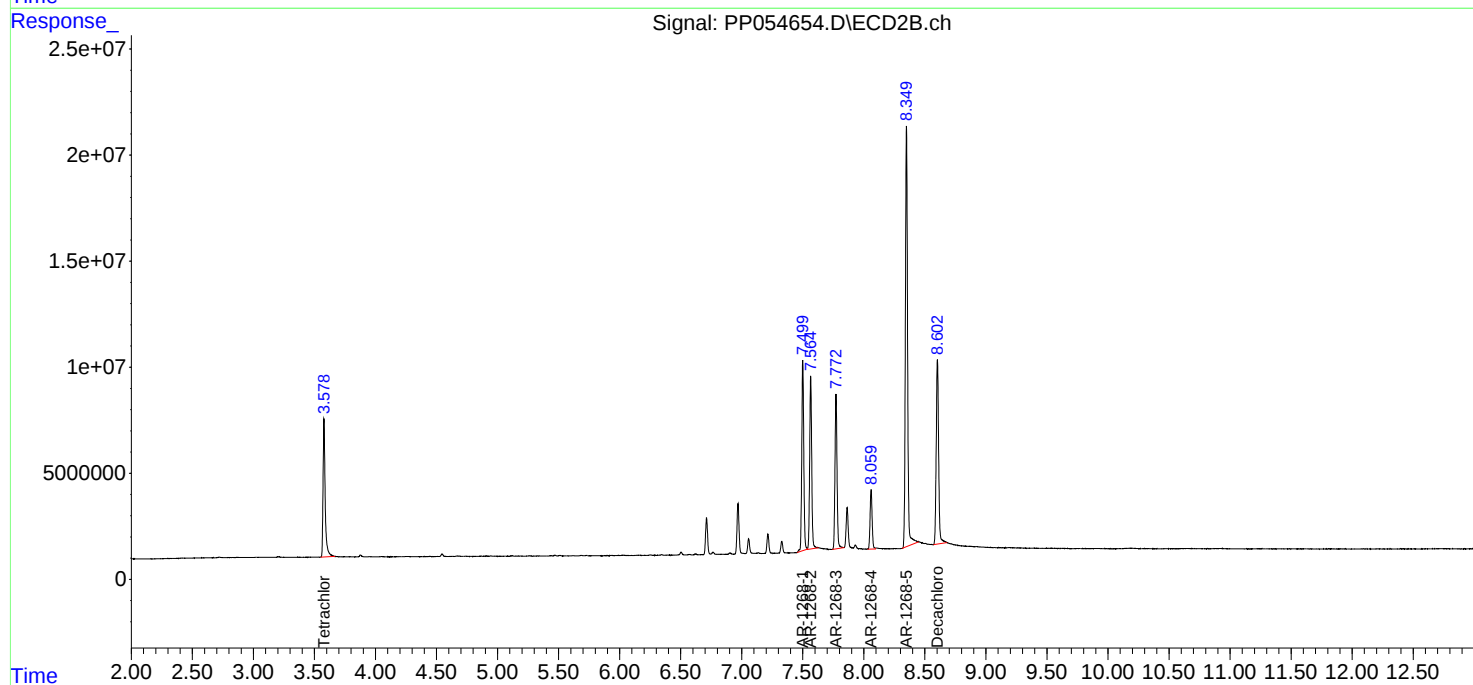
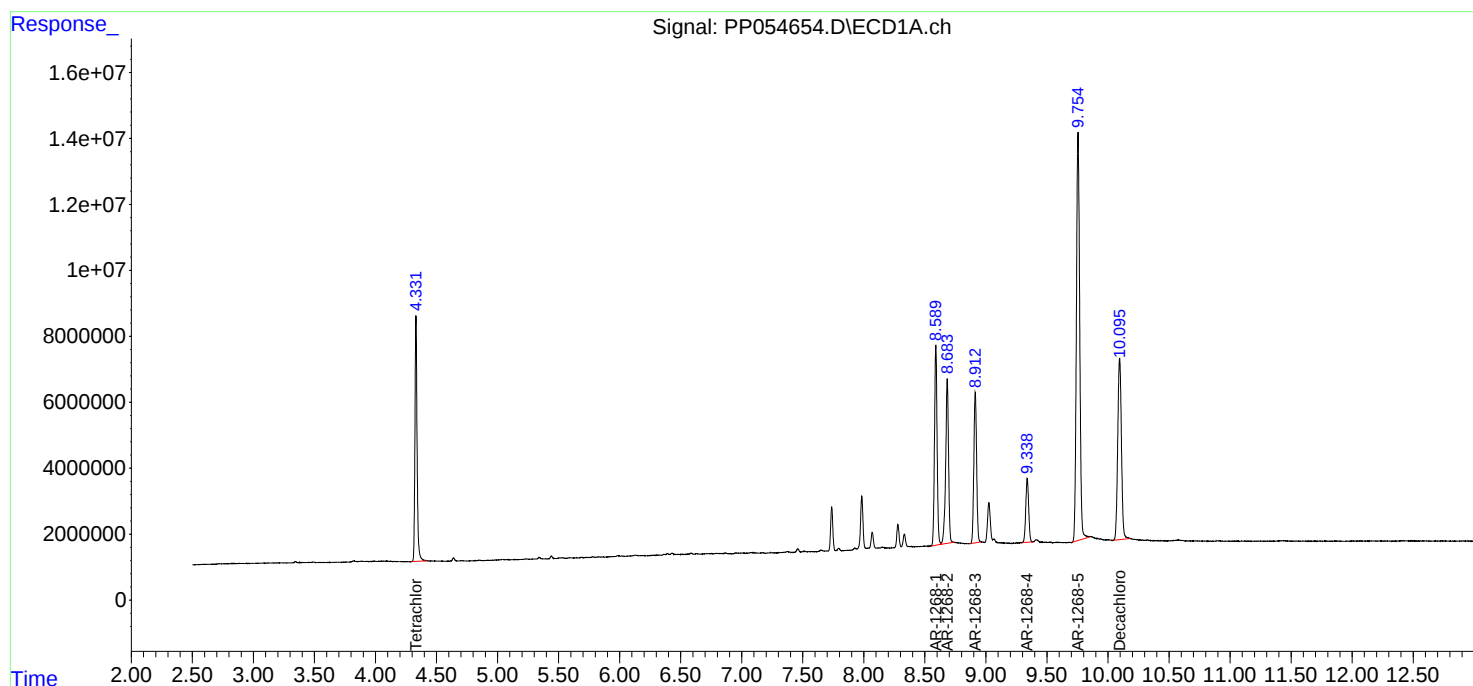
Instrument :
ECD_P
ClientSampleId :
ICVPP011723AR1268

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/18/2023
Supervised By :Ankita Jodhani 01/18/2023

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:31:05 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:16:10 2023
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, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232Continuing Calib Date: 01/20/2023 Initial Calibration Date(s): 01/17/2023 01/18/2023Continuing Calib Time: 18:26 Initial Calibration Time(s): 19:14 02:39GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.51	5.51	5.41	5.61	0.00
Aroclor-1016-2	(2)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-3	(3)	5.59	5.59	5.49	5.69	0.00
Aroclor-1016-4	(4)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-5	(5)	5.98	5.99	5.89	6.09	0.01
Aroclor-1260-1	(1)	7.12	7.12	7.02	7.22	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.96	7.96	7.86	8.06	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.33	4.33	4.23	4.43	0.00
Decachlorobiphenyl		10.10	10.09	9.99	10.19	-0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232Continuing Calib Date: 01/20/2023 Initial Calibration Date(s): 01/17/2023 01/18/2023Continuing Calib Time: 18:26 Initial Calibration Time(s): 19:14 02:39GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.67	4.67	4.57	4.77	0.00
Aroclor-1016-2	(2)	4.69	4.68	4.58	4.78	0.00
Aroclor-1016-3	(3)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-4	(4)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-5	(5)	5.12	5.12	5.02	5.22	0.00
Aroclor-1260-1	(1)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-2	(2)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-3	(3)	6.50	6.50	6.40	6.60	0.00
Aroclor-1260-4	(4)	6.97	6.97	6.87	7.07	0.00
Aroclor-1260-5	(5)	7.21	7.22	7.12	7.32	0.01
Tetrachloro-m-xylene		3.58	3.58	3.48	3.68	0.00
Decachlorobiphenyl		8.60	8.60	8.50	8.70	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/17/2023 01/17/2023Client Sample No.: CCAL01 Date Analyzed: 01/20/2023Lab Sample No.: AR1660CCC500 Data File : PP054770.D Time Analyzed: 18:26

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.505	5.405	5.605	458.730	500.000	-8.3
Aroclor-1016-2	5.527	5.427	5.627	444.190	500.000	-11.2
Aroclor-1016-3	5.590	5.490	5.690	425.180	500.000	-15.0
Aroclor-1016-4	5.688	5.588	5.788	424.530	500.000	-15.1
Aroclor-1016-5	5.984	5.885	6.085	406.460	500.000	-18.7
Aroclor-1260-1	7.117	7.017	7.217	516.460	500.000	3.3
Aroclor-1260-2	7.375	7.275	7.475	523.750	500.000	4.8
Aroclor-1260-3	7.737	7.637	7.837	518.920	500.000	3.8
Aroclor-1260-4	7.962	7.863	8.063	512.200	500.000	2.4
Aroclor-1260-5	8.280	8.181	8.381	509.420	500.000	1.9
Decachlorobiphenyl	10.095	9.994	10.194	49.100	50.000	-1.8
Tetrachloro-m-xylene	4.332	4.231	4.431	53.290	50.000	6.6



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/17/2023 01/17/2023Client Sample No.: CCAL01 Date Analyzed: 01/20/2023Lab Sample No.: AR1660CCC500 Data File : PP054770.D Time Analyzed: 18:26

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.666	4.565	4.765	516.300	500.000	3.3
Aroclor-1016-2	4.685	4.584	4.784	518.240	500.000	3.6
Aroclor-1016-3	4.861	4.761	4.961	513.600	500.000	2.7
Aroclor-1016-4	4.903	4.804	5.004	471.600	500.000	-5.7
Aroclor-1016-5	5.116	5.017	5.217	540.130	500.000	8.0
Aroclor-1260-1	6.154	6.055	6.255	492.450	500.000	-1.5
Aroclor-1260-2	6.342	6.243	6.443	501.120	500.000	0.2
Aroclor-1260-3	6.497	6.398	6.598	480.660	500.000	-3.9
Aroclor-1260-4	6.971	6.872	7.072	476.120	500.000	-4.8
Aroclor-1260-5	7.214	7.115	7.315	484.720	500.000	-3.1
Decachlorobiphenyl	8.599	8.502	8.702	46.500	50.000	-7.0
Tetrachloro-m-xylene	3.579	3.478	3.678	49.930	50.000	-0.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054770.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 18:26
 Operator : YP\AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1660CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 20 18:40:34 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.579	97853561	79923275	53.292	49.930
2) SA Decachlor...	10.095	8.599	65902629	66588807	49.098	46.499
Target Compounds						
3) L1 AR-1016-1	5.505	4.666	29708237	26005763	458.727	516.299
4) L1 AR-1016-2	5.527	4.685	41973978	36996781	444.187	518.239
5) L1 AR-1016-3	5.590	4.861	25356398	19996275	425.182	513.601
6) L1 AR-1016-4	5.688	4.903	20174174	16017356	424.529	471.596
7) L1 AR-1016-5	5.984	5.116	19678027	23665285	406.464	540.132 #
31) L7 AR-1260-1	7.117	6.154	35473397	40883363	516.458	492.452
32) L7 AR-1260-2	7.375	6.342	41884747	46125988	523.754	501.123
33) L7 AR-1260-3	7.737	6.497	31259610	43200801	518.924	480.656
34) L7 AR-1260-4	7.962	6.971	35837969	35835847	512.199	476.120
35) L7 AR-1260-5	8.280	7.214	66367227	77024262	509.422	484.722

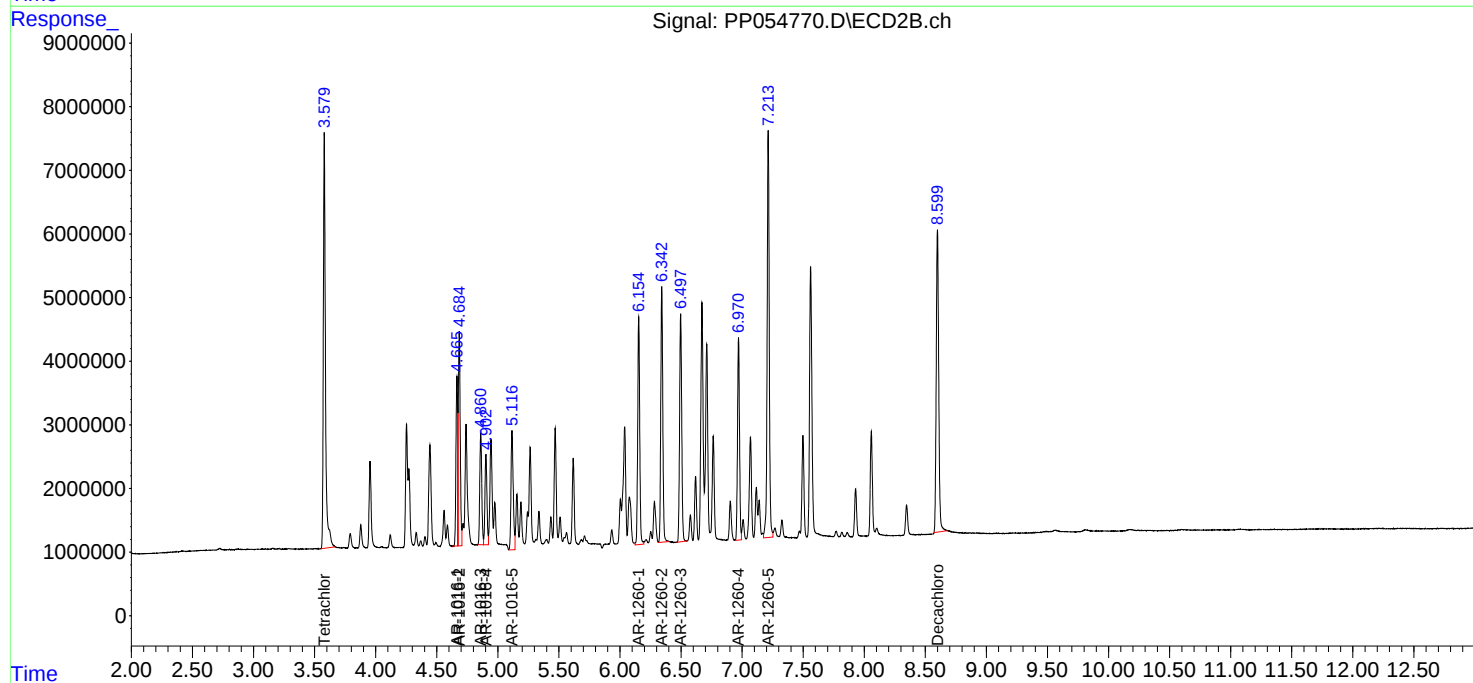
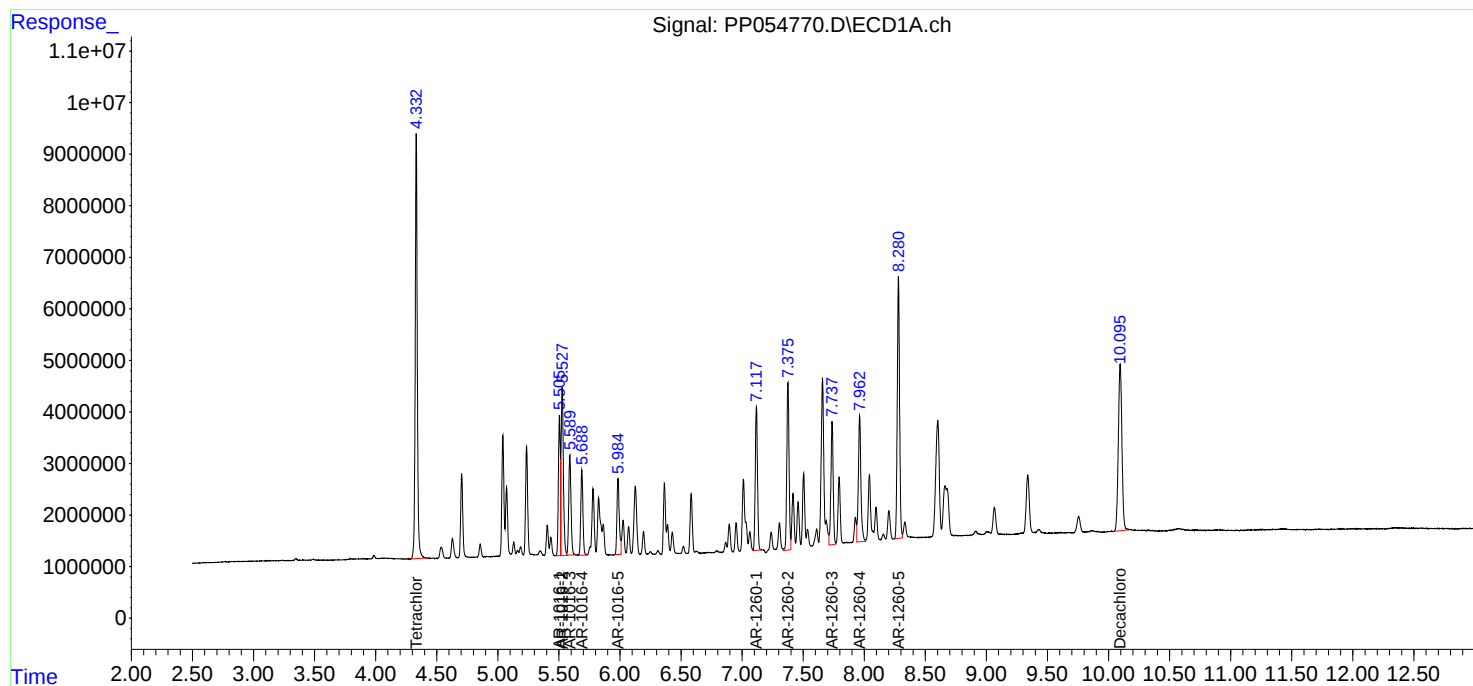
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054770.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 18:26
Operator : YP\AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 20 18:40:34 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232Continuing Calib Date: 01/21/2023 Initial Calibration Date(s): 01/17/2023 01/18/2023Continuing Calib Time: 01:05 Initial Calibration Time(s): 19:14 02:39GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.50	5.51	5.41	5.61	0.01
Aroclor-1016-2	(2)	5.53	5.53	5.43	5.63	0.00
Aroclor-1016-3	(3)	5.59	5.59	5.49	5.69	0.00
Aroclor-1016-4	(4)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-5	(5)	5.98	5.99	5.89	6.09	0.01
Aroclor-1260-1	(1)	7.12	7.12	7.02	7.22	0.00
Aroclor-1260-2	(2)	7.37	7.38	7.28	7.48	0.01
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.96	7.96	7.86	8.06	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.33	4.33	4.23	4.43	0.00
Decachlorobiphenyl		10.09	10.09	9.99	10.19	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232Continuing Calib Date: 01/21/2023 Initial Calibration Date(s): 01/17/2023 01/18/2023Continuing Calib Time: 01:05 Initial Calibration Time(s): 19:14 02:39GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1 (1)	4.67	4.67	4.57	4.77	0.01
Aroclor-1016-2 (2)	4.68	4.68	4.58	4.78	0.00
Aroclor-1016-3 (3)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-4 (4)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-5 (5)	5.12	5.12	5.02	5.22	0.00
Aroclor-1260-1 (1)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-2 (2)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-3 (3)	6.50	6.50	6.40	6.60	0.00
Aroclor-1260-4 (4)	6.97	6.97	6.87	7.07	0.00
Aroclor-1260-5 (5)	7.21	7.22	7.12	7.32	0.01
Tetrachloro-m-xylene	3.58	3.58	3.48	3.68	0.00
Decachlorobiphenyl	8.60	8.60	8.50	8.70	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/17/2023 01/17/2023Client Sample No.: CCAL02 Date Analyzed: 01/21/2023Lab Sample No.: AR1660CCC500 Data File : PP054792.D Time Analyzed: 01:05

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.504	5.405	5.605	519.700	500.000	3.9
Aroclor-1016-2	5.527	5.427	5.627	512.830	500.000	2.6
Aroclor-1016-3	5.589	5.490	5.690	508.530	500.000	1.7
Aroclor-1016-4	5.688	5.588	5.788	516.130	500.000	3.2
Aroclor-1016-5	5.984	5.885	6.085	515.860	500.000	3.2
Aroclor-1260-1	7.116	7.017	7.217	531.020	500.000	6.2
Aroclor-1260-2	7.374	7.275	7.475	501.820	500.000	0.4
Aroclor-1260-3	7.735	7.637	7.837	501.240	500.000	0.2
Aroclor-1260-4	7.961	7.863	8.063	499.040	500.000	-0.2
Aroclor-1260-5	8.278	8.181	8.381	485.150	500.000	-3.0
Decachlorobiphenyl	10.092	9.994	10.194	46.080	50.000	-7.8
Tetrachloro-m-xylene	4.333	4.231	4.431	50.890	50.000	1.8



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CALIBRATION VERIFICATION SUMMARY

Contract: loui01Lab Code: CHEM Case No.: O1232 SAS No.: O1232 SDG NO.: O1232GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/17/2023 01/17/2023Client Sample No.: CCAL02 Date Analyzed: 01/21/2023Lab Sample No.: AR1660CCC500 Data File : PP054792.D Time Analyzed: 01:05

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.665	4.565	4.765	489.800	500.000	-2.0
Aroclor-1016-2	4.684	4.584	4.784	491.850	500.000	-1.6
Aroclor-1016-3	4.860	4.761	4.961	487.940	500.000	-2.4
Aroclor-1016-4	4.902	4.804	5.004	463.880	500.000	-7.2
Aroclor-1016-5	5.116	5.017	5.217	492.150	500.000	-1.6
Aroclor-1260-1	6.153	6.055	6.255	480.180	500.000	-4.0
Aroclor-1260-2	6.342	6.243	6.443	498.600	500.000	-0.3
Aroclor-1260-3	6.496	6.398	6.598	491.130	500.000	-1.8
Aroclor-1260-4	6.970	6.872	7.072	492.710	500.000	-1.5
Aroclor-1260-5	7.213	7.115	7.315	496.280	500.000	-0.7
Decachlorobiphenyl	8.598	8.502	8.702	47.510	50.000	-5.0
Tetrachloro-m-xylene	3.579	3.478	3.678	47.200	50.000	-5.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054792.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Jan 2023 01:05
 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: Jan 21 05:58:11 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.333	3.579	93437519	75559356	50.887	47.204
2) SA Decachlor...	10.092	8.598	61851826	68033498	46.080	47.507
Target Compounds						
3) L1 AR-1016-1	5.504	4.665	33657266	24671086	519.704	489.801
4) L1 AR-1016-2	5.527	4.684	48460338	35112673	512.829	491.847
5) L1 AR-1016-3	5.589	4.860	30326984	18997044	508.530	487.936
6) L1 AR-1016-4	5.688	4.902	24527190	15755140	516.130	463.875
7) L1 AR-1016-5	5.984	5.116	24974140	21563119	515.859	492.153
31) L7 AR-1260-1	7.116	6.153	36473716	39864935	531.022	480.184
32) L7 AR-1260-2	7.374	6.342	40130270	45893586	501.815	498.598
33) L7 AR-1260-3	7.735	6.496	30194277	44142425	501.239	491.133
34) L7 AR-1260-4	7.961	6.970	34917516	37084756	499.044	492.714
35) L7 AR-1260-5	8.278	7.213	63204547	78860840	485.146	496.280

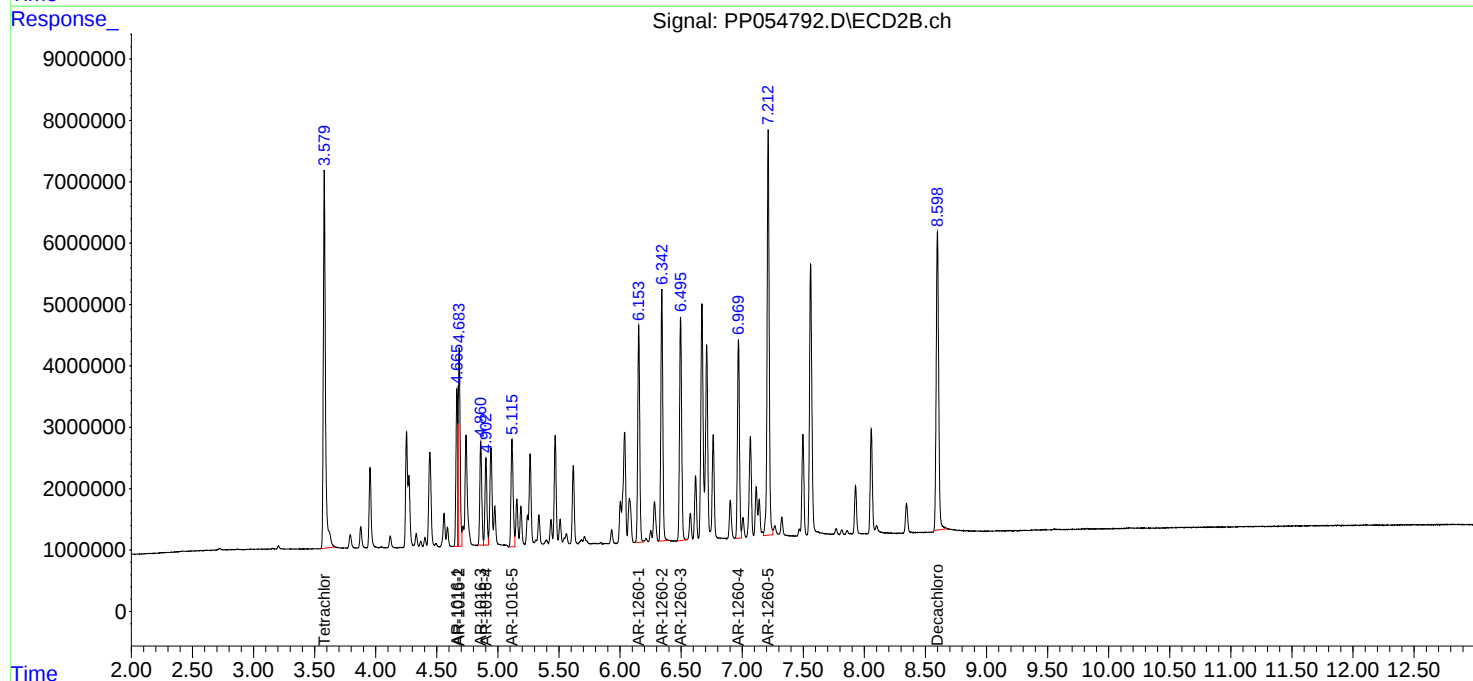
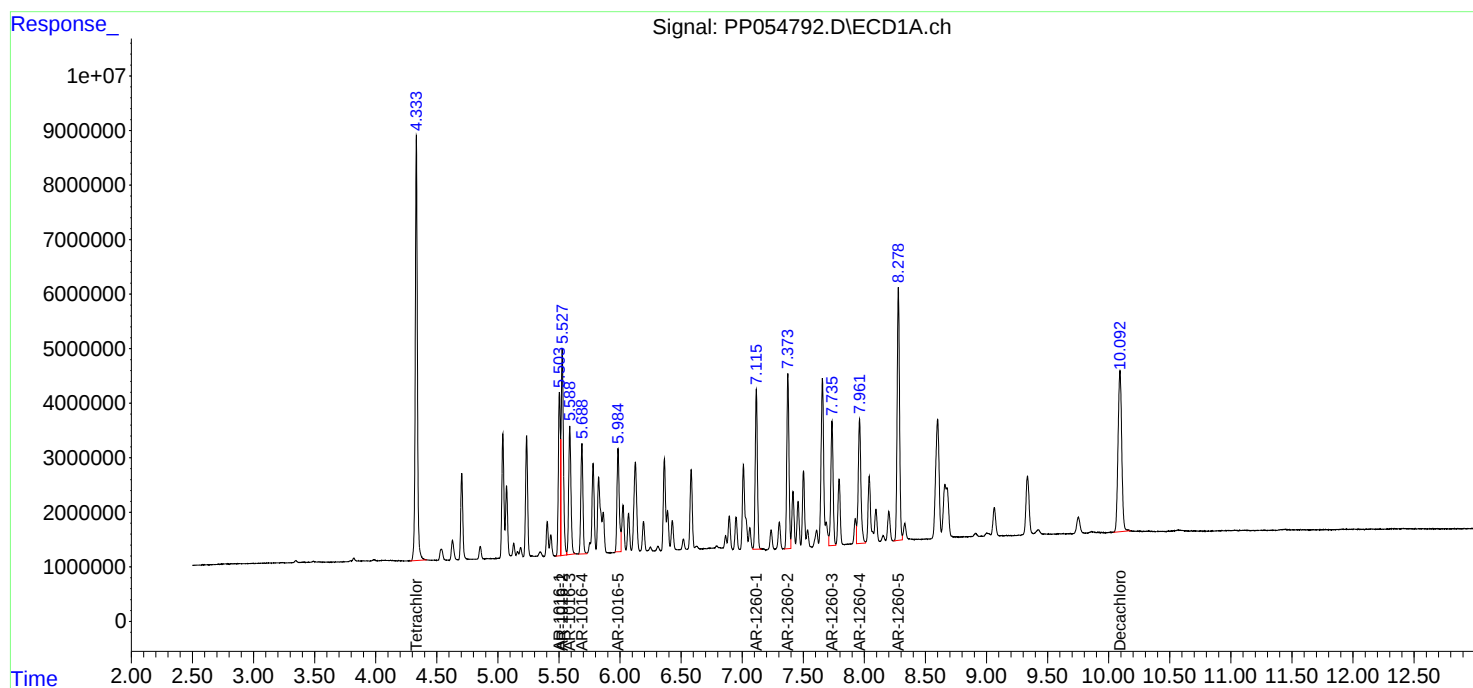
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2023 01:05
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: Jan 21 05:58:11 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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: Louis Berger U.S., Inc., A WSP Company

SDG No.: O1232

Project: NYCDDC Phase II SCI Arthur Kill Road CE

Instrument ID: ECD_P

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 01/17/2023

01/17/2023

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	01/17/2023	18:58	PP054621.D	10.10	4.33
AR1660ICC1000	AR1660ICC1000	01/17/2023	19:14	PP054622.D	10.10	4.33
AR1660ICC750	AR1660ICC750	01/17/2023	19:31	PP054623.D	10.10	4.33
AR1660ICC500	AR1660ICC500	01/17/2023	19:47	PP054624.D	10.09	4.33
AR1660ICC250	AR1660ICC250	01/17/2023	20:04	PP054625.D	10.10	4.33
AR1660ICC050	AR1660ICC050	01/17/2023	20:20	PP054626.D	10.10	4.33
AR1221ICC500	AR1221ICC500	01/17/2023	20:37	PP054627.D	10.10	4.33
AR1232ICC500	AR1232ICC500	01/17/2023	20:53	PP054628.D	10.10	4.33
AR1242ICC1000	AR1242ICC1000	01/17/2023	21:10	PP054629.D	10.10	4.33
AR1242ICC750	AR1242ICC750	01/17/2023	21:26	PP054630.D	10.10	4.33
AR1242ICC500	AR1242ICC500	01/17/2023	21:43	PP054631.D	10.10	4.33
AR1242ICC250	AR1242ICC250	01/17/2023	21:59	PP054632.D	10.10	4.33
AR1242ICC050	AR1242ICC050	01/17/2023	22:15	PP054633.D	10.10	4.33
AR1248ICC1000	AR1248ICC1000	01/17/2023	22:32	PP054634.D	10.10	4.33
AR1248ICC750	AR1248ICC750	01/17/2023	22:48	PP054635.D	10.10	4.33
AR1248ICC500	AR1248ICC500	01/17/2023	23:05	PP054636.D	10.10	4.33
AR1248ICC250	AR1248ICC250	01/17/2023	23:22	PP054637.D	10.10	4.33
AR1248ICC050	AR1248ICC050	01/17/2023	23:38	PP054638.D	10.10	4.33
AR1254ICC1000	AR1254ICC1000	01/17/2023	23:55	PP054639.D	10.10	4.33
AR1254ICC750	AR1254ICC750	01/18/2023	00:11	PP054640.D	10.10	4.33
AR1254ICC500	AR1254ICC500	01/18/2023	00:27	PP054641.D	10.10	4.33
AR1254ICC250	AR1254ICC250	01/18/2023	00:44	PP054642.D	10.10	4.33
AR1254ICC050	AR1254ICC050	01/18/2023	01:00	PP054643.D	10.10	4.33
AR1262ICC500	AR1262ICC500	01/18/2023	01:17	PP054644.D	10.10	4.33
AR1268ICC1000	AR1268ICC1000	01/18/2023	01:33	PP054645.D	10.10	4.33
AR1268ICC750	AR1268ICC750	01/18/2023	01:50	PP054646.D	10.10	4.33
AR1268ICC500	AR1268ICC500	01/18/2023	02:06	PP054647.D	10.10	4.33
AR1268ICC250	AR1268ICC250	01/18/2023	02:22	PP054648.D	10.10	4.33
AR1268ICC050	AR1268ICC050	01/18/2023	02:39	PP054649.D	10.10	4.33
AR1660CCC500	AR1660CCC500	01/20/2023	18:26	PP054770.D	10.10	4.33
IBLK	IBLK	01/20/2023	18:59	PP054771.D	10.10	4.33
PB150372BL	PB150372BL	01/20/2023	19:15	PP054772.D	10.10	4.33
PB150372BS	PB150372BS	01/20/2023	19:32	PP054773.D	10.09	4.33
B-P17A	O1232-01	01/20/2023	19:48	PP054774.D	10.09	4.33
B-P17AMS	O1232-01MS	01/20/2023	20:05	PP054775.D	10.09	4.33
B-P17AMSD	O1232-01MSD	01/20/2023	20:21	PP054776.D	10.09	4.33
B-P17B	O1232-02	01/20/2023	20:38	PP054777.D	10.09	4.33
WC-17	O1232-03	01/20/2023	20:54	PP054778.D	10.10	4.33
B-P18A	O1232-04	01/20/2023	21:11	PP054779.D	10.10	4.33
B-P18B	O1232-05	01/20/2023	21:27	PP054780.D	10.09	4.33
B-P19A	O1232-06	01/20/2023	21:43	PP054781.D	10.09	4.33
B-P19B	O1232-07	01/20/2023	22:00	PP054782.D	10.09	4.33
B-P35A	O1232-08	01/20/2023	22:16	PP054783.D	10.09	4.33
B-P35B	O1232-09	01/20/2023	22:33	PP054784.D	10.09	4.33
DUP01	O1232-10	01/20/2023	22:49	PP054785.D	10.09	4.33



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Analytical Sequence

AR1660CCC500	AR1660CCC500	01/21/2023	01:05	PP054792.D	10.09	4.33
I.BLK	I.BLK	01/21/2023	01:54	PP054793.D	10.09	4.33



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

Analytical Sequence

Client: Louis Berger U.S., Inc., A WSP Company

SDG No.: O1232

Project: NYCDDC Phase II SCI Arthur Kill Road CE

Instrument ID: ECD_P

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 01/17/2023

01/17/2023

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	01/17/2023	18:58	PP054621.D	8.60	3.58
AR1660ICC1000	AR1660ICC1000	01/17/2023	19:14	PP054622.D	8.60	3.58
AR1660ICC750	AR1660ICC750	01/17/2023	19:31	PP054623.D	8.60	3.58
AR1660ICC500	AR1660ICC500	01/17/2023	19:47	PP054624.D	8.60	3.58
AR1660ICC250	AR1660ICC250	01/17/2023	20:04	PP054625.D	8.60	3.58
AR1660ICC050	AR1660ICC050	01/17/2023	20:20	PP054626.D	8.60	3.58
AR1221ICC500	AR1221ICC500	01/17/2023	20:37	PP054627.D	8.60	3.58
AR1232ICC500	AR1232ICC500	01/17/2023	20:53	PP054628.D	8.60	3.58
AR1242ICC1000	AR1242ICC1000	01/17/2023	21:10	PP054629.D	8.60	3.58
AR1242ICC750	AR1242ICC750	01/17/2023	21:26	PP054630.D	8.60	3.58
AR1242ICC500	AR1242ICC500	01/17/2023	21:43	PP054631.D	8.60	3.58
AR1242ICC250	AR1242ICC250	01/17/2023	21:59	PP054632.D	8.60	3.58
AR1242ICC050	AR1242ICC050	01/17/2023	22:15	PP054633.D	8.60	3.58
AR1248ICC1000	AR1248ICC1000	01/17/2023	22:32	PP054634.D	8.60	3.58
AR1248ICC750	AR1248ICC750	01/17/2023	22:48	PP054635.D	8.60	3.58
AR1248ICC500	AR1248ICC500	01/17/2023	23:05	PP054636.D	8.60	3.58
AR1248ICC250	AR1248ICC250	01/17/2023	23:22	PP054637.D	8.60	3.58
AR1248ICC050	AR1248ICC050	01/17/2023	23:38	PP054638.D	8.60	3.58
AR1254ICC1000	AR1254ICC1000	01/17/2023	23:55	PP054639.D	8.60	3.58
AR1254ICC750	AR1254ICC750	01/18/2023	00:11	PP054640.D	8.60	3.58
AR1254ICC500	AR1254ICC500	01/18/2023	00:27	PP054641.D	8.60	3.58
AR1254ICC250	AR1254ICC250	01/18/2023	00:44	PP054642.D	8.60	3.58
AR1254ICC050	AR1254ICC050	01/18/2023	01:00	PP054643.D	8.60	3.58
AR1262ICC500	AR1262ICC500	01/18/2023	01:17	PP054644.D	8.60	3.58
AR1268ICC1000	AR1268ICC1000	01/18/2023	01:33	PP054645.D	8.60	3.58
AR1268ICC750	AR1268ICC750	01/18/2023	01:50	PP054646.D	8.60	3.58
AR1268ICC500	AR1268ICC500	01/18/2023	02:06	PP054647.D	8.60	3.58
AR1268ICC250	AR1268ICC250	01/18/2023	02:22	PP054648.D	8.60	3.58
AR1268ICC050	AR1268ICC050	01/18/2023	02:39	PP054649.D	8.60	3.58
AR1660CCC500	AR1660CCC500	01/20/2023	18:26	PP054770.D	8.60	3.58
IBLK	IBLK	01/20/2023	18:59	PP054771.D	8.60	3.58
PB150372BL	PB150372BL	01/20/2023	19:15	PP054772.D	8.60	3.58
PB150372BS	PB150372BS	01/20/2023	19:32	PP054773.D	8.60	3.58
B-P17A	O1232-01	01/20/2023	19:48	PP054774.D	8.60	3.58
B-P17AMS	O1232-01MS	01/20/2023	20:05	PP054775.D	8.60	3.58
B-P17AMSD	O1232-01MSD	01/20/2023	20:21	PP054776.D	8.60	3.58
B-P17B	O1232-02	01/20/2023	20:38	PP054777.D	8.60	3.58
WC-17	O1232-03	01/20/2023	20:54	PP054778.D	8.60	3.58
B-P18A	O1232-04	01/20/2023	21:11	PP054779.D	8.60	3.58
B-P18B	O1232-05	01/20/2023	21:27	PP054780.D	8.60	3.58
B-P19A	O1232-06	01/20/2023	21:43	PP054781.D	8.60	3.58
B-P19B	O1232-07	01/20/2023	22:00	PP054782.D	8.60	3.58
B-P35A	O1232-08	01/20/2023	22:16	PP054783.D	8.60	3.58
B-P35B	O1232-09	01/20/2023	22:33	PP054784.D	8.60	3.58
DUP01	O1232-10	01/20/2023	22:49	PP054785.D	8.60	3.58



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Analytical Sequence

AR1660CCC500	AR1660CCC500	01/21/2023	01:05	PP054792.D	8.60	3.58
LBLK	LBLK	01/21/2023	01:54	PP054793.D	8.60	3.58



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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB150372BS

Contract: loui01

Lab Code: CHEM Case No.: 01232 SAS No.: 01232 SDG NO.: 01232

Lab Sample ID: PB150372BS Date(s) Analyzed: 01/20/2023 01/20/2023

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 PP054773.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.504	5.454	5.554	111	104	13.45
COLUMN 1	2	5.527	5.477	5.577	107		
	3	5.589	5.539	5.639	102		
	4	5.688	5.638	5.738	102		
	5	5.984	5.934	6.034	98.4		
	1	4.665	4.615	4.715	122		
COLUMN 2	2	4.684	4.634	4.734	121	119	
	3	4.861	4.811	4.911	119		
	4	4.902	4.852	4.952	118		
	5	5.116	5.066	5.166	115		
Aroclor-1260	1	7.116	7.066	7.166	128	120	6.01
COLUMN 1	2	7.375	7.325	7.425	127		
	3	7.736	7.686	7.786	112		
	4	7.961	7.911	8.011	119		
	5	8.279	8.229	8.329	114		
	1	6.153	6.103	6.203	117		
COLUMN 2	2	6.343	6.293	6.393	120	113	
	3	6.496	6.446	6.546	117		
	4	6.97	6.92	7.02	103		
	5	7.213	7.163	7.263	106		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

B-P-17AMS

Contract: loui01

Lab Code: CHEM Case No.: 01232 SAS No.: 01232 SDG NO.: 01232

Lab Sample ID: 01232-01MS Date(s) Analyzed: 01/20/2023 01/20/2023

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 PP054775.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.504	5.454	5.554	158	148	16.15
COLUMN 1	2	5.527	5.477	5.577	153		
	3	5.589	5.539	5.639	145		
	4	5.688	5.638	5.738	144		
	5	5.984	5.934	6.034	141		
	1	4.665	4.615	4.715	178		
COLUMN 2	2	4.684	4.634	4.734	176	174	
	3	4.86	4.81	4.91	175		
	4	4.903	4.853	4.953	171		
	5	5.117	5.067	5.167	168		
Aroclor-1260	1	7.116	7.066	7.166	174	161	3.15
COLUMN 1	2	7.375	7.325	7.425	172		
	3	7.736	7.686	7.786	148		
	4	7.962	7.912	8.012	161		
	5	8.279	8.229	8.329	151		
	1	6.154	6.104	6.204	164		
COLUMN 2	2	6.342	6.292	6.392	167	156	
	3	6.496	6.446	6.546	164		
	4	6.97	6.92	7.02	141		
	5	7.214	7.164	7.264	144		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

B-P-17AMSD

Contract: loui01

Lab Code: CHEM Case No.: 01232 SAS No.: 01232 SDG NO.: 01232

Lab Sample ID: 01232-01MSD Date(s) Analyzed: 01/20/2023 01/20/2023

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 PP054776.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.504	5.454	5.554	157	148	15
COLUMN 1	2	5.527	5.477	5.577	153		
	3	5.589	5.539	5.639	145		
	4	5.688	5.638	5.738	143		
	5	5.984	5.934	6.034	141		
	1	4.665	4.615	4.715	176		
COLUMN 2	2	4.684	4.634	4.734	175	172	
	3	4.86	4.81	4.91	174		
	4	4.902	4.852	4.952	169		
	5	5.116	5.066	5.166	167		
Aroclor-1260	1	7.116	7.066	7.166	175	161	2.52
COLUMN 1	2	7.375	7.325	7.425	172		
	3	7.735	7.685	7.785	147		
	4	7.961	7.911	8.011	161		
	5	8.279	8.229	8.329	151		
	1	6.153	6.103	6.203	165	157	
COLUMN 2	2	6.342	6.292	6.392	169		
	3	6.496	6.446	6.546	165		
	4	6.97	6.92	7.02	143		
	5	7.213	7.163	7.263	146		



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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

WC-17

Contract: loui01

Lab Code: CHEM Case No.: 01232 SAS No.: 01232 SDG NO.: 01232

Lab Sample ID: 01232-03 Date(s) Analyzed: 01/20/2023 01/20/2023

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 PP054778.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1242	1	5.505	5.455	5.555	32.1	32.7	26.29
COLUMN 1	2	5.527	5.477	5.577	46.7		
	3	5.591	5.541	5.641	19.6		
	4	5.688	5.638	5.738	41.5		
	5	6.43	6.38	6.48	23.5		
COLUMN 2	1	4.666	4.616	4.716	35.2	42.6	
	2	4.684	4.634	4.734	52.7		
	3	4.861	4.811	4.911	49.9		
	4	4.945	4.895	4.995	51.1		
	5	5.47	5.42	5.52	24.1		



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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

B-P-18B

Contract: loui01

Lab Code: CHEM Case No.: 01232 SAS No.: 01232 SDG NO.: 01232

Lab Sample ID: 01232-05 Date(s) Analyzed: 01/20/2023 01/20/2023

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 PP054780.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1242	1	5.505	5.455	5.555	17.2	16.9	18.77
COLUMN 1	2	5.527	5.477	5.577	24.2		
	3	5.59	5.54	5.64	13.8		
	4	5.688	5.638	5.738	15.0		
	5	6.429	6.379	6.479	14.5		
	1	4.665	4.615	4.715	17.2		
COLUMN 2	2	4.684	4.634	4.734	22.3	20.4	
	3	4.861	4.811	4.911	22.5		
	4	4.947	4.897	4.997	19.4		
	5	5.47	5.42	5.52	20.4		

QC SAMPLE DATA



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:		
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:		
Client Sample ID:	PB150372BL		SDG No.:	O1232	
Lab Sample ID:	PB150372BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30	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
PP054772.D	1	01/20/23 10:35	01/20/23 19:15	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.10	U	3.10	17.0	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	17.0	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	17.0	ug/kg
53469-21-9	Aroclor-1242	2.40	U	2.40	17.0	ug/kg
12672-29-6	Aroclor-1248	3.00	U	3.00	17.0	ug/kg
11097-69-1	Aroclor-1254	4.20	U	4.20	17.0	ug/kg
37324-23-5	Aroclor-1262	3.30	U	3.30	17.0	ug/kg
11100-14-4	Aroclor-1268	5.70	U	5.70	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	16.6		40 - 162	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		32 - 176	88%	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\PP012023\
Data File : PP054772.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 19:15
Operator : YP\AJ
Sample : PB150332BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB150332BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:46:18 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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...	4.333	3.580	30447893	24084727	16.582	15.046
2)	SA Decachlor...	10.095	8.600	23557106	23749945	17.550	16.584

Target Compounds

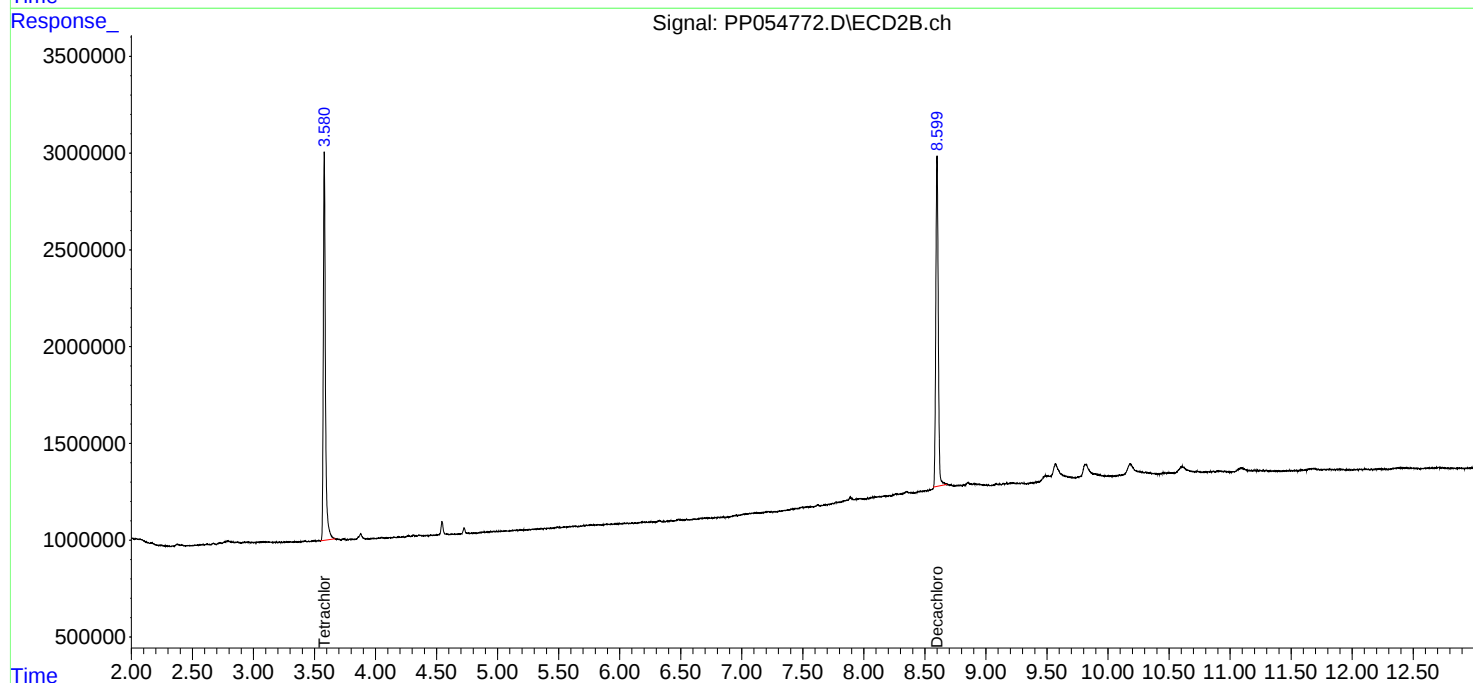
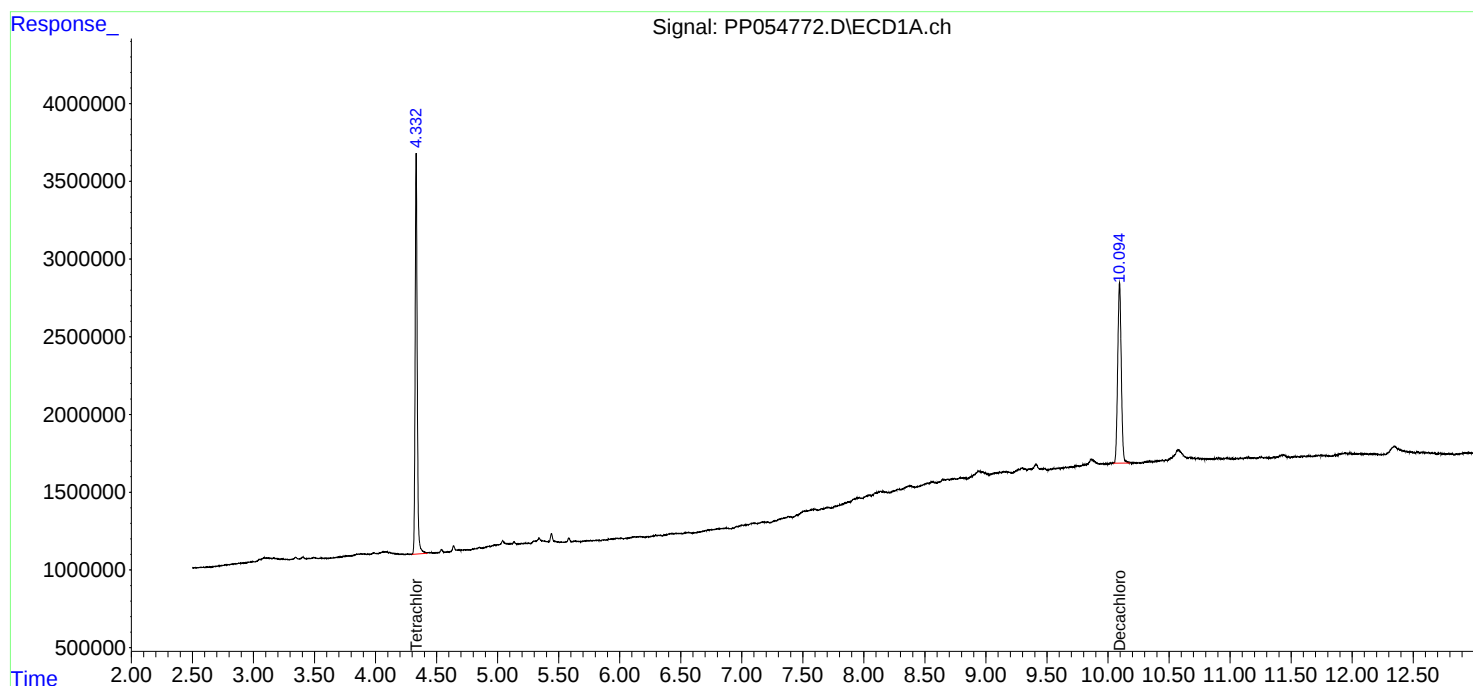
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

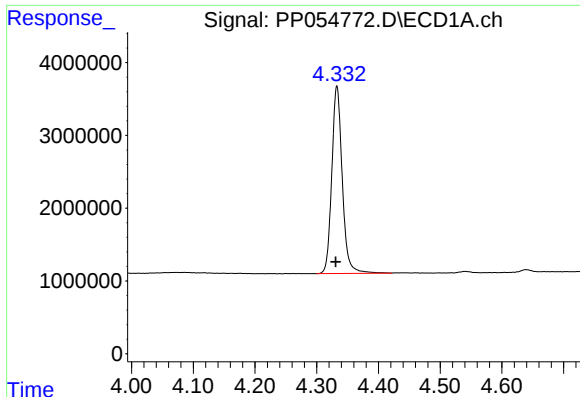
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054772.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 19:15
Operator : YP\AJ
Sample : PB150332BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB150332BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:46:18 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

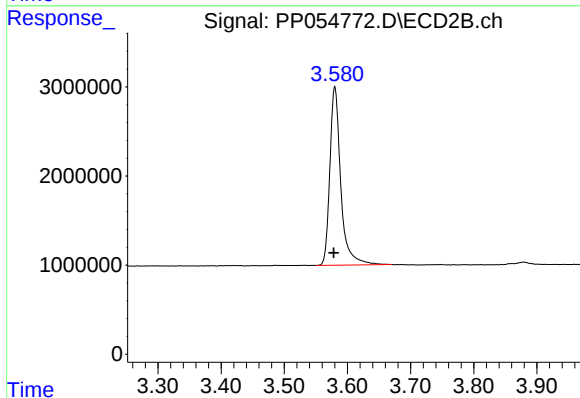




#1 Tetrachloro-m-xylene

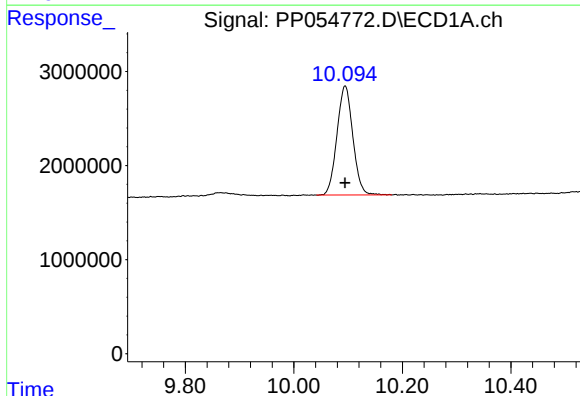
R.T.: 4.333 min
Delta R.T.: 0.002 min
Response: 30447893
Conc: 16.58 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB150332BL



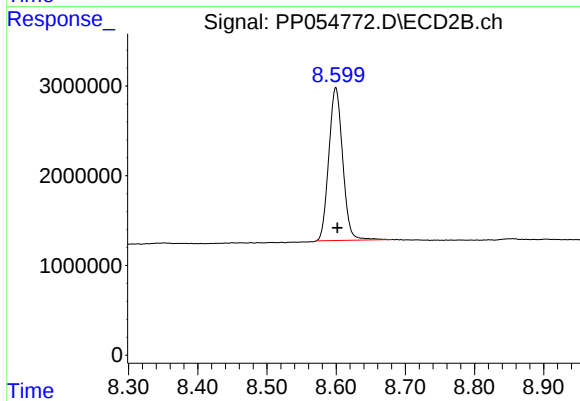
#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 24084727
Conc: 15.05 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.095 min
Delta R.T.: 0.000 min
Response: 23557106
Conc: 17.55 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.600 min
Delta R.T.: -0.003 min
Response: 23749945
Conc: 16.58 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/17/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/17/23	
Client Sample ID:	PIBLK-PP054621.D		SDG No.:	O1232	
Lab Sample ID:	I.BLK-PP054621.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP054621.D	1		01/17/23	PP011723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.14	U	0.14	0.50	ug/L
11104-28-2	Aroclor-1221	0.14	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.17	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.22	U	0.22	0.50	ug/L
11096-82-5	Aroclor-1260	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.17	U	0.17	0.50	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.4		60 - 140	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.6		60 - 140	123%	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\PP011723\
Data File : PP054621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 18:58
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: Jan 18 04:38:23 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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...	4.332	3.579	42030264	35926119	22.890	22.444
2) SA Decachlor...	10.096	8.603	33093433	35519870	24.655	24.803

Target Compounds

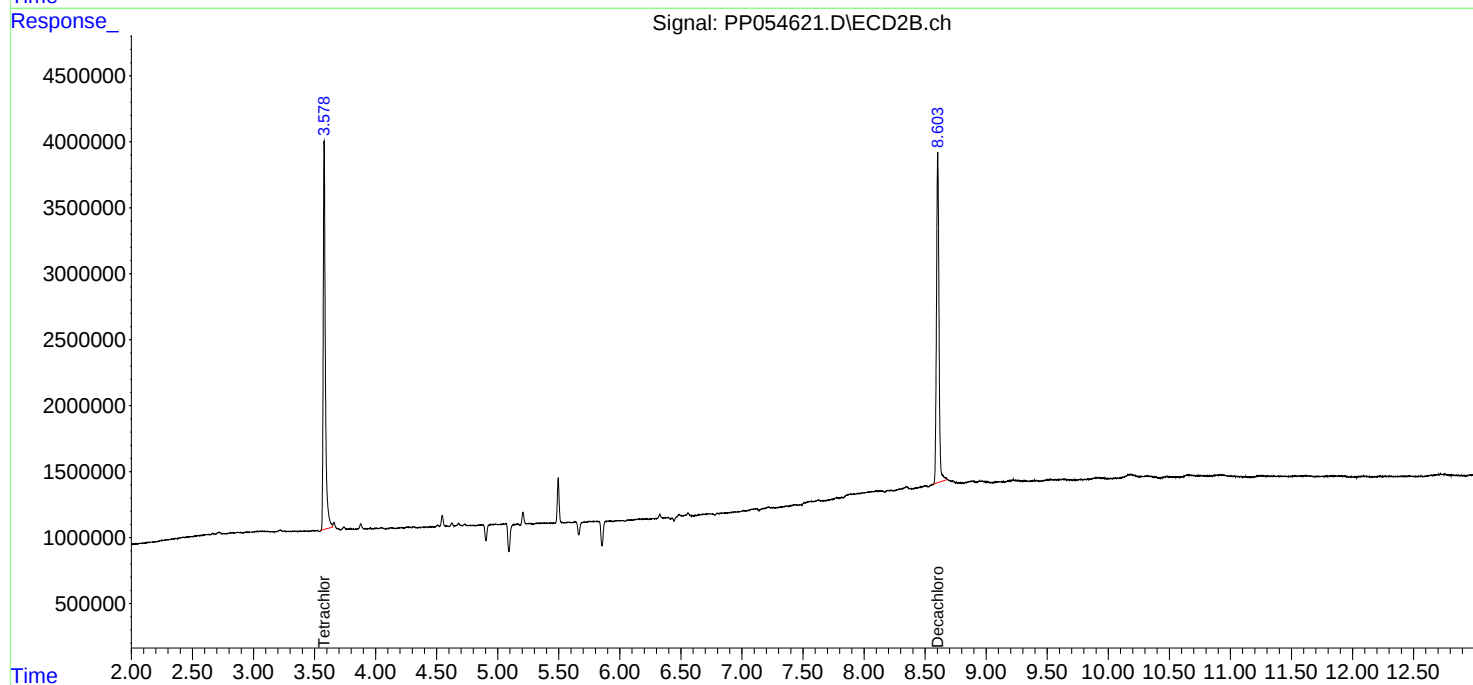
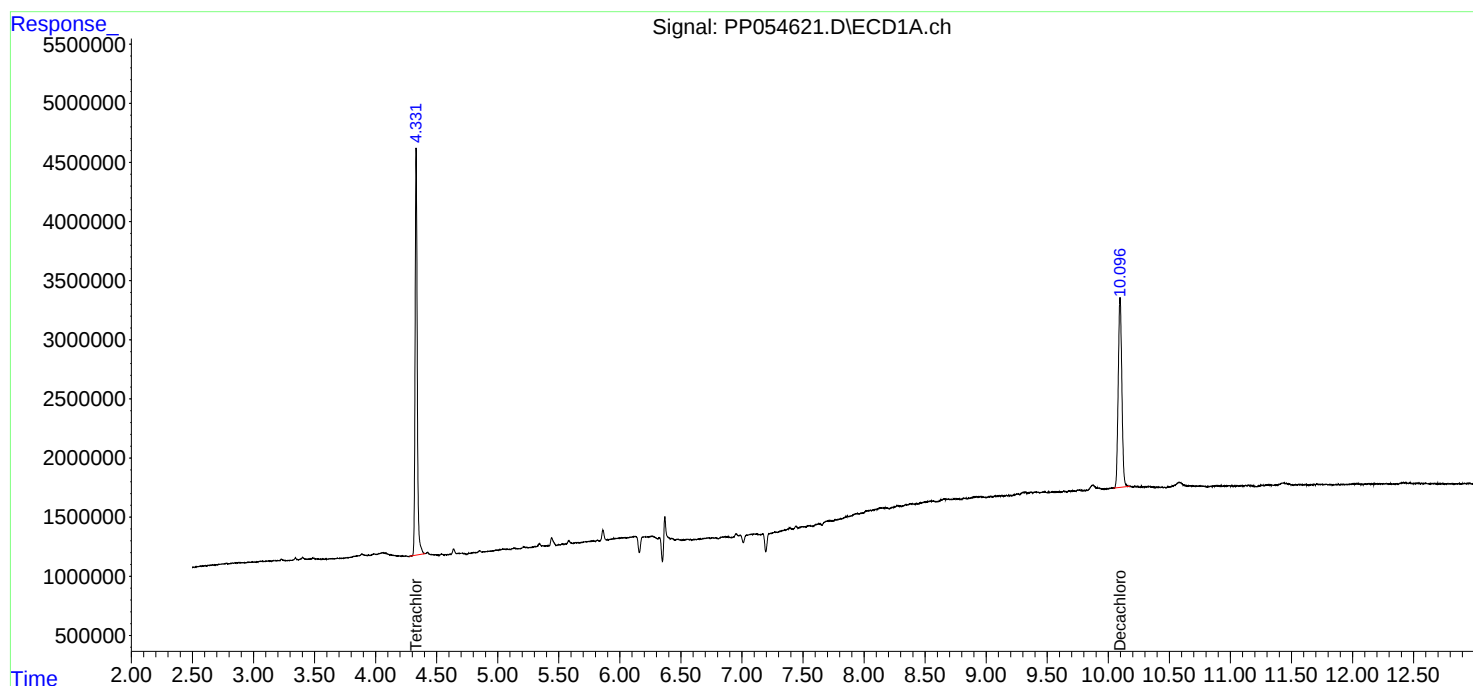
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

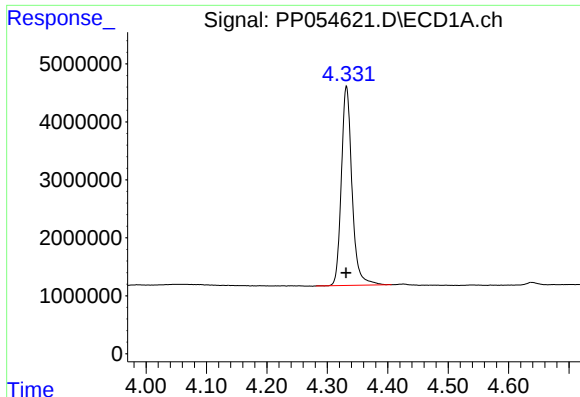
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP011723\
Data File : PP054621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Jan 2023 18:58
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 18 04:38:23 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

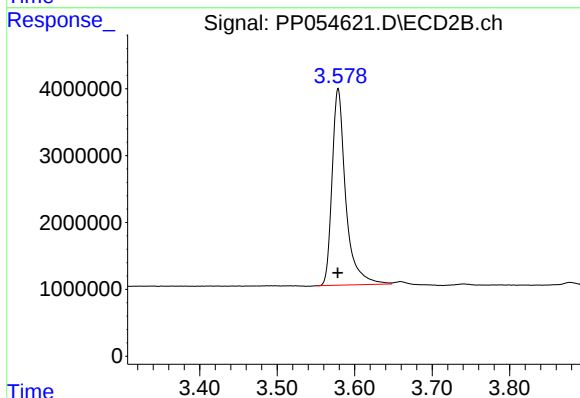




#1 Tetrachloro-m-xylene

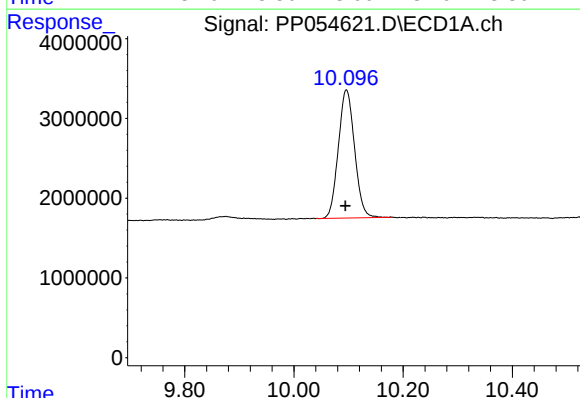
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 42030264
Conc: 22.89 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



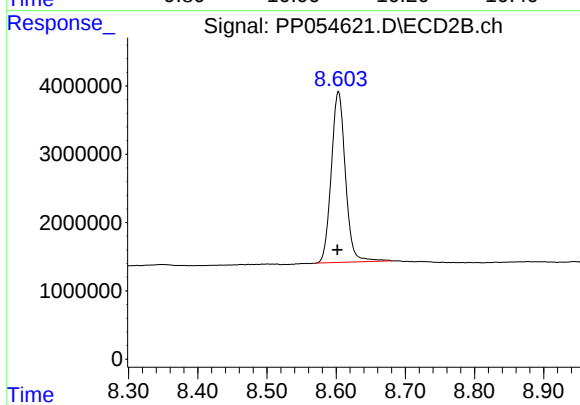
#1 Tetrachloro-m-xylene

R.T.: 3.579 min
Delta R.T.: 0.000 min
Response: 35926119
Conc: 22.44 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.096 min
Delta R.T.: 0.002 min
Response: 33093433
Conc: 24.65 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.603 min
Delta R.T.: 0.001 min
Response: 35519870
Conc: 24.80 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/20/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/20/23	
Client Sample ID:	PIBLK-PP054771.D		SDG No.:	O1232	
Lab Sample ID:	I.BLK-PP054771.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP054771.D	1		01/20/23	pp012023

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.14	U	0.14	0.50	ug/L
11104-28-2	Aroclor-1221	0.14	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.17	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.22	U	0.22	0.50	ug/L
11096-82-5	Aroclor-1260	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.17	U	0.17	0.50	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		60 - 140	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		60 - 140	106%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054771.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 18:59
 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: Jan 21 05:45:36 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.334	3.580	39926904	32009458	21.745	19.997
2)	SA Decachlor...	10.095	8.600	29851839	30417245	22.240	21.240

Target Compounds

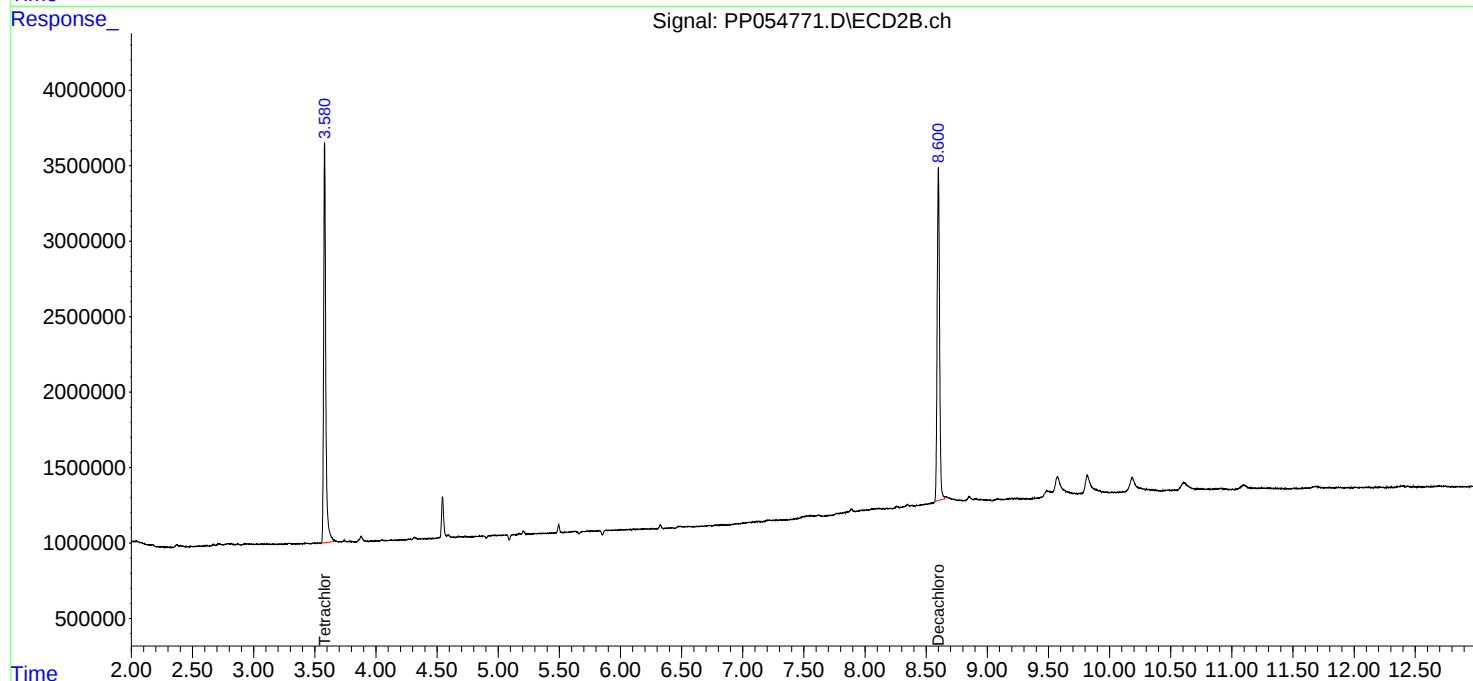
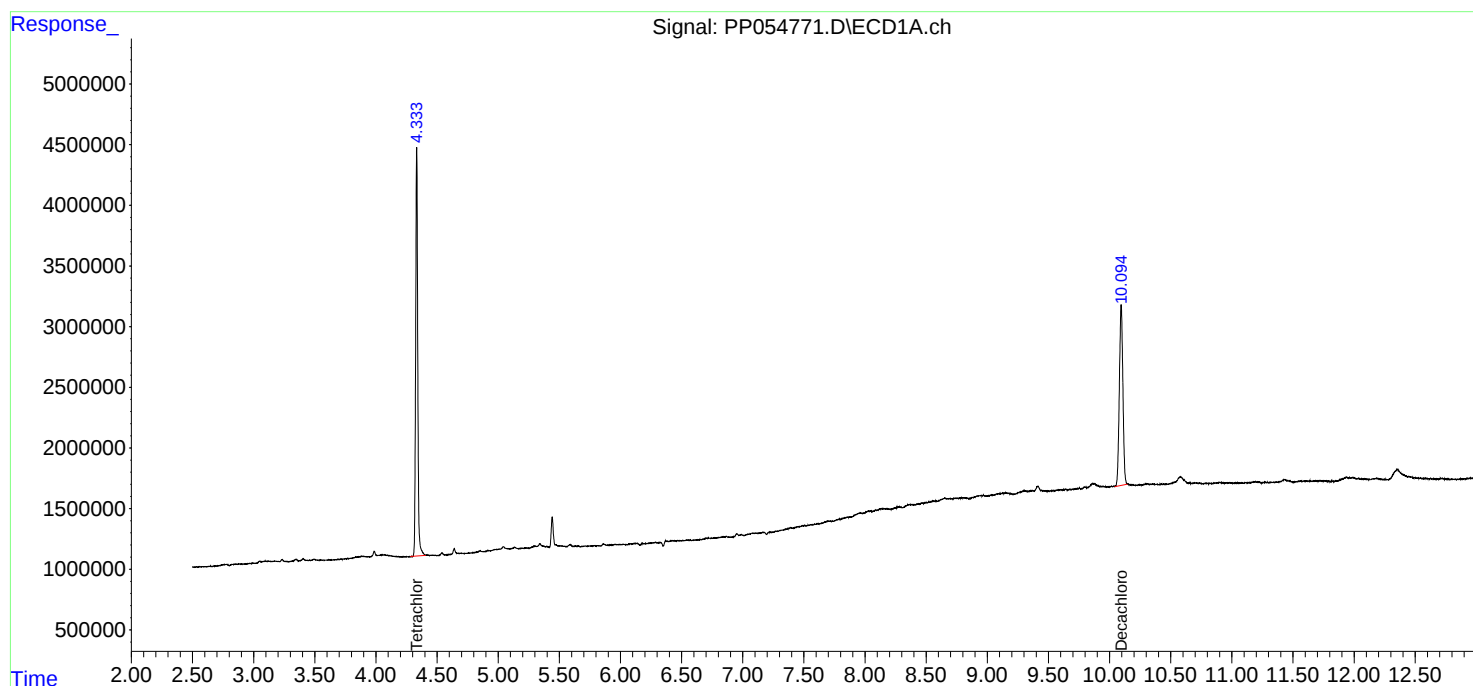
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

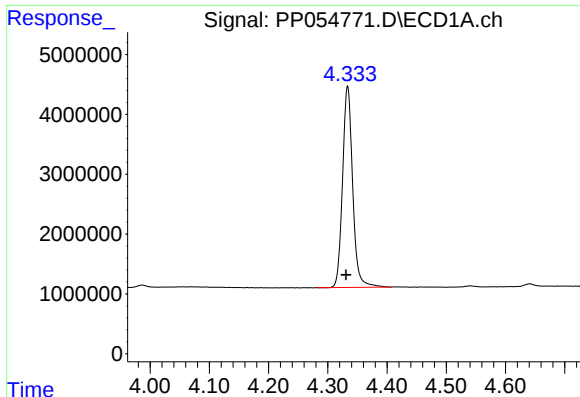
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054771.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 18:59
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:45:36 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

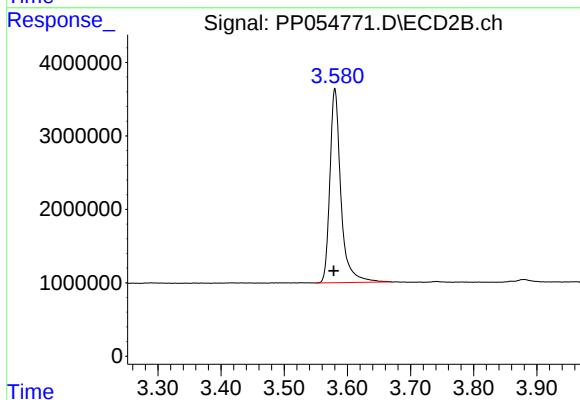




#1 Tetrachloro-m-xylene

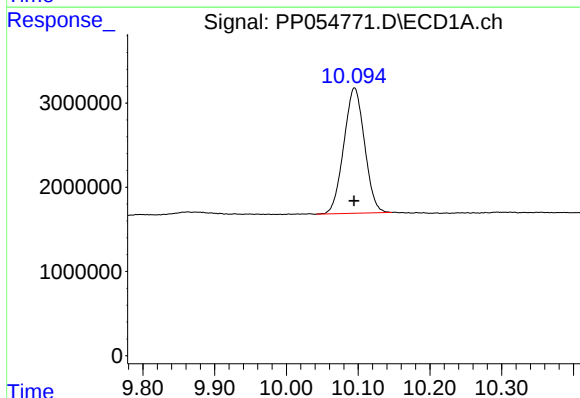
R.T.: 4.334 min
Delta R.T.: 0.003 min
Response: 39926904
Conc: 21.74 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



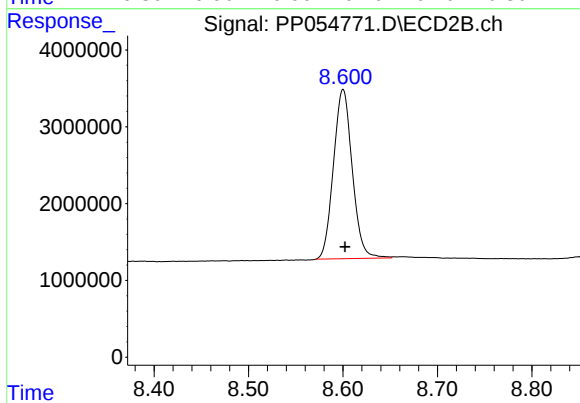
#1 Tetrachloro-m-xylene

R.T.: 3.580 min
Delta R.T.: 0.002 min
Response: 32009458
Conc: 20.00 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.095 min
Delta R.T.: 0.000 min
Response: 29851839
Conc: 22.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 30417245
Conc: 21.24 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/21/23	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/21/23	
Client Sample ID:	PIBLK-PP054793.D		SDG No.:	O1232	
Lab Sample ID:	I.BLK-PP054793.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP054793.D	1		01/21/23	pp012023

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.14	U	0.14	0.50	ug/L
11104-28-2	Aroclor-1221	0.14	U	0.14	0.50	ug/L
11141-16-5	Aroclor-1232	0.17	U	0.17	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.22	U	0.22	0.50	ug/L
11096-82-5	Aroclor-1260	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.17	U	0.17	0.50	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.0		60 - 140	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		60 - 140	117%	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\PP012023\
Data File : PP054793.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2023 01:54
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: Jan 21 05:58:48 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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...	4.332	3.579	42392541	33684171	23.088	21.043
2) SA Decachlor...	10.092	8.598	31537390	34541353	23.496	24.120

Target Compounds

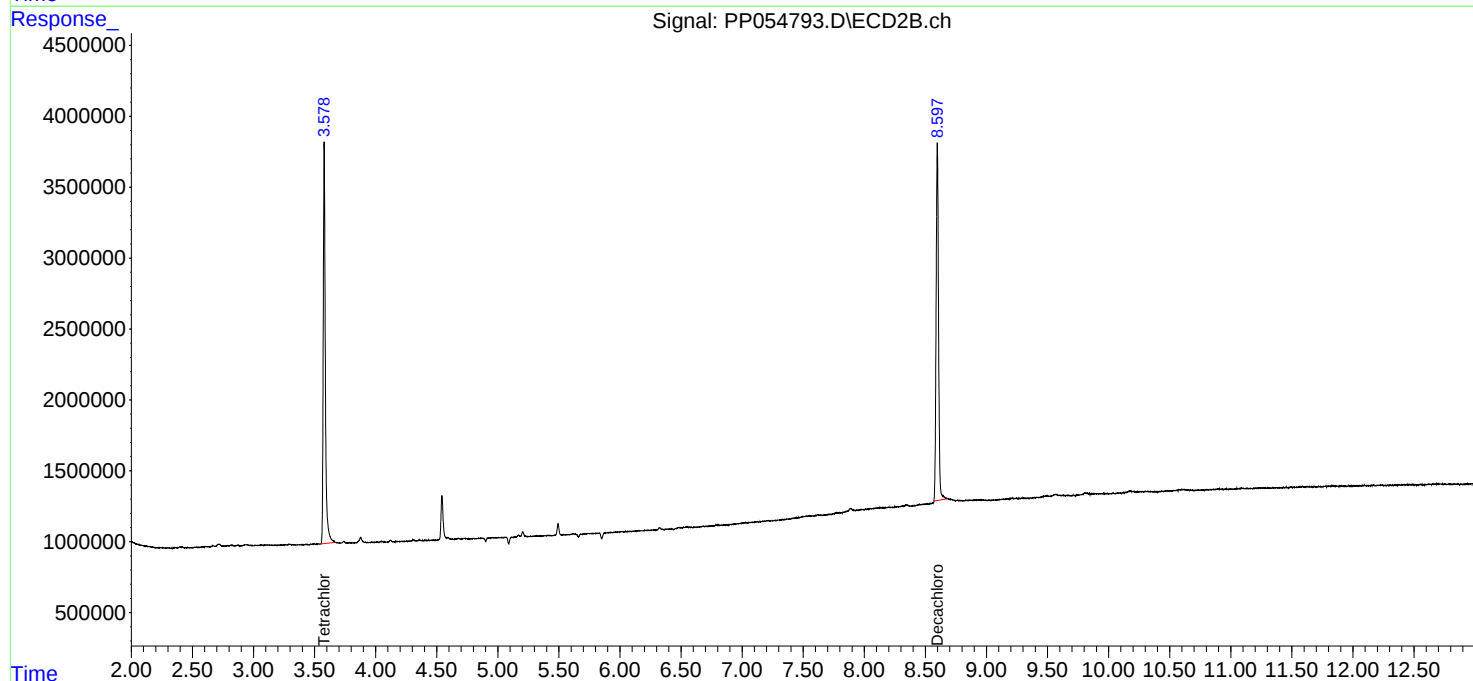
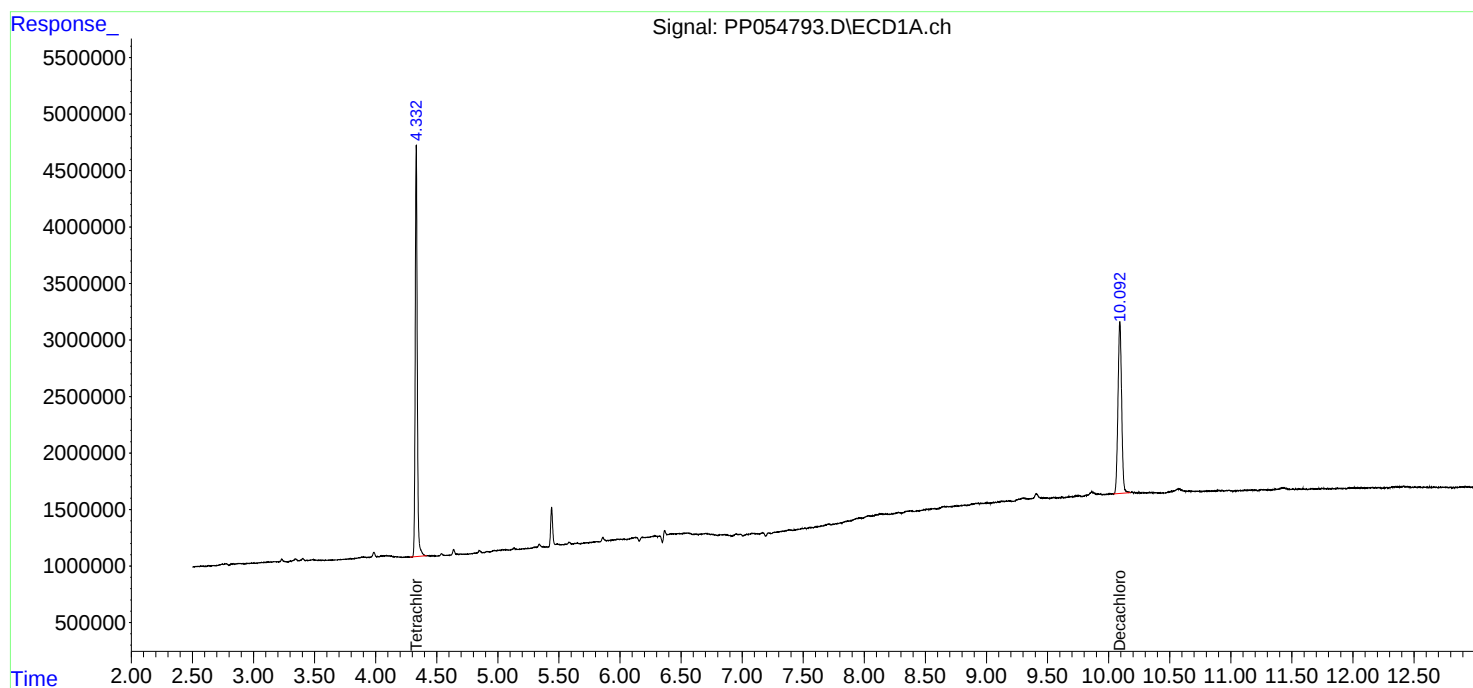
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

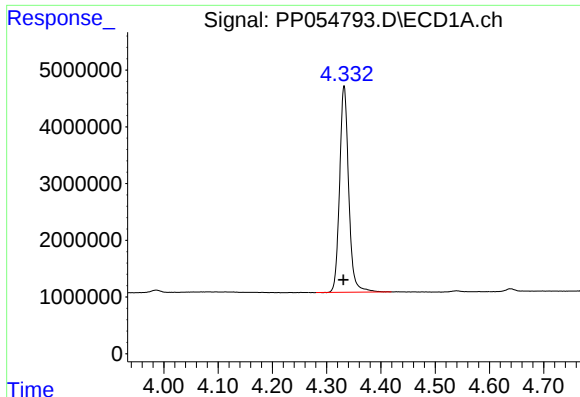
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054793.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jan 2023 01:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:58:48 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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

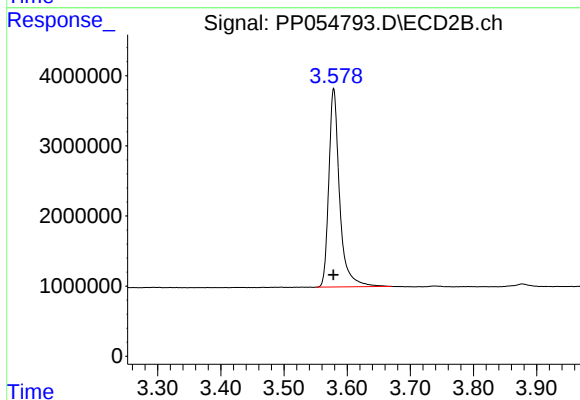




#1 Tetrachloro-m-xylene

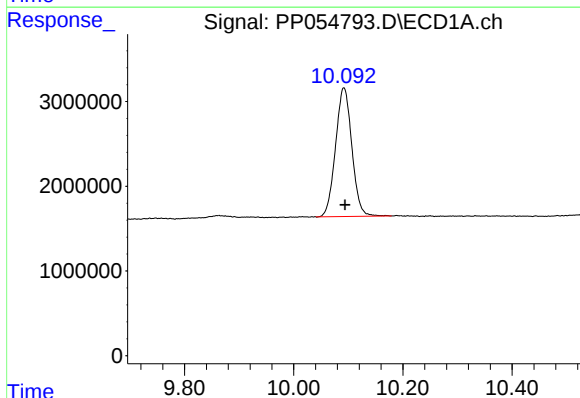
R.T.: 4.332 min
Delta R.T.: 0.001 min
Response: 42392541
Conc: 23.09 ng/ml

Instrument :
ECD_P
ClientSampleId :
I.BLK



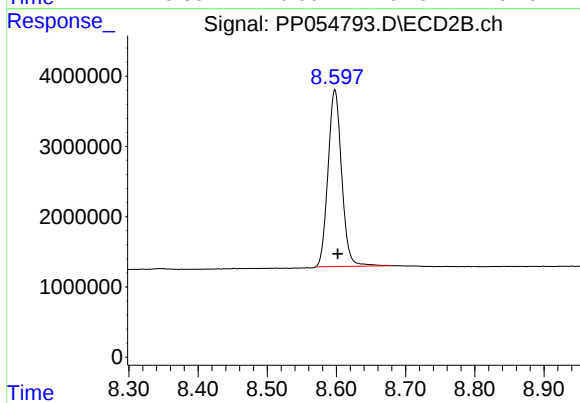
#1 Tetrachloro-m-xylene

R.T.: 3.579 min
Delta R.T.: 0.000 min
Response: 33684171
Conc: 21.04 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.092 min
Delta R.T.: -0.002 min
Response: 31537390
Conc: 23.50 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 34541353
Conc: 24.12 ng/ml



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:		
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:		
Client Sample ID:	PB150372BS		SDG No.:	O1232	
Lab Sample ID:	PB150372BS		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
PP054773.D	1	01/20/23 10:35	01/20/23 19:32	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	119		3.00	17.0	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	17.0	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	17.0	ug/kg
53469-21-9	Aroclor-1242	2.40	U	2.40	17.0	ug/kg
12672-29-6	Aroclor-1248	3.00	U	3.00	17.0	ug/kg
11097-69-1	Aroclor-1254	4.20	U	4.20	17.0	ug/kg
37324-23-5	Aroclor-1262	3.30	U	3.30	17.0	ug/kg
11100-14-4	Aroclor-1268	5.70	U	5.70	17.0	ug/kg
11096-82-5	Aroclor-1260	120		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.1		40 - 162	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.2		32 - 176	91%	SPK: 20

Comments:

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

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of 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\PP012023\
 Data File : PP054773.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 19:32
 Operator : YP\AJ
 Sample : PB150332BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 PB150332BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:47:03 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.580	31480676	23365471	17.145	14.597
2) SA Decachlor...	10.093	8.599	24389388	24807761	18.170	17.323
Target Compounds						
3) L1 AR-1016-1	5.504	4.665	21675265	18399460	334.689	365.289
4) L1 AR-1016-2	5.527	4.684	30455720	25905207	322.296	362.872
5) L1 AR-1016-3	5.589	4.861	18290131	13895711	306.693	356.909
6) L1 AR-1016-4	5.688	4.902	14514543	12032446	305.432	354.269
7) L1 AR-1016-5	5.984	5.116	14307135	15103940	295.524	344.730
31) L7 AR-1260-1	7.116	6.153	26477737	29137079	385.490	350.964
32) L7 AR-1260-2	7.375	6.343	30563173	33123125	382.182	359.857
33) L7 AR-1260-3	7.736	6.496	20212513	31677807	335.537	352.450
34) L7 AR-1260-4	7.961	6.970	25009929	23359121	357.444	310.353
35) L7 AR-1260-5	8.279	7.213	44452084	50680463	341.206	318.937

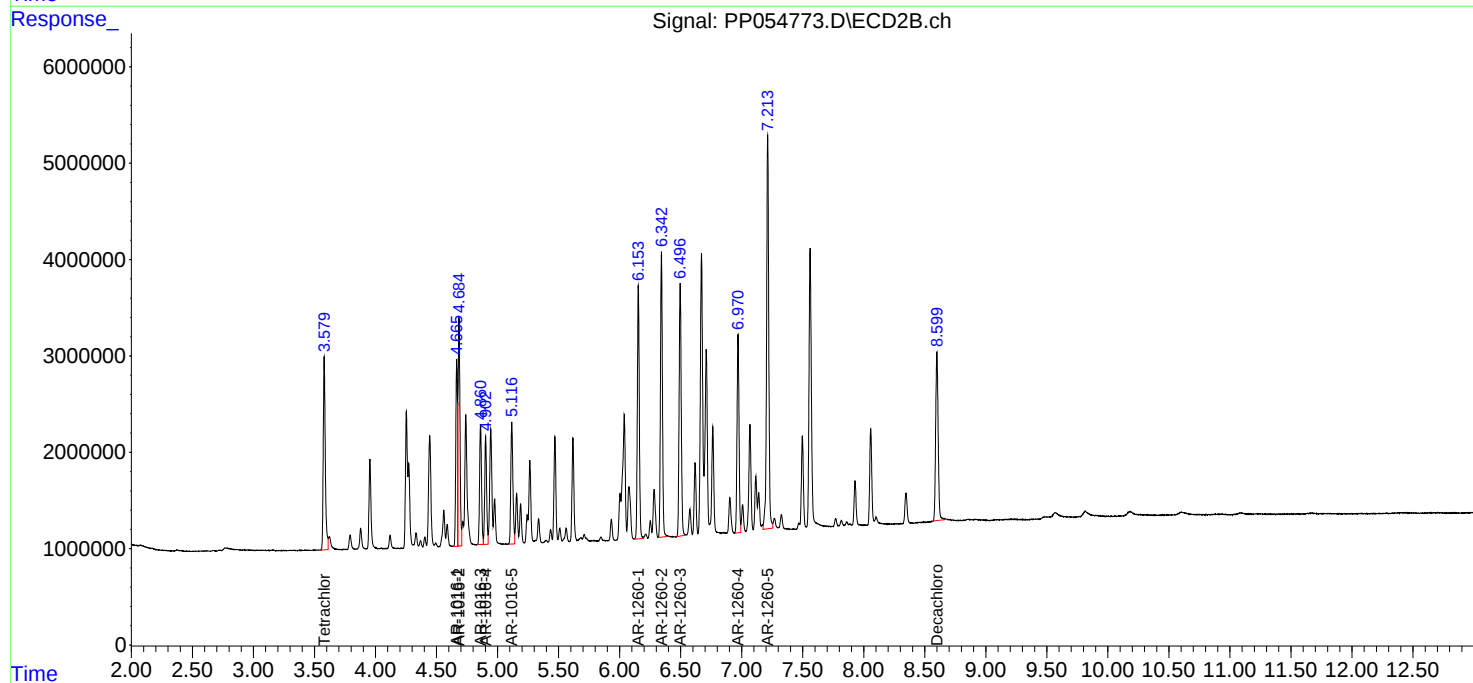
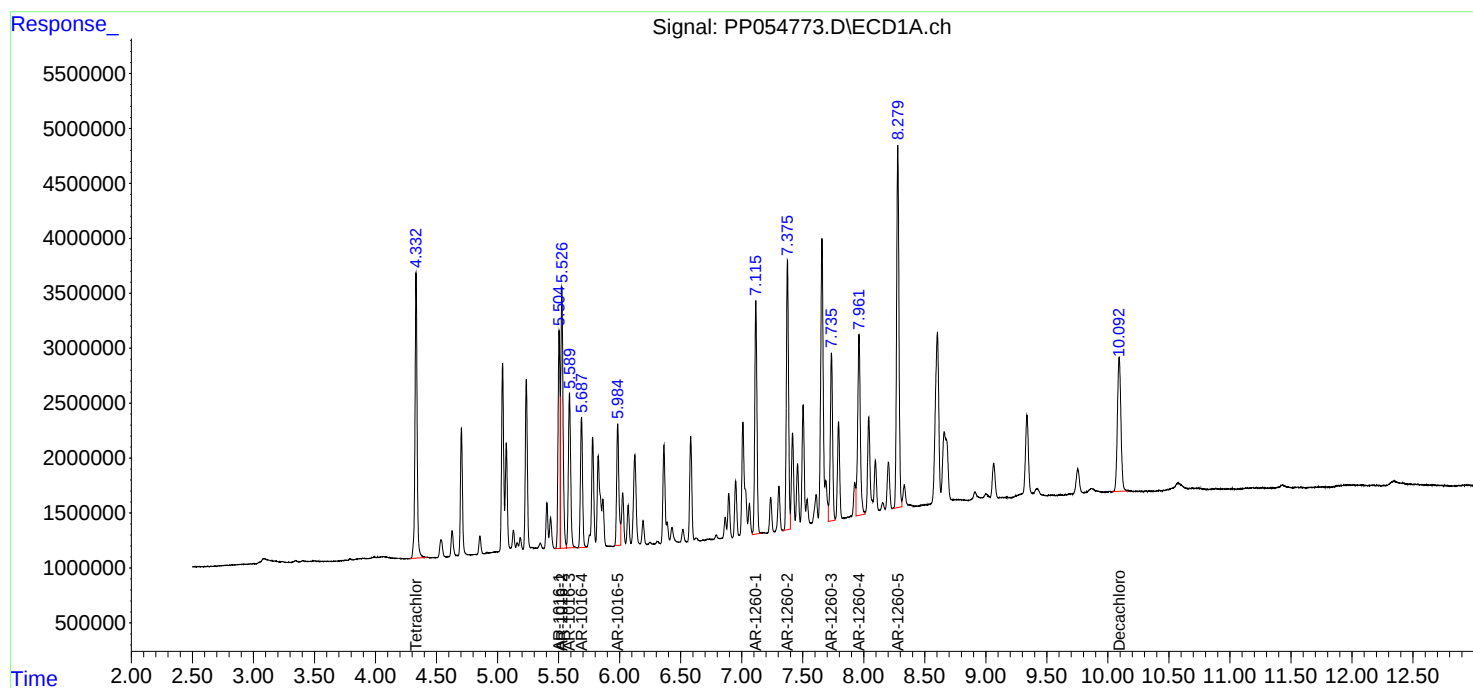
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054773.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 19:32
Operator : YP\AJ
Sample : PB150332BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB150332BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:47:03 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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





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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P17AMS	SDG No.:	O1232
Lab Sample ID:	O1232-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	89.4
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
PP054775.D	1	01/20/23 10:35	01/20/23 20:05	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	174		3.40	19.0	ug/kg
11104-28-2	Aroclor-1221	5.20	U	5.20	19.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	19.0	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	19.0	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	19.0	ug/kg
11097-69-1	Aroclor-1254	4.70	U	4.70	19.0	ug/kg
37324-23-5	Aroclor-1262	3.70	U	3.70	19.0	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	19.0	ug/kg
11096-82-5	Aroclor-1260	161		3.60	19.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.2		40 - 162	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.9		32 - 176	99%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054775.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 20:05
 Operator : YP\AJ
 Sample : 01232-01MS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-17AMS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:48:41 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.579	40713688	30361239	22.173	18.967
2) SA Decachlor...	10.094	8.599	26700331	27553991	19.892	19.241
Target Compounds						
3) L1 AR-1016-1	5.504	4.665	27490002	24167187	424.475	479.797
4) L1 AR-1016-2	5.527	4.684	38926134	33783454	411.934	473.228
5) L1 AR-1016-3	5.589	4.860	23290449	18359618	390.539	471.564
6) L1 AR-1016-4	5.688	4.903	18433806	15590692	387.906	459.033
7) L1 AR-1016-5	5.984	5.117	18379611	19811355	379.644	452.171
31) L7 AR-1260-1	7.116	6.154	32128621	36535923	467.762	440.085
32) L7 AR-1260-2	7.375	6.342	36922493	41242694	461.703	448.070
33) L7 AR-1260-3	7.736	6.496	23946907	39611536	397.530	440.722
34) L7 AR-1260-4	7.962	6.970	30318400	28532033	433.313	379.081
35) L7 AR-1260-5	8.279	7.214	52781573	61741460	405.141	388.545

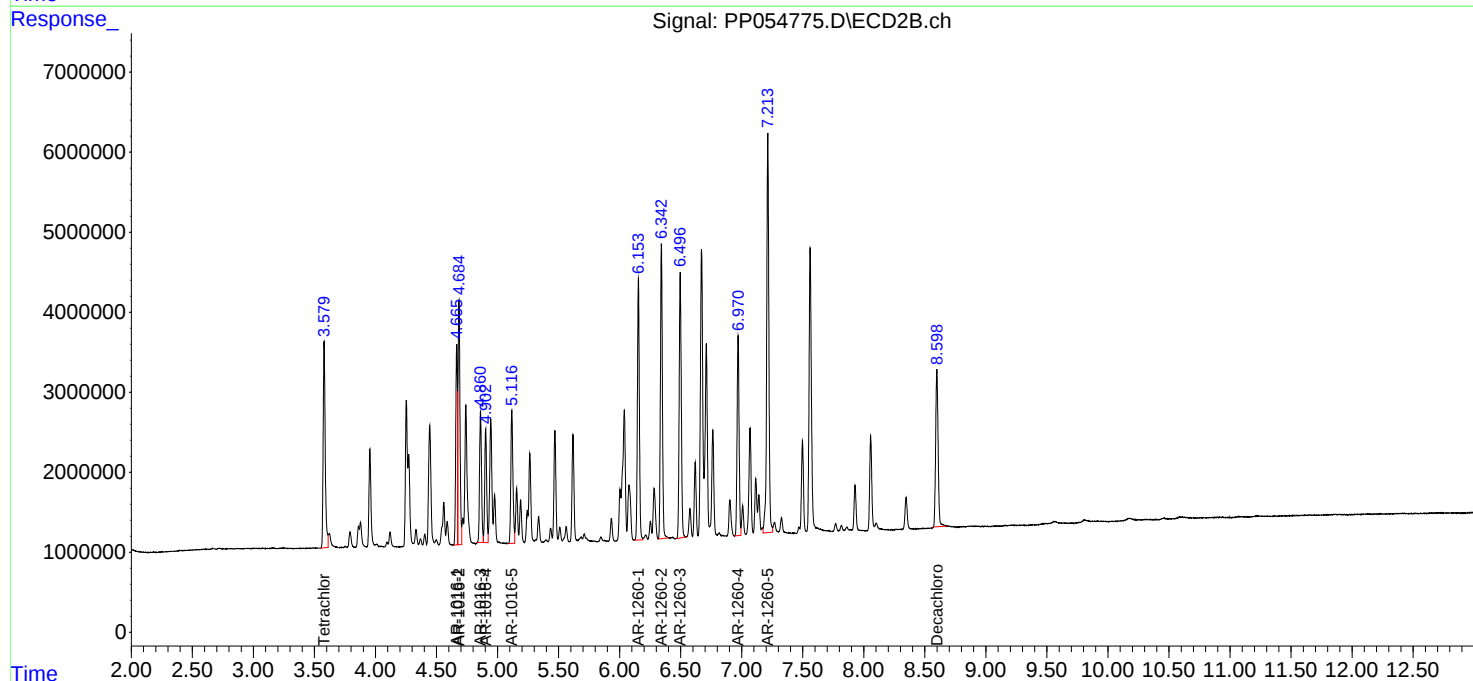
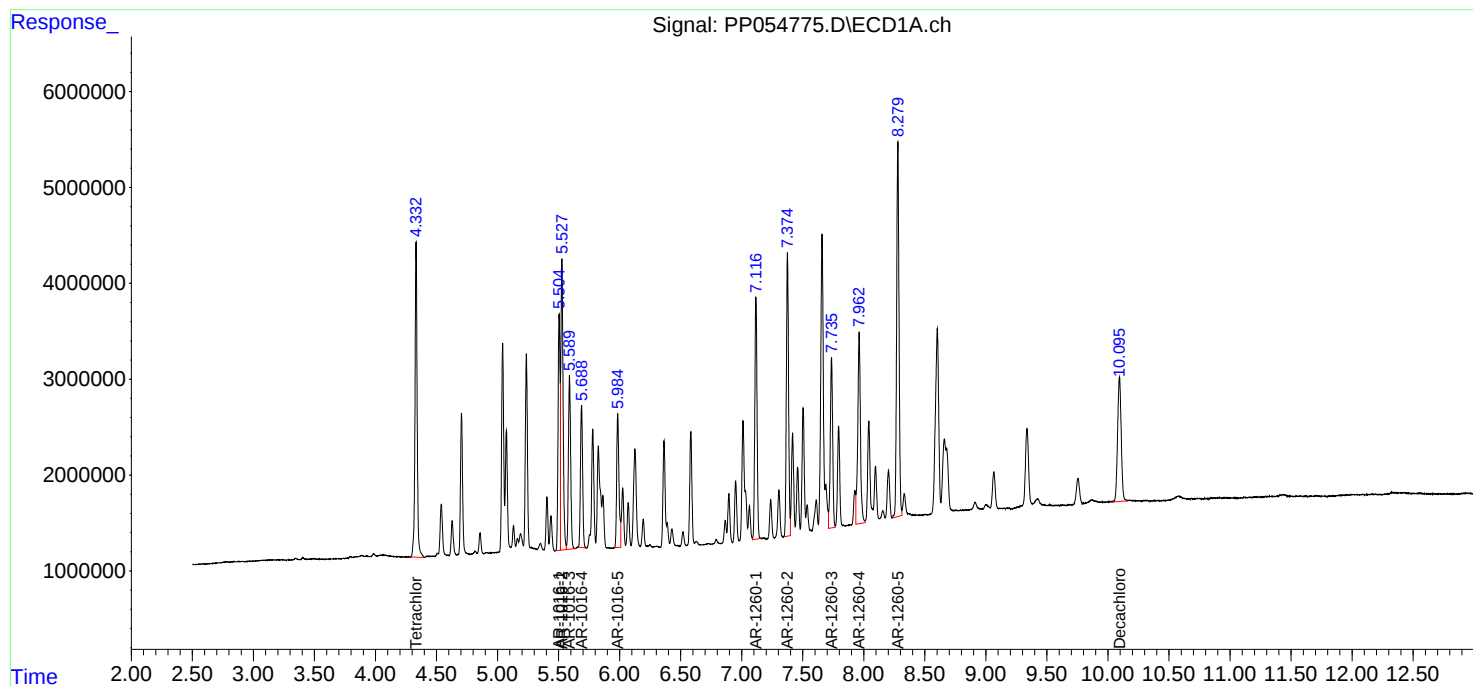
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054775.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 20:05
Operator : YP\AJ
Sample : 01232-01MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-17AMS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:48:41 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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





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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P17AMSD	SDG No.:	O1232
Lab Sample ID:	O1232-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	89.4
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP054776.D	1	01/20/23 10:35	01/20/23 20:21	PB150372

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	172		3.40	19.0	ug/kg
11104-28-2	Aroclor-1221	5.20	U	5.20	19.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	19.0	ug/kg
53469-21-9	Aroclor-1242	2.70	U	2.70	19.0	ug/kg
12672-29-6	Aroclor-1248	3.30	U	3.30	19.0	ug/kg
11097-69-1	Aroclor-1254	4.70	U	4.70	19.0	ug/kg
37324-23-5	Aroclor-1262	3.70	U	3.70	19.0	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	19.0	ug/kg
11096-82-5	Aroclor-1260	161		3.60	19.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.3		40 - 162	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		32 - 176	99%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
 Data File : PP054776.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jan 2023 20:21
 Operator : YP\AJ
 Sample : 01232-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 B-P-17AMSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 21 05:49:16 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jan 18 04:34:06 2023
 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...	4.332	3.580	40859148	30067884	22.252	18.784
2) SA Decachlor...	10.092	8.599	26527882	27615290	19.763	19.284
Target Compounds						
3) L1 AR-1016-1	5.504	4.665	27393722	23811023	422.988	472.726
4) L1 AR-1016-2	5.527	4.684	38874638	33655447	411.389	471.435
5) L1 AR-1016-3	5.589	4.860	23210840	18162204	389.204	466.493
6) L1 AR-1016-4	5.688	4.902	18280074	15429396	384.671	454.284
7) L1 AR-1016-5	5.984	5.116	18340749	19679112	378.841	449.153
31) L7 AR-1260-1	7.116	6.153	32293790	36771437	470.166	442.922
32) L7 AR-1260-2	7.375	6.342	36994478	41735111	462.603	453.420
33) L7 AR-1260-3	7.735	6.496	23779906	39888227	394.757	443.800
34) L7 AR-1260-4	7.961	6.970	30247191	28915763	432.296	384.179
35) L7 AR-1260-5	8.279	7.213	52967445	62350188	406.568	392.376

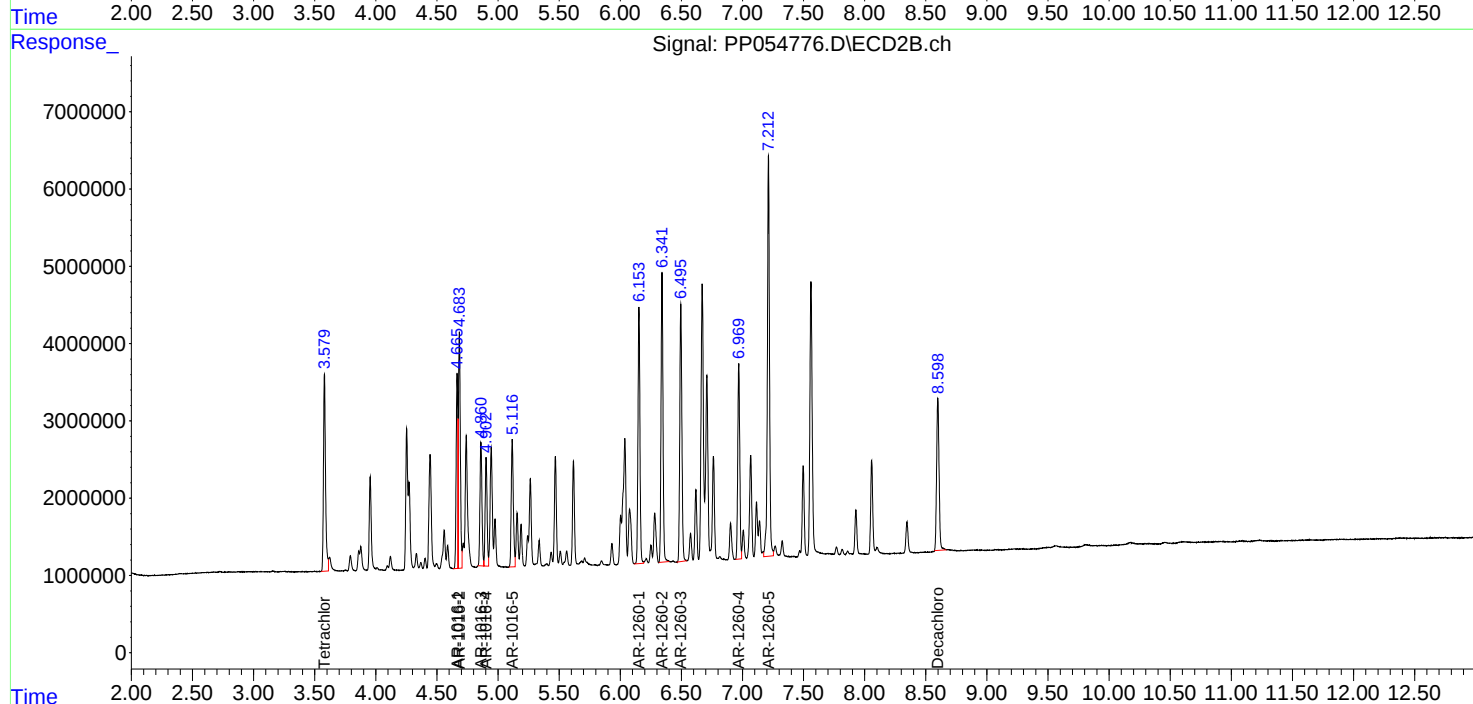
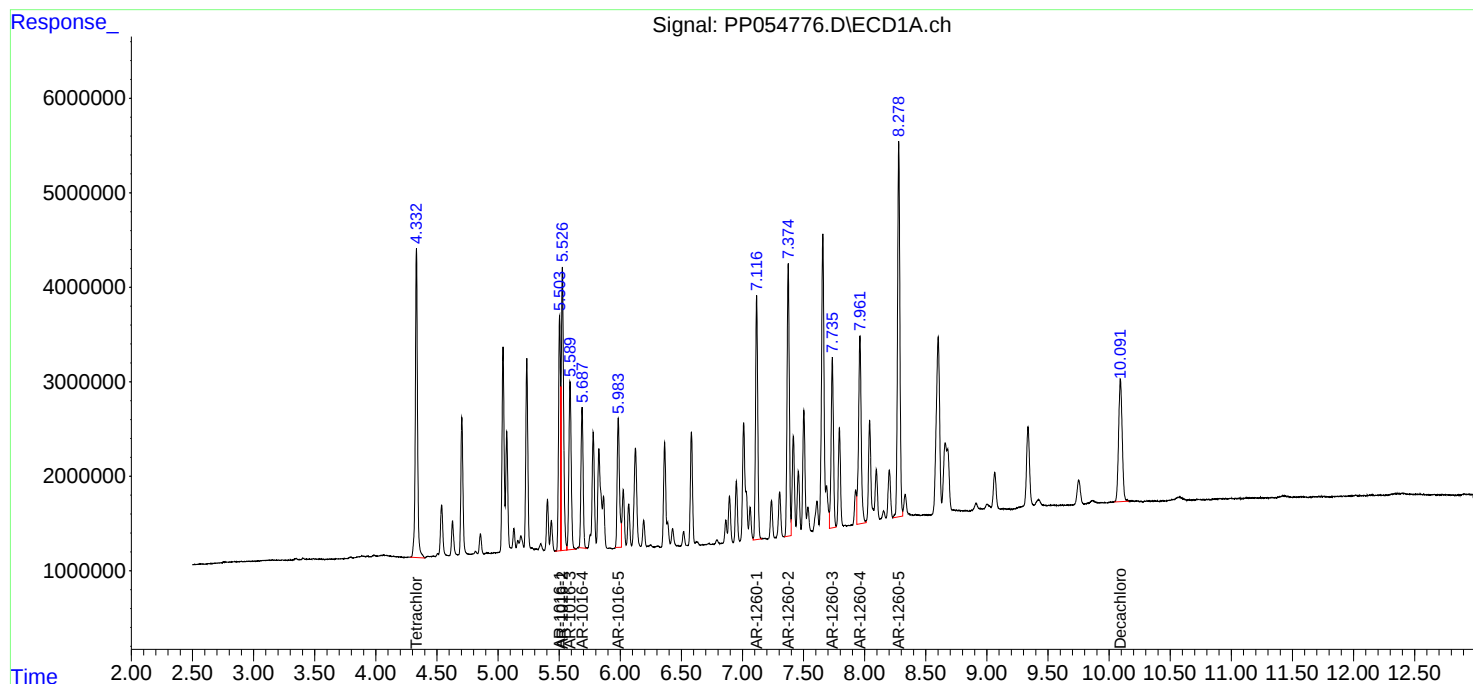
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP012023\
Data File : PP054776.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jan 2023 20:21
Operator : YP\AJ
Sample : 01232-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-P-17AMSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 21 05:49:16 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP011723.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jan 18 04:34:06 2023
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





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Manual Integration Report

Sequence:

PP011723

Instrument

ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP054626.D	AR-1260-4	yogesh	1/18/2023 9:02:42 AM	Ankita	1/18/2023 10:41:58	Peak Integrated by Software
AR1248ICC1000	PP054634.D	AR-1248-2	yogesh	1/18/2023 9:02:44 AM	Ankita	1/18/2023 10:41:59	Peak Integrated by Software
AR1248ICC750	PP054635.D	AR-1248-2	yogesh	1/18/2023 9:02:46 AM	Ankita	1/18/2023 10:42:01	Peak Integrated by Software
AR1248ICC250	PP054637.D	AR-1248-2	yogesh	1/18/2023 9:02:48 AM	Ankita	1/18/2023 10:42:03	Peak Integrated by Software
AR1248ICC050	PP054638.D	AR-1248-2	yogesh	1/18/2023 9:02:49 AM	Ankita	1/18/2023 10:42:04	Peak Integrated by Software
AR1254ICC050	PP054643.D	AR-1254-2	yogesh	1/18/2023 9:02:51 AM	Ankita	1/18/2023 10:42:06	Peak Integrated by Software
AR1262ICC500	PP054644.D	AR-1262-4	yogesh	1/18/2023 9:02:53 AM	Ankita	1/18/2023 10:42:07	Peak Integrated by Software
AR1268ICC050	PP054649.D	AR-1268-1 #2	yogesh	1/18/2023 9:02:55 AM	Ankita	1/18/2023 10:42:09	Peak Integrated by Software
AR1242ICV500	PP054651.D	AR-1242-5 #2	yogesh	1/18/2023 9:02:57 AM	Ankita	1/18/2023 10:42:11	Peak Integrated by Software
AR1248ICV500	PP054652.D	AR-1248-2	yogesh	1/18/2023 9:02:59 AM	Ankita	1/18/2023 10:42:13	Peak Integrated by Software
AR1268ICV500	PP054654.D	AR-1268-1 #2	yogesh	1/18/2023 9:03:00 AM	Ankita	1/18/2023 10:42:15	Peak Integrated by Software



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Manual Integration Report

Sequence:

PP012023

Instrument

ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP054757.D	AR-1016-5 #2	yogesh	1/23/2023 8:18:52 AM	Ankita	1/23/2023 9:03:15	Peak Integrated by Software
O1232-05	PP054780.D	AR-1242-1	yogesh	1/23/2023 8:18:53 AM	Ankita	1/23/2023 9:03:16	Peak Integrated by Software
O1232-05	PP054780.D	AR-1242-1 #2	yogesh	1/23/2023 8:18:53 AM	Ankita	1/23/2023 9:03:16	Peak Integrated by Software
O1232-05	PP054780.D	AR-1242-2 #2	yogesh	1/23/2023 8:18:53 AM	Ankita	1/23/2023 9:03:16	Peak Integrated by Software
O1232-05	PP054780.D	AR-1242-4	yogesh	1/23/2023 8:18:53 AM	Ankita	1/23/2023 9:03:16	Peak Integrated by Software
O1232-05	PP054780.D	AR-1242-5 #2	yogesh	1/23/2023 8:18:53 AM	Ankita	1/23/2023 9:03:16	Peak Integrated by Software
O1232-07	PP054782.D	Tetrachloro-m-xylene	yogesh	1/23/2023 8:18:55 AM	Ankita	1/23/2023 9:03:18	Peak Integrated by Software
AR1660CCC500	PP054798.D	AR-1016-5	yogesh	1/23/2023 3:40:55 PM	Ankita	1/23/2023 4:07:29	Peak Integrated by Software



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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP011723

Review By	yogesh	Review On	1/18/2023 9:03:15 AM
Supervise By	Ankita	Supervise On	1/18/2023 10:42:30 AM
SubDirectory	PP011723	HP Acquire Method	HP Processing Method PP011723
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,P P21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP 21450,PP21451,PP21452,PP21453,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459		
CCC	PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457		
Internal Standard/PEM			
ICV/I.BLK	PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP054620.D	17 Jan 2023 18:41	YP\AJ	Ok
2	I.BLK	PP054621.D	17 Jan 2023 18:58	YP\AJ	Ok
3	AR1660ICC1000	PP054622.D	17 Jan 2023 19:14	YP\AJ	Ok
4	AR1660ICC750	PP054623.D	17 Jan 2023 19:31	YP\AJ	Ok
5	AR1660ICC500	PP054624.D	17 Jan 2023 19:47	YP\AJ	Ok
6	AR1660ICC250	PP054625.D	17 Jan 2023 20:04	YP\AJ	Ok
7	AR1660ICC050	PP054626.D	17 Jan 2023 20:20	YP\AJ	Ok,M
8	AR1221ICC500	PP054627.D	17 Jan 2023 20:37	YP\AJ	Ok
9	AR1232ICC500	PP054628.D	17 Jan 2023 20:53	YP\AJ	Ok
10	AR1242ICC1000	PP054629.D	17 Jan 2023 21:10	YP\AJ	Ok
11	AR1242ICC750	PP054630.D	17 Jan 2023 21:26	YP\AJ	Ok
12	AR1242ICC500	PP054631.D	17 Jan 2023 21:43	YP\AJ	Ok
13	AR1242ICC250	PP054632.D	17 Jan 2023 21:59	YP\AJ	Ok
14	AR1242ICC050	PP054633.D	17 Jan 2023 22:15	YP\AJ	Ok
15	AR1248ICC1000	PP054634.D	17 Jan 2023 22:32	YP\AJ	Ok,M
16	AR1248ICC750	PP054635.D	17 Jan 2023 22:48	YP\AJ	Ok,M
17	AR1248ICC500	PP054636.D	17 Jan 2023 23:05	YP\AJ	Ok
18	AR1248ICC250	PP054637.D	17 Jan 2023 23:22	YP\AJ	Ok,M
19	AR1248ICC050	PP054638.D	17 Jan 2023 23:38	YP\AJ	Ok,M
20	AR1254ICC1000	PP054639.D	17 Jan 2023 23:55	YP\AJ	Ok
21	AR1254ICC750	PP054640.D	18 Jan 2023 00:11	YP\AJ	Ok
22	AR1254ICC500	PP054641.D	18 Jan 2023 00:27	YP\AJ	Ok
23	AR1254ICC250	PP054642.D	18 Jan 2023 00:44	YP\AJ	Ok



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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP011723

Review By	yogesh	Review On	1/18/2023 9:03:15 AM
Supervise By	Ankita	Supervise On	1/18/2023 10:42:30 AM
SubDirectory	PP011723	HP Acquire Method	HP Processing Method PP011723

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459
CCC	PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457
Internal Standard/PEM	
ICV/I.BLK	PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	AR1254ICC050	PP054643.D	18 Jan 2023 01:00	YP\AJ	Ok,M
25	AR1262ICC500	PP054644.D	18 Jan 2023 01:17	YP\AJ	Ok,M
26	AR1268ICC1000	PP054645.D	18 Jan 2023 01:33	YP\AJ	Ok
27	AR1268ICC750	PP054646.D	18 Jan 2023 01:50	YP\AJ	Ok
28	AR1268ICC500	PP054647.D	18 Jan 2023 02:06	YP\AJ	Ok
29	AR1268ICC250	PP054648.D	18 Jan 2023 02:22	YP\AJ	Ok
30	AR1268ICC050	PP054649.D	18 Jan 2023 02:39	YP\AJ	Ok,M
31	PP011623ICV500	PP054650.D	18 Jan 2023 03:12	YP\AJ	Ok
32	AR1242ICV500	PP054651.D	18 Jan 2023 03:28	YP\AJ	Ok,M
33	AR1248ICV500	PP054652.D	18 Jan 2023 03:45	YP\AJ	Ok,M
34	AR1254ICV500	PP054653.D	18 Jan 2023 04:01	YP\AJ	Ok
35	AR1268ICV500	PP054654.D	18 Jan 2023 04:18	YP\AJ	Ok,M

M : Manual Integration



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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP012023

Review By	yogesh	Review On	1/23/2023 8:19:06 AM
Supervise By	Ankita	Supervise On	1/23/2023 9:03:28 AM
SubDirectory	PP012023	HP Acquire Method	HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,P P21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP 21450,PP21451,PP21452,PP21453,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459		
CCC	PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457		
Internal Standard/PEM			
ICV/I.BLK	PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP054756.D	20 Jan 2023 11:01	YP\AJ	Ok
2	AR1660CCC500	PP054757.D	20 Jan 2023 11:18	YP\AJ	Ok,M
3	AR1242CCC500	PP054758.D	20 Jan 2023 11:34	YP\AJ	Ok
4	AR1254CCC500	PP054759.D	20 Jan 2023 12:26	YP\AJ	Ok
5	I.BLK	PP054760.D	20 Jan 2023 12:42	YP\AJ	Ok
6	O1189-10	PP054761.D	20 Jan 2023 12:58	YP\AJ	Ok
7	O1189-11	PP054762.D	20 Jan 2023 13:15	YP\AJ	Ok
8	O1189-12	PP054763.D	20 Jan 2023 13:31	YP\AJ	Ok
9	O1189-13	PP054764.D	20 Jan 2023 13:48	YP\AJ	Ok
10	O1189-14	PP054765.D	20 Jan 2023 14:04	YP\AJ	Ok
11	O1189-15	PP054766.D	20 Jan 2023 14:20	YP\AJ	Ok
12	O1189-16	PP054767.D	20 Jan 2023 14:37	YP\AJ	Ok
13	O1189-17	PP054768.D	20 Jan 2023 14:53	YP\AJ	Ok
14	O1189-18	PP054769.D	20 Jan 2023 15:10	YP\AJ	Ok
15	AR1660CCC500	PP054770.D	20 Jan 2023 18:26	YP\AJ	Ok
16	I.BLK	PP054771.D	20 Jan 2023 18:59	YP\AJ	Ok
17	PB150372BL	PP054772.D	20 Jan 2023 19:15	YP\AJ	Ok
18	PB150372BS	PP054773.D	20 Jan 2023 19:32	YP\AJ	Ok
19	O1232-01	PP054774.D	20 Jan 2023 19:48	YP\AJ	Ok
20	O1232-01MS	PP054775.D	20 Jan 2023 20:05	YP\AJ	Ok
21	O1232-01MSD	PP054776.D	20 Jan 2023 20:21	YP\AJ	Ok
22	O1232-02	PP054777.D	20 Jan 2023 20:38	YP\AJ	Ok
23	O1232-03	PP054778.D	20 Jan 2023 20:54	YP\AJ	Ok

Daily Analysis Runlog For Sequence/QC Batch ID # PP012023

Review By	yogesh	Review On	1/23/2023 8:19:06 AM		
Supervise By	Ankita	Supervise On	1/23/2023 9:03:28 AM		
SubDirectory	PP012023	HP Acquire Method		HP Processing Method	
STD. NAME	STD REF.#				
Tune/Reschk					
Initial Calibration Stds	PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459				
CCC	PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457				
Internal Standard/PEM					
ICV/I.BLK	PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					
24	O1232-04	PP054779.D	20 Jan 2023 21:11	YPIAJ	Ok
25	O1232-05	PP054780.D	20 Jan 2023 21:27	YPIAJ	Ok,M
26	O1232-06	PP054781.D	20 Jan 2023 21:43	YPIAJ	Ok
27	O1232-07	PP054782.D	20 Jan 2023 22:00	YPIAJ	Ok,M
28	O1232-08	PP054783.D	20 Jan 2023 22:16	YPIAJ	Ok
29	O1232-09	PP054784.D	20 Jan 2023 22:33	YPIAJ	Ok
30	O1232-10	PP054785.D	20 Jan 2023 22:49	YPIAJ	Ok
31	O1233-02	PP054786.D	20 Jan 2023 23:06	YPIAJ	Ok
32	O1233-03	PP054787.D	20 Jan 2023 23:22	YPIAJ	Ok
33	O1233-04	PP054788.D	20 Jan 2023 23:38	YPIAJ	Ok
34	O1233-05	PP054789.D	20 Jan 2023 23:55	YPIAJ	Ok
35	O1233-06	PP054790.D	21 Jan 2023 00:11	YPIAJ	Ok
36	O1233-07	PP054791.D	21 Jan 2023 00:28	YPIAJ	Ok
37	AR1660CCC500	PP054792.D	21 Jan 2023 01:05	YPIAJ	Ok
38	I.BLK	PP054793.D	21 Jan 2023 01:54	YPIAJ	Ok
39	O1233-08	PP054794.D	21 Jan 2023 02:11	YPIAJ	Ok
40	O1233-09	PP054795.D	21 Jan 2023 02:27	YPIAJ	Ok
41	O1233-10	PP054796.D	21 Jan 2023 02:44	YPIAJ	Ok
42	O1233-11	PP054797.D	21 Jan 2023 03:00	YPIAJ	Ok
43	AR1660CCC500	PP054798.D	21 Jan 2023 03:37	YPIAJ	Ok,M
44	I.BLK	PP054799.D	21 Jan 2023 03:54	YPIAJ	Ok

M : Manual Integration



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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP011723

Review By	yogesh	Review On	1/18/2023 9:03:15 AM				
Supervise By	Ankita	Supervise On	1/18/2023 10:42:30 AM				
SubDirectory	PP011723	HP Acquire Method	HP Processing Method		PP011723		
STD. NAME		STD REF.#					
Tune/Reschk		PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard		PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457					
LCS Standard							
PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP054620.D	17 Jan 2023 18:41		YPIAJ	Ok
2	I.BLK	I.BLK	PP054621.D	17 Jan 2023 18:58		YPIAJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP054622.D	17 Jan 2023 19:14		YPIAJ	Ok
4	AR1660ICC750	AR1660ICC750	PP054623.D	17 Jan 2023 19:31		YPIAJ	Ok
5	AR1660ICC500	AR1660ICC500	PP054624.D	17 Jan 2023 19:47		YPIAJ	Ok
6	AR1660ICC250	AR1660ICC250	PP054625.D	17 Jan 2023 20:04		YPIAJ	Ok
7	AR1660ICC050	AR1660ICC050	PP054626.D	17 Jan 2023 20:20		YPIAJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP054627.D	17 Jan 2023 20:37		YPIAJ	Ok
9	AR1232ICC500	AR1232ICC500	PP054628.D	17 Jan 2023 20:53		YPIAJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP054629.D	17 Jan 2023 21:10		YPIAJ	Ok
11	AR1242ICC750	AR1242ICC750	PP054630.D	17 Jan 2023 21:26		YPIAJ	Ok
12	AR1242ICC500	AR1242ICC500	PP054631.D	17 Jan 2023 21:43		YPIAJ	Ok
13	AR1242ICC250	AR1242ICC250	PP054632.D	17 Jan 2023 21:59		YPIAJ	Ok
14	AR1242ICC050	AR1242ICC050	PP054633.D	17 Jan 2023 22:15		YPIAJ	Ok
15	AR1248ICC1000	AR1248ICC1000	PP054634.D	17 Jan 2023 22:32		YPIAJ	Ok,M
16	AR1248ICC750	AR1248ICC750	PP054635.D	17 Jan 2023 22:48		YPIAJ	Ok,M
17	AR1248ICC500	AR1248ICC500	PP054636.D	17 Jan 2023 23:05		YPIAJ	Ok
18	AR1248ICC250	AR1248ICC250	PP054637.D	17 Jan 2023 23:22		YPIAJ	Ok,M
19	AR1248ICC050	AR1248ICC050	PP054638.D	17 Jan 2023 23:38		YPIAJ	Ok,M

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP011723

Review By	yogesh	Review On	1/18/2023 9:03:15 AM				
Supervise By	Ankita	Supervise On	1/18/2023 10:42:30 AM				
SubDirectory	PP011723	HP Acquire Method	HP Processing Method		PP011723		
STD. NAME		STD REF.#					
Tune/Reschk		PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
20	AR1254ICC1000	AR1254ICC1000	PP054639.D	17 Jan 2023 23:55		YPIAJ	Ok
21	AR1254ICC750	AR1254ICC750	PP054640.D	18 Jan 2023 00:11		YPIAJ	Ok
22	AR1254ICC500	AR1254ICC500	PP054641.D	18 Jan 2023 00:27		YPIAJ	Ok
23	AR1254ICC250	AR1254ICC250	PP054642.D	18 Jan 2023 00:44		YPIAJ	Ok
24	AR1254ICC050	AR1254ICC050	PP054643.D	18 Jan 2023 01:00		YPIAJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP054644.D	18 Jan 2023 01:17		YPIAJ	Ok,M
26	AR1268ICC1000	AR1268ICC1000	PP054645.D	18 Jan 2023 01:33		YPIAJ	Ok
27	AR1268ICC750	AR1268ICC750	PP054646.D	18 Jan 2023 01:50		YPIAJ	Ok
28	AR1268ICC500	AR1268ICC500	PP054647.D	18 Jan 2023 02:06		YPIAJ	Ok
29	AR1268ICC250	AR1268ICC250	PP054648.D	18 Jan 2023 02:22		YPIAJ	Ok
30	AR1268ICC050	AR1268ICC050	PP054649.D	18 Jan 2023 02:39		YPIAJ	Ok,M
31	PP011623ICV500	ICVPP011723	PP054650.D	18 Jan 2023 03:12		YPIAJ	Ok
32	AR1242ICV500	ICVPP011723AR1242	PP054651.D	18 Jan 2023 03:28		YPIAJ	Ok,M
33	AR1248ICV500	ICVPP011723AR1248	PP054652.D	18 Jan 2023 03:45		YPIAJ	Ok,M
34	AR1254ICV500	ICVPP011723AR1254	PP054653.D	18 Jan 2023 04:01		YPIAJ	Ok
35	AR1268ICV500	ICVPP011723AR1268	PP054654.D	18 Jan 2023 04:18		YPIAJ	Ok,M

M : Manual Integration

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP012023

Review By	yogesh	Review On	1/23/2023 8:19:06 AM				
Supervise By	Ankita	Supervise On	1/23/2023 9:03:28 AM				
SubDirectory	PP012023	HP Acquire Method	HP Processing Method				
STD. NAME		STD REF.#					
Tune/Reschk		PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard		PP21422,PP21427,PP21432,PP21437,PP21442,PP21447,PP21452,PP21457					
LCS Standard		PP21461,PP21463,PP21465,PP21467,PP21469,PP21471,PP21473,PP21475					

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP054756.D	20 Jan 2023 11:01		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP054757.D	20 Jan 2023 11:18		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP054758.D	20 Jan 2023 11:34		YP\AJ	Ok
4	AR1254CCC500	AR1254CCC500	PP054759.D	20 Jan 2023 12:26		YP\AJ	Ok
5	I.BLK	I.BLK	PP054760.D	20 Jan 2023 12:42		YP\AJ	Ok
6	O1189-10	AERIAL-2871-4	PP054761.D	20 Jan 2023 12:58		YP\AJ	Ok
7	O1189-11	AERIAL-2871-5	PP054762.D	20 Jan 2023 13:15		YP\AJ	Ok
8	O1189-12	AERIAL-2871-6	PP054763.D	20 Jan 2023 13:31		YP\AJ	Ok
9	O1189-13	AERIAL-2869-1	PP054764.D	20 Jan 2023 13:48		YP\AJ	Ok
10	O1189-14	AERIAL-2869-2	PP054765.D	20 Jan 2023 14:04		YP\AJ	Ok
11	O1189-15	AERIAL-2869-3	PP054766.D	20 Jan 2023 14:20		YP\AJ	Ok
12	O1189-16	AERIAL-2869-4	PP054767.D	20 Jan 2023 14:37		YP\AJ	Ok
13	O1189-17	AERIAL-2869-5	PP054768.D	20 Jan 2023 14:53		YP\AJ	Ok
14	O1189-18	AERIAL-2869-6	PP054769.D	20 Jan 2023 15:10		YP\AJ	Ok
15	AR1660CCC500	AR1660CCC500	PP054770.D	20 Jan 2023 18:26		YP\AJ	Ok
16	I.BLK	I.BLK	PP054771.D	20 Jan 2023 18:59		YP\AJ	Ok
17	PB150372BL	PB150372BL	PP054772.D	20 Jan 2023 19:15		YP\AJ	Ok
18	PB150372BS	PB150372BS	PP054773.D	20 Jan 2023 19:32		YP\AJ	Ok
19	O1232-01	B-P17A	PP054774.D	20 Jan 2023 19:48		YP\AJ	Ok

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP012023

Review By	yogesh	Review On	1/23/2023 8:19:06 AM				
Supervise By	Ankita	Supervise On	1/23/2023 9:03:28 AM				
SubDirectory	PP012023	HP Acquire Method	HP Processing Method				
STD. NAME		STD REF.#					
Tune/Reschk		PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

20	O1232-01MS	B-P17AMS	PP054775.D	20 Jan 2023 20:05		YPIAJ	Ok
21	O1232-01MSD	B-P17AMSD	PP054776.D	20 Jan 2023 20:21		YPIAJ	Ok
22	O1232-02	B-P17B	PP054777.D	20 Jan 2023 20:38		YPIAJ	Ok
23	O1232-03	WC-17	PP054778.D	20 Jan 2023 20:54	AR1242 hits,	YPIAJ	Ok
24	O1232-04	B-P18A	PP054779.D	20 Jan 2023 21:11		YPIAJ	Ok
25	O1232-05	B-P18B	PP054780.D	20 Jan 2023 21:27	AR1242 hits,	YPIAJ	Ok,M
26	O1232-06	B-P19A	PP054781.D	20 Jan 2023 21:43		YPIAJ	Ok
27	O1232-07	B-P19B	PP054782.D	20 Jan 2023 22:00		YPIAJ	Ok,M
28	O1232-08	B-P35A	PP054783.D	20 Jan 2023 22:16		YPIAJ	Ok
29	O1232-09	B-P35B	PP054784.D	20 Jan 2023 22:33		YPIAJ	Ok
30	O1232-10	DUP01	PP054785.D	20 Jan 2023 22:49		YPIAJ	Ok
31	O1233-02	B-P34A	PP054786.D	20 Jan 2023 23:06		YPIAJ	Ok
32	O1233-03	B-P34B	PP054787.D	20 Jan 2023 23:22		YPIAJ	Ok
33	O1233-04	B-P36A	PP054788.D	20 Jan 2023 23:38		YPIAJ	Ok
34	O1233-05	B-P36B	PP054789.D	20 Jan 2023 23:55		YPIAJ	Ok
35	O1233-06	B-P37A	PP054790.D	21 Jan 2023 00:11		YPIAJ	Ok
36	O1233-07	B-P37B	PP054791.D	21 Jan 2023 00:28		YPIAJ	Ok
37	AR1660CCC500	AR1660CCC500	PP054792.D	21 Jan 2023 01:05		YPIAJ	Ok
38	I.BLK	I.BLK	PP054793.D	21 Jan 2023 01:54		YPIAJ	Ok
39	O1233-08	B-P38A	PP054794.D	21 Jan 2023 02:11		YPIAJ	Ok

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QC Batch ID # PP012023

Review By	yogesh	Review On	1/23/2023 8:19:06 AM				
Supervise By	Ankita	Supervise On	1/23/2023 9:03:28 AM				
SubDirectory	PP012023	HP Acquire Method	HP Processing Method				
STD. NAME		STD REF.#					
Tune/Reschk		PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
40	O1233-09	B-P38B	PP054795.D	21 Jan 2023 02:27		YPIAJ	Ok
41	O1233-10	WC-38	PP054796.D	21 Jan 2023 02:44		YPIAJ	Ok
42	O1233-11	B-P38C	PP054797.D	21 Jan 2023 03:00		YPIAJ	Ok
43	AR1660CCC500	AR1660CCC500	PP054798.D	21 Jan 2023 03:37		YPIAJ	Ok,M
44	I.BLK	I.BLK	PP054799.D	21 Jan 2023 03:54		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

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
O1229-01	OK-02-011923	1	1.12	8.72	9.84	8.73	87.3	
O1229-02	OK-02-011923-EPH-2	2	1.12	8.72	9.84	8.73	87.3	
O1230-01	BBC	3	1.15	8.45	9.6	9.47	98.5	
O1231-01	BBC	4	1.19	8.53	9.72	9.57	98.2	
O1232-01	B-P-17A	18	1.15	8.78	9.93	9.00	89.4	
O1232-02	B-P-17B	19	1.15	8.41	9.56	8.46	86.9	
O1232-03	WC-17	20	1.13	8.64	9.77	9.03	91.4	
O1232-04	B-P-18A	21	1.13	8.57	9.7	8.63	87.5	
O1232-05	B-P-18B	22	1.15	8.83	9.98	9.22	91.4	
O1232-06	B-P-19A	23	1.12	8.57	9.69	8.68	88.2	
O1232-07	B-P-19B	24	1.18	8.35	9.53	8.53	88.0	
O1232-08	B-P-35A	25	1.13	8.62	9.75	9.00	91.3	
O1232-09	B-P-35B	26	1.17	8.53	9.7	9.13	93.3	
O1232-10	DUP01	27	1.15	8.80	9.95	9.08	90.1	
O1233-02	B-P34A	28	1.13	8.76	9.89	8.6	85.3	
O1233-03	B-P34B	29	1.13	8.71	9.84	9.03	90.7	
O1233-04	B-P36A	30	1.16	8.75	9.91	9.00	89.6	
O1233-05	B-P36B	31	1.13	8.84	9.97	9.12	90.4	
O1233-06	B-P37A	32	1.18	8.60	9.78	8.74	87.9	
O1233-07	B-P37B	33	1.18	8.38	9.56	8.18	83.5	
O1233-08	B-P38A	34	1.12	8.66	9.78	8.85	89.3	
O1233-09	B-P38B	35	1.15	8.81	9.96	8.26	80.7	
O1233-10	WC-38	36	1.18	8.59	9.77	8.47	84.9	
O1233-11	B-P38C	37	1.15	8.82	9.97	8.73	85.9	
O1234-01	EO-02-11923	5	1.14	8.82	9.96	8.72	85.9	
O1234-02	EO-02-11923	6	1.12	8.54	9.66	8.48	86.2	
O1235-04	12X52	7	1.12	7.08	8.2	6.57	77.0	
O1235-05	12X53	8	1.16	5.17	6.33	5.91	91.9	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

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
O1235-06	12X54	9	1.11	8.50	9.61	5.73	54.4	
O1235-07	12X55	10	1.13	8.43	9.56	7.14	71.3	
O1237-01	COMP-1-2-3A	11	1.18	8.72	9.9	9.24	92.4	
O1237-02	3A	12	1.13	8.44	9.57	9.33	97.2	
O1238-01	RBRB22281-OILY-DEBRIS	13	1.00	1.00	2.00	2.00	100.0	OILY DEBRIS
O1239-01	BORING-3	14	1.17	8.73	9.9	8.29	81.6	
O1239-03	BORING-3-EPH-2	15	1.13	8.64	9.77	8.31	83.1	
O1240-01	TR-05-011923	16	1.18	8.50	9.68	8.38	84.7	
O1240-02	TR-05-011923-EPH-2	17	1.17	8.67	9.84	8.73	87.2	
O1241-01	34326-FRONT	38	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-02	34326-BACK	39	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-03	34327-FRONT	40	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-04	34327-BACK	41	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-05	34328-FRONT	42	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-06	34328BACK	43	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-07	343269-FRONT	44	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-08	34329-BACK	45	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1243-01	TJRC-11823-B4-0-10	60	1.12	8.65	9.77	8.54	85.8	
O1243-02	TJRC-11823-B4-0-10	61	1.14	8.45	9.59	8.02	81.4	
O1243-03	TJRC-11823-B4-10-20	62	1.15	8.81	9.96	8.85	87.4	
O1243-04	TJRC-11823-B4-10-20	63	1.17	8.57	9.74	8.16	81.6	
O1243-05	TJRC-11923-B4-20-30	64	1.15	8.75	9.9	8.28	81.5	
O1243-06	TJRC-11923-B4-20-30	65	1.13	8.70	9.83	8.43	83.9	
O1243-07	TJRC-11923-B4-30-40	66	1.16	8.77	9.93	8.29	81.3	
O1243-08	TJRC-11923-B4-30-40	67	1.14	8.83	9.97	8.47	83.0	
O1244-01	VNJ-223	46	1.12	8.62	9.74	8.59	86.7	
O1244-02	VNJ-223	47	1.16	8.80	9.96	8.62	84.8	
O1248-05	SVOC-GPC-BLANK	50	1.00	1.00	2.00	2.00	100.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

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
O1248-06	PEST-GPC-BLANK	51	1.00	1.00	2.00	2.00	100.0	
O1248-07	PEST-GPC-BLANK-SPIKE	52	1.00	1.00	2.00	2.00	100.0	
O1248-08	PCB-GPC-BLANK	53	1.00	1.00	2.00	2.00	100.0	
O1248-09	PCB-GPC-BLANK-SPIKE	54	1.00	1.00	2.00	2.00	100.0	
O1248-10	SVOC-GPC2-BLANK	55	1.00	1.00	2.00	2.00	100.0	
O1248-11	PEST-GPC2-BLANK	56	1.00	1.00	2.00	2.00	100.0	
O1248-12	PEST-GPC2-BLANK-SPIKE	57	1.00	1.00	2.00	2.00	100.0	
O1248-13	PCB-GCP2-BLANK	58	1.00	1.00	2.00	2.00	100.0	
O1248-14	PCB-GCP2-BLANK-SPIKE	59	1.00	1.00	2.00	2.00	100.0	
O1251-01	COMP-1	68	1.13	8.43	9.56	8.44	86.7	
O1251-03	EPH-1	69	1.11	8.51	9.62	8.47	86.5	
O1251-05	TOT-VOC-1	70	1.00	1.00	2.00	2.00	100.0	no jar
O1251-06	TOT-VOC-2	71	1.00	1.00	2.00	2.00	100.0	no jar
O1251-07	COMP-2	72	1.12	8.74	9.86	8.75	87.3	
O1251-09	EPH-2	73	1.14	8.80	9.94	8.8	87.0	
O1251-11	TOT-VOC-3	74	1.00	1.00	2.00	2.00	100.0	no jar
O1251-12	TOT-VOC-4	75	1.00	1.00	2.00	2.00	100.0	no jar
O1252-01	MH-9	48	1.14	8.84	9.98	9.47	94.2	
O1252-02	MH-9-EPH	49	1.12	8.46	9.58	8.67	89.2	
O1253-01	SU-04-012023	79	1.12	8.47	9.59	8.99	92.9	
O1253-02	SU-04-012023-EPH-2	80	1.18	8.69	9.87	9.17	91.9	
O1254-01	HR-04-012023	81	1.13	8.66	9.79	9.09	91.9	
O1254-02	HR-04-012023-EPH-2	82	1.16	8.69	9.85	8.95	89.6	
O1255-01	BORING-1	76	1.18	8.61	9.79	8.32	82.9	
O1255-03	BORING-1-EPH-2	77	1.11	8.78	9.89	8.35	82.5	
O1256-01	OR-02-012023	83	1.15	8.81	9.96	9.09	90.1	
O1256-02	OR-02-012023-EPH-2	84	1.1	8.87	9.97	8.66	85.2	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

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
O1258-01	WASTE-VOA-2	78	1.12	8.58	9.7	8.62	87.4	

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-012023

WorkList ID : 166715

Department : Wet-Chemistry

Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/24/2023	Solid	O1229-01	Percent Solids	Cool 4 deg C	PSEG05	N11	OK-02-011923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1229-02	Percent Solids	Cool 4 deg C	PSEG05	N11	OK-02-011923-EPH-2	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1230-01	Percent Solids	Cool 4 deg C	EART12	N11	BBC	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1231-01	Percent Solids	Cool 4 deg C	EART12	N11	BBC	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1232-01	Percent Solids	Cool 4 deg C	loui01	N11	B-P-17A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-02	Percent Solids	Cool 4 deg C	loui01	N11	B-P-17B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-03	Percent Solids	Cool 4 deg C	loui01	N11	WC-17	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-04	Percent Solids	Cool 4 deg C	loui01	N11	B-P-18A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-05	Percent Solids	Cool 4 deg C	loui01	N11	B-P-18B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-06	Percent Solids	Cool 4 deg C	loui01	N11	B-P-19A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-07	Percent Solids	Cool 4 deg C	loui01	N11	B-P-19B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-08	Percent Solids	Cool 4 deg C	loui01	N11	B-P-35A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-09	Percent Solids	Cool 4 deg C	loui01	N11	B-P-35B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-10	Percent Solids	Cool 4 deg C	loui01	N11	DUP01	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-02	Percent Solids	Cool 4 deg C	loui01	N11	B-P-34A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-03	Percent Solids	Cool 4 deg C	loui01	N11	B-P-34B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-04	Percent Solids	Cool 4 deg C	loui01	N11	B-P-36A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-05	Percent Solids	Cool 4 deg C	loui01	N11	B-P-36B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-06	Percent Solids	Cool 4 deg C	loui01	N11	B-P-37A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-07	Percent Solids	Cool 4 deg C	loui01	N11	B-P-37B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-08	Percent Solids	Cool 4 deg C	loui01	N11	B-P-38A	01/18/2023	Chemtech -SO

Date/Time 01-20-23 15:45

Raw Sample Received by: 70 (w2c)

Raw Sample Relinquished by: JDCSM

Date/Time

01-20-23

Raw Sample Received by:

Raw Sample Relinquished by:

123747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-012023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/26/2023	Solid	O1233-09	Percent Solids	Cool 4 deg C	loui01	N11	B-P38B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-10	Percent Solids	Cool 4 deg C	loui01	N11	WC-38	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-11	Percent Solids	Cool 4 deg C	loui01	N11	B-P38C	01/18/2023	Chemtech -SO
01/24/2023	Solid	O1234-01	Percent Solids	Cool 4 deg C	PSEG05	N11	EO-02-11923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1234-02	Percent Solids	Cool 4 deg C	PSEG05	N11	EO-02-11923	01/19/2023	Chemtech -SO
01/28/2023	Solid	O1235-04	Percent Solids	Cool 4 deg C	ATCE02	N11	12X52	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-05	Percent Solids	Cool 4 deg C	ATCE02	N11	12X53	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-06	Percent Solids	Cool 4 deg C	ATCE02	N11	12X54	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-07	Percent Solids	Cool 4 deg C	ATCE02	N11	12X55	01/18/2023	Chemtech -SO
01/24/2023	Solid	O1237-01	Percent Solids	Cool 4 deg C	PSEG03	N12	COMP-1-2-3A	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1237-02	Percent Solids	Cool 4 deg C	PSEG03	N12	3A	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1238-01	Percent Solids	Cool 4 deg C	PSEG03	N12	RBRB22281-OILY-DEBRIS	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1239-01	Percent Solids	Cool 4 deg C	PSEG03	N12	BORING-3	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1239-03	Percent Solids	Cool 4 deg C	PSEG03	N12	BORING-3-EPH-2	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1240-01	Percent Solids	Cool 4 deg C	PSEG05	N12	TR-05-011923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1240-02	Percent Solids	Cool 4 deg C	PSEG05	N12	TR-05-011923-EPH-2	01/19/2023	Chemtech -SO
01/27/2023	Solid	O1241-01	Percent Solids	Cool 4 deg C	PSEG03	N11	34326-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-02	Percent Solids	Cool 4 deg C	PSEG03	N11	34326-BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-03	Percent Solids	Cool 4 deg C	PSEG03	N11	34327-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-04	Percent Solids	Cool 4 deg C	PSEG03	N11	34327-BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-05	Percent Solids	Cool 4 deg C	PSEG03	N11	34328-FRONT	01/20/2023	Chemtech -SO

Date/Time 01-20-23 15:45
 Raw Sample Received by: JO (WCC)
 Raw Sample Relinquished by: JO CSM

Date/Time 01-20-23 17:25
 Raw Sample Received by: JDCSM
 Raw Sample Relinquished by: JO (WCC)

123747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-01/2023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/27/2023	Solid	O1241-06	Percent Solids	Cool 4 deg C	PSEG03	N11	34328BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-07	Percent Solids	Cool 4 deg C	PSEG03	N11	343269-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-08	Percent Solids	Cool 4 deg C	PSEG03	N11	34329-BACK	01/20/2023	Chemtech -SO
01/28/2023	Solid	O1243-01	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-0-10	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-02	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-0-10	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-03	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-10-20	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-04	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-10-20	01/18/2023	Chemtech -SO
01/29/2023	Solid	O1243-05	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-20-30	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-06	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-20-30	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-07	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-30-40	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-08	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-30-40	01/19/2023	Chemtech -SO
01/27/2023	Solid	O1244-01	Percent Solids	Cool 4 deg C	PSEG03	N11	VNJ-223	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1244-02	Percent Solids	Cool 4 deg C	PSEG03	N11	VNJ-223	01/20/2023	Chemtech -SO
01/23/2023	Solid	O1248-05	Percent Solids	Cool 4 deg C	CHEM02	N11	SVOC-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-06	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-07	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-08	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-09	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GPC-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-10	Percent Solids	Cool 4 deg C	CHEM02	N11	SVOC-GPC2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-11	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-12	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC2-BLANK-SPIKE	01/13/2023	Chemtech -SO

Date/Time 01/20/23 15:45
Raw Sample Received by: JP (WC)
Raw Sample Relinquished by: JDCSM2

Date/Time 01/20/23 17:25
Raw Sample Received by: JDCSM2
Raw Sample Relinquished by: JP (WC)

2523747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-012023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/23/2023	Solid	O1248-13	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GCP2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-14	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GCP2-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/25/2023	Solid	O1251-01	Percent Solids	Cool 4 deg C	SOUN03	N11	COMP-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-03	Percent Solids	Cool 4 deg C	SOUN03	N11	EPH-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-05	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-06	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-07	Percent Solids	Cool 4 deg C	SOUN03	N11	COMP-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-09	Percent Solids	Cool 4 deg C	SOUN03	N11	EPH-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-11	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-3	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-12	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-4	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1252-01	Percent Solids	Cool 4 deg C	PSEG03	N11	MH-9	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1252-02	Percent Solids	Cool 4 deg C	PSEG03	N11	MH-9-EPH	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1253-01	Percent Solids	Cool 4 deg C	PSEG05	N13	SU-04-012023	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1253-02	Percent Solids	Cool 4 deg C	PSEG05	N13	SU-04-012023-EPH-2	01/20/2023	Chemtech -SO
01/26/2023	Solid	O1254-01	Percent Solids	Cool 4 deg C	PSEG05	N11	HR-04-012023	01/20/2023	Chemtech -SO
01/26/2023	Solid	O1254-02	Percent Solids	Cool 4 deg C	PSEG05	N11	HR-04-012023-EPH-2	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1255-01	Percent Solids	Cool 4 deg C	PSEG03	N11	BORING-1	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1255-03	Percent Solids	Cool 4 deg C	PSEG03	N11	BORING-1-EPH-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1256-01	Percent Solids	Cool 4 deg C	PSEG05	N11	OR-02-012023	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1256-02	Percent Solids	Cool 4 deg C	PSEG05	N11	OR-02-012023-EPH-2	01/20/2023	Chemtech -SO
01/23/2023	Solid	O1258-01	Percent Solids	Cool 4 deg C	RMJE02	N11	WASTE-VOA-2	01/20/2023	Chemtech -SO

Date/Time 01-20-23 15:43
Raw Sample Received by: JP (wc)
Raw Sample Relinquished by: JDCSM

Date/Time 01-20-23 17:25
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JP (wc)

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	Acid Cleanup	Extraction Start Date :	01/20/2023
Matrix :	Solid	Extraction Start Time :	10:35
Weigh By:	RJ	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		
		Concentration By:	RS
		Supervisor By :	rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP21413
Surrogate	1.0ML	200 PPB	PP21357
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	EP2294
Baked Na2SO4	N/A	EP2279
Sand	N/A	E2865
Hexane	N/A	E3455
H2SO4 1:1	N/A	EP2290
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 BTYS721.

KD Bath ID:	N/A	Envap ID:	NE VAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/20/23 15:40	RP (Ext. Lab)	AJ/B7/CA Lab
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/20/2023

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB150372BL	ABLK372	PCB	30.00	N/A	ritesh	RUPESH	10			U1-1
PB150372BS	ALCS372	PCB	30.02	N/A	ritesh	RUPESH	10			2
O1232-01	B-P-17A	PCB	30.04	N/A	ritesh	RUPESH	10			3
O1232-01MS	B-P-17AMS	PCB	30.09	N/A	ritesh	RUPESH	10			4
O1232-01MS D	B-P-17AMSD	PCB	30.07	N/A	ritesh	RUPESH	10			5
O1232-02	B-P-17B	PCB	30.08	N/A	ritesh	RUPESH	10			6
O1232-03	WC-17	PCB	30.03	N/A	ritesh	RUPESH	10			U4-1
O1232-04	B-P-18A	PCB	30.06	N/A	ritesh	RUPESH	10			2
O1232-05	B-P-18B	PCB	30.01	N/A	ritesh	RUPESH	10			3
O1232-06	B-P-19A	PCB	30.07	N/A	ritesh	RUPESH	10			4
O1232-07	B-P-19B	PCB	30.10	N/A	ritesh	RUPESH	10			5
O1232-08	B-P-35A	PCB	30.05	N/A	ritesh	RUPESH	10			6
O1232-09	B-P-35B	PCB	30.03	N/A	ritesh	RUPESH	10			U5-1
O1232-10	DUP01	PCB	30.09	N/A	ritesh	RUPESH	10			2
O1233-02	B-P34A	PCB	30.04	N/A	ritesh	RUPESH	10			3
O1233-03	B-P34B	PCB	30.01	N/A	ritesh	RUPESH	10			4
O1233-04	B-P36A	PCB	30.03	N/A	ritesh	RUPESH	10			5
O1233-05	B-P36B	PCB	30.06	N/A	ritesh	RUPESH	10			6
O1233-06	B-P37A	PCB	30.09	N/A	ritesh	RUPESH	10			U6-1
O1233-07	B-P37B	PCB	30.04	N/A	ritesh	RUPESH	10			2
O1233-08	B-P38A	PCB	30.07	N/A	ritesh	RUPESH	10			3
O1233-09	B-P38B	PCB	30.10	N/A	ritesh	RUPESH	10			4
O1233-10	WC-38	PCB	30.04	N/A	ritesh	RUPESH	10		Gasoline Smell	5
O1233-11	B-P38C	PCB	30.09	N/A	ritesh	RUPESH	10		Gasoline Smell	6

* Extracts relinquished on the same date as received.

2
1/20/23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : o1232

WorkList ID : 166731

Department : Extraction

Date : 01-20-2023 10:29:03

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/26/2023	Solid	O1232-01	PCB	Cool 4 deg C	loui01	N11	B-P-17A	01/18/2023	8082A
01/26/2023	Solid	O1232-02	PCB	Cool 4 deg C	loui01	N11	B-P-17B	01/18/2023	8082A
01/26/2023	Solid	O1232-03	PCB	Cool 4 deg C	loui01	N11	WC-17	01/18/2023	8082A
01/26/2023	Solid	O1232-04	PCB	Cool 4 deg C	loui01	N11	B-P-18A	01/18/2023	8082A
01/26/2023	Solid	O1232-05	PCB	Cool 4 deg C	loui01	N11	B-P-18B	01/18/2023	8082A
01/26/2023	Solid	O1232-06	PCB	Cool 4 deg C	loui01	N11	B-P-19A	01/18/2023	8082A
01/26/2023	Solid	O1232-07	PCB	Cool 4 deg C	loui01	N11	B-P-19B	01/18/2023	8082A
01/26/2023	Solid	O1232-08	PCB	Cool 4 deg C	loui01	N11	B-P-35A	01/18/2023	8082A
01/26/2023	Solid	O1232-09	PCB	Cool 4 deg C	loui01	N11	B-P-35B	01/18/2023	8082A
01/26/2023	Solid	O1232-10	PCB	Cool 4 deg C	loui01	N11	DUP01	01/18/2023	8082A
01/26/2023	Solid	O1233-02	PCB	Cool 4 deg C	loui01	N11	B-P-34A	01/18/2023	8082A
01/26/2023	Solid	O1233-03	PCB	Cool 4 deg C	loui01	N11	B-P-34B	01/18/2023	8082A
01/26/2023	Solid	O1233-04	PCB	Cool 4 deg C	loui01	N11	B-P-36A	01/18/2023	8082A
01/26/2023	Solid	O1233-05	PCB	Cool 4 deg C	loui01	N11	B-P-36B	01/18/2023	8082A
01/26/2023	Solid	O1233-06	PCB	Cool 4 deg C	loui01	N11	B-P-37A	01/18/2023	8082A
01/26/2023	Solid	O1233-07	PCB	Cool 4 deg C	loui01	N11	B-P-37B	01/18/2023	8082A
01/26/2023	Solid	O1233-08	PCB	Cool 4 deg C	loui01	N11	B-P-38A	01/18/2023	8082A
01/26/2023	Solid	O1233-09	PCB	Cool 4 deg C	loui01	N11	B-P-38B	01/18/2023	8082A
01/26/2023	Solid	O1233-10	PCB	Cool 4 deg C	loui01	N11	WC-38	01/18/2023	8082A
01/26/2023	Solid	O1233-11	PCB	Cool 4 deg C	loui01	N11	B-P-38C	01/18/2023	8082A

Date/Time 01/20/23 10:30
 Raw Sample Received by: RJ (Ed. 204)
 Raw Sample Relinquished by: Op Sm

Date/Time 01/20/23 10:55
 Raw Sample Received by: Op Sm
 Raw Sample Relinquished by: RJ (Ed. 204)

Prep Standard - Chemical Standard Summary**Order ID :** O1232**Test :** PCB**Prepbatch ID :** PB150372,**Sequence ID/Qc Batch ID:** PP012023,**Standard ID :**

EP2279,EP2290,EP2294,PP21357,PP21413,PP21417,PP21419,PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21427,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459,PP21460,PP21461,PP21462,PP21463,PP21464,PP21465,PP21466,PP21467,PP21468,PP21469,PP21470,PP21471,PP21472,PP21473,PP21474,PP21475,

Chemical ID :

E2865,E3412,E3436,E3453,E3454,E3455,E3456,M5211,P10092,P10101,P10154,P10479,P10490,P10494,P10496,P10786,P10787,P11048,P11053,P11366,P11367,P11493,P11503,P11508,P11515,P11583,P11593,W2606,

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Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2279	11/28/2022	04/13/2023	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/28/2022

FROM 4000.00000gram of E3412 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2290	01/17/2023	07/17/2023	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/17/2023

FROM 1000.00000ml of M5211 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

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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	EP2294	01/17/2023	07/16/2023	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/17/2023

FROM 8000.00000ml of E3455 + 8000.00000ml of E3456 = Final Quantity: 16000.000 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	PP21357	01/10/2023	06/08/2023	Abdul Mirza	None	None	Ankita Jodhani 01/12/2023

FROM 1.00000ml of P10786 + 999.00000ml of E3436 = Final Quantity: 1000.000 ml

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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	PP21413	01/16/2023	07/10/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of P11366 + 99.50000ml of E3454 = 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	PP21417	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P10787 + 9.00000ml of E3453 = Final Quantity: 10.000 ml

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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	PP21419	01/16/2023	07/10/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P11367 + 9.00000ml of E3454 = 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>
202	AR1660 1000/100 ppb working solution 1st source	PP21420	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P10479 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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>
203	AR1660 750 PPB STD	PP21421	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21420 = 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>
204	AR1660 500 PPB STD	PP21422	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21420 = Final Quantity: 1.000 ml

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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>
205	AR1660 250 PPB STD	PP21423	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21420 = 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>
206	AR1660 50 PPB STD	PP21424	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21422 = Final Quantity: 1.000 ml

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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>
213	AR1221 1000 PPB WORKING SOLUTION	PP21425	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P10490 + 99.40000ml of E3453 + 0.50000ml of PP21417 = 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>
1079	AR1221 750 PPB STD	PP21426	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21425 = Final Quantity: 1.000 ml

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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>
222	AR1221 500 PPB STD	PP21427	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21425 = 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>
1080	AR1221 250 PPB STD	PP21428	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21425 = Final Quantity: 1.000 ml

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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>
1081	AR1221 50 PPB STD	PP21429	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21427 = 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>
214	AR1232 1000 PPB WORKING SOLUTION	PP21430	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P11583 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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>
1063	AR1232 750 PPB STD	PP21431	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21430 = 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>
223	AR1232 500 PPB STD	PP21432	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21430 = Final Quantity: 1.000 ml

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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>
1064	AR1232 250 PPB STD	PP21433	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21430 = 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>
1065	AR1232 50 PPB STD	PP21434	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21432 = Final Quantity: 1.000 ml

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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>
215	AR1242 1000 PPB WORKING STD	PP21435	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P11048 + 99.40000ml of E3453 + 0.50000ml of PP21417 = 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>
1067	AR1242 750 PPB STD	PP21436	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21435 = Final Quantity: 1.000 ml

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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>
224	AR1242 500 PPB STD	PP21437	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21435 = 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>
1068	AR1242 250 PPB STD	PP21438	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21435 = Final Quantity: 1.000 ml

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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>
1069	AR1242 50 PPB STD	PP21439	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21437 = 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>
216	AR1248 1000 PPB WORKING STD	PP21440	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P11053 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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>
1075	AR1248 750 PPB STD	PP21441	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21440 = 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>
225	AR1248 500 PPB STD	PP21442	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21440 = Final Quantity: 1.000 ml

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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>
1076	AR1248 250 PPB STD	PP21443	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21440 = 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>
1077	AR1248 50 PPB STD	PP21444	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21442 = Final Quantity: 1.000 ml

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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>
217	AR1254 1000 PPB WORKING STD	PP21445	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 0.10000ml of P10494 + 99.40000ml of E3453 + 0.50000ml of PP21417 = 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>
1071	AR1254 750 PPB STD	PP21446	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 0.25000ml of E3453 + 0.75000ml of PP21445 = Final Quantity: 1.000 ml

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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>
226	AR1254 500 PPB STD	PP21447	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21445 = 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>
1072	AR1254 250 PPB STD	PP21448	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21445 = Final Quantity: 1.000 ml

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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>
1073	AR1254 50 PPB STD	PP21449	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21447 = 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>
1529	AR1262 1000 PPB Working Solution	PP21450	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P10496 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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>
3753	AR1262 750 PPB STD	PP21451	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21450 = 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>
1530	AR1262 500 PPB STD	PP21452	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21450 = Final Quantity: 1.000 ml

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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>
3754	AR1262 250 PPB STD	PP21453	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21450 = 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>
3755	AR1262 50 PPB STD	PP21454	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21452 = Final Quantity: 1.000 ml

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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>
1532	AR1268 1000 PPB Working Solution	PP21455	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.10000ml of P11593 + 99.40000ml of E3453 + 0.50000ml of PP21417 = 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>
3820	AR1268 750 PPB STD	PP21456	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.25000ml of E3453 + 0.75000ml of PP21455 = Final Quantity: 1.000 ml

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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>
1533	AR1268 500 PPB STD	PP21457	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21455 = 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>
3821	AR1268 250 PPB STD	PP21458	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.75000ml of E3453 + 0.25000ml of PP21455 = Final Quantity: 1.000 ml

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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>
3822	AR1268 50 PPB STD	PP21459	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.90000ml of E3453 + 0.10000ml of PP21457 = 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>
405	AR1660 1000/100 PPB ICV STD	PP21460	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 98.50000ml of E3453 + 0.50000ml of PP21417 + 1.00000ml of PP21419 = Final Quantity: 100.000 ml

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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	PP21461	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21460 = 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)	PP21462	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P11493 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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>
3790	AR1221 500 PPB ICV(AGILENT)	PP21463	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21462 = 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	PP21464	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 1.00000ml of P10101 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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	PP21465	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21464 = 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	PP21466	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P11503 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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	PP21467	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21466 = 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	PP21468	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 1.00000ml of P11508 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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	PP21469	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21468 = 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	PP21470	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P11515 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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	PP21471	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 0.50000ml of E3453 + 0.50000ml of PP21470 = 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	PP21472	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
01/16/2023								

FROM 1.00000ml of P10154 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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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	PP21473	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21472 = 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	PP21474	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel
								01/16/2023

FROM 1.00000ml of P10092 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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<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	PP21475	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Yogesh Patel 01/16/2023
<u>FROM</u>	0.50000ml of E3453 + 0.50000ml of PP21474 = 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	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	139404	10/23/2023	10/18/2022 / Rajesh	10/13/2022 / Rajesh	E3412

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)	22E1562001	06/08/2023	12/08/2022 / Rajesh	12/05/2022 / Rajesh	E3436

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)	22G0362002	07/03/2023	01/03/2023 / Rajesh	01/03/2023 / Rajesh	E3453

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	22J2461015	07/10/2023	01/10/2023 / Rajesh	01/03/2023 / Rajesh	E3454

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)	22G0362002	07/16/2023	01/16/2023 / Rajesh	01/11/2023 / Rajesh	E3455

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	22J0461011	07/17/2023	01/17/2023 / Rajesh	01/11/2023 / Rajesh	E3456

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)	22D0862014	01/20/2025	08/22/2022 /	04/26/2022 / mohan	M5211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006478417	07/16/2023	01/16/2023 / Ankita	12/03/2020 / Abdul	P10092

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-302-1 / Aroclor 1232	CF-2197A	07/16/2023	01/16/2023 / Ankita	12/03/2020 / Abdul	P10101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-372-1 / Aroclor 1262	0006499800	07/16/2023	01/16/2023 / Ankita	01/12/2021 / Abdul	P10154

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	A0163157	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Abdul	P10479

CHEMICAL RECEIPT LOG BOOK

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	A0159630	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Abdul	P10490

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	A0160220	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Abdul	P10494

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	A0167722	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Ankita	P10496

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	A0172332	07/10/2023	01/10/2023 / Abdul	06/17/2021 / dhaval	P10786

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	A0172332	07/16/2023	01/16/2023 / Ankita	06/17/2021 / dhaval	P10787

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	A0167551	07/13/2023	01/13/2023 / Ankita	09/03/2021 / Abdul	P11048

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	A0162497	07/13/2023	01/13/2023 / Ankita	09/03/2021 / Abdul	P11053

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	07/16/2023	01/16/2023 / Ankita	02/03/2022 / yogesh	P11366

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	07/16/2023	01/16/2023 / Ankita	02/03/2022 / yogesh	P11367

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-292-1 / Aroclor 1221	0006535333	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11493

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-312-1 / Aroclor 1242	0006665550	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11503

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-342-1 / Aroclor 1248	0006626997	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11508

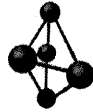
CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-352-1 / Aroclor 1254	CS-2321	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11515

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	A0173309	07/13/2023	01/13/2023 / Ankita	03/18/2022 / Abdul	P11583

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	A0181782	07/13/2023	01/13/2023 / Ankita	03/18/2022 / Abdul	P11593

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

20064
033121
CLP PCBs - Aroclor Mix
Aroclors 1016 & 1260
033131
Ambient (20 °C)
1000
6UTB

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

Solvent(s):
Hexane

Lot#
233256

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

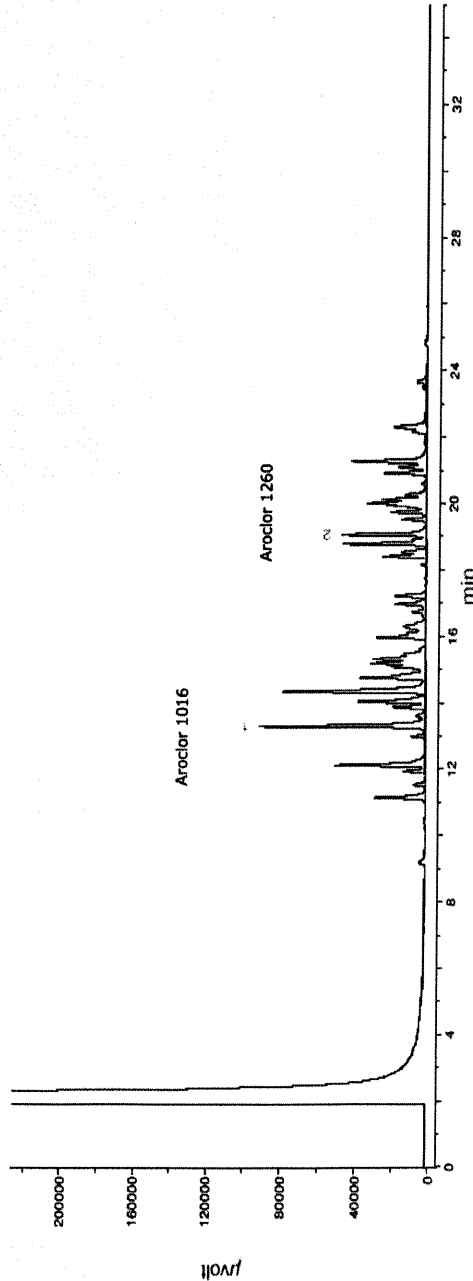
Weight(s) shown below were combined and diluted to (mL): 200.1

Formulated By:	Prashant Chauhan	033121	DATE
Reviewed By:	Pedro L. Rentas	033121	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Expanded Uncertainty (+/-) (µg/mL)	Actual Weight(g)	Actual Conc (µg/mL)	SDS Information	
								(Solvent Safety Info. On Attached pg.)	
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20007	1000.9	12674-11-2	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20035	1001.4	11096-82-5	0.5mg/m3 ot-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).
* 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 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 = 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 = Etdaq Channel 1
Standard injection = 1.5µL, Range=3

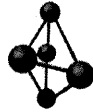


P 11364

↓

P 11373

Y.P.
02/03/22



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

20064
033121
CLP PCBs - Aroclor Mix
Aroclors 1016 & 1260
033131
Ambient (20 °C)
1000
6UTB

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

Solvent(s):
Hexane

Lot#
233256

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

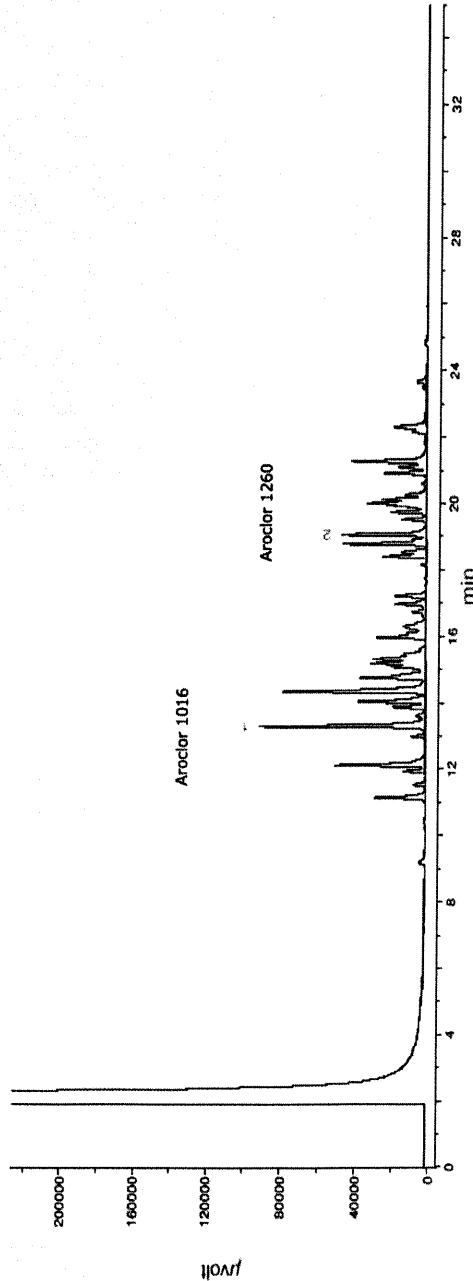
200.1

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Expanded Uncertainty (+/-) (µg/mL)	Actual Weight(g)	Actual Conc (µg/mL)	SDS Information	
								(Solvent Safety Info. On Attached pg.)	
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20007	1000.9	12674-11-2	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20007	1001.4	11096-82-5	0.5mg/m3 ot-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).
- 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 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 = 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 = Etdaq Channel 1
Standard injection = 1.5µL, Range=3



P 11364

P 11373

Y.P.
02/03/22



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

DD
06/17/2021

Catalog No.: 32000 Lot No.: A0172332
Description: Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: August 31, 2027 Storage: 10°C or colder
Handling: Contains PCBs - sonicate prior to use. Ship: Ambient

P10783
To - (10)
P10792

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	200.7 µg/mL	+/- 1.1840 µg/mL Gravimetric +/- 6.3622 µg/mL Unstressed +/- 8.3106 µg/mL Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 30679) Purity 99%	200.2 µg/mL	+/- 1.1810 µg/mL Gravimetric +/- 6.3463 µg/mL Unstressed +/- 8.2897 µg/mL Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

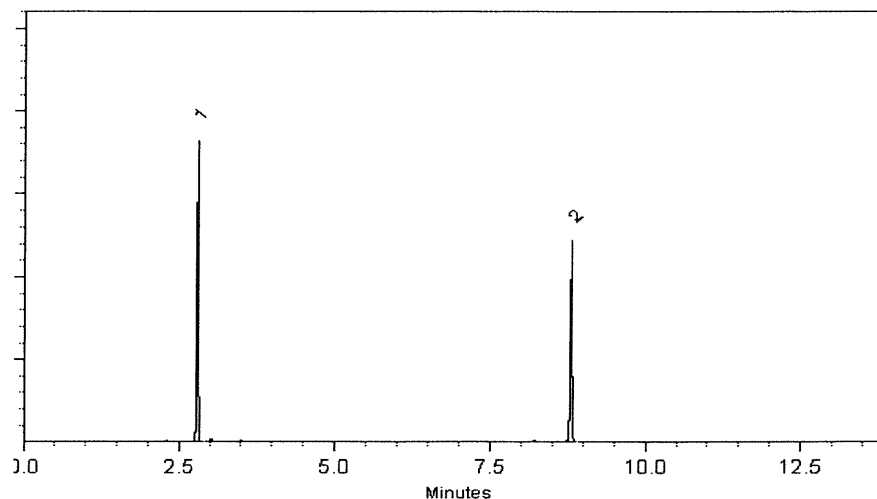
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 12-May-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 14-May-2021

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

DD
06/17/2021

Catalog No.: 32000 Lot No.: A0172332
Description: Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: August 31, 2027 Storage: 10°C or colder
Handling: Contains PCBs - sonicate prior to use. Ship: Ambient

P10783
To - (10)
P10792

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	200.7 µg/mL	+/- 1.1840 µg/mL Gravimetric +/- 6.3622 µg/mL Unstressed +/- 8.3106 µg/mL Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 30679) Purity 99%	200.2 µg/mL	+/- 1.1810 µg/mL Gravimetric +/- 6.3463 µg/mL Unstressed +/- 8.2897 µg/mL Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

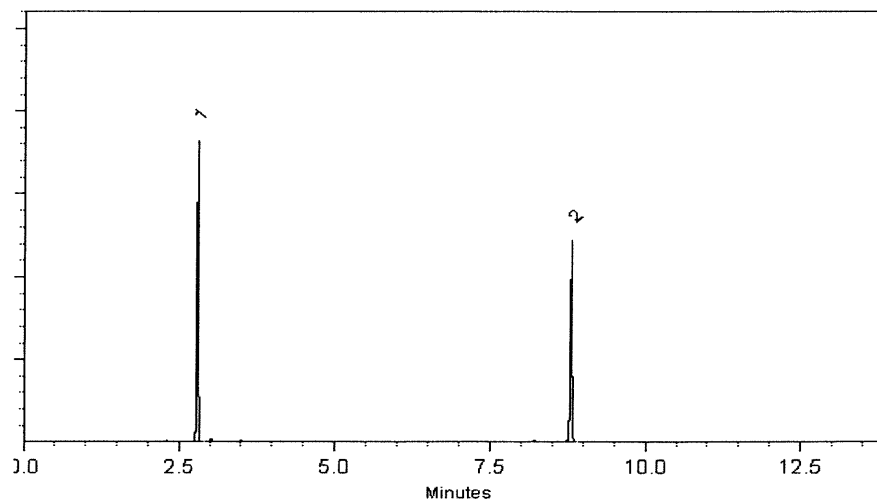
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 12-May-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 14-May-2021

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

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

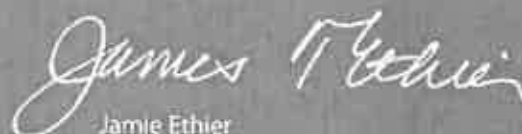
Certificate of Analysis

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



MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
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 :** Na₂SO₄
SPECIFICATION NUMBER : 6399 **RELEASE DATE:** OCT/28/2021
LOT NUMBER : 139404

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.0
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%	0.002 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	97.6 %
Through US Standard No. 60 sieve	Max. 5%	2.1 %
Through US Standard No. 100 sieve	Max. 10%	0.2 %
COMMENTS		
 QC: PhC Irma Belmares		

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

E 3412

Recd. by RP on 10/13/22

RE-02-01, Ed. 3

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 22E1562001
Manufactured Date: 2022-05-03
Expiration Date: 2025-05-02
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.8 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/5/22

E3436

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

Material No.: 9262-03
Batch No.: 22G0362002
Manufactured Date: 2022-06-17
Expiration Date: 2023-09-16
Revision No.: 0

Certificate of Analysis

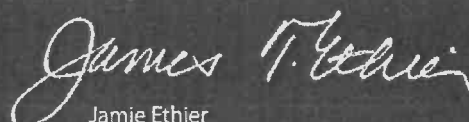
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	2
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.5 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	97 %
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)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 01/03/23

E 3453


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

Page 1 of 1

Acetone
CMOS



Material No.: 9005-05
Batch No.: 22J2461015
Manufactured Date: 2022-10-20
Retest Date: 2027-10-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.7 %
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 %	0.2 %
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	3.4 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

>>> Continued on page 2 >>>

Recd. by RP on 01/03/23

E 3454

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

Acetone
CMOS



Material No.: 9005-05
Batch No.: 22J2461015

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	< 5.0 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	1.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 μ m and greater (Rion KS42AF)	≤ 100 par/ml	15 par/ml
Particle Count - 1.0 μ m and greater (Rion KS42AF)	≤ 8 par/ml	4 par/ml

>>> Continued on page 3 >>>

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

Material No.: 9262-03
Batch No.: 22G0362002
Manufactured Date: 2022-06-17
Expiration Date: 2023-09-16
Revision No.: 0

Certificate of Analysis

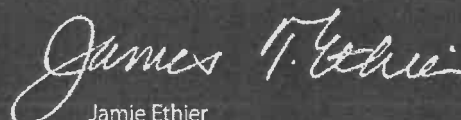
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	2
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.5 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	97 %
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)	≤ 0.05 %	< 0.01 %

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

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

Recd by RL on 11/11/23

E 3455


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

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Page 1 of 1

Acetone
CMOS



Material No.: 9005-05
Batch No.: 22J0461011
Manufactured Date: 2022-09-29
Retest Date: 2027-09-28
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	0.2
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.2 %
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	4.9 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 R2 on 01/11/23

>>> Continued on page 2 >>>

E 3456

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

Acetone
CMOS



Material No.: 9005-05
Batch No.: 22J0461011

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	< 5.0 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	1.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	4 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

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

Acetone
CMOS

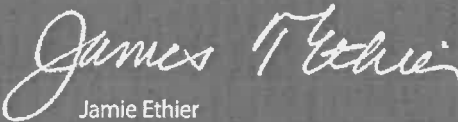


Material No.: 9005-05
Batch No.: 22J0461011

Test	Specification	Result
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For Microelectronic Use

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


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

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 22D0862014

Manufactured Date: 2022-02-23

Retest Date: 2027-02-22

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

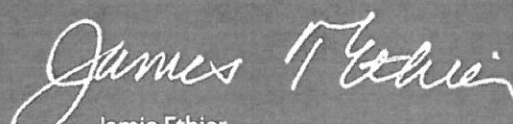


Material No.: 9673-33
Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	6.2 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.6 ppb

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality



Certificate of Analysis ISO 17034

Aroclor 1268 Standard

Product Number: PP-382-1

Page: 1 of 1

Lot Number: 0006478417

Lot Issue Date: 24-Jul-2019

Expiration Date: 31-Aug-2027

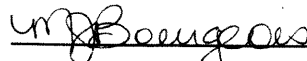
This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1268	011100-14-4	RM00937	100.3 ± 0.5 µg/mL

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

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

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative

P10088
↓
P10092
AR
12/03/20



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO 17025 Cert No.
AT-1937



Certificate of Analysis ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1

Page: 1 of 1

Lot Number: CF-2197A

Lot Issue Date: 05-Jul-2016

Expiration Date: 31-Aug-2023

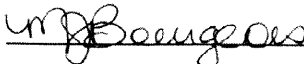
This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

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

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

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative

P10098
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P10102
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AR
12/03/20



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937



Certificate of Analysis ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1

Page: 1 of 1

Lot Number: 0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

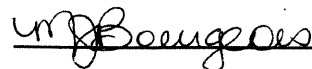
This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

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

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

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative

P10151
↓
P10155

AR
01/12/2021



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO 17025 Cert No.
AT-1937



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32039 **Lot No.:** A0163157

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 : November 30, 2026 **Storage:** 25°C nominal

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1016 CAS # 12674-11-2 (Lot 04) Purity ----%	1,007.0 µg/mL	+/- 5.8683 µg/mL Gravimetric +/- 31.9082 µg/mL Unstressed +/- 41.6868 µg/mL Stressed
2	Aroclor 1260 CAS # 11096-82-5 (Lot 07) Purity ----%	1,008.0 µg/mL	+/- 5.8741 µg/mL Gravimetric +/- 31.9399 µg/mL Unstressed +/- 41.7282 µg/mL Stressed

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

P 10476

P 10480

AR
02/19/21

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

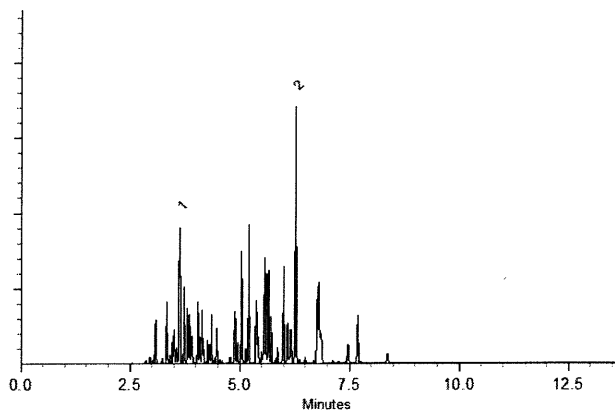
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Tom Suckar - Mix Technician

Date Mixed: 03-Aug-2020

Balance: B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 05-Aug-2020

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32007 **Lot No.:** A0159630
Description : Aroclor® 1221 Standard
Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2026 **Storage:** 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1221 CAS # 11104-28-2 (Lot 8041300) Purity ----%	1,000.7 µg/mL	+/- 5.9437 µg/mL Gravimetric +/- 31.7284 µg/mL Unstressed +/- 41.4406 µg/mL Stressed

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

P-10486
↓
P-10490
AR
03/19/21

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

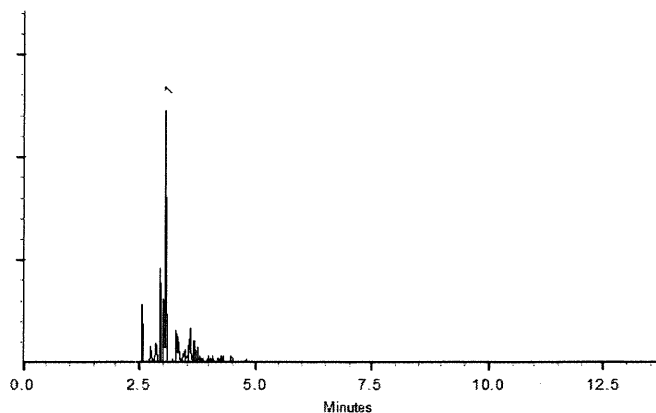
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Russ Bookhamer - Operations Technician I

Date Mixed: 06-Apr-2020

Balance: 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 08-Apr-2020

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



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32011 **Lot No.:** A0160220
Description : Aroclor® 1254 Standard
Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2026 **Storage:** 25°C nominal
Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1254	1,005.0 µg/mL	+/- 5.9694 µg/mL Gravimetric
	CAS # 11097-69-1 (Lot 124-191-B)		+/- 31.8658 µg/mL Unstressed
	Purity ----%		+/- 41.6201 µg/mL Stressed

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

P10491
↓
P10495
AR
03/19/21

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

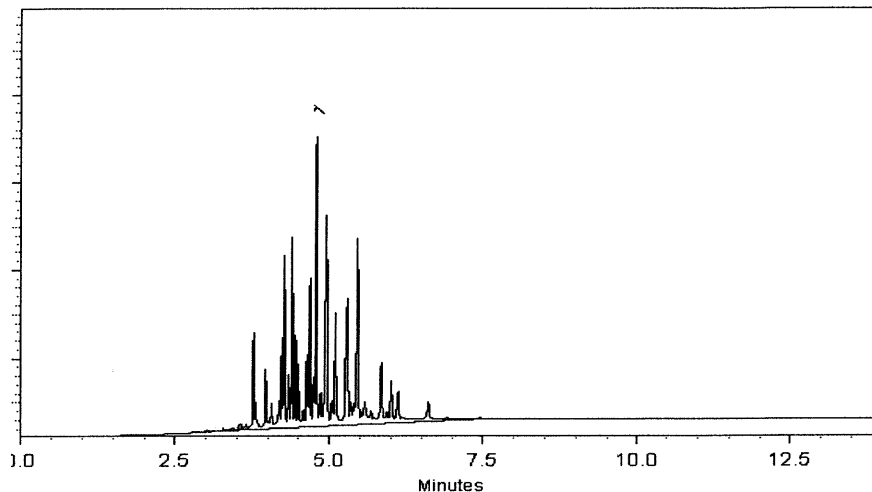
250°C

Det. Temp:

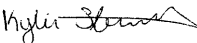
300°C

Det. Type:

ECD

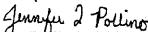


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Kyle Struble - Operations Technician I

Date Mixed: 22-Apr-2020

Balance: 1128360905


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Apr-2020

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



CERTIFIED REFERENCE MATERIAL

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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. : 32409 Lot No.: A0167722
Description : Aroclor® 1262 Standard
Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : April 30, 2027 Storage: 25°C nominal
Handling: This product contains PCBs. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1262	1,004.0 µg/mL	+/- 5.9635 µg/mL Gravimetric
	CAS # 37324-23-5 (Lot 10849100)		+/- 31.8340 µg/mL Unstressed
	Purity ----%		+/- 41.5787 µg/mL Stressed

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

P10496
↓
P10500

AJ
09/19/21

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

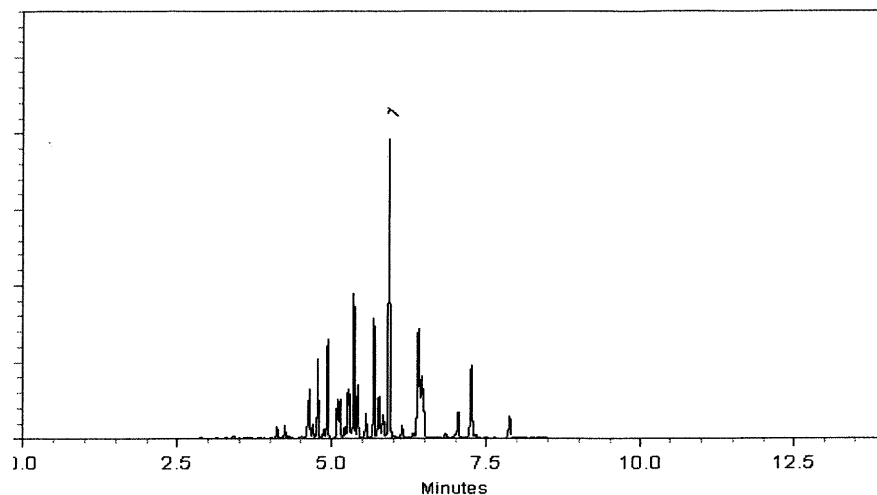
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 03-Jan-2021

Balance: B707717271

Marlene Cowan
Marlene Cowan - Operations Tech I

Date Passed: 05-Jan-2021

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



CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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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. : 32009 Lot No.: A0167551
Description : Aroclor® 1242 Standard
Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2027 Storage: 25°C nominal
Handling: This product contains PCBs. Ship: Ambient

P11046
To
P11050
AR
09/9/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1242	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/- 31.8975 µg/mL Unstressed
	Purity ----%		+/- 41.6615 µg/mL Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

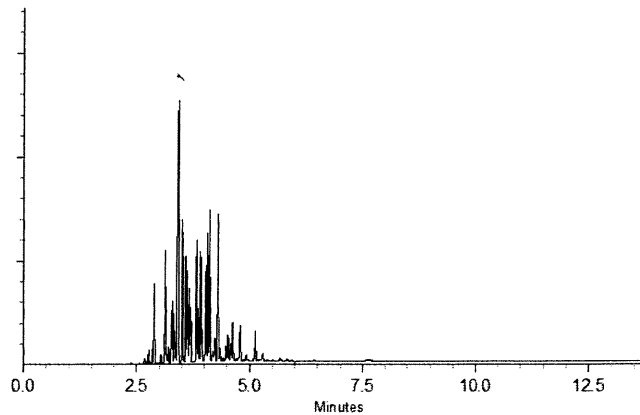
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Tom Suckar - Mix Technician

Date Mixed: 28-Dec-2020

Balance: B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 30-Dec-2020

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

P11046
↓

P11050

AR
09/9/2021



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 32010 Lot No.: A0162497
Description: Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2026 Storage: 25°C nominal
Handling: This product contains PCBs.

P11051
TO
P11055
AR
09/19/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1248	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric
	CAS # 12672-29-6 (Lot 9303900)		+/- 31.8975 µg/mL Unstressed
	Purity ----%		+/- 41.6615 µg/mL Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

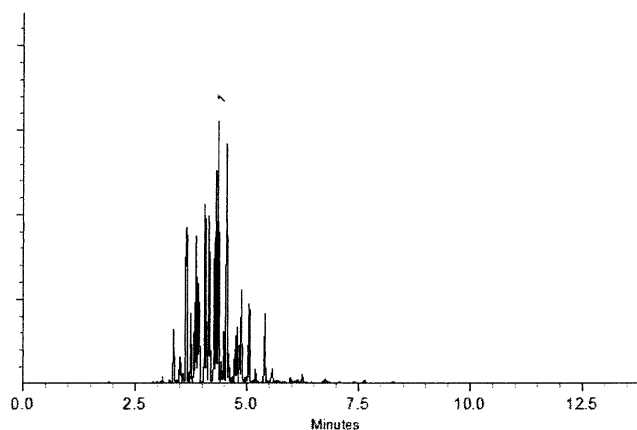
250°C

Det. Temp:

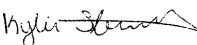
300°C

Det. Type:

ECD

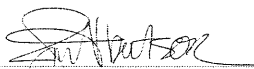


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Kyle Struble - Operations Technician I

Date Mixed: 13-Jul-2020

Balance: 1128360905


Justine Alberson - Operations Tech-ARM QC

Date Passed: 16-Jul-2020

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

P11051
↓
P11055
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AR
9/7/2021



Certificate of Analysis

P11493
↓
P11494

AJ
02/21/22

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1

Lot Issue Date: 28-Apr-2020

Lot Number: 0006535333

Expiration Date: 31-May-2024

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 1221	011104-28-2	RM04278	100.2 ± 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/NCCL 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.

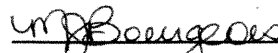
Expiration of Certification:

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

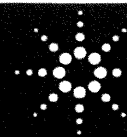
Page: 1 of 1

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



ISO 17025 Cert
No. AT-1937

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.

P11503
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P11507A7
02/21/22

Page: 1 of 2

CSD-QA-015.1

ISO 17034



Agilent

Trusted Answers

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

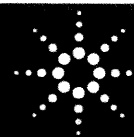
www.agilent.com/quality/

CSD-QA-015.1



ISO 17025
Cert No. AT-

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Aroclor 1248 Standard

Lot Number: 0006626997

Product Number: PP-342-1

Lot Issue Date: 17-Aug-2021

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

Expiration Date: 30-Sep-2025

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
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 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.

P11508

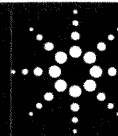
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P11512

AJ

2/21/22

ISO 17034



Agilent

Trusted Answers

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-1937



Certificate of Analysis

Aroclor 1254 Solution

Product Number: PP-352

Page: 1 of 1

Lot Number: CS-2321

Lot Issue Date: 04-May-2018

Expiration Date: 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

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

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

P11513
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P11517
AJ
02/21/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
Registered
TUV USA, Inc.

John Russo
President

Monica Bourgeois
Director of QA/RA



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32008 Lot No.: A0173309
Description : Aroclor® 1232 Standard
Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : September 30, 2027 Storage: 25°C nominal
Handling: This product contains PCBs. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1232	1,001.0 µg/mL	+/- 5.9456 µg/mL Gravimetric
	CAS # 11141-16-5 (Lot 15665-01)		+/- 31.7389 µg/mL Unstressed
	Purity ----%		+/- 41.4544 µg/mL Stressed

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

P11583
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P11587 / (S)

AR
04/30/22

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

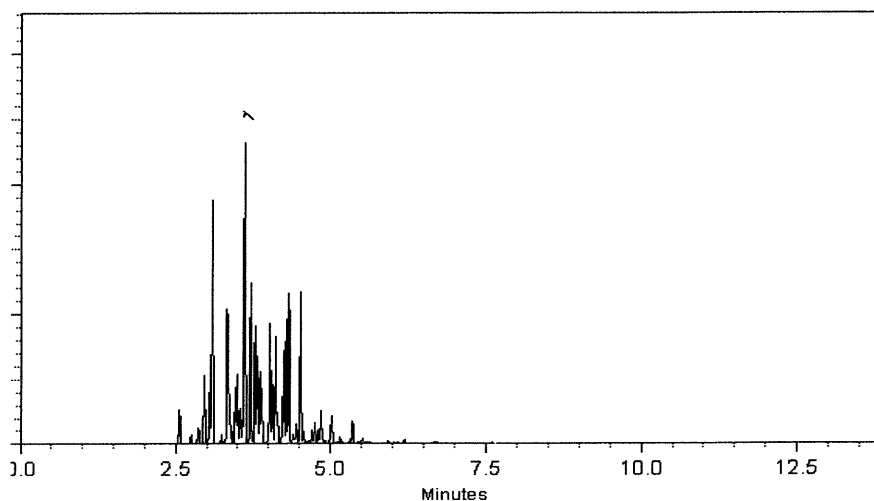
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 13-Jun-2021

Balance: B442140311

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 16-Jun-2021

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

P11583
↓
P11587 / (5)

AR
04/30/22



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32410 Lot No.: A0181782
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, 2028 Storage: 25°C nominal
Handling: This product contains PCBs. Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1268 CAS # 11100-14-4 Purity ----%	1,001.4 µg/mL (Lot 10947000)	+/- 5.9480 µg/mL Gravimetric +/- 31.7516 µg/mL Unstressed +/- 41.4710 µg/mL Stressed

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

P 11593
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P 11597
⑤

UAR
04/30/2022

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

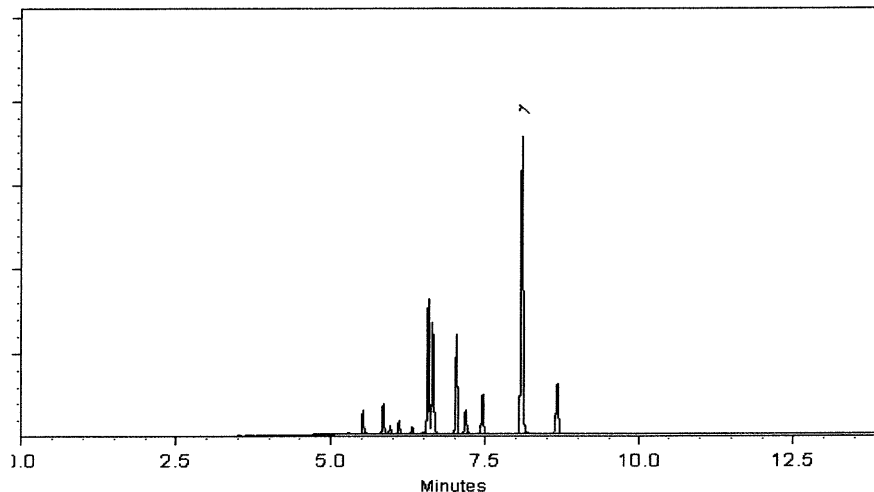
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Penelope S. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 14-Feb-2022

Balance: 1128360905

Clara Windle
Clara Windle - Operations Technician I

Date Passed: 17-Feb-2022

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

P 11593 / (5)
↓
P 11597
[Signature]
04/30/2022

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

01232/33

COC Number:

CLIENT INFORMATION

COMPANY: Louis Berger dba WSP USA Inc.

ADDRESS: 350 Mt. Kemble Ave

CITY: Morristown STATE: NJ ZIP: 07962

ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com)

PHONE: 212-612-7995

FAX:

PROJECT INFORMATION

PROJECT NAME: HWR1140A PCSMP Ph II SCI

PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island

PROJECT MANAGER: Jon Ganz

E-MAIL: Jon.Ganz@wsp.com

PHONE: 212-612-7995

FAX:

BILLING INFORMATION

BILL TO: Louis Berger

PO# 31202661.297 Task 02

ADDRESS: 350 Mt. Kemble Ave

CITY: Morristown

STATE: NJ ZIP: 07962

ATTENTION: Jon Ganz

PHONE: 212-612-7995

DATA TURNAROUND INFORMATION

HARD COPY: _____ DAYS*
EDD See Contract Rates below _____ DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

TCL VOC - 2 days

TCL SVOC - 5 days

PAH - 5 days

TPH GRO/DRO - 3 days

TAL Metals - 5 Days

PCBs and Pesticides - 5 Day

TCLP RCRA Metals - 5 Day

RCRA Characteristics and Paint Filter - 3 Days

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____

Level 2

☐ EDD Format

ANALYSIS

TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8) EPA 1311/ 6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B)	Paint Filter Test (EPA 9095B)
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	Preservatives									Comments ← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	B-P17A	507		X	1/18/23	0950	1	X	X	X	X	X					
2.	B-P17B	507		X	1/18/23	1005	1	X	X	X	X	X					
3.	WCL7	507	X		1/18/23	1010	1						X	X	X	X	
4.	B-P18A			X	1/18/23	1025		X	X	X	X	X					
5.	B-P18B			X	1/18/23	1045		X	X	X	X	X					
6.	B-P19A			X	1/18/23	1125		X	X	X	X	X					
7.	B-P19B			X	1/18/23	1135		X	X	X	X	X					
8.	B-P35A			X	1/18/23	1225		X	X	X	X	X					
9.	B-P35B			X	1/18/23	1245		X	X	X	X	X					
10.	DUPO1			X				X	X	X	X	X					

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	1333	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3.0</u>
1.	1/19/23		1-19-23	MeOH extraction requires an additional 4oz. Jar for percent solid
RELINQUISHED BY	DATE/TIME	RECEIVED BY		Comments:
2.	1-19-23	2.		
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
3.	1-19-23	3.		CHEMTECH: ☐ Picked Up ☐ Overnight
Page <u>1</u> of <u>3</u>				Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: <u>01232/33</u>																																						
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																																						
COMPANY: Louis Berger dba WSP USA Inc. ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com) PHONE: 212-612-7995 FAX:		PROJECT NAME: HWR1140A PCSMP Ph II SCI PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island PROJECT MANAGER: Jon Ganz E-MAIL: Jon.Ganz@wsp.com PHONE: 212-612-7995 FAX:		BILL TO: Louis Berger PO# 31202661.297 Task 02 ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jon Ganz PHONE: 212-612-7995																																						
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																						
FAX: _____ DAYS HARD COPY: _____ DAYS* EDD See Contract Rates below DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS TCL VOC - 2 days TCL SVOC - 5 days PAH - 5 days TPH GRO/DRO - 3 days TAL Metals - 5 Days PCBs and Pesticides - 5 Day TCLP RCRA Metals - 5 Day RCRA Characteristics and Paint Filter - 3 Days		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ Level 2 ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>TCL VOC (8260C)</th> <th>TCL SVOC (8270C/625)</th> <th>TCL Pest (8081A/608)</th> <th>PCB (3550B, 8082/608)</th> <th>TAL Metals (7471A and 6010B)</th> <th>PCBs (8082), PAHs (8270)</th> <th>TCLP Metals (RCRA 8) EPA 1311/6010B</th> <th>RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B</th> <th>TPH-DRO/GRO (8015B)</th> <th>Paint Filter Test (EPA 9095B)</th> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>		TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8) EPA 1311/6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B)	Paint Filter Test (EPA 9095B)	1	2	3	4	5	6	7	8	9																		
TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8) EPA 1311/6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B)	Paint Filter Test (EPA 9095B)																																	
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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: <u>01232/33</u> COC Number:																				
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																				
COMPANY: Louis Berger dba WSP USA Inc.		PROJECT NAME: HWR1140A PCSMP Ph II SCI		BILL TO: Louis Berger PO# 31202661.297 Task 02																				
ADDRESS: 350 Mt. Kemble Ave		PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island		ADDRESS: 350 Mt. Kemble Ave																				
CITY: Morristown STATE: NJ ZIP: 07962		PROJECT MANAGER: Jon Ganz		CITY: Morristown STATE: NJ ZIP: 07962																				
ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com)		E-MAIL: Jon.Ganz@wsp.com		ATTENTION: Jon Ganz PHONE: 212-612-7995																				
PHONE: 212-612-7995 FAX:		PHONE: 212-612-7995 FAX:																						
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																				
FAX: _____ DAYS HARD COPY: _____ DAYS* EDD See Contract Rates below DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS TCL VOC - 2 days TCL SVOC - 5 days PAH - 5 days TPH GRO/DRO - 3 days TAL Metals - 5 Days PCBs and Pesticides - 5 Day TCLP RCRA Metals - 5 Day RCRA Characteristics and Paint Filter - 3 Days		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ Level 2 ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL VOC (8260C)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL SVOC (8270C/625)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL Pest (8081A/608)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCB (3550B, 8082/608)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TAL Metals (7471A and 6010B)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs (8082), PAHs (8270)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP Metals (RCRA 8)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA 1311/6010B</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-DRO/GRO (8015B), Paint Filter Test (EPA 9095B)</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8)	EPA 1311/6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B), Paint Filter Test (EPA 9095B)	1	2	3	4	5	6	7	8	9
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1	2	3	4	5	6	7	8	9																
				PRESERVATIVES																				
				COMMENTS																				
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles																			
			COMP GRAB	DATE TIME																				
1.	B-P38C	soil		X 1/18/23 2350	1																			
2.																								
3.																								
4.																								
5.																								
6.																								
7.																								
8.																								
9.																								
10.																								

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3.0</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments:
1. <u>[Signature]</u>	1/19/23	<u>[Signature]</u>	Page <u>3</u> of <u>3</u> SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight Shipment Complete ☐ YES ☐ NO
2. <u>[Signature]</u>	1-19-23	<u>[Signature]</u>	
3. <u>[Signature]</u>	1-19-23	<u>[Signature]</u>	

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



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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16



LOGIN REPORT/SAMPLE TRANSFER

Order ID : O1232 loui01
Client Name : Louis Berger U.S., Inc., A V
Client Contact : Jonathan Ganz
Invoice Name : Louis Berger U.S., Inc., A V
Invoice Contact : Jonathan Ganz

Order Date : 1/19/2023 1:44:00 PM
Project Name : NYCDDC Phase II SCI Artl
Receive DateTime : 1/19/2023 12:00:00 AM
Purchase Order : 18:05

Project Mgr :
Report Type : Level 1
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O1232-01	B-P-17A	Solid	01/18/2023	09:50	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-02	B-P-17B	Solid	01/18/2023	10:05	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-04	B-P-18A	Solid	01/18/2023	10:25	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-05	B-P-18B	Solid	01/18/2023	10:45	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-06	B-P-19A	Solid	01/18/2023	11:25	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-07	B-P-19B	Solid	01/18/2023	11:35	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-08	B-P-35A	Solid	01/18/2023	12:25	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-09	B-P-35B	Solid	01/18/2023	12:45	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1232-10	DUP01	Solid	01/18/2023	00:00					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O1232	loui01	Order Date : 1/19/2023 1:44:00 PM	Project Mgr :
Client Name : Louis Berger U.S., Inc., A V		Project Name : NYCDDC Phase II SCI Artl	Report Type : Level 1
Client Contact : Jonathan Ganz		Receive DateTime : 1/19/2023 12:00:00 AM	EDD Type : Excel NY
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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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VOC-TCLVOA-10

8260D

2 Bus. Days

JAN samples

*stored in roa
#22 #02*

Relinquished By :

cl

Date / Time :

1/20/23 9:20

Received By :

mmTadu

Date / Time :

1/20/23 9:20

Storage Area : VOA Refridgerator Room