



Cover Page

Order ID : P1747

Project ID : Walter Gladwin Recreation Center, Bronx, NY

Client : LiRo Engineers, Inc.

Lab Sample Number

P1747-01
P1747-02
P1747-03
P1747-04
P1747-05
P1747-06
P1747-07
P1747-08
P1747-09
P1747-10

Client Sample Number

MW-01
MW-01-DUP
MW-01
MW-02
MW-04
TRIP-BLANK
MW-01
MW-01-DUP
MW-02
MW-04

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: 3/18/2024

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 #: P1747

Completed

For thorough review, the report must have the following:

GENERAL:

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

☒

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

☒

Is the chain of custody signed and complete

☒

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

☒

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

☒**COVER PAGE:**

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

☒

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

☒**CHAIN OF CUSTODY:**

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

☒

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

☒

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

☒

Were the samples received within hold time

☒

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

☒**ANALYTICAL:**

Was method requirement followed?

☒

Was client requirement followed?

☒

Does the case narrative summarize all QC failure?

☒

All runlogs and manual integration are reviewed for requirements

☒

All manual calculations and /or hand notations verified

☒

1st Level QA Review Signature: MAYUR DESAI

Date: 03/18/2024

2nd Level QA Review Signature: _____

Date: _____



284 Sheffield Street, Mountainside, New Jersey - 07092

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

LAB CHRONICLE

OrderID: P1747	OrderDate: 3/13/2024 12:28:00 PM
Client: LiRo Engineers, Inc.	Project: Walter Gladwin Recreation Center, Bronx, NY
Contact: Steve Frank	Location: I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	MW-01	WATER	PCB	8082A	03/12/24	03/14/24	03/14/24	03/13/24
P1747-02	MW-01-DUP	WATER	PCB	8082A	03/12/24	03/14/24	03/14/24	03/13/24
P1747-03	MW-01	WATER	PCB	608.3	03/13/24	03/14/24	03/15/24	03/13/24
P1747-04	MW-02	WATER	PCB	8082A	03/12/24	03/14/24	03/14/24	03/13/24
P1747-05	MW-04	WATER	PCB	8082A	03/12/24	03/14/24	03/14/24	03/13/24



Hit Summary Sheet
SW-846

SDG No.:

P1747

Order ID:

P1747

Client:

LiRo Engineers, Inc.

Project ID:

Walter Gladwin Recreation Center, Br

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
Total Concentration:				0.000				

QC
SUMMARY

Surrogate Summary

SDG No.: **P1747**

Client: **LiRo Engineers, Inc.**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO102408.D	PIBLK-PO102408.D	Tetrachloro-m-xylene	1	20	17.9	90		60	140
		Decachlorobiphenyl	1	20	18.4	92		60	140
		Tetrachloro-m-xylene	2	20	17.6	88		60	140
		Decachlorobiphenyl	2	20	18.3	92		60	140
I.BLK-PO102500.D	PIBLK-PO102500.D	Tetrachloro-m-xylene	1	20	20.0	100		60	140
		Decachlorobiphenyl	1	20	26.1	131		60	140
		Tetrachloro-m-xylene	2	20	19.9	100		60	140
		Decachlorobiphenyl	2	20	27.5	137		60	140
PB159587BL	PB159587BL	Tetrachloro-m-xylene	1	20	19.1	96		21	155
		Decachlorobiphenyl	1	20	23.7	118		10	173
		Tetrachloro-m-xylene	2	20	18.8	94		21	155
		Decachlorobiphenyl	2	20	25.0	125		10	173
PB159587BS	PB159587BS	Tetrachloro-m-xylene	1	20	20.0	100		21	155
		Decachlorobiphenyl	1	20	24.2	121		10	173
		Tetrachloro-m-xylene	2	20	17.7	89		21	155
		Decachlorobiphenyl	2	20	25.7	128		10	173
PB159587BSD	PB159587BSD	Tetrachloro-m-xylene	1	20	19.5	97		21	155
		Decachlorobiphenyl	1	20	23.7	119		10	173
		Tetrachloro-m-xylene	2	20	17.5	88		21	155
		Decachlorobiphenyl	2	20	25.1	126		10	173
P1747-01	MW-01	Tetrachloro-m-xylene	1	20	19.2	96		21	155
		Decachlorobiphenyl	1	20	18.9	94		10	173
		Tetrachloro-m-xylene	2	20	19.1	96		21	155
		Decachlorobiphenyl	2	20	19.8	99		10	173
P1747-02	MW-01-DUP	Tetrachloro-m-xylene	1	20	19.0	95		21	155
		Decachlorobiphenyl	1	20	18.2	91		10	173
		Tetrachloro-m-xylene	2	20	19.6	98		21	155
		Decachlorobiphenyl	2	20	19.5	98		10	173
P1747-04	MW-02	Tetrachloro-m-xylene	1	20	19.7	98		21	155
		Decachlorobiphenyl	1	20	19.0	95		10	173
		Tetrachloro-m-xylene	2	20	19.5	97		21	155
		Decachlorobiphenyl	2	20	20.5	103		10	173
P1747-05	MW-04	Tetrachloro-m-xylene	1	20	20.4	102		21	155
		Decachlorobiphenyl	1	20	21.0	105		10	173
		Tetrachloro-m-xylene	2	20	20.7	104		21	155
		Decachlorobiphenyl	2	20	22.7	113		10	173
I.BLK-PO102520.D	PIBLK-PO102520.D	Tetrachloro-m-xylene	1	20	20.7	104		60	140
		Decachlorobiphenyl	1	20	27.7	138		60	140
		Tetrachloro-m-xylene	2	20	20.9	104		60	140
		Decachlorobiphenyl	2	20	29.7	149	*	60	140
PB159600BS	PB159600BS	Tetrachloro-m-xylene	1	20	15.7	79		60	140
		Decachlorobiphenyl	1	20	20.7	103		60	140
		Tetrachloro-m-xylene	2	20	15.7	79		60	140



Surrogate Summary

SDG No.: P1747

Client: LiRo Engineers, Inc.

Analytical Method: 608.3 PCB

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
PB159600BS	PB159600BS	Decachlorobiphenyl	2	20	22.1	111		60	140
PB159600BSD	PB159600BSD	Tetrachloro-m-xylene	1	20	16.3	81		60	140
		Decachlorobiphenyl	1	20	20.5	103		60	140
		Tetrachloro-m-xylene	2	20	15.4	77		60	140
		Decachlorobiphenyl	2	20	22.3	111		60	140
PB159600BL	PB159600BL	Tetrachloro-m-xylene	1	20	15.7	79		60	140
		Decachlorobiphenyl	1	20	20.6	103		60	140
		Tetrachloro-m-xylene	2	20	15.6	78		60	140
		Decachlorobiphenyl	2	20	22.1	111		60	140
P1747-03	MW-01	Tetrachloro-m-xylene	1	20	10.8	54	*	60	140
		Decachlorobiphenyl	1	20	22.1	111		60	140
		Tetrachloro-m-xylene	2	20	12.8	64		60	140
		Decachlorobiphenyl	2	20	24.3	121		60	140
I.BLK-PO102532.D	PIBLK-PO102532.D	Tetrachloro-m-xylene	1	20	21.2	106		60	140
		Decachlorobiphenyl	1	20	28.0	140		60	140
		Tetrachloro-m-xylene	2	20	21.2	106		60	140
		Decachlorobiphenyl	2	20	29.7	149	*	60	140



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Analytical Method: 8082A

Datafile : PO102513.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB159587BS	AR1016	5	5.30	ug/L	106				61	112	
	AR1260	5	5.20	ug/L	104				66	113	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Analytical Method: 8082A

Datafile : PO102514.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB159587BSD	AR1016	5	5.20	ug/L	104	2			61	112	20
	AR1260	5	5.20	ug/L	104	0			66	113	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Analytical Method: 608.3 PCB

Datafile : PO102527.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB159600BS	AROCLOR 1016	0.05	0.053	ug/L	106				50	140	
	AROCLOR 1260	0.05	0.050	ug/L	99				8	140	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Analytical Method: 608.3 PCB

Datafile : PO102528.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB159600BSD	AROCLOR 1016	0.05	0.055	ug/L	109	3			50	140	20
	AROCLOR 1260	0.05	0.051	ug/L	102	3			8	140	20



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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159587BL

Lab Name: CHEMTECH

Contract: LIRO01

Lab Code: CHEM Case No.: P1747

SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BL

Lab File ID: PO102512.D

Matrix: (soil/water) WATER

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 03/14/2024

Date Analyzed (1): 03/14/2024

Date Analyzed (2): 03/14/2024

Time Analyzed (1): 19:12

Time Analyzed (2): 19:12

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

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
PB159587BS	PB159587BS	PO102513.D	03/14/2024	03/14/2024
PB159587BSD	PB159587BSD	PO102514.D	03/14/2024	03/14/2024
MW-01	P1747-01	PO102515.D	03/14/2024	03/14/2024
MW-01-DUP	P1747-02	PO102516.D	03/14/2024	03/14/2024
MW-02	P1747-04	PO102517.D	03/14/2024	03/14/2024
MW-04	P1747-05	PO102518.D	03/14/2024	03/14/2024

COMMENTS: _____



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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159600BL

Lab Name: CHEMTECH

Contract: LIRO01

Lab Code: CHEM Case No.: P1747

SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BL

Lab File ID: PO102529.D

Matrix: (soil/water) WATER

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 03/14/2024

Date Analyzed (1): 03/15/2024

Date Analyzed (2): 03/15/2024

Time Analyzed (1): 00:46

Time Analyzed (2): 00:46

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

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
PB159600BS	PB159600BS	PO102527.D	03/15/2024	03/15/2024
PB159600BSD	PB159600BSD	PO102528.D	03/15/2024	03/15/2024
MW-01	P1747-03	PO102530.D	03/15/2024	03/15/2024

COMMENTS: _____

SAMPLE DATA



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102515.D	1	03/14/24 10:51	03/14/24 20:04	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.51	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.2		21 - 155	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		10 - 173	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_O\Data\P0031424\
 Data File : P0102515.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 20:04
 Operator : YP/AJ
 Sample : P1747-01
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 MW-01

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 00:25:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.384	78881195	53583133	19.244	19.123
2) SA Decachlor...	9.806	8.248	35847293	24367485	18.878	19.765

Target Compounds

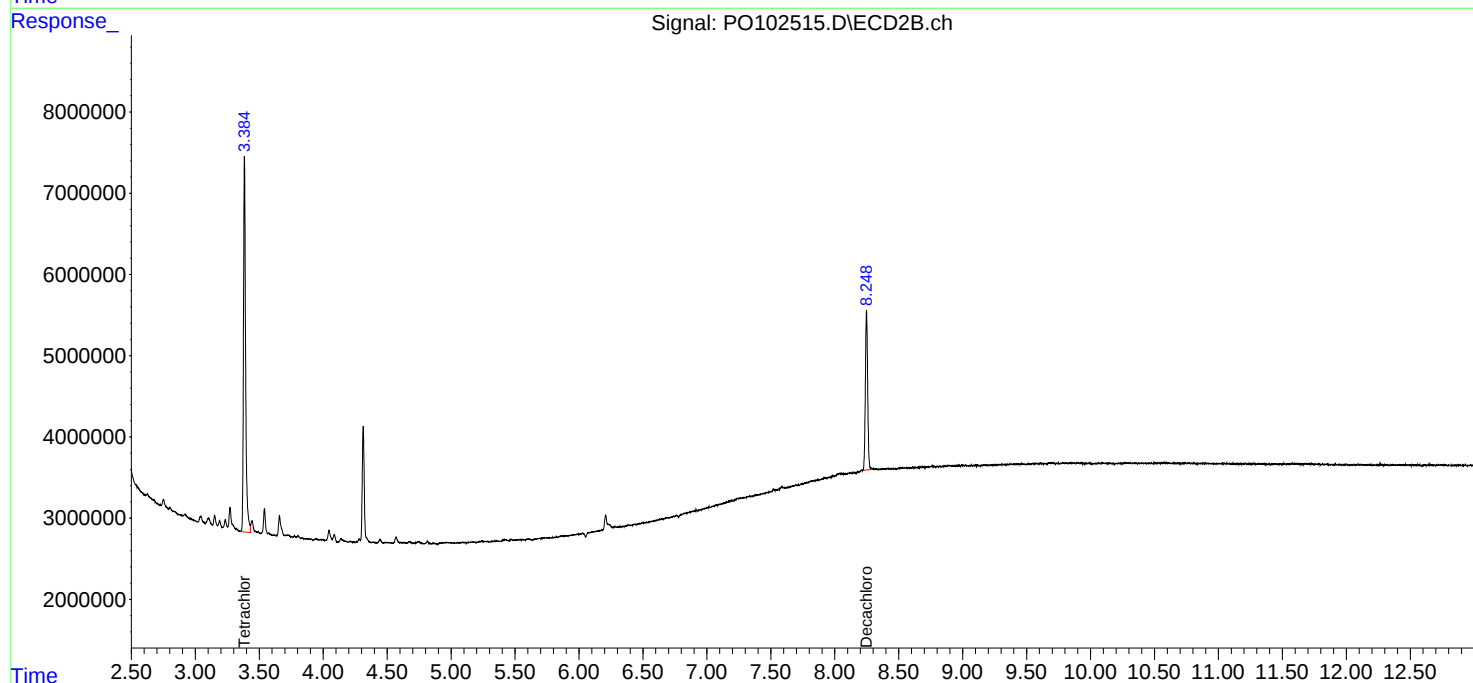
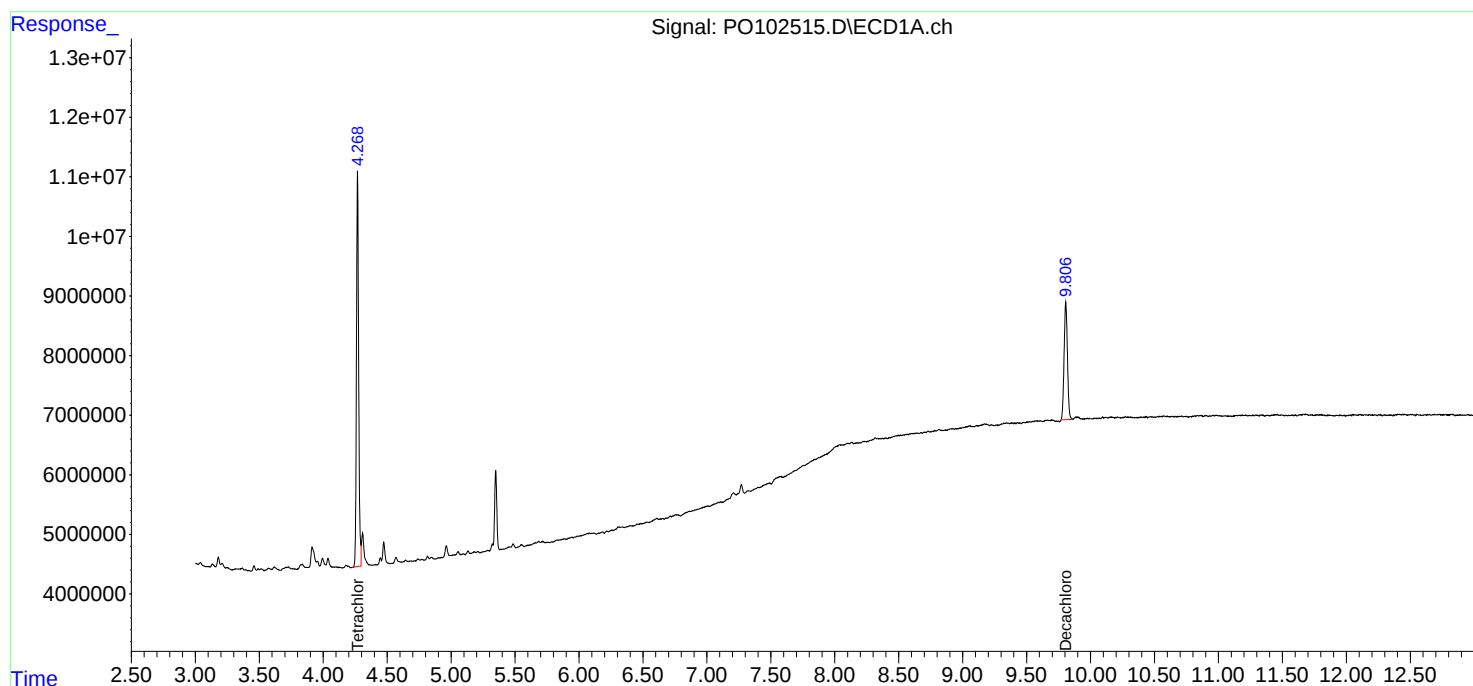
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102515.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:04
Operator : YP/AJ
Sample : P1747-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
MW-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

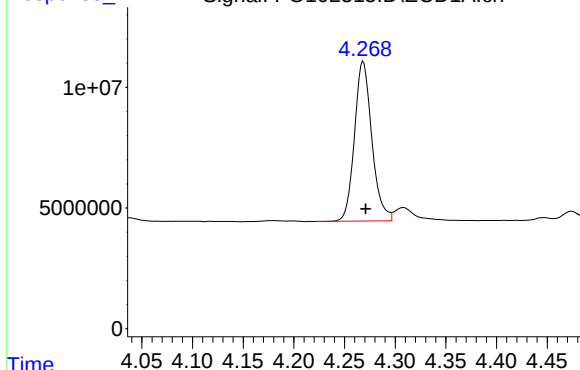
Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PO102515.D\ECD1A.ch

#1 Tetrachloro-m-xylene



R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 78881195
Conc: 19.24 ng/ml

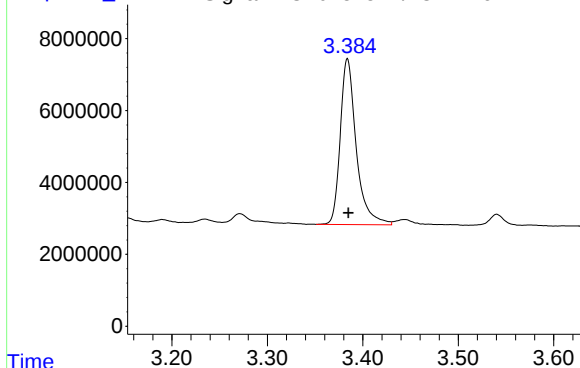
Instrument :
ECD_O
ClientSampleId :
MW-01

Time

Response_

Signal: PO102515.D\ECD2B.ch

#1 Tetrachloro-m-xylene



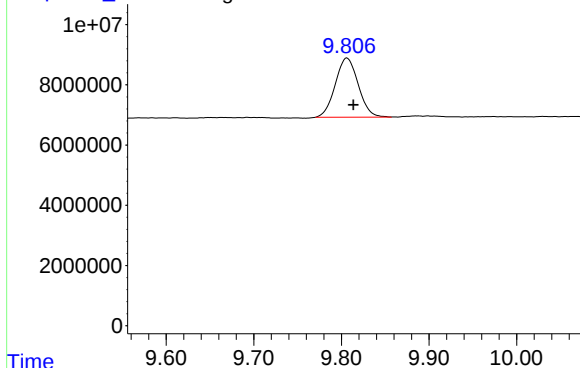
R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 53583133
Conc: 19.12 ng/ml

Time

Response_

Signal: PO102515.D\ECD1A.ch

#2 Decachlorobiphenyl



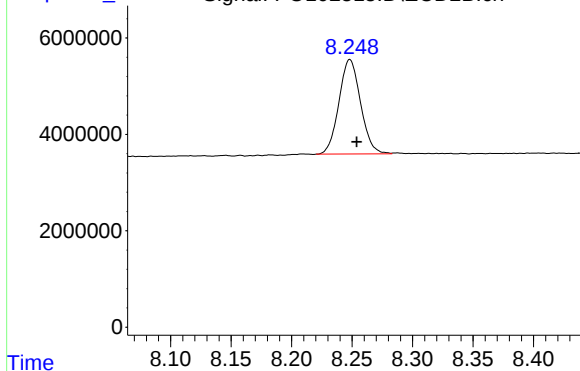
R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 35847293
Conc: 18.88 ng/ml

Time

Response_

Signal: PO102515.D\ECD2B.ch

#2 Decachlorobiphenyl



R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 24367485
Conc: 19.77 ng/ml

Time



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	970	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102516.D	1	03/14/24 10:51	03/14/24 20:21	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.52	U	0.15	0.52	ug/L
11104-28-2	Aroclor-1221	0.52	U	0.24	0.52	ug/L
11141-16-5	Aroclor-1232	0.52	U	0.38	0.52	ug/L
53469-21-9	Aroclor-1242	0.52	U	0.16	0.52	ug/L
12672-29-6	Aroclor-1248	0.52	U	0.12	0.52	ug/L
11097-69-1	Aroclor-1254	0.52	U	0.11	0.52	ug/L
37324-23-5	Aroclor-1262	0.52	U	0.14	0.52	ug/L
11100-14-4	Aroclor-1268	0.52	U	0.12	0.52	ug/L
11096-82-5	Aroclor-1260	0.52	U	0.15	0.52	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		10 - 173	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_O\Data\P0031424\
 Data File : P0102516.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 20:21
 Operator : YP/AJ
 Sample : P1747-02
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 MW-01-DUP

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 00:26:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.269	3.384	77997837	54910300	19.029	19.597
2) SA Decachlor...	9.806	8.249	34479902	24059784	18.158	19.516

Target Compounds

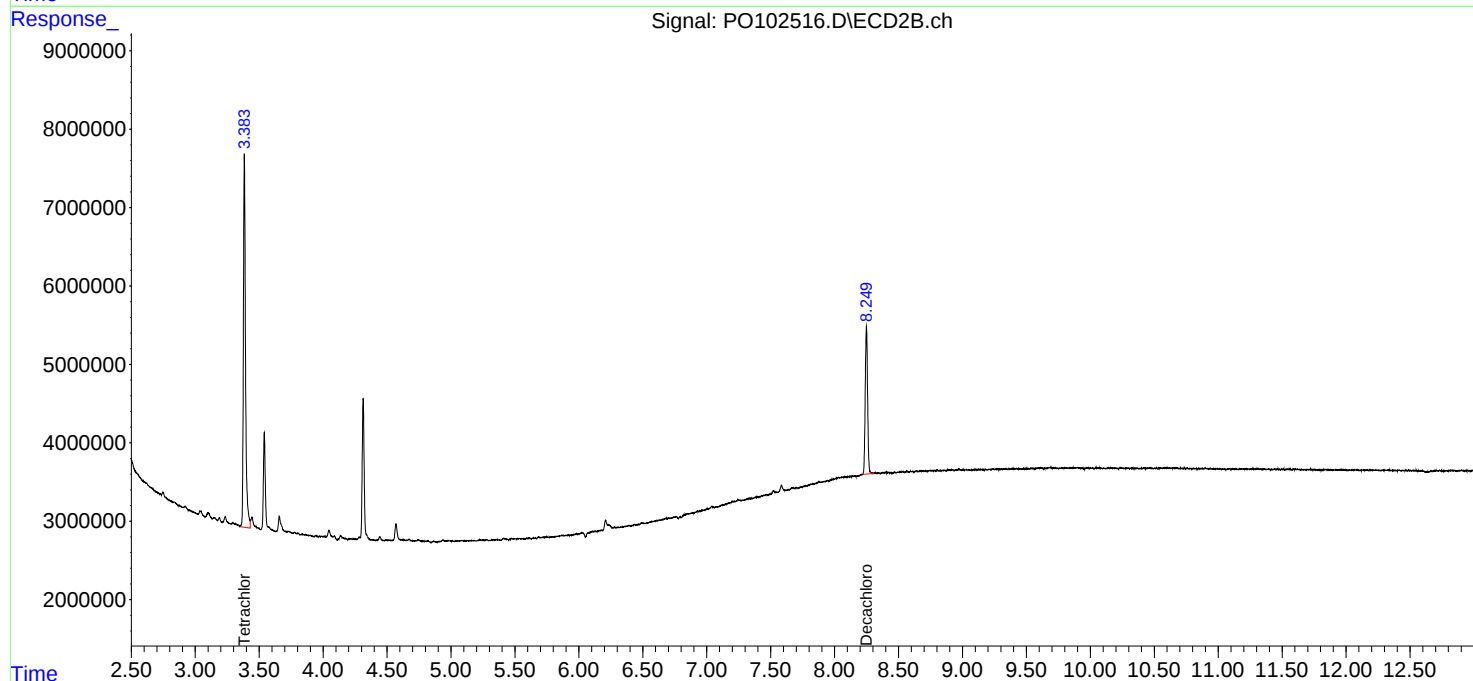
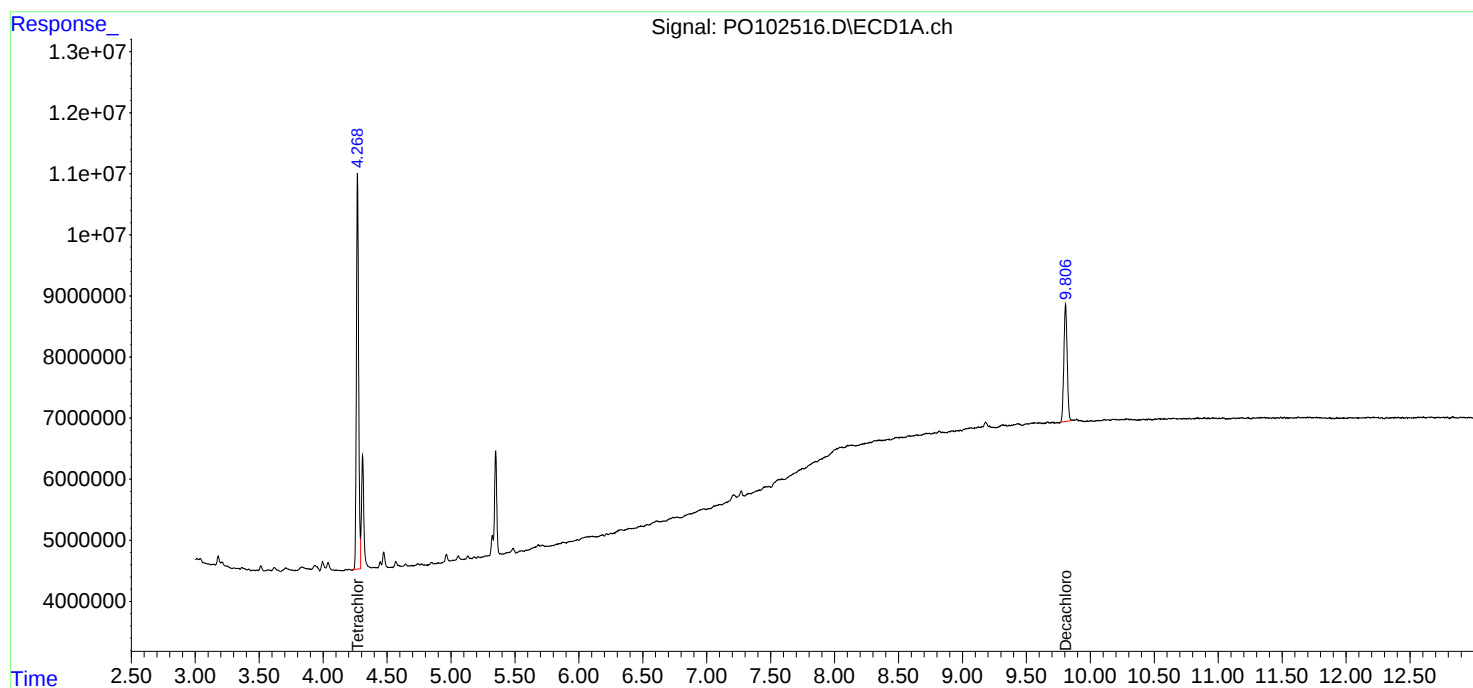
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

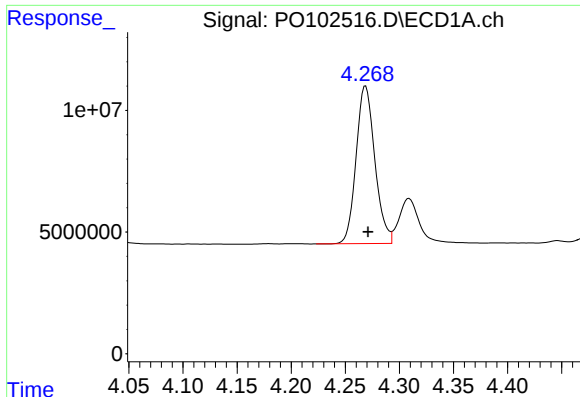
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102516.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:21
Operator : YP/AJ
Sample : P1747-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
MW-01-DUP

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

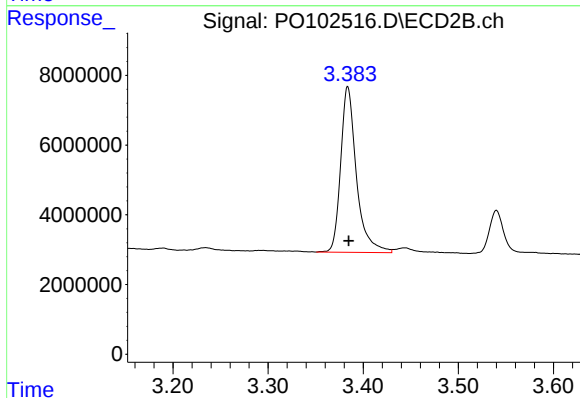




#1 Tetrachloro-m-xylene

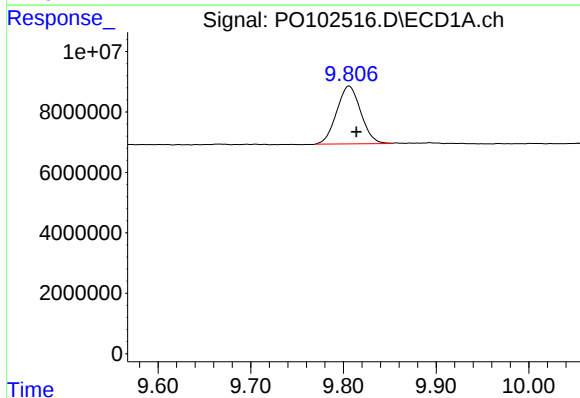
R.T.: 4.269 min
Delta R.T.: -0.002 min
Response: 77997837
Conc: 19.03 ng/ml

Instrument :
ECD_O
ClientSampleId :
MW-01-DUP



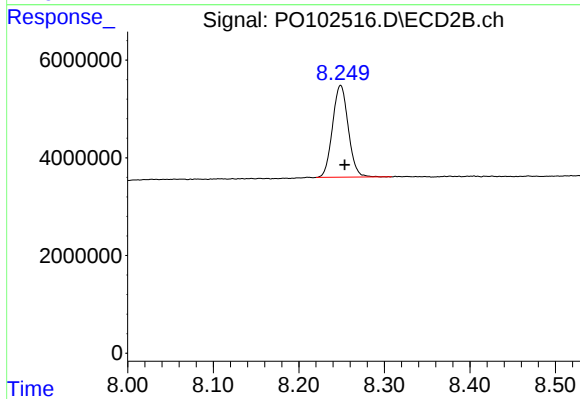
#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 54910300
Conc: 19.60 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 34479902
Conc: 18.16 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.249 min
Delta R.T.: -0.005 min
Response: 24059784
Conc: 19.52 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102530.D	1	03/14/24 10:05	03/15/24 01:03	PB159600

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.051	U	0.015	0.051	ug/L
11104-28-2	Aroclor-1221	0.051	U	0.024	0.051	ug/L
11141-16-5	Aroclor-1232	0.051	U	0.038	0.051	ug/L
53469-21-9	Aroclor-1242	0.051	U	0.016	0.051	ug/L
12672-29-6	Aroclor-1248	0.051	U	0.012	0.051	ug/L
11097-69-1	Aroclor-1254	0.051	U	0.011	0.051	ug/L
11096-82-5	Aroclor-1260	0.051	U	0.015	0.051	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.8	*	60 - 140	54%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		60 - 140	111%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031424\
 Data File : P0102530.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Mar 2024 01:03
 Operator : YP/AJ
 Sample : P1747-03
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 MW-01

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/15/2024
 Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 04:40:53 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.267	3.382	44065372	36010518	10.751m	12.852m
2) SA Decachlor...	9.806	8.248	42055542	29935689	22.148	24.282m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102530.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:03
Operator : YP/AJ
Sample : P1747-03
Misc :
ALS Vial : 42 Sample Multiplier: 1

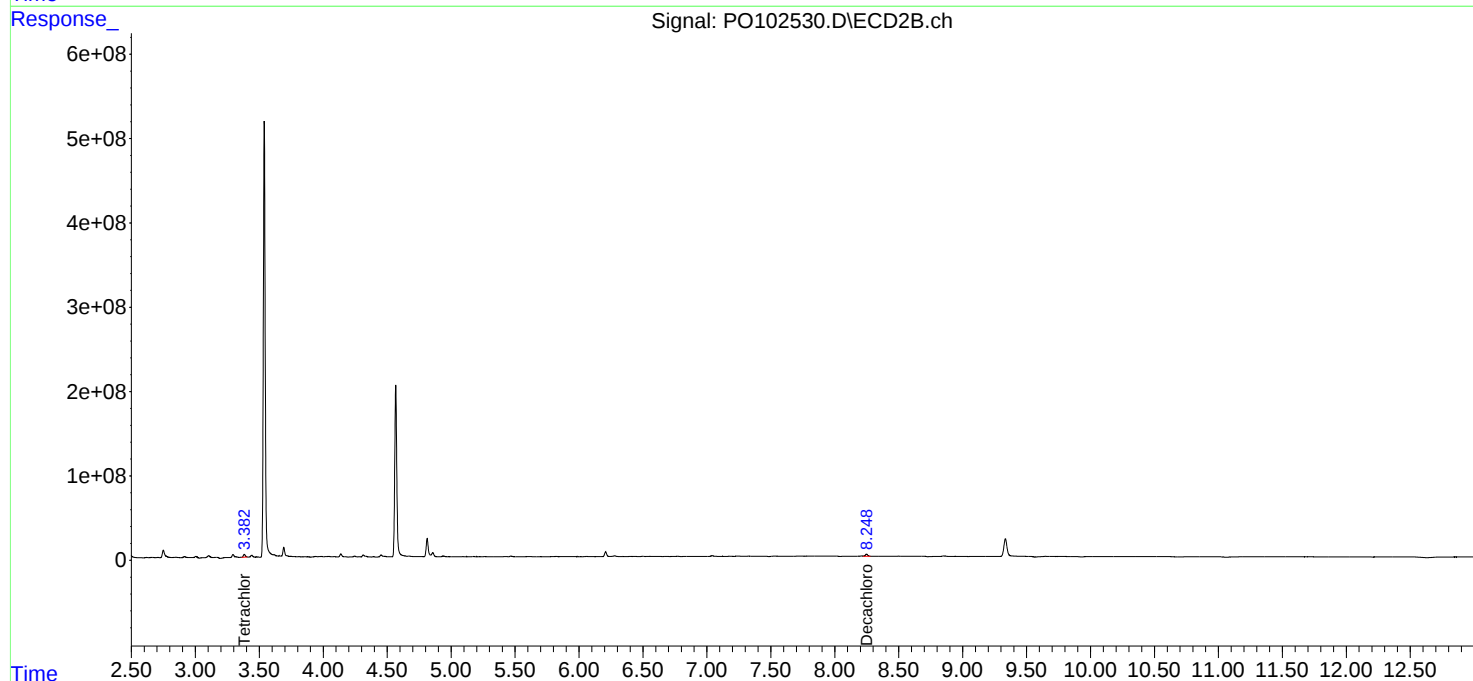
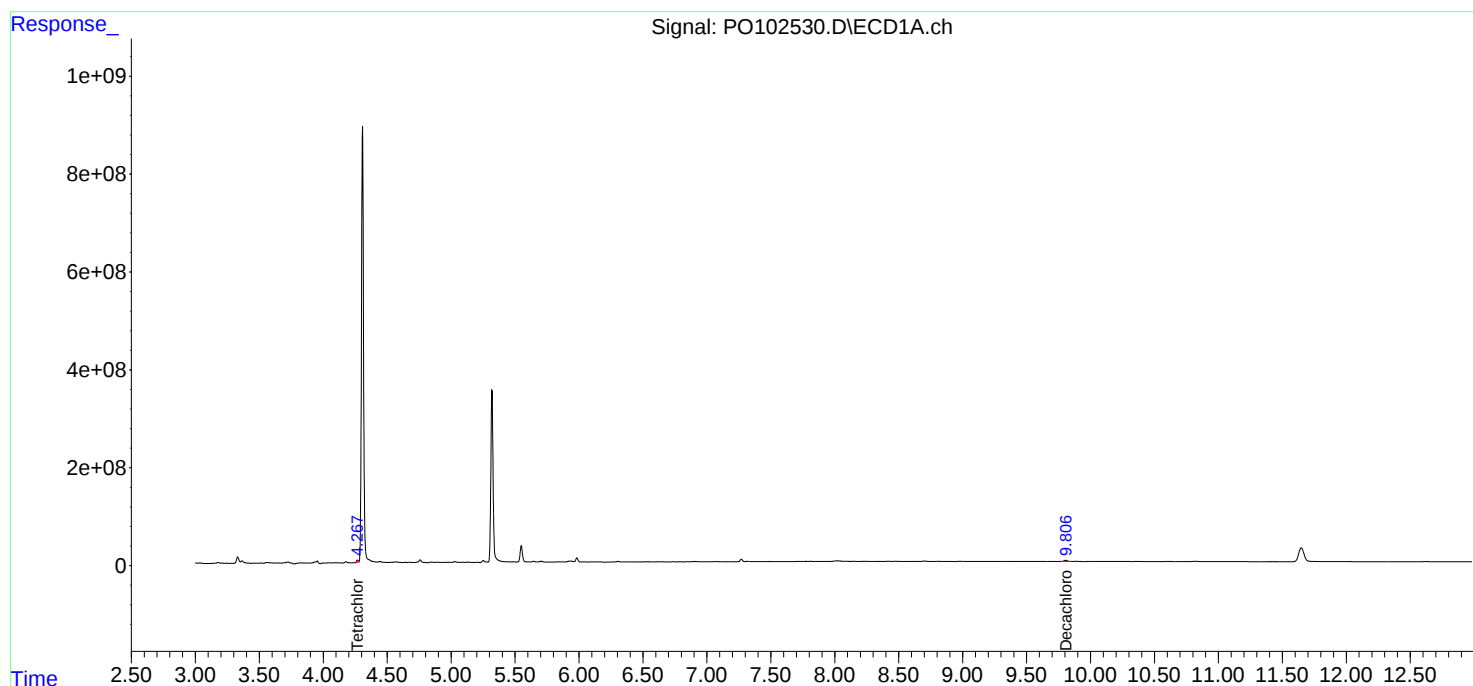
Instrument :
ECD_O
ClientSampleId :
MW-01

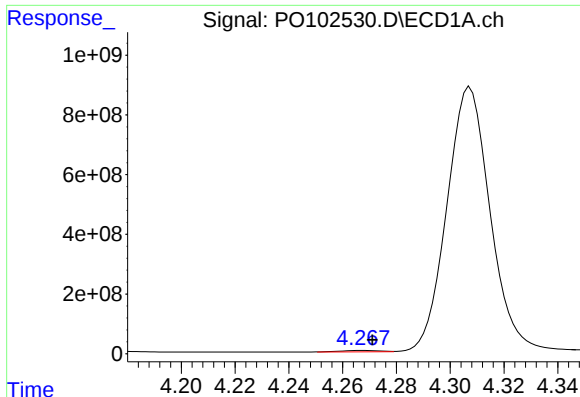
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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





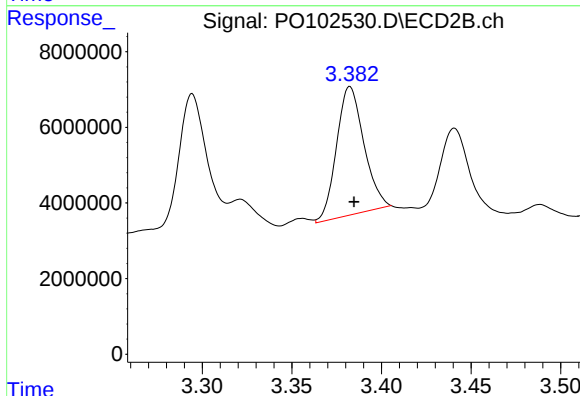
#1 Tetrachloro-m-xylene

R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 44065372
Conc: 10.75 ng/ml

Instrument :
ECD_O
ClientSampleId :
MW-01

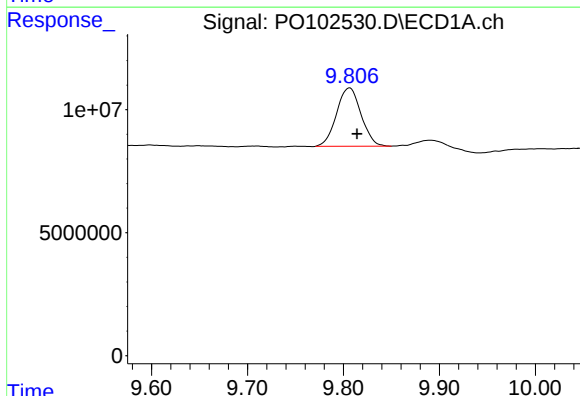
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024



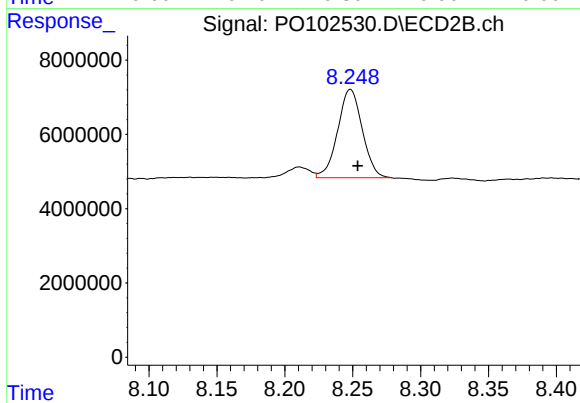
#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: -0.003 min
Response: 36010518
Conc: 12.85 ng/ml m



#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 42055542
Conc: 22.15 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 29935689
Conc: 24.28 ng/ml m



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102517.D	1	03/14/24 10:51	03/14/24 20:38	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.51	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.37	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		10 - 173	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_O\Data\P0031424\
 Data File : P0102517.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 20:38
 Operator : YP/AJ
 Sample : P1747-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 MW-02

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 00:26:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	80666902	54558397	19.680	19.471
2) SA Decachlor...	9.806	8.248	36124902	25292114	19.024	20.515

Target Compounds

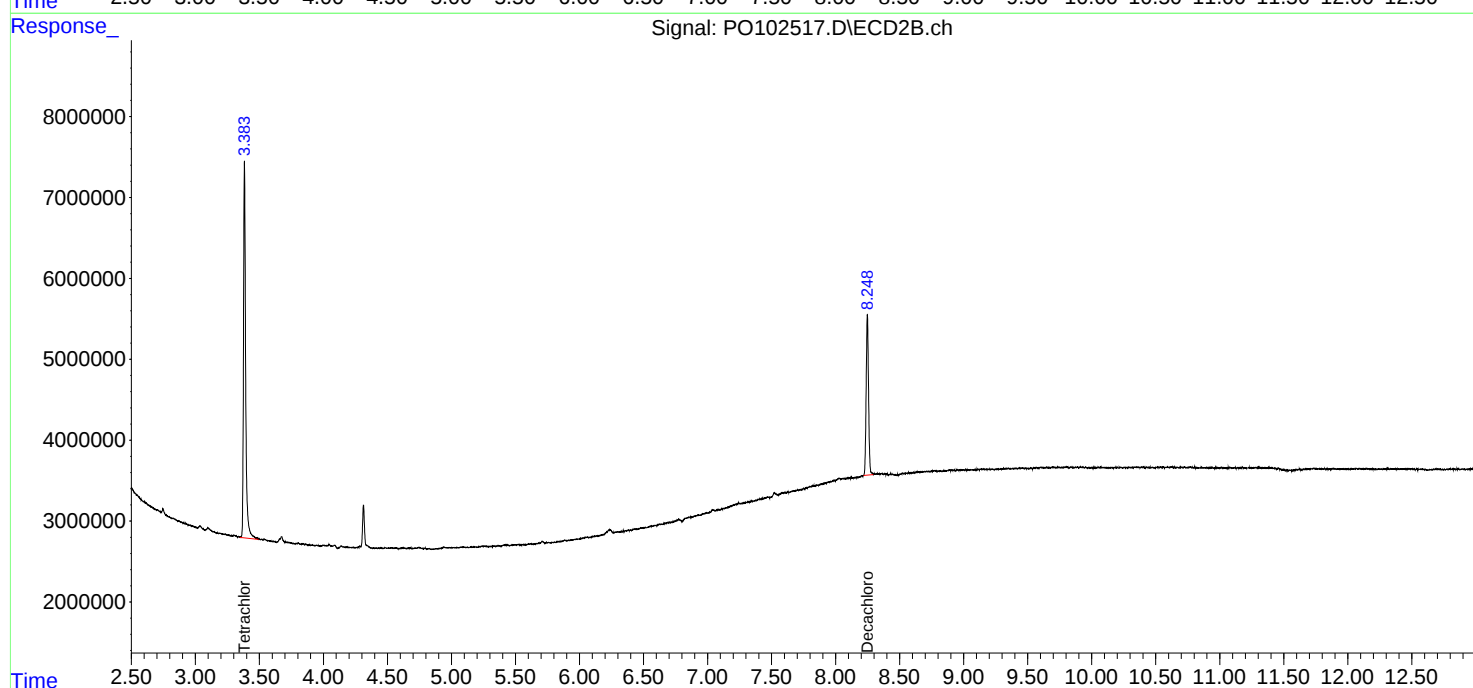
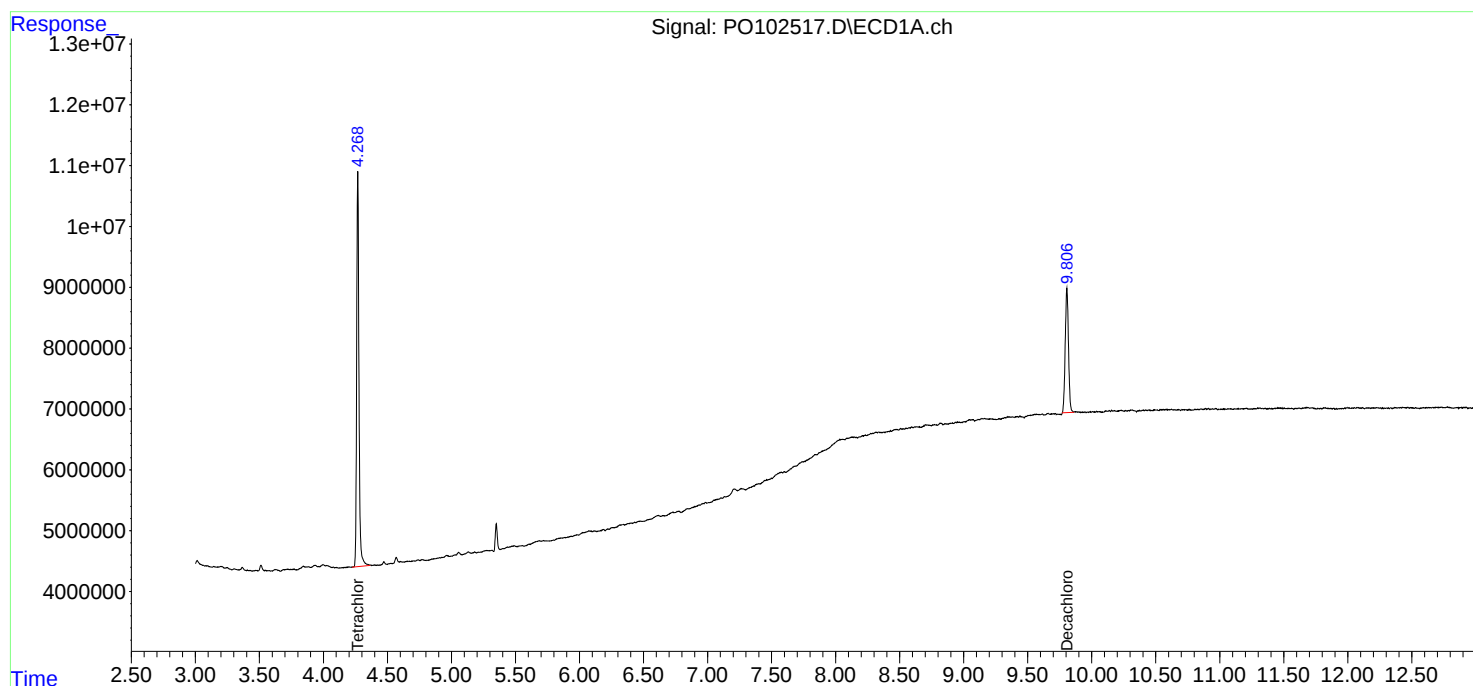
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102517.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:38
Operator : YP/AJ
Sample : P1747-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

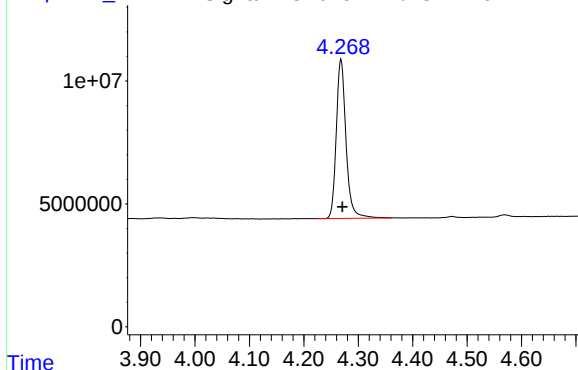
Instrument :
ECD_O
ClientSampleId :
MW-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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: PO102517.D\ECD1A.ch

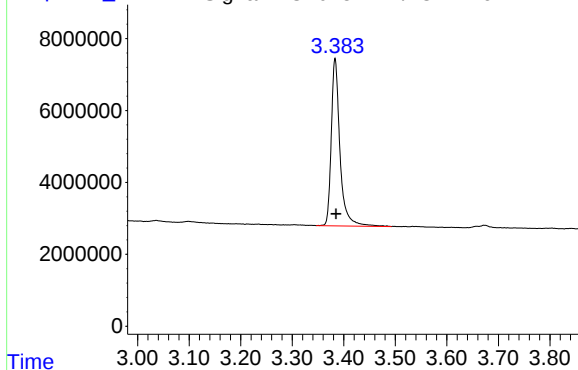


#1 Tetrachloro-m-xylene

R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 80666902
Conc: 19.68 ng/ml

Instrument :
ECD_O
ClientSampleId :
MW-02

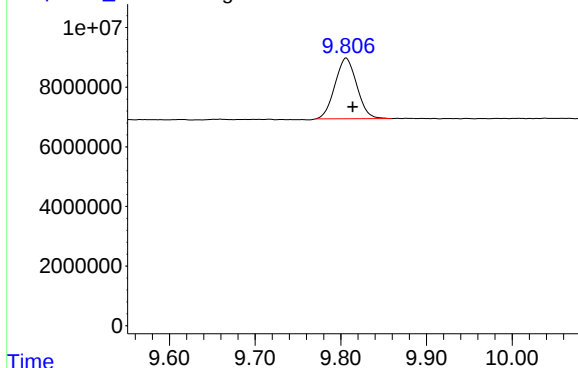
Signal: PO102517.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 54558397
Conc: 19.47 ng/ml

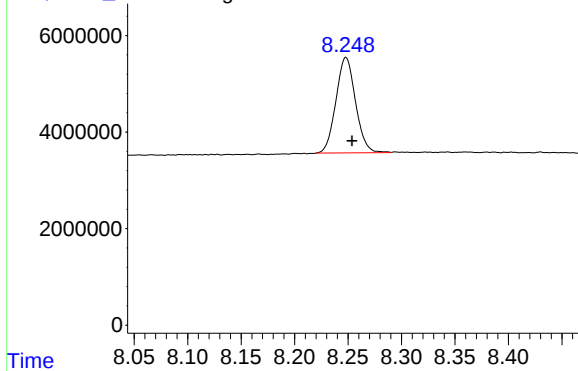
Signal: PO102517.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 36124902
Conc: 19.02 ng/ml

Signal: PO102517.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 25292114
Conc: 20.52 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	980	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102518.D	1	03/14/24 10:51	03/14/24 20:55	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.51	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.51	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.51	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.51	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.51	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.51	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.51	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.51	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.51	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		21 - 155	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.7		10 - 173	113%	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_O\Data\P0031424\
Data File : P0102518.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:55
Operator : YP/AJ
Sample : P1747-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
MW-04

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.269	3.384	83536753	58069799	20.380	20.724
2) SA Decachlor...	9.806	8.248	39791218	27937428	20.955	22.661

Target Compounds

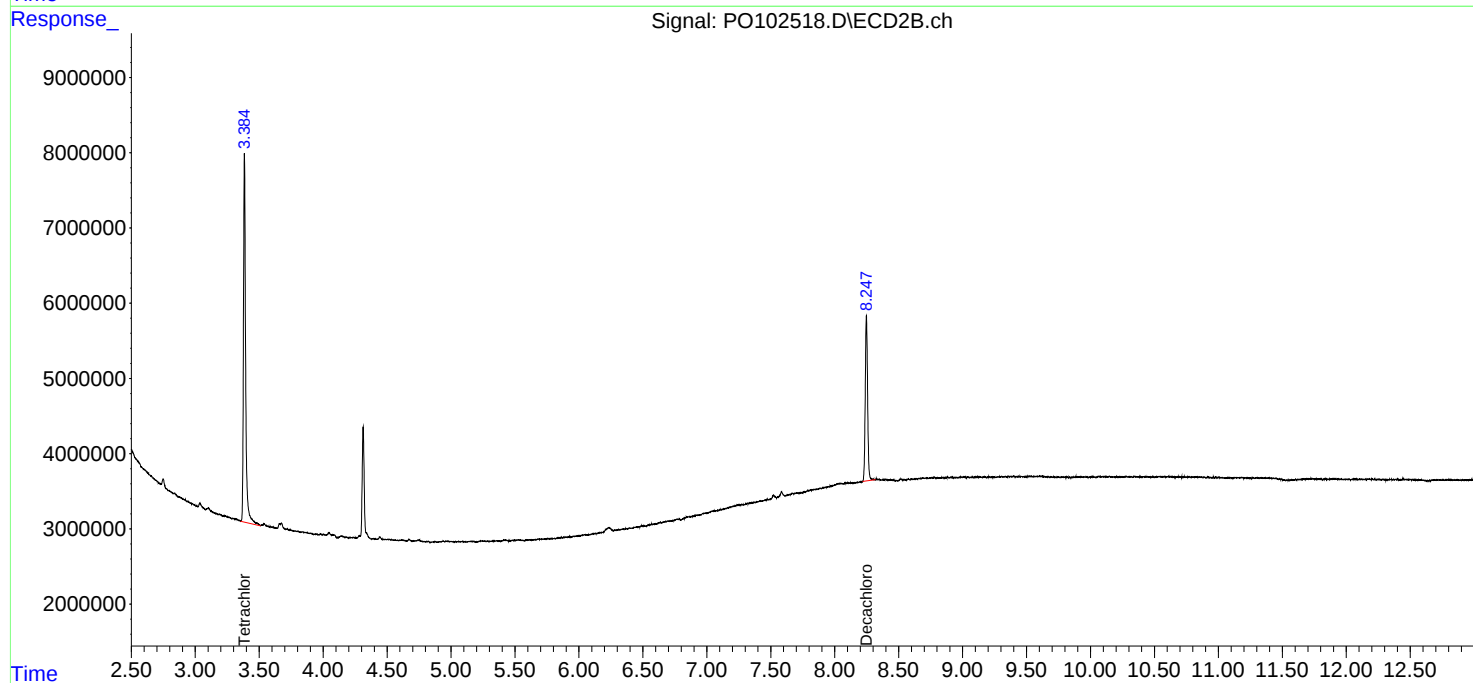
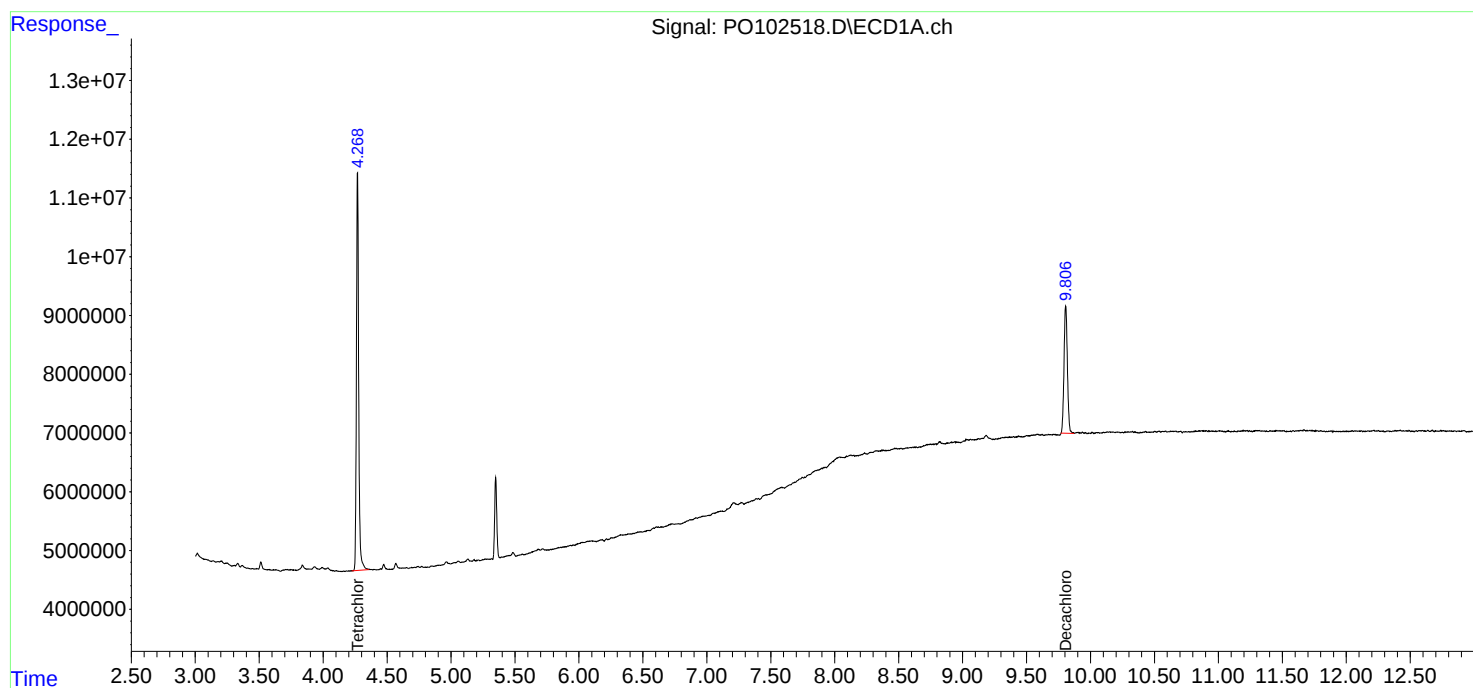
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102518.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:55
Operator : YP/AJ
Sample : P1747-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

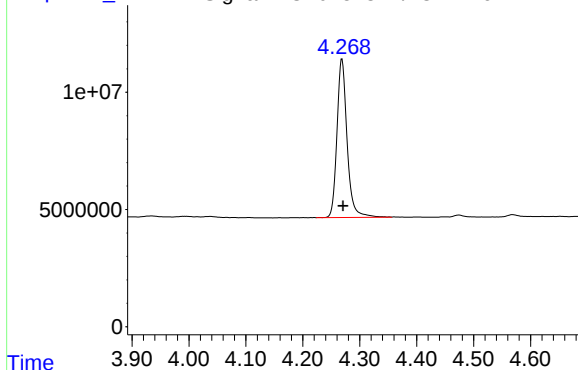
Instrument :
ECD_O
ClientSampleId :
MW-04

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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: PO102518.D\ECD1A.ch

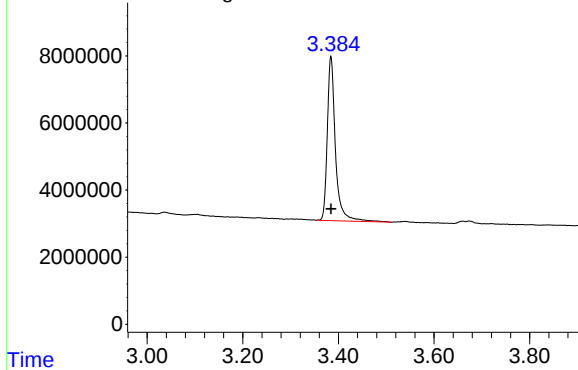


#1 Tetrachloro-m-xylene

R.T.: 4.269 min
Delta R.T.: -0.002 min
Response: 83536753
Conc: 20.38 ng/ml

Instrument :
ECD_O
ClientSampleId :
MW-04

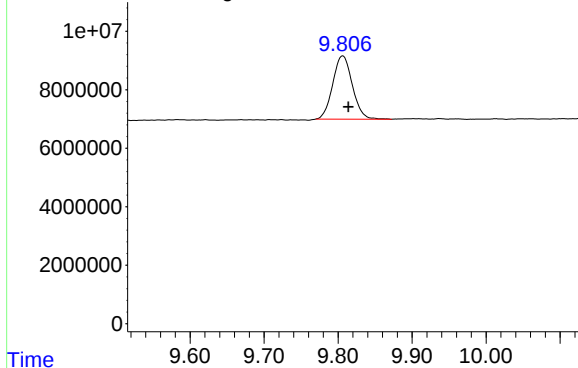
Signal: PO102518.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 58069799
Conc: 20.72 ng/ml

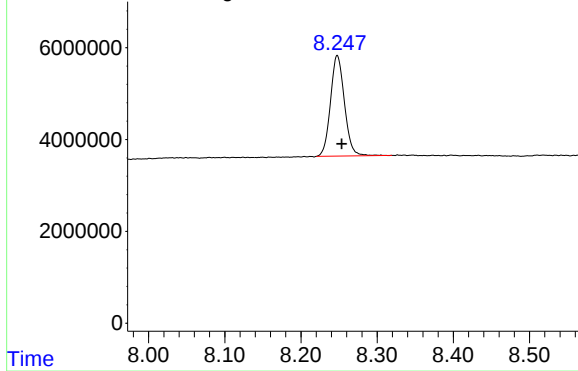
Signal: PO102518.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 39791218
Conc: 20.96 ng/ml

Signal: PO102518.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 27937428
Conc: 22.66 ng/ml

CALIBRATION SUMMARY



RETENTION TIMES OF INITIAL CALIBRATION

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Instrument ID: ECD_O Calibration Date(s): 03/12/2024 03/12/2024

Calibration Times: 15:06 22:50

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

LAB FILE ID: RT 1000 = PO102409.D RT 750 = PO102410.D

RT 500 = PO102411.D RT 250 = PO102412.D RT 050 = PO102413.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	5.42	5.42	5.42	5.42	5.42	5.42	5.32	5.52
Aroclor-1016-2	(2)	5.44	5.44	5.44	5.44	5.44	5.44	5.34	5.54
Aroclor-1016-3	(3)	5.50	5.50	5.50	5.50	5.50	5.50	5.40	5.60
Aroclor-1016-4	(4)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1016-5	(5)	5.89	5.89	5.89	5.89	5.89	5.89	5.79	5.99
Aroclor-1260-1	(1)	7.00	7.00	7.00	7.00	7.00	7.00	6.90	7.10
Aroclor-1260-2	(2)	7.25	7.25	7.25	7.25	7.25	7.25	7.15	7.35
Aroclor-1260-3	(3)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1260-4	(4)	7.83	7.83	7.83	7.83	7.83	7.83	7.73	7.93
Aroclor-1260-5	(5)	8.14	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Decachlorobiphenyl		9.82	9.81	9.81	9.82	9.82	9.82	9.72	9.92
Tetrachloro-m-xylene		4.27	4.27	4.27	4.27	4.27	4.27	4.17	4.37
Aroclor-1242-1	(1)	5.42	5.42	5.42	5.42	5.42	5.42	5.32	5.52
Aroclor-1242-2	(2)	5.44	5.44	5.44	5.44	5.44	5.44	5.34	5.54
Aroclor-1242-3	(3)	5.50	5.50	5.50	5.50	5.50	5.50	5.40	5.60
Aroclor-1242-4	(4)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1242-5	(5)	6.32	6.32	6.32	6.32	6.32	6.32	6.22	6.42
Decachlorobiphenyl		9.82	9.82	9.82	9.81	9.81	9.82	9.72	9.92
Tetrachloro-m-xylene		4.27	4.27	4.27	4.27	4.27	4.27	4.17	4.37
Aroclor-1248-1	(1)	5.42	5.44	5.42	5.41	5.42	5.42	5.32	5.52
Aroclor-1248-2	(2)	5.69	5.71	5.68	5.68	5.68	5.69	5.59	5.79
Aroclor-1248-3	(3)	5.89	5.91	5.89	5.89	5.89	5.89	5.79	5.99
Aroclor-1248-4	(4)	6.28	6.31	6.28	6.28	6.28	6.29	6.19	6.39
Aroclor-1248-5	(5)	6.32	6.34	6.32	6.32	6.32	6.33	6.23	6.43
Decachlorobiphenyl		9.81	9.84	9.81	9.82	9.82	9.82	9.72	9.92
Tetrachloro-m-xylene		4.27	4.29	4.27	4.27	4.27	4.27	4.17	4.37
Aroclor-1254-1	(1)	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Aroclor-1254-2	(2)	6.47	6.47	6.47	6.47	6.47	6.47	6.37	6.57
Aroclor-1254-3	(3)	6.84	6.83	6.83	6.83	6.83	6.83	6.73	6.93
Aroclor-1254-4	(4)	7.12	7.12	7.12	7.12	7.12	7.12	7.02	7.22
Aroclor-1254-5	(5)	7.53	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Decachlorobiphenyl		9.81	9.81	9.81	9.81	9.81	9.81	9.71	9.91
Tetrachloro-m-xylene		4.27	4.27	4.27	4.27	4.27	4.27	4.17	4.37
Aroclor-1268-1	(1)	8.42	8.43	8.43	8.43	8.43	8.43	8.33	8.53
Aroclor-1268-2	(2)	8.51	8.51	8.51	8.51	8.51	8.51	8.41	8.61
Aroclor-1268-3	(3)	8.72	8.73	8.72	8.72	8.72	8.72	8.62	8.82
Aroclor-1268-4	(4)	9.12	9.12	9.12	9.12	9.12	9.12	9.02	9.22
Aroclor-1268-5	(5)	9.50	9.51	9.50	9.50	9.50	9.50	9.40	9.60

[illegible]

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

[illegible]

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Instrument ID: ECD_O

Calibration Date(s): 03/12/2024 03/12/2024

Calibration Times: 15:06 22:50

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

LAB FILE ID:		CF 1000 = <u>PO102409.D</u>		CF 750 = <u>PO102410.D</u>			
CF 500 = <u>PO102411.D</u>		CF 250 = <u>PO102412.D</u>		CF 050 = <u>PO102413.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	93563038	97123216	102044386	106731912	100069820	99906474
Aroclor-1016-2	(2)	136260299	142537469	148189950	154008608	144181520	145035569
Aroclor-1016-3	(3)	87342056	90634015	94592544	97805336	96848960	93444582
Aroclor-1016-4	(4)	72534043	75429643	78235916	79868668	72169460	75647546
Aroclor-1016-5	(5)	77420158	80396157	83985936	86862016	80456000	81824053
Aroclor-1260-1	(1)	131181049	134971357	137876932	141884944	138892960	136961448
Aroclor-1260-2	(2)	128312597	130866932	134674406	137104064	127802560	131752112
Aroclor-1260-3	(3)	100658023	103214861	104803156	104816128	96278940	101954222
Aroclor-1260-4	(4)	111168562	113486237	117205258	118639448	117770780	115654057
Aroclor-1260-5	(5)	183390983	186862735	192284016	198326972	211179100	194408761
Decachlorobiphenyl		1877349970	1921522760	1951094520	1966069040	1778358600	1898878978
Tetrachloro-m-xylene		4021587140	4125463107	4229369860	4285100880	3833013400	4098906877
Aroclor-1242-1	(1)	70801651	71664075	77002890	80094500	74510460	74814715
Aroclor-1242-2	(2)	102966506	105817047	111171592	115162764	113268360	109677254
Aroclor-1242-3	(3)	65412696	66678299	70925724	73088120	74700600	70161088
Aroclor-1242-4	(4)	54337431	55287147	58083268	58734876	54648480	56218240
Aroclor-1242-5	(5)	47769800	49290476	52363832	55001484	54360560	51757230
Decachlorobiphenyl		1709777200	1741154587	1810008500	1811905480	1675595200	1749688193
Tetrachloro-m-xylene		3706836810	3758547107	3867479060	3904321360	3604647400	3768366347
Aroclor-1248-1	(1)	54408854	57669447	58183908	60610976	60244780	58223593
Aroclor-1248-2	(2)	93838842	99079524	101640578	106943360	98807500	100061961
Aroclor-1248-3	(3)	98103923	103325616	105799778	109606744	103974020	104162016
Aroclor-1248-4	(4)	85213217	87696157	92397632	95314244	85406500	89205550
Aroclor-1248-5	(5)	81951324	81671221	89239116	92902348	88656360	86884074
Decachlorobiphenyl		1714334220	1689352507	1814675140	1853188280	1686174400	1751544909
Tetrachloro-m-xylene		3701303590	3773388747	3809039180	3880639200	3583275600	3749529263
Aroclor-1254-1	(1)	111366329	116534868	120962130	125966888	115660280	118098099
Aroclor-1254-2	(2)	155911990	163322787	169687240	177930112	165118260	166394078
Aroclor-1254-3	(3)	147744395	152184023	157425838	161618568	147660520	153326669
Aroclor-1254-4	(4)	83825982	86726899	89542306	90856444	78508860	85892098
Aroclor-1254-5	(5)	99278733	102654509	105953614	109703000	103924920	104302955
Decachlorobiphenyl		1763816600	1816519013	1882508340	1918219280	1722256200	1820663887
Tetrachloro-m-xylene		3774972600	3952855427	3953620040	4013083360	3540117000	3846929685
Aroclor-1268-1	(1)	259115122	264052016	274111560	276014212	245018120	263662206

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	231353326	234573352	243757844	249052348	223617260	236470826	4
Aroclor-1268-3	(3)	214875904	217611949	227142334	228797720	205585060	218802593	4
Aroclor-1268-4	(4)	71387399	72204917	75007610	75906868	69120560	72725471	4
Aroclor-1268-5	(5)	615952676	616993091	638606272	636227824	562324800	614020933	5
Decachlorobiphenyl		3180375410	3193015973	3335631760	3387766240	3131484600	3245654797	3
Tetrachloro-m-xylene		3909026740	3967270867	4102520360	4180288880	3682433200	3968308009	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Instrument ID: ECD_O Calibration Date(s): 03/12/2024 03/12/2024

Calibration Times: 15:06 22:50

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

LAB FILE ID:		CF 1000 = <u>PO102409.D</u>		CF 750 = <u>PO102410.D</u>			
CF 500 = <u>PO102411.D</u>		CF 250 = <u>PO102412.D</u>		CF 050 = <u>PO102413.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	58696238	60616144	63066162	67105372	63823620	62661507
Aroclor-1016-2	(2)	82013235	85107073	88091940	91514892	87003400	86746108
Aroclor-1016-3	(3)	47261886	48820220	50794324	53591692	50809740	50255572
Aroclor-1016-4	(4)	43853014	45556295	47794522	50326636	47749420	47055977
Aroclor-1016-5	(5)	54146459	56225881	58688580	61568952	56839140	57493802
Aroclor-1260-1	(1)	100719055	103394260	106974340	111066288	102568440	104944477
Aroclor-1260-2	(2)	104247188	107334469	111215210	113979372	109879760	109331200
Aroclor-1260-3	(3)	104513848	107182821	110873240	116212788	125089620	112774463
Aroclor-1260-4	(4)	81511401	83514541	85594380	88252444	87689000	85312353
Aroclor-1260-5	(5)	158596862	160991860	163819070	166031896	160266400	161941218
Decachlorobiphenyl		1214458370	1243514467	1269835120	1283645160	1152705600	1232831743
Tetrachloro-m-xylene		2746988550	2808981253	2861603840	2903695640	2688755600	2802004977
Aroclor-1242-1	(1)	44864486	45664360	49177422	52038320	49513560	48251630
Aroclor-1242-2	(2)	61925174	64381949	67595228	70958464	64175740	65807311
Aroclor-1242-3	(3)	35875974	36668015	38997074	40568756	40860540	38594072
Aroclor-1242-4	(4)	41052096	42335213	45134234	47758400	45158300	44287649
Aroclor-1242-5	(5)	39876034	40825744	43190576	44817260	40818740	41905671
Decachlorobiphenyl		1128829920	1150284373	1190878200	1194389480	1056130000	1144102395
Tetrachloro-m-xylene		2543686010	2589296587	2672429400	2704706880	2436369000	2589297575
Aroclor-1248-1	(1)	34777028	36468401	38308276	40420952	38872180	37769367
Aroclor-1248-2	(2)	57962842	60782383	64044808	68269168	66767760	63565392
Aroclor-1248-3	(3)	60642519	63521609	66787854	70677480	69191080	66164108
Aroclor-1248-4	(4)	67968601	70971901	74149414	78318016	75435000	73368586
Aroclor-1248-5	(5)	50539958	52878513	54896690	56959620	54085960	53872148
Decachlorobiphenyl		1129908350	1167109320	1199785360	1224048400	1077258400	1159621966
Tetrachloro-m-xylene		2504999690	2572402240	2616585040	2663266920	2430383400	2557527458
Aroclor-1254-1	(1)	98789035	103457292	108228942	113623224	107173360	106254371
Aroclor-1254-2	(2)	84818474	88537215	93128442	97790628	91110900	91077132
Aroclor-1254-3	(3)	125024985	128895424	134501700	138177520	123332320	129986390
Aroclor-1254-4	(4)	61003456	63408880	65167436	66601968	58258960	62888140
Aroclor-1254-5	(5)	99780359	102755484	105867616	109208524	99564400	103435277
Decachlorobiphenyl		1180984460	1213437640	1246607560	1264573600	1154079000	1211936452
Tetrachloro-m-xylene		2574404500	2657812000	2718605980	2770961480	2534587800	2651274352
Aroclor-1268-1	(1)	209130910	211829637	219220314	222479400	207011600	213934372

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	189982362	190917147	198168918	199506520	182929680	192300925	4
Aroclor-1268-3	(3)	178091693	178323552	185564432	186155616	168084800	179244019	4
Aroclor-1268-4	(4)	433163930	430609372	443928932	442158236	391236960	428219486	5
Aroclor-1268-5	(5)	214377020	216064579	225558916	227407844	199135520	216508776	5
Decachlorobiphenyl		2143770200	2160645787	2255589160	2274078440	1991355200	2165087757	5
Tetrachloro-m-xylene		2674258870	2708622827	2802054420	2863161720	2575330600	2724685687	4

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Instrument ID: ECD_O Date(s) Analyzed: 03/12/2024 03/12/2024GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.47	4.37	4.57	37730200
		2	4.56	4.46	4.66	29415800
		3	4.63	4.53	4.73	84397200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.63	4.53	4.73	80996400
		2	5.15	5.05	5.25	50396200
		3	5.44	5.34	5.54	75184600
		4	5.60	5.50	5.70	38046200
		5	5.69	5.59	5.79	35648800
Aroclor-1262	500	1	7.53	7.43	7.63	118996000
		2	8.13	8.03	8.23	279624000
		3	8.43	8.33	8.53	195627000
		4	8.51	8.41	8.61	152696000
		5	9.12	9.02	9.22	95184200



INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract:

LIRO01

Lab Code:

CHEM

Case No.:

P1747

SAS No.:

P1747

SDG NO.:

P1747

Instrument ID:

ECD_O

Date(s) Analyzed:

03/12/2024

03/12/2024

GC Column:

ZB-MR2

ID:

0.32

(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.59	3.49	3.69	25736400
		2	3.67	3.57	3.77	19447900
		3	3.75	3.65	3.85	54184000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	3.75	3.65	3.85	52464600
		2	4.46	4.36	4.56	45552400
		3	4.63	4.53	4.73	25464600
		4	4.71	4.61	4.81	26883200
		5	4.88	4.78	4.98	27129200
Aroclor-1262	500	1	6.40	6.30	6.50	75630600
		2	6.69	6.59	6.79	144271000
		3	7.21	7.11	7.31	102462000
		4	7.27	7.17	7.37	174045000
		5	7.76	7.66	7.86	70060200

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031224\
 Data File : P0102409.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 15:06
 Operator : YP/AJ
 Sample : AR1660ICC1000
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:13:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:07:56 2024
 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...	4.270	3.385	402.2E6	274.7E6	97.482	97.956
2) SA Decachlor...	9.816	8.255	187.7E6	121.4E6	98.074	97.771
Target Compounds						
3) L1 AR-1016-1	5.415	4.437	93563038	58696238	956.641	964.111
4) L1 AR-1016-2	5.437	4.454	136.3E6	82013235	958.061	964.265
5) L1 AR-1016-3	5.498	4.627	87342056	47261886	960.148	963.975
6) L1 AR-1016-4	5.596	4.667	72534043	43853014	962.182	956.993
7) L1 AR-1016-5	5.886	4.876	77420158	54146459	959.321	959.745
31) L7 AR-1260-1	6.997	5.889	131.2E6	100.7E6	975.114	969.882
32) L7 AR-1260-2	7.251	6.075	128.3E6	104.2E6	975.809	967.660
33) L7 AR-1260-3	7.606	6.226	100.7E6	104.5E6	979.825	970.475
34) L7 AR-1260-4	7.830	6.689	111.2E6	81511401	973.567	975.566
35) L7 AR-1260-5	8.135	6.931	183.4E6	158.6E6	976.328	983.803

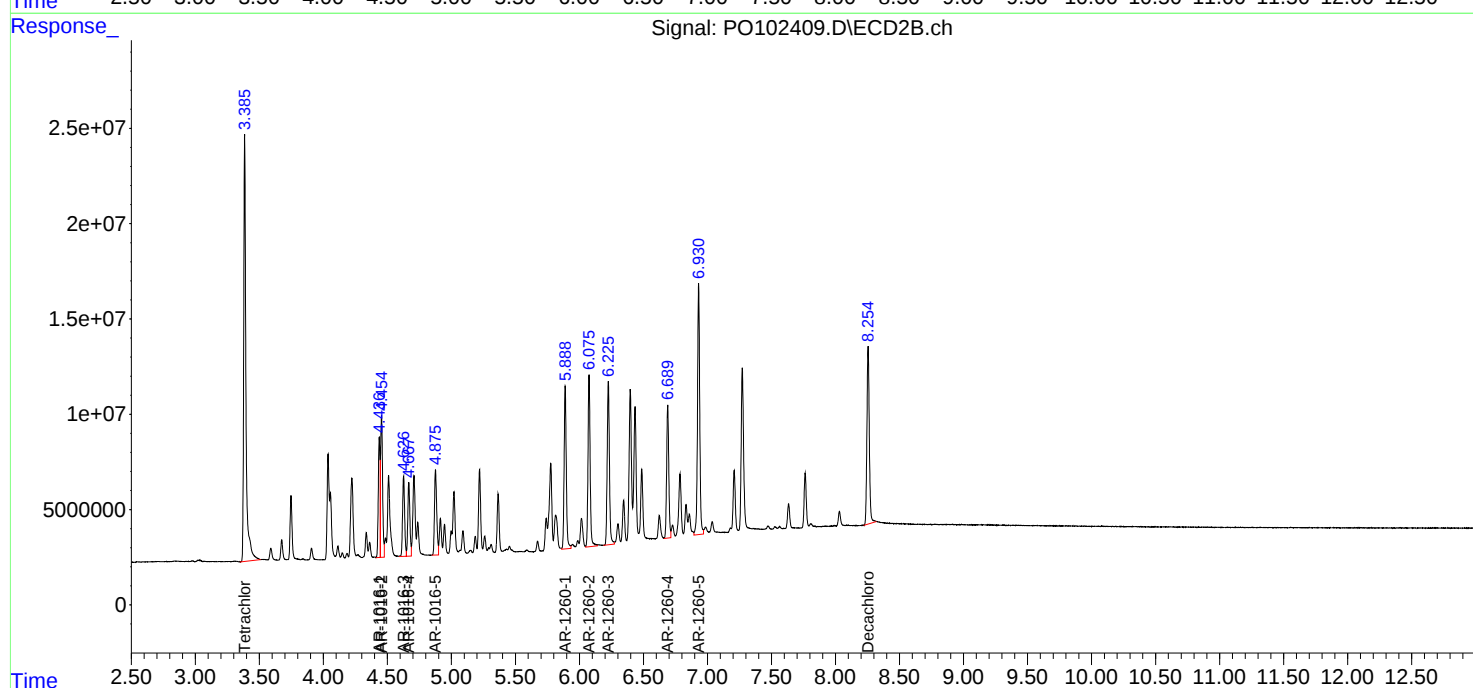
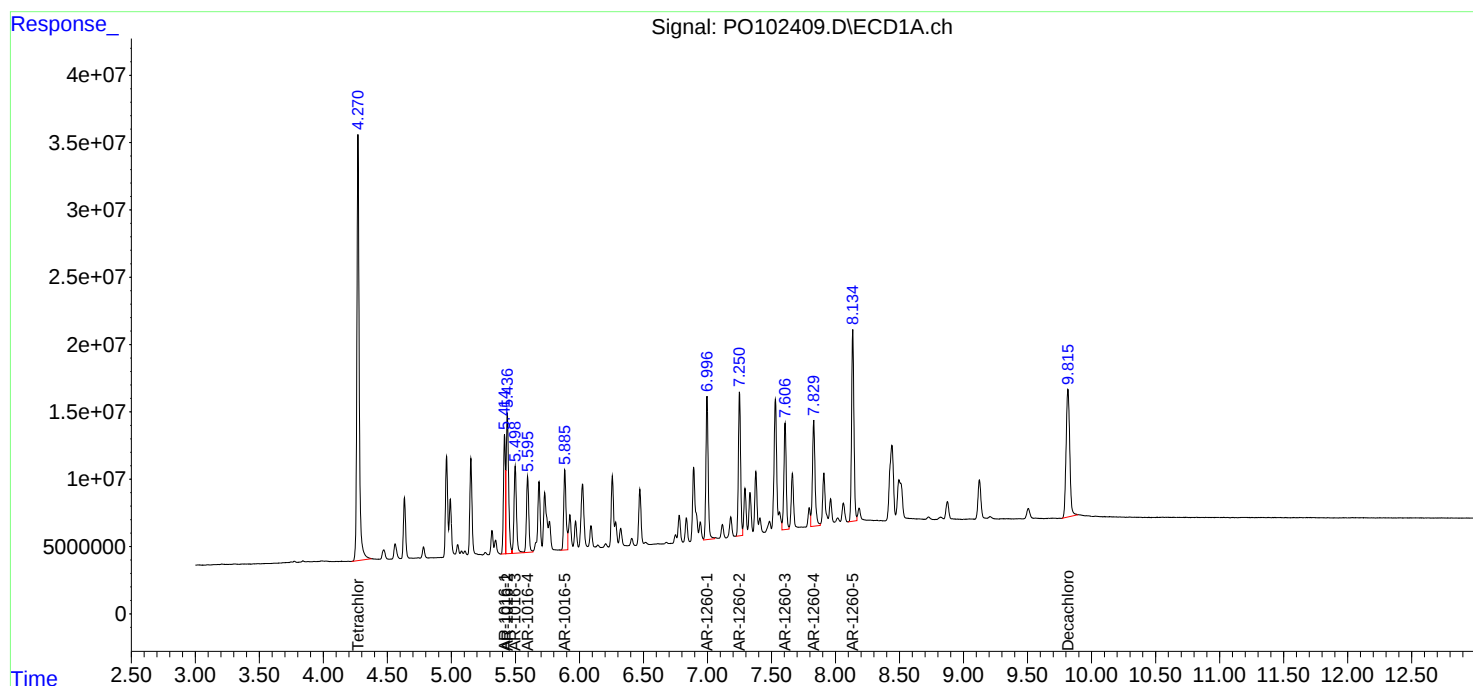
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:06
Operator : YP/AJ
Sample : AR1660ICC1000
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:13:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
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_O\Data\P0031224\
 Data File : P0102410.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 15:23
 Operator : YP/AJ
 Sample : AR1660ICC750
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:15:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:07:56 2024
 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...	4.270	3.385	309.4E6	210.7E6	75.000	75.083
2) SA Decachlor...	9.814	8.254	144.1E6	93263585	75.190	75.055
Target Compounds						
3) L1 AR-1016-1	5.415	4.437	72842412	45462108	746.513	747.820
4) L1 AR-1016-2	5.437	4.454	106.9E6	63830305	751.097	750.320
5) L1 AR-1016-3	5.498	4.626	67975511	36615165	748.166	747.877
6) L1 AR-1016-4	5.595	4.667	56572232	34167221	750.296	747.076
7) L1 AR-1016-5	5.886	4.875	60297118	42169411	748.096	748.300
31) L7 AR-1260-1	6.997	5.888	101.2E6	77545695	751.642	747.818
32) L7 AR-1260-2	7.250	6.075	98150199	80500852	747.614	748.156
33) L7 AR-1260-3	7.606	6.225	77411146	80387116	752.353	747.625
34) L7 AR-1260-4	7.831	6.690	85114678	62635906	746.926	749.770
35) L7 AR-1260-5	8.135	6.931	140.1E6	120.7E6	747.401	749.329

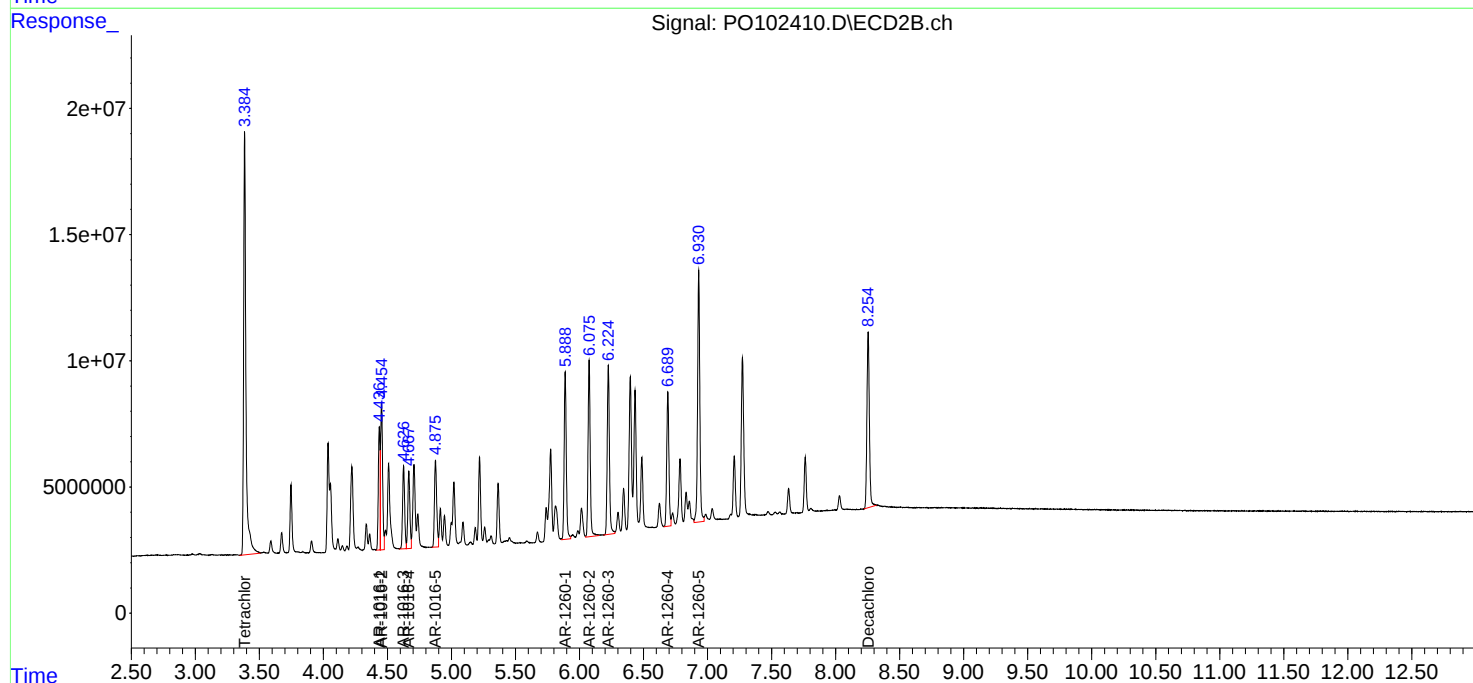
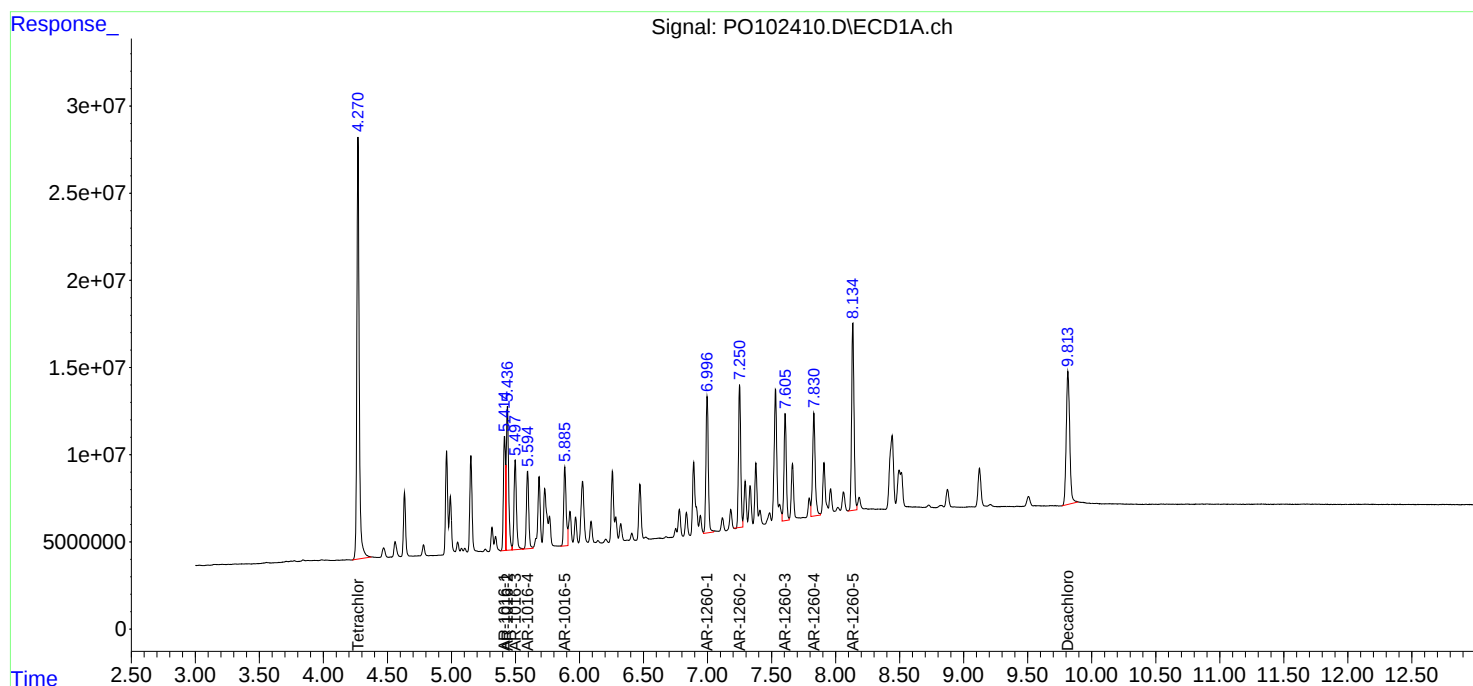
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102410.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:23
Operator : YP/AJ
Sample : AR1660ICC750
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:15:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
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_O\Data\P0031224\
 Data File : P0102411.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 15:41
 Operator : YP/AJ
 Sample : AR1660ICC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:10:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:07:56 2024
 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...	4.271	3.385	211.5E6	143.1E6	50.000	50.000
2) SA Decachlor...	9.814	8.254	97554726	63491756	50.000	50.000
Target Compounds						
3) L1 AR-1016-1	5.415	4.437	51022193	31533081	500.000	500.000
4) L1 AR-1016-2	5.438	4.454	74094975	44045970	500.000	500.000
5) L1 AR-1016-3	5.499	4.626	47296272	25397162	500.000	500.000
6) L1 AR-1016-4	5.596	4.667	39117958	23897261	500.000	500.000
7) L1 AR-1016-5	5.886	4.875	41992968	29344290	500.000	500.000
31) L7 AR-1260-1	6.997	5.888	68938466	53487170	500.000	500.000
32) L7 AR-1260-2	7.251	6.075	67337203	55607605	500.000	500.000
33) L7 AR-1260-3	7.606	6.225	52401578	55436620	500.000	500.000
34) L7 AR-1260-4	7.830	6.689	58602629	42797190	500.000	500.000
35) L7 AR-1260-5	8.135	6.930	96142008	81909535	500.000	500.000

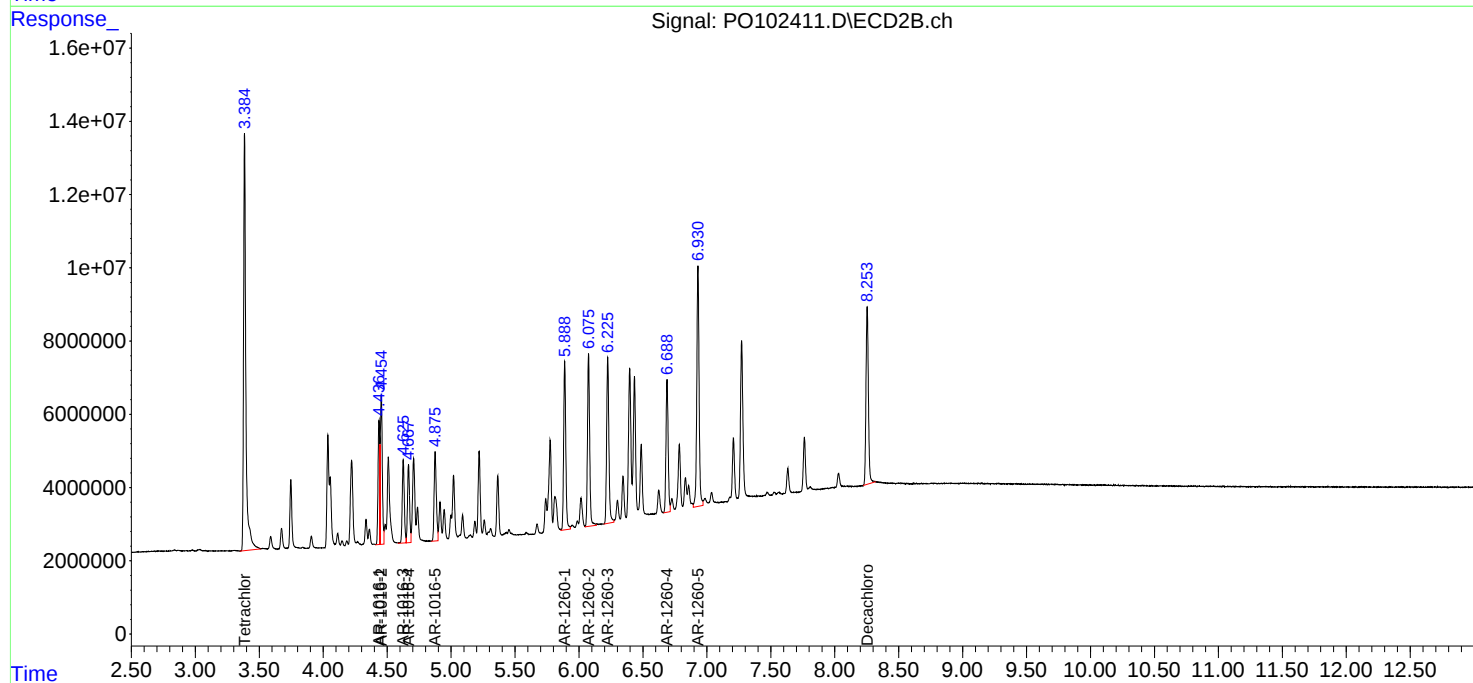
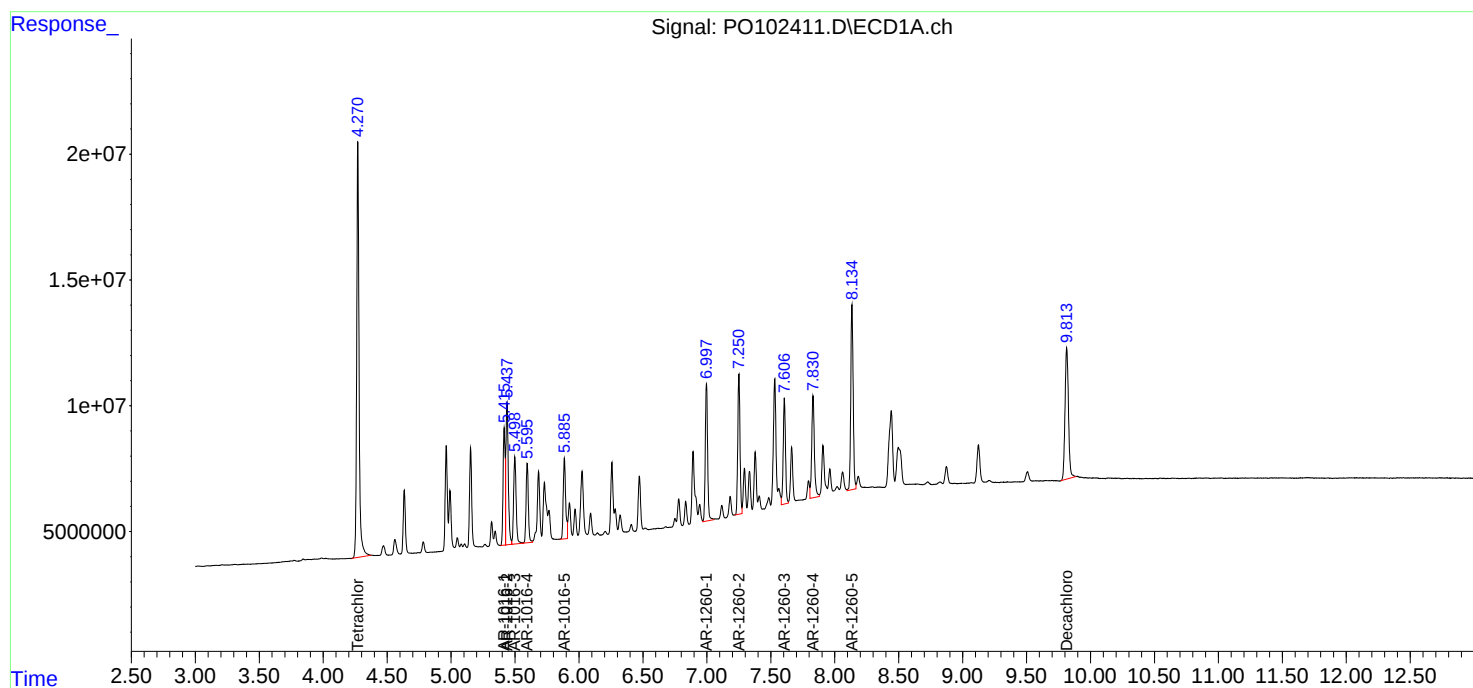
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102411.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:41
Operator : YP/AJ
Sample : AR1660ICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:10:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
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_O\Data\P0031224\
 Data File : P0102412.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 15:58
 Operator : YP/AJ
 Sample : AR1660ICC250
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:18:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:07:56 2024
 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...	4.271	3.385	107.1E6	72592391	25.719	25.648
2) SA Decachlor...	9.816	8.255	49151726	32091129	25.480	25.614
Target Compounds						
3) L1 AR-1016-1	5.416	4.437	26682978	16776343	267.189	268.977
4) L1 AR-1016-2	5.438	4.455	38502152	22878723	265.077	263.939
5) L1 AR-1016-3	5.499	4.626	24451334	13397923	264.072	267.333
6) L1 AR-1016-4	5.596	4.667	19967167	12581659	260.950	268.365
7) L1 AR-1016-5	5.886	4.876	21715504	15392238	264.288	266.960
31) L7 AR-1260-1	6.997	5.888	35471236	27766572	259.903	263.094
32) L7 AR-1260-2	7.251	6.075	34276016	28494843	258.220	260.956
33) L7 AR-1260-3	7.607	6.225	26204032	29053197	253.490	264.853
34) L7 AR-1260-4	7.831	6.689	29659862	22063111	257.632	260.429
35) L7 AR-1260-5	8.136	6.931	49581743	41507974	260.660	255.654

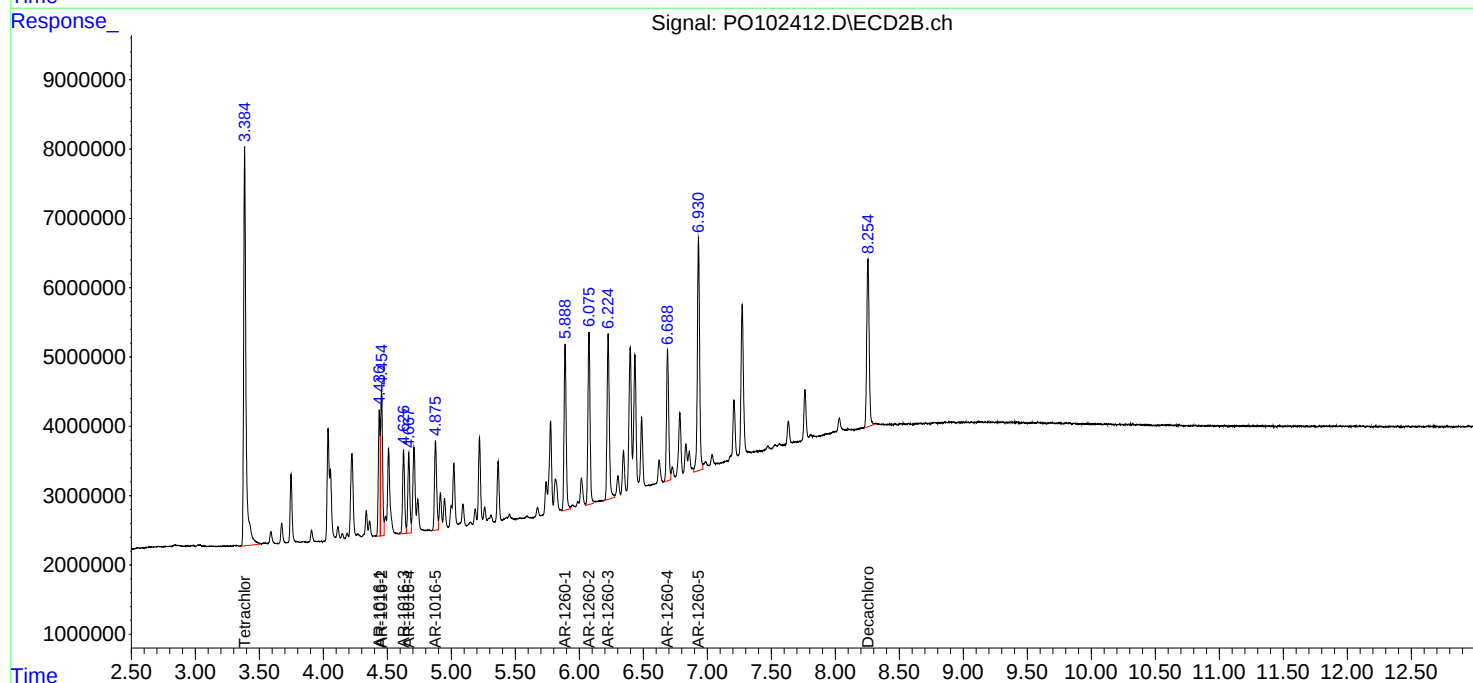
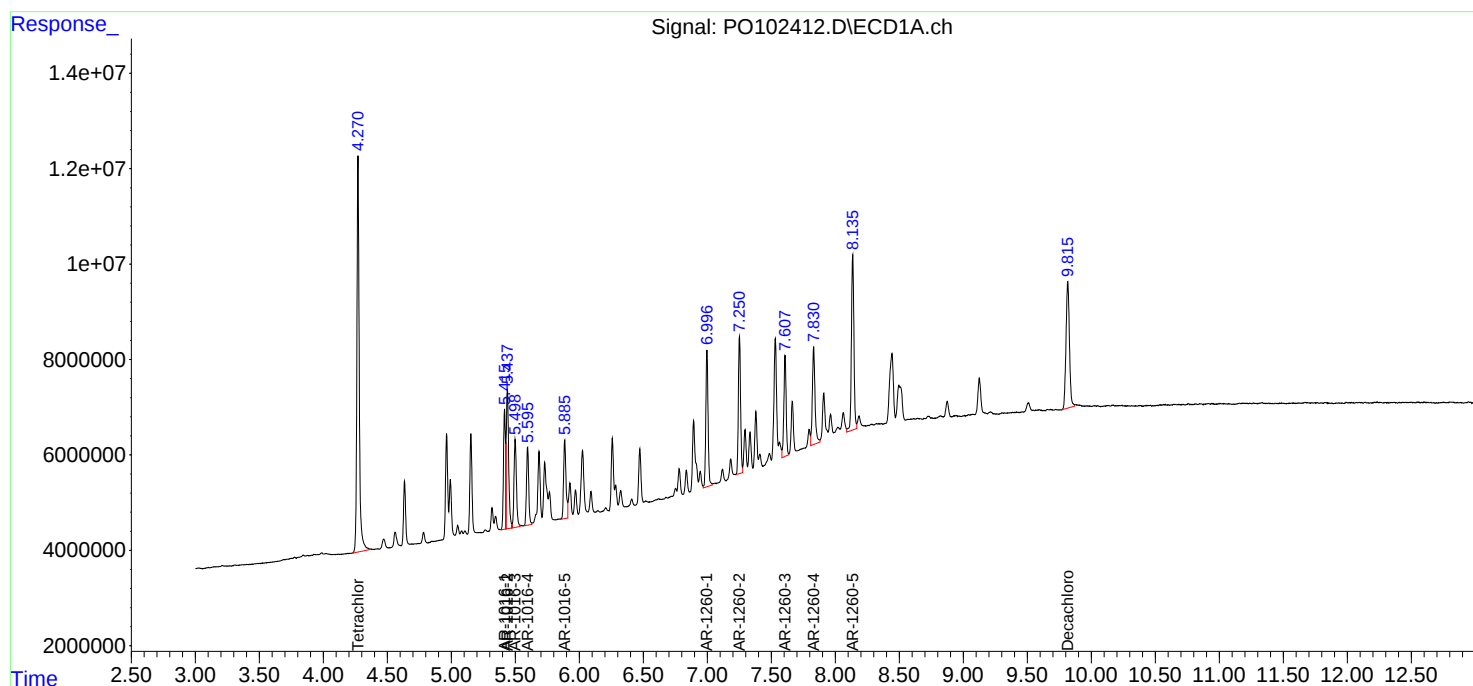
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102412.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:58
Operator : YP/AJ
Sample : AR1660ICC250
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:18:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
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_O\Data\P0031224\
 Data File : P0102413.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 16:15
 Operator : YP/AJ
 Sample : AR1660ICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/13/2024
 Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:21:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:07:56 2024
 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...	4.271	3.384	19165067	13443778	4.676	4.798
2) SA Decachlor...	9.816	8.254	8891793	5763528	4.683	4.675
Target Compounds						
3) L1 AR-1016-1	5.416	4.437	5003491	3191181	50.082	50.927
4) L1 AR-1016-2	5.438	4.454	7209076	4350170	49.706	50.148
5) L1 AR-1016-3	5.499	4.626	4842448	2540487	51.822	50.461m
6) L1 AR-1016-4	5.596	4.668	3608473	2387471	47.701	50.737
7) L1 AR-1016-5	5.887	4.876	4022800	2841957	49.164	49.431
31) L7 AR-1260-1	6.997	5.889	6944648	5128422	50.705	48.868
32) L7 AR-1260-2	7.252	6.075	6390128	5493988	48.501	50.251
33) L7 AR-1260-3	7.608	6.225	4813947	6254481	47.217	55.460
34) L7 AR-1260-4	7.832	6.690	5888539	4384450	50.915	51.393
35) L7 AR-1260-5	8.136	6.931	10558955	8013320	54.313	49.483

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102413.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:15
Operator : YP/AJ
Sample : AR1660ICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

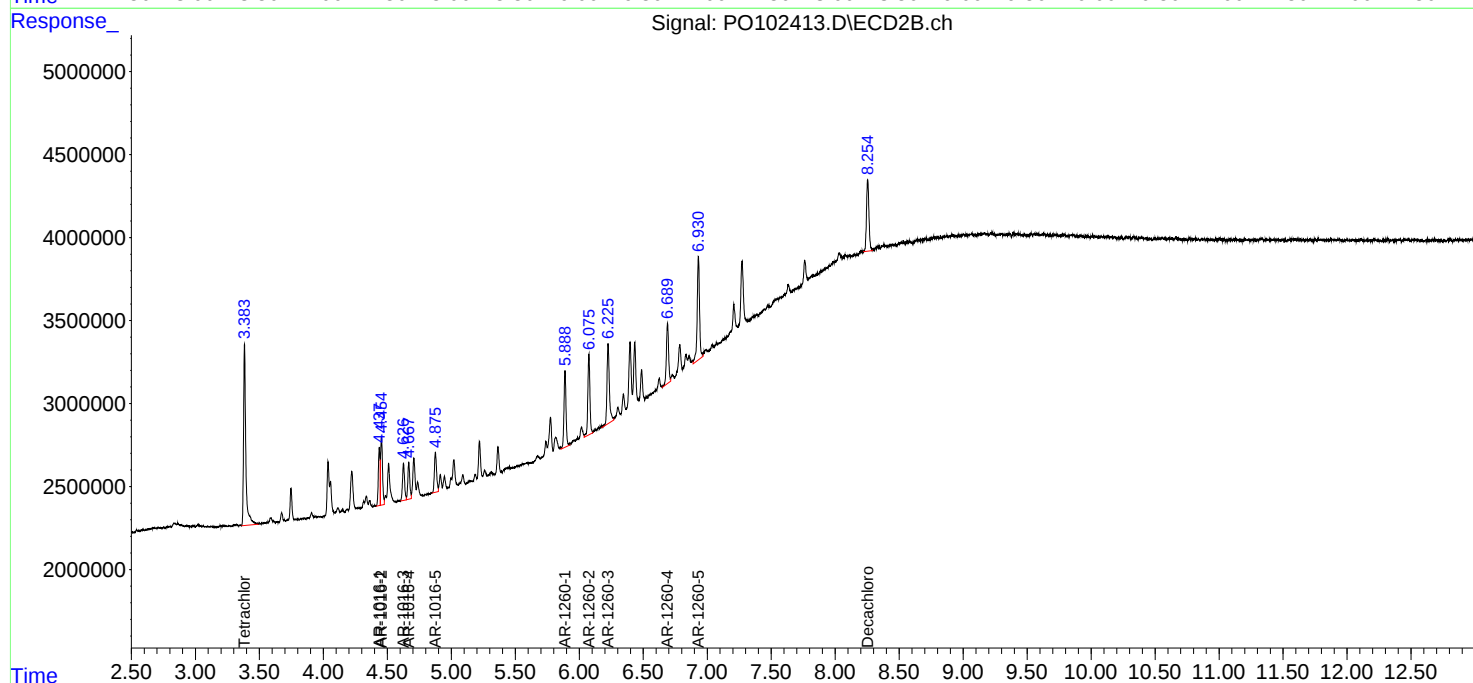
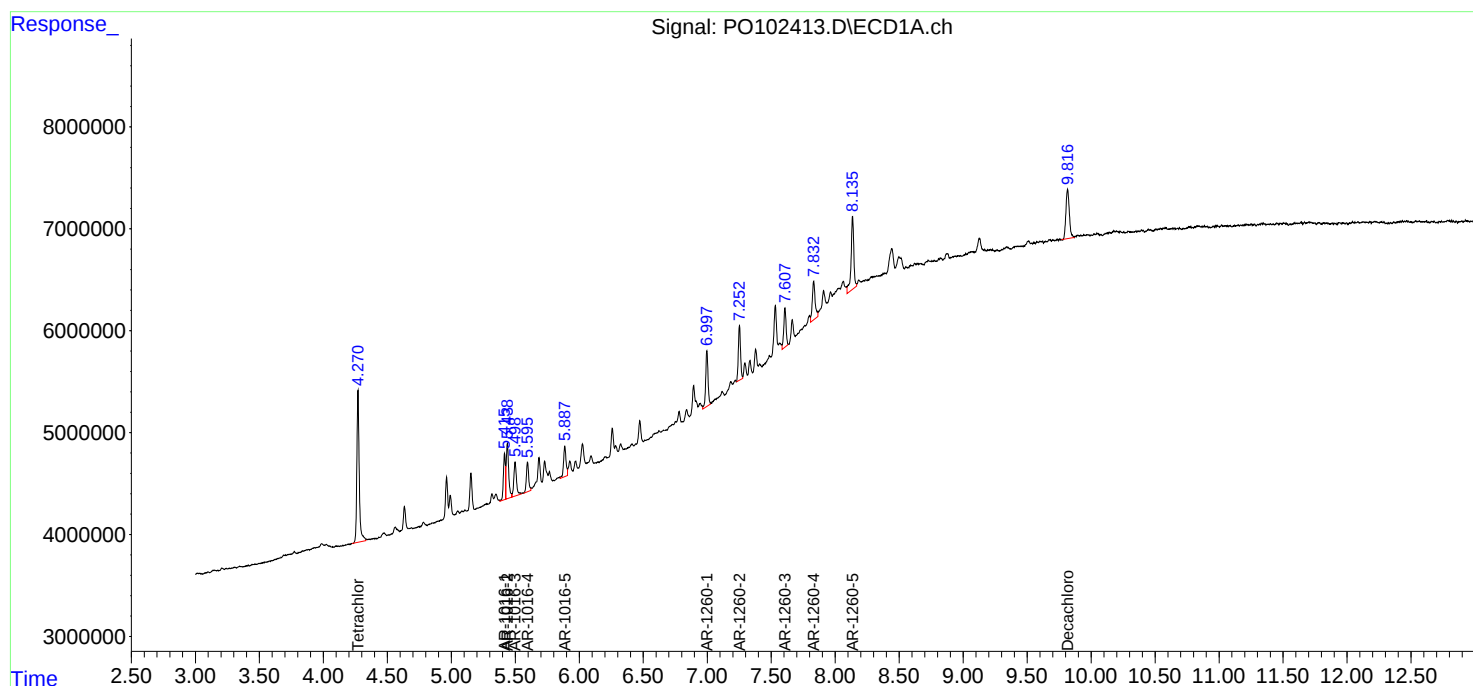
Instrument :
ECD_O
ClientSampleId :
AR1660ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:21:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
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_O\Data\P0031224\
 Data File : P0102414.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 16:32
 Operator : YP/AJ
 Sample : AR1221ICC500
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1221ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:32:05 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:31:49 2024
 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...	4.270	3.384	198.1E6	133.8E6	50.000	50.000
2) SA Decachlor...	9.815	8.253	89907821	58342563	50.000	50.000
Target Compounds						
8) L2 AR-1221-1	4.474	3.591	18865123	12868209	500.000	500.000
9) L2 AR-1221-2	4.559	3.674	14707937	9723953	500.000	500.000
10) L2 AR-1221-3	4.634	3.747	42198598	27091950	500.000	500.000

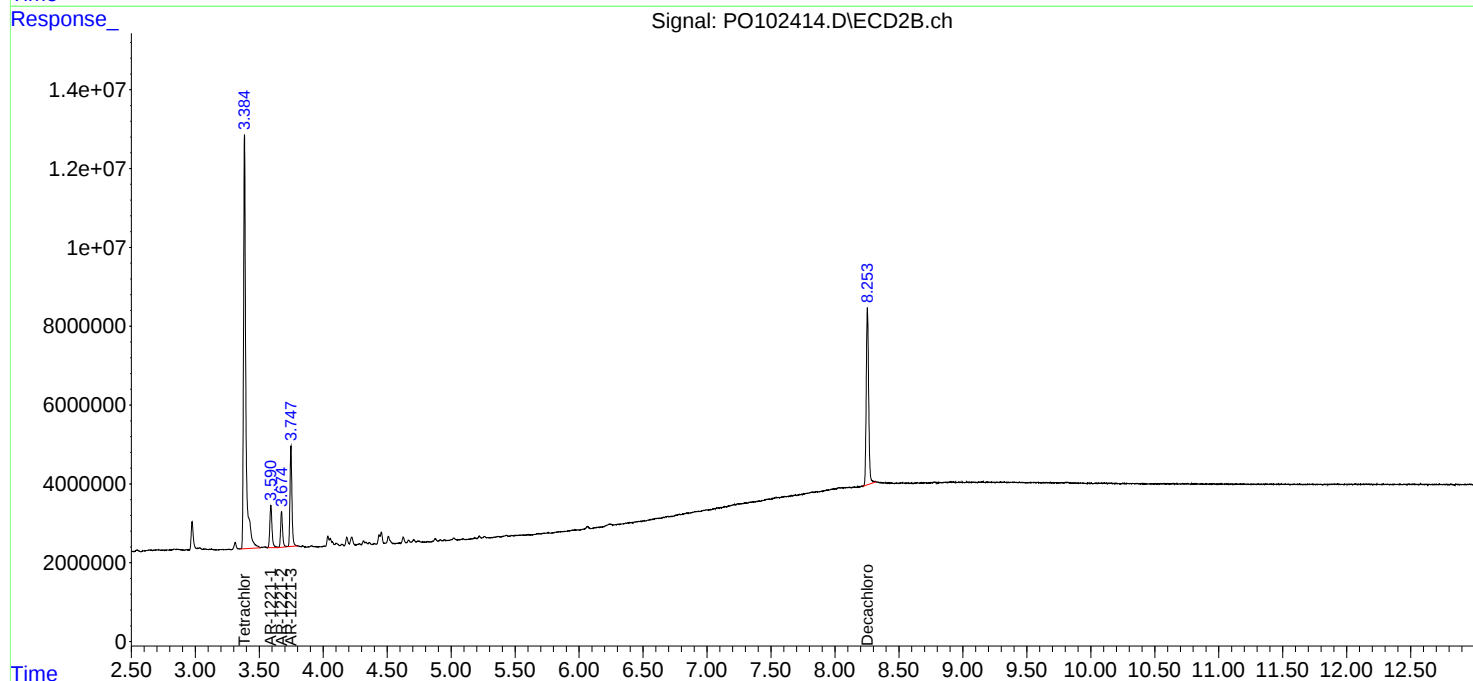
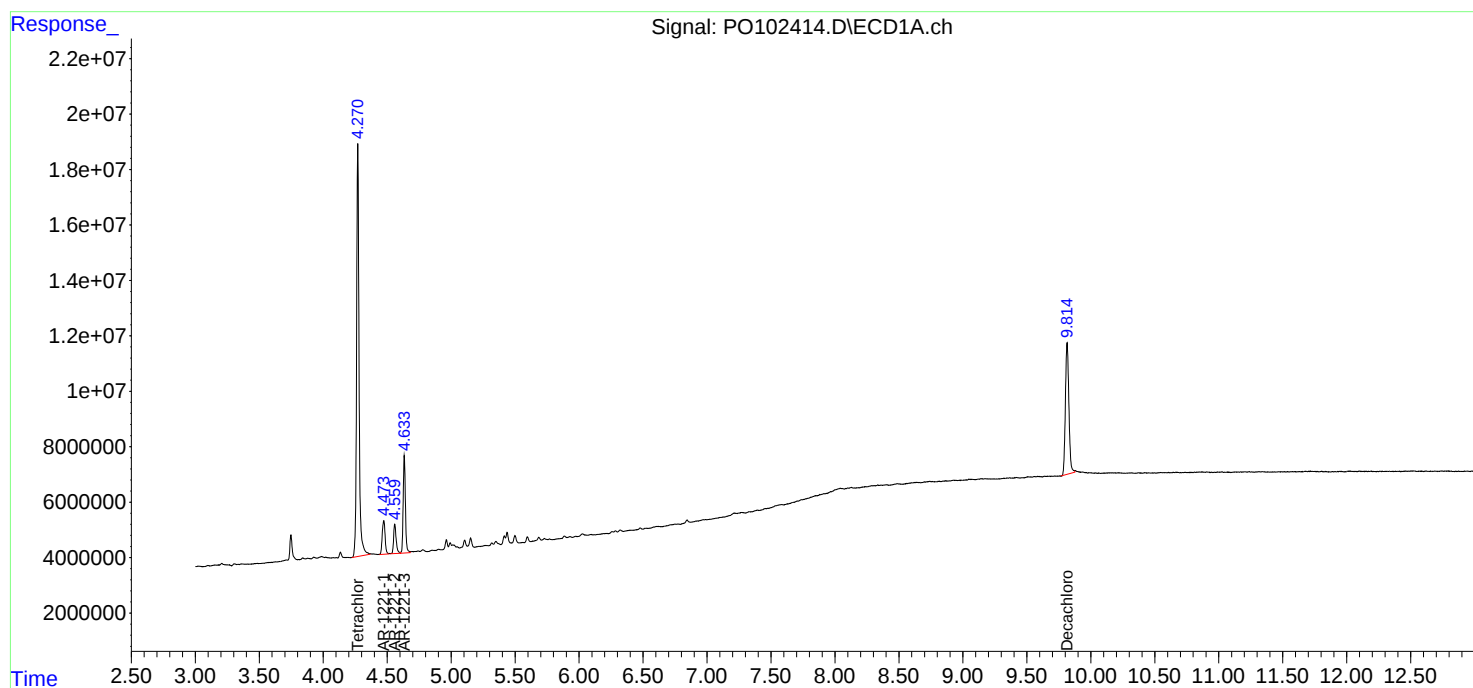
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102414.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:32
Operator : YP/AJ
Sample : AR1221ICC500
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1221ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:32:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:31:49 2024
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_O\Data\P0031224\
 Data File : P0102415.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 16:49
 Operator : YP/AJ
 Sample : AR1232ICC500
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1232ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 12 17:37:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Mar 12 17:37:21 2024
 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...	4.271	3.385	245.9E6	166.5E6	50.000	50.000
2) SA Decachlor...	9.816	8.254	109.6E6	73215473	50.000	50.000
Target Compounds						
11) L3 AR-1232-1	4.634	3.748	40498173	26232305	500.000	500.000
12) L3 AR-1232-2	5.153	4.455	25198102	22776224	500.000	500.000
13) L3 AR-1232-3	5.437	4.627	37592290	12732348	500.000	500.000
14) L3 AR-1232-4	5.596	4.708	19023135	13441558	500.000	500.000
15) L3 AR-1232-5	5.686	4.876	17824395	13564568	500.000	500.000

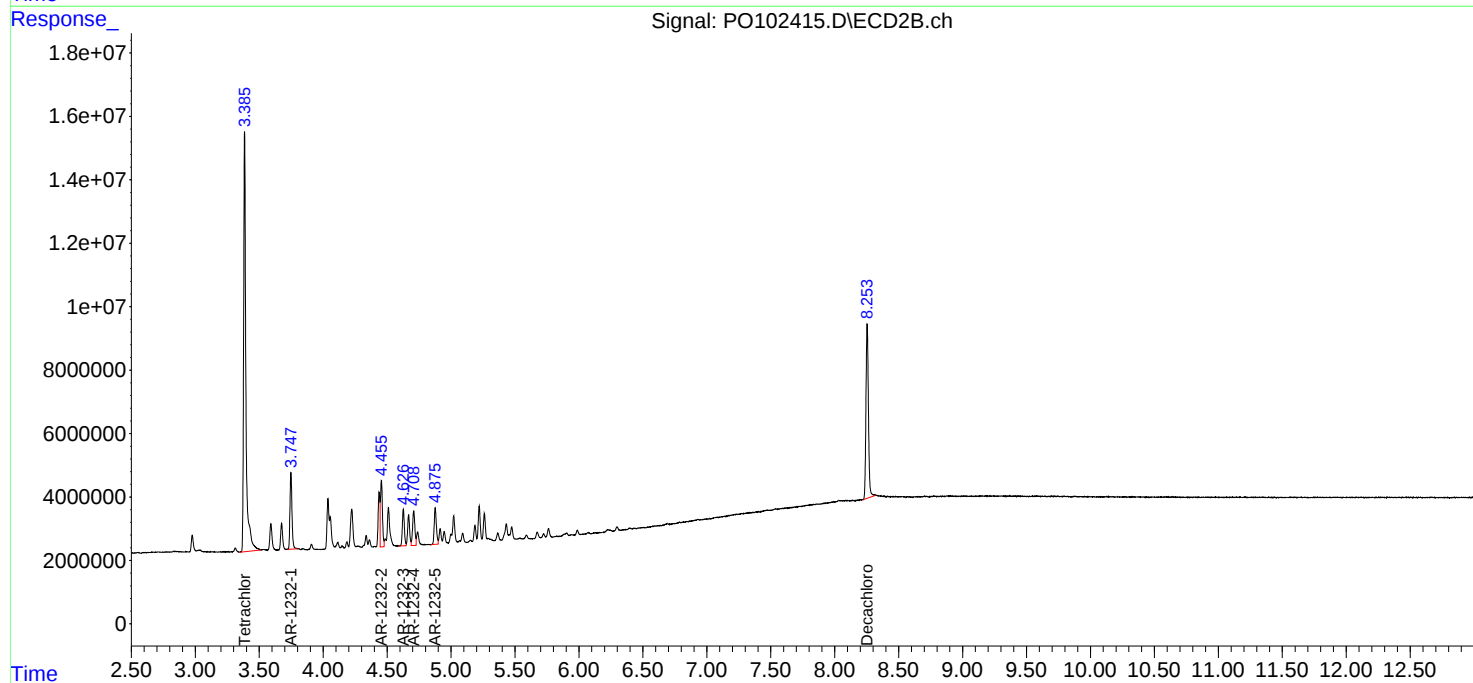
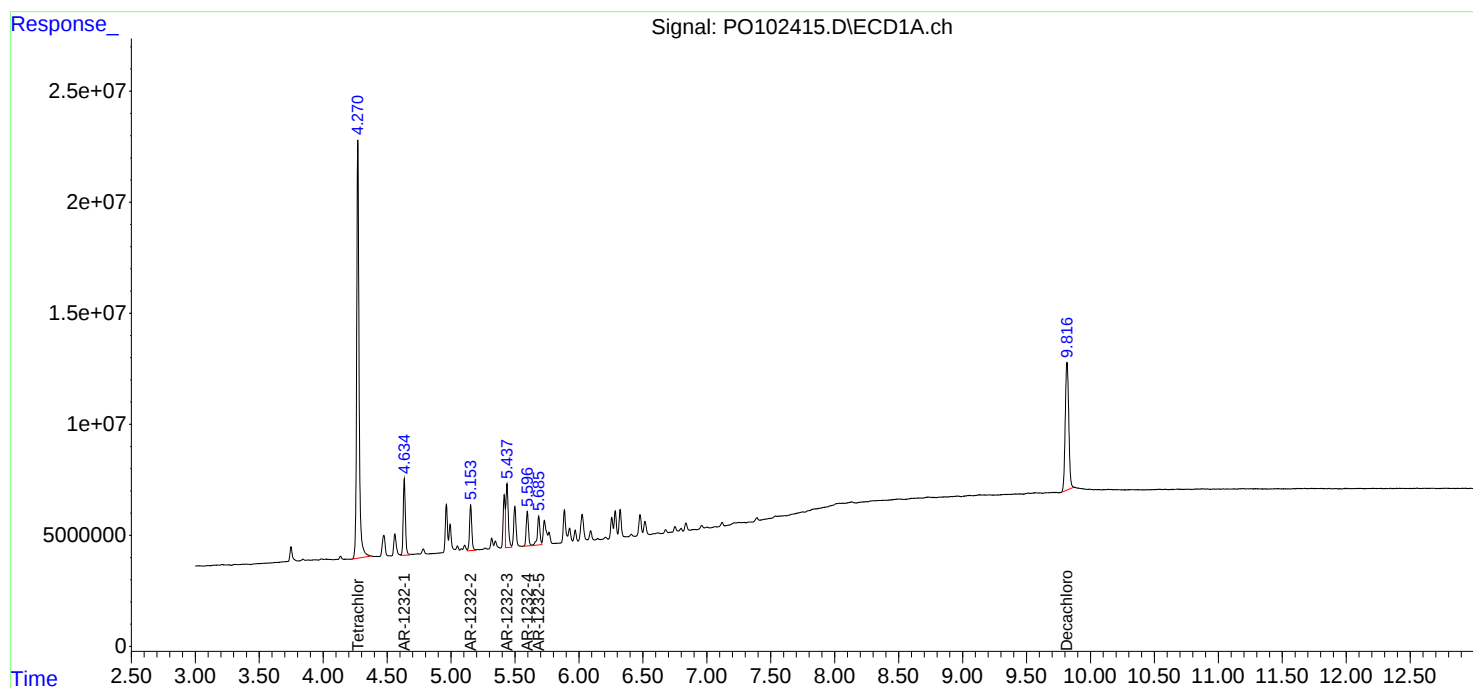
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102415.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:49
Operator : YP/AJ
Sample : AR1232ICC500
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1232ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:37:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:37:21 2024
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_O\Data\P0031224\
 Data File : P0102416.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 17:07
 Operator : YP/AJ
 Sample : AR1242ICC1000
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1242ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:41:46 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:41:38 2024
 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...	4.270	3.385	370.7E6	254.4E6	97.879	97.532
2) SA Decachlor...	9.816	8.254	171.0E6	112.9E6	97.152	97.325
Target Compounds						
16) L4 AR-1242-1	5.415	4.437	70801651	44864486	958.044	954.138
17) L4 AR-1242-2	5.437	4.454	103.0E6	61925174	961.683	956.223
18) L4 AR-1242-3	5.498	4.627	65412696	35875974	959.564	958.315
19) L4 AR-1242-4	5.596	4.708	54337431	41052096	966.680	952.636
20) L4 AR-1242-5	6.322	5.220	47769800	39876034	954.121	960.098

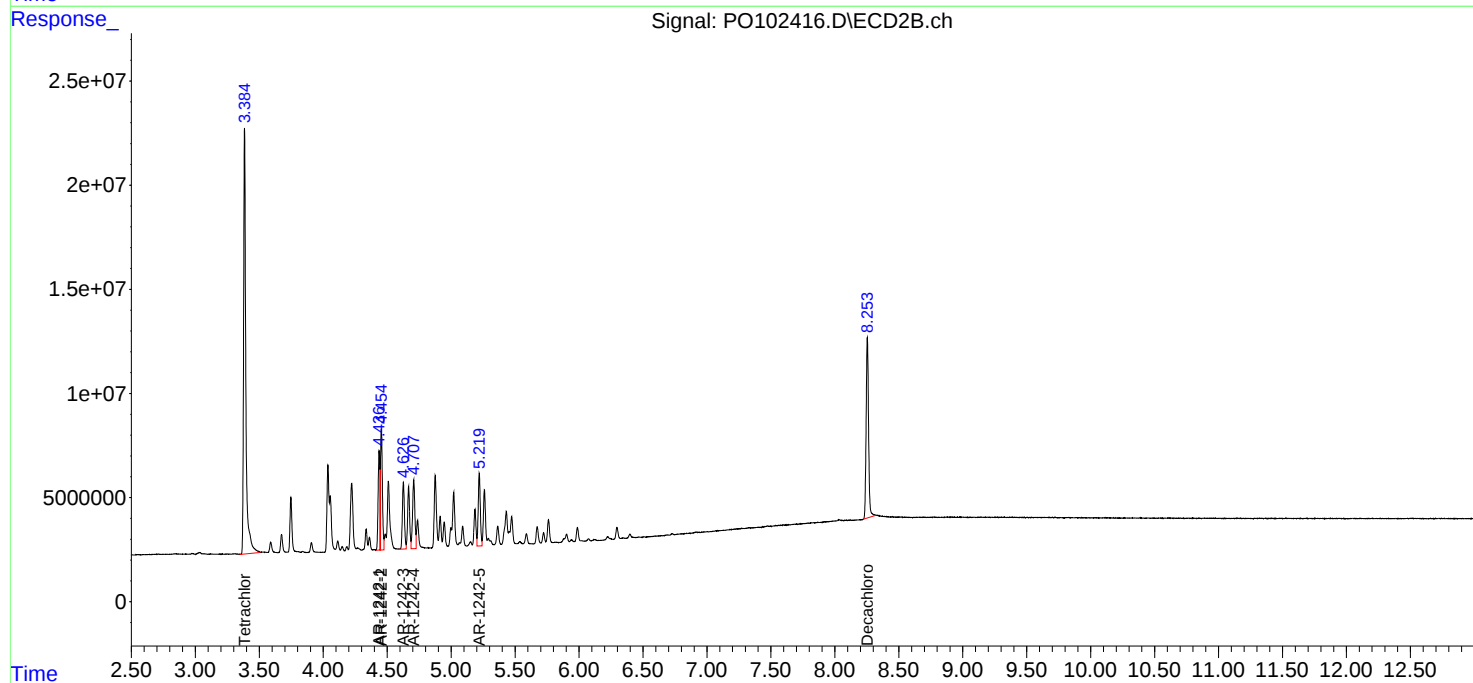
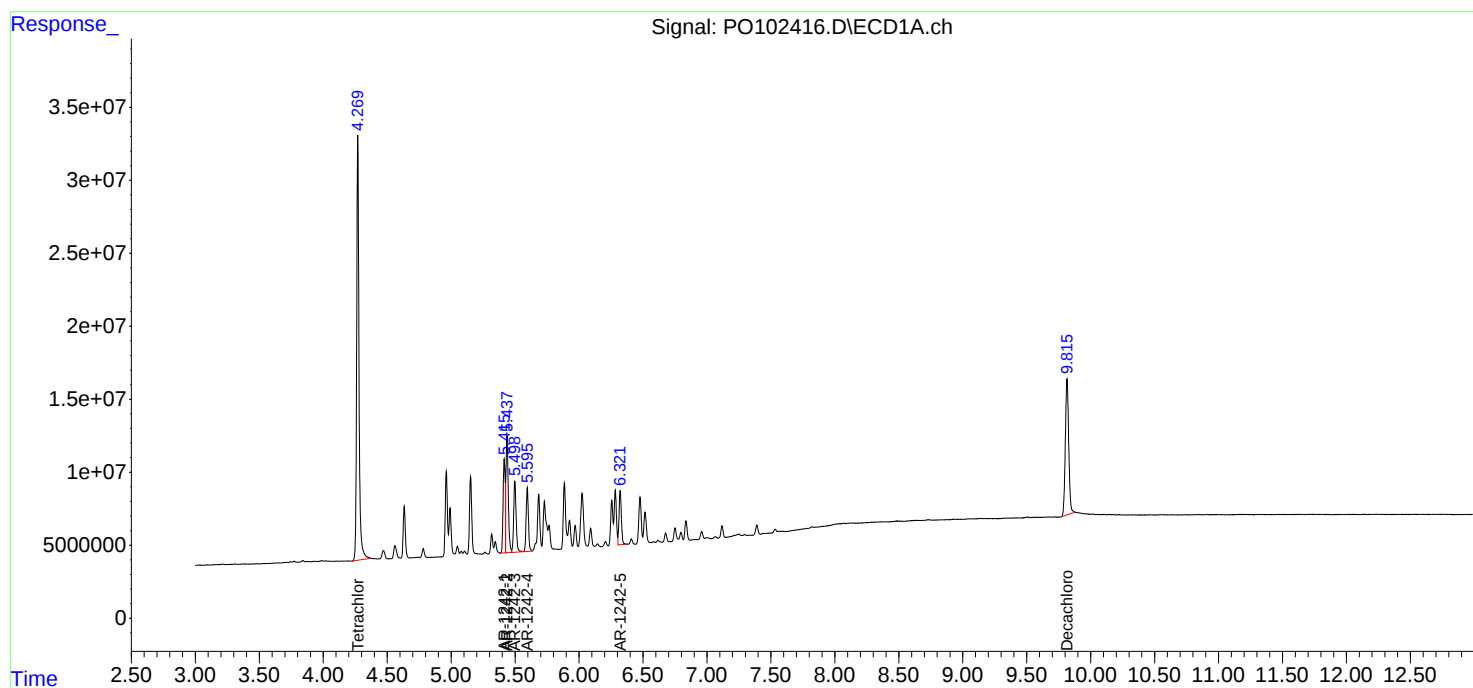
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102416.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:07
Operator : YP/AJ
Sample : AR1242ICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1242ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:41:38 2024
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_O\Data\P0031224\
 Data File : P0102417.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 17:24
 Operator : YP/AJ
 Sample : AR1242ICC750
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1242ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:43:57 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:43:49 2024
 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...	4.270	3.385	281.9E6	194.2E6	74.621	74.639
2)	SA Decachlor...	9.815	8.254	130.6E6	86271328	74.466	74.586
Target Compounds							
16)	L4 AR-1242-1	5.415	4.437	53748056	34248270	734.703	735.435
17)	L4 AR-1242-2	5.437	4.454	79362785	48286462	744.130	747.074
18)	L4 AR-1242-3	5.498	4.627	50008724	27501011	738.984	739.665
19)	L4 AR-1242-4	5.595	4.708	41465360	31751410	741.743	741.154
20)	L4 AR-1242-5	6.321	5.220	36967857	30619308	742.207	741.433

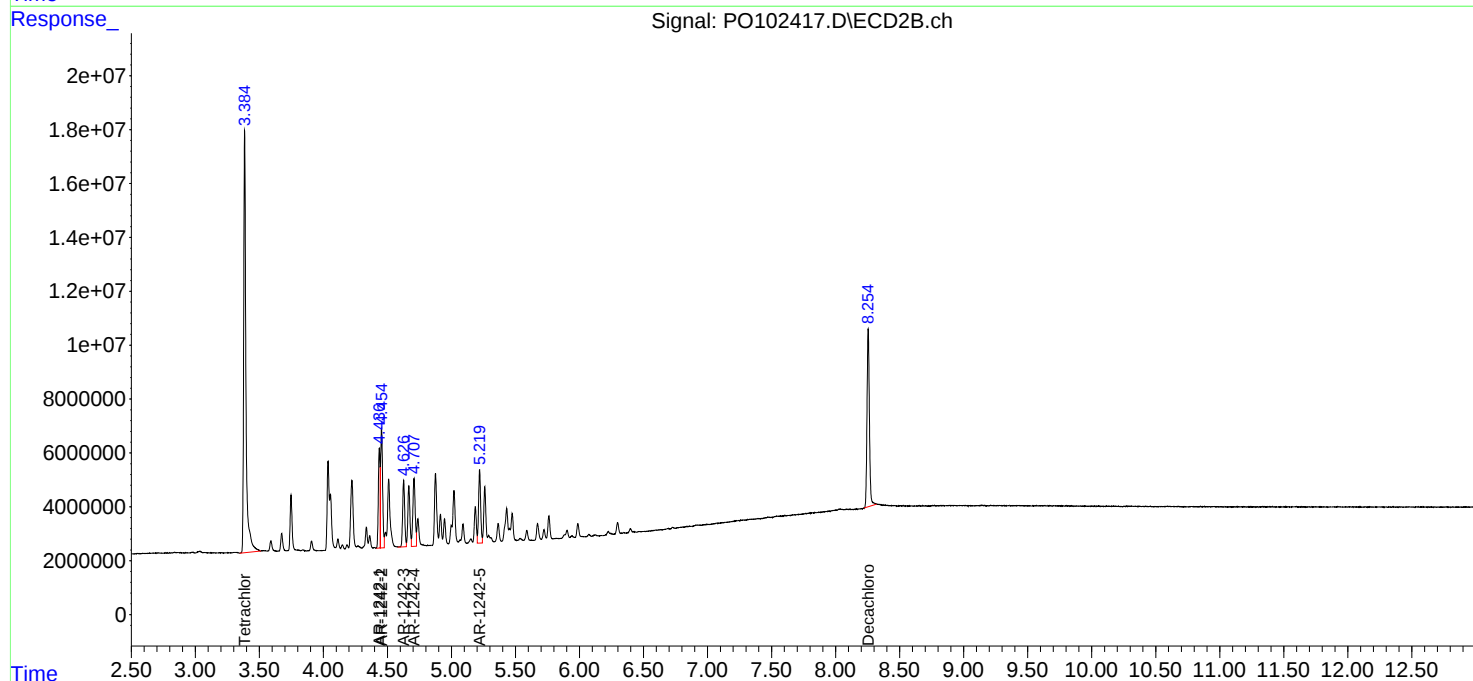
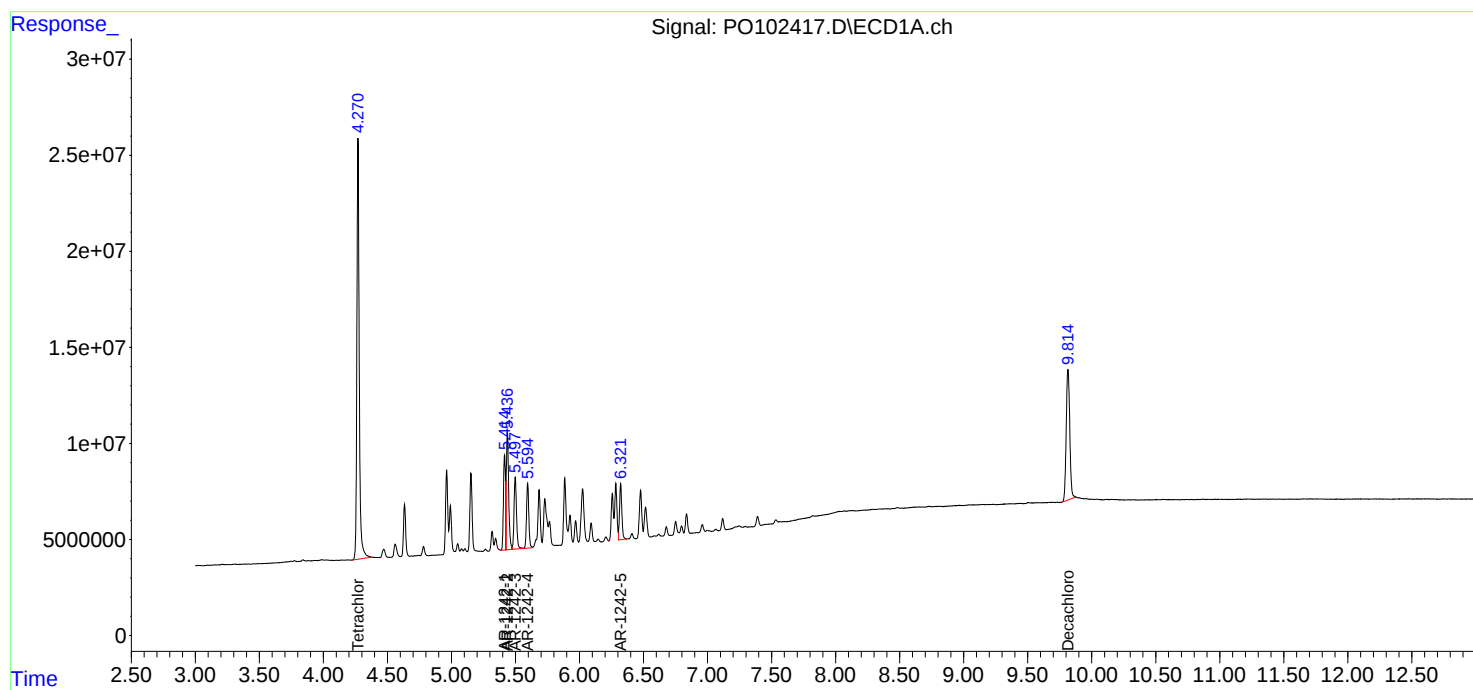
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102417.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:24
Operator : YP/AJ
Sample : AR1242ICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1242ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:43:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:43:49 2024
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_O\Data\P0031224\
 Data File : P0102418.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 17:41
 Operator : YP/AJ
 Sample : AR1242ICC500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1242ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:34:55 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:32:40 2024
 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...	4.270	3.385	193.4E6	133.6E6	50.000	50.000
2) SA Decachlor...	9.816	8.254	90500425	59543910	50.000	50.000
Target Compounds						
16) L4 AR-1242-1	5.415	4.437	38501445	24588711	500.000	500.000
17) L4 AR-1242-2	5.437	4.454	55585796	33797614	500.000	500.000
18) L4 AR-1242-3	5.497	4.626	35462862	19498537	500.000	500.000
19) L4 AR-1242-4	5.595	4.708	29041634	22567117	500.000	500.000
20) L4 AR-1242-5	6.321	5.220	26181916	21595288	500.000	500.000

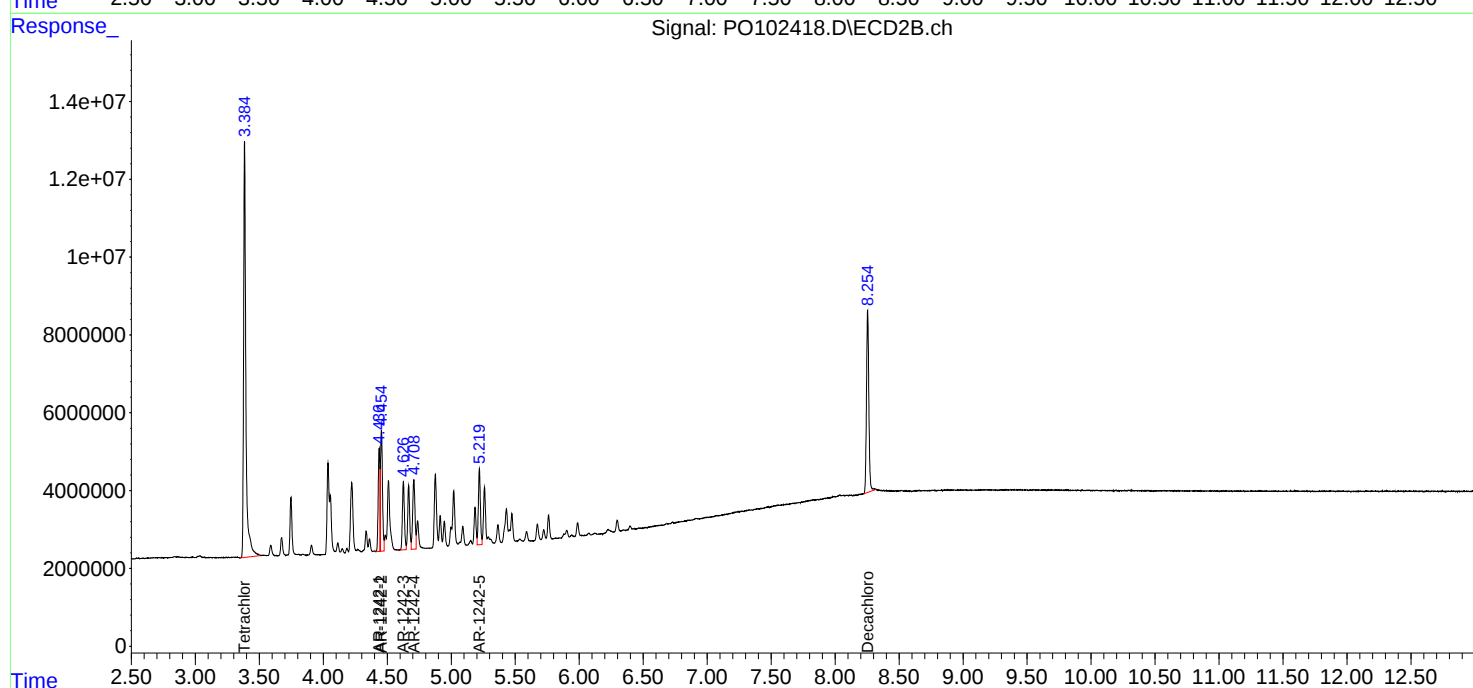
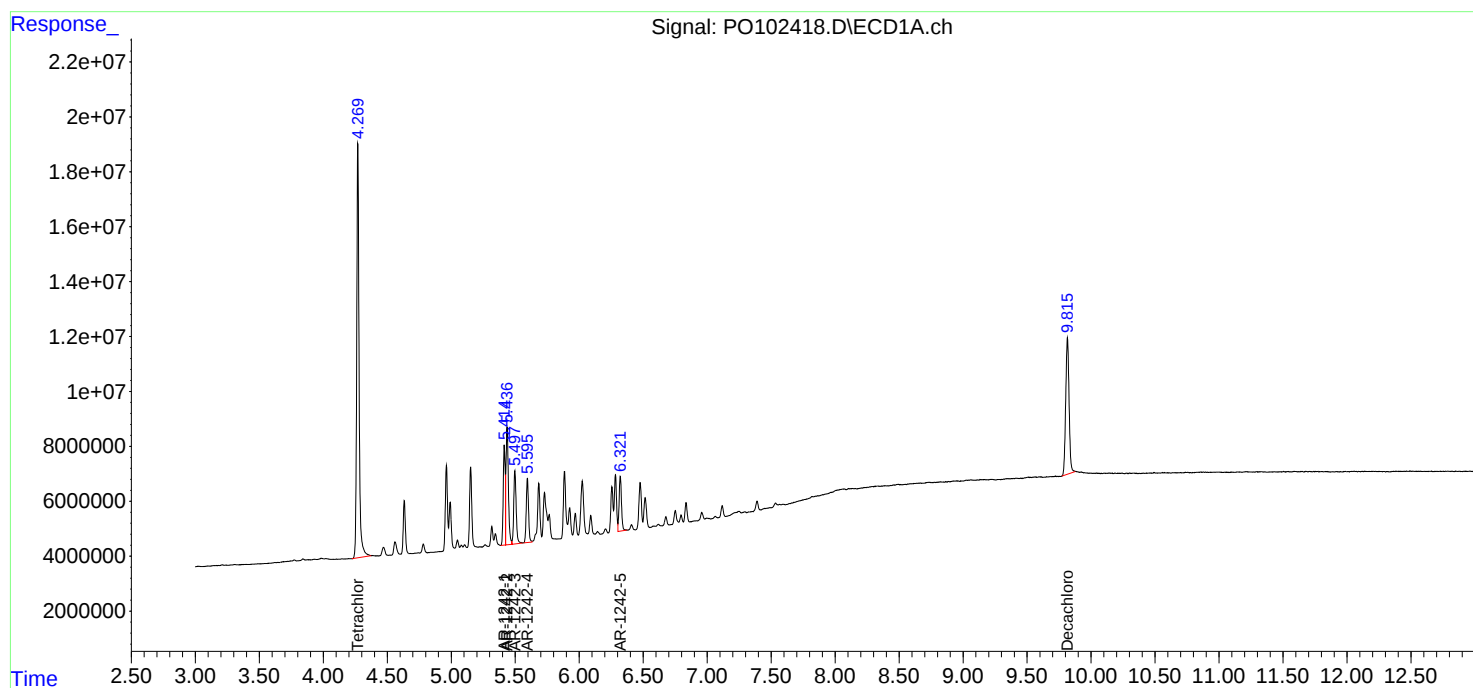
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102418.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:41
Operator : YP/AJ
Sample : AR1242ICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1242ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:34:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
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_O\Data\P0031224\
 Data File : P0102419.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 17:58
 Operator : YP/AJ
 Sample : AR1242ICC250
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1242ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:46:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:45:59 2024
 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...	4.270	3.384	97608034	67617672	25.624	25.734
2) SA Decachlor...	9.814	8.254	45297637	29859737	25.618	25.607
Target Compounds						
16) L4 AR-1242-1	5.415	4.437	20023625	13009580	267.371	271.394
17) L4 AR-1242-2	5.437	4.454	28790691	17739616	264.670	267.908
18) L4 AR-1242-3	5.498	4.626	18272030	10142189	264.711	266.707
19) L4 AR-1242-4	5.595	4.707	14683719	11939600	259.381	270.924
20) L4 AR-1242-5	6.321	5.220	13750371	11204315	269.054	265.647

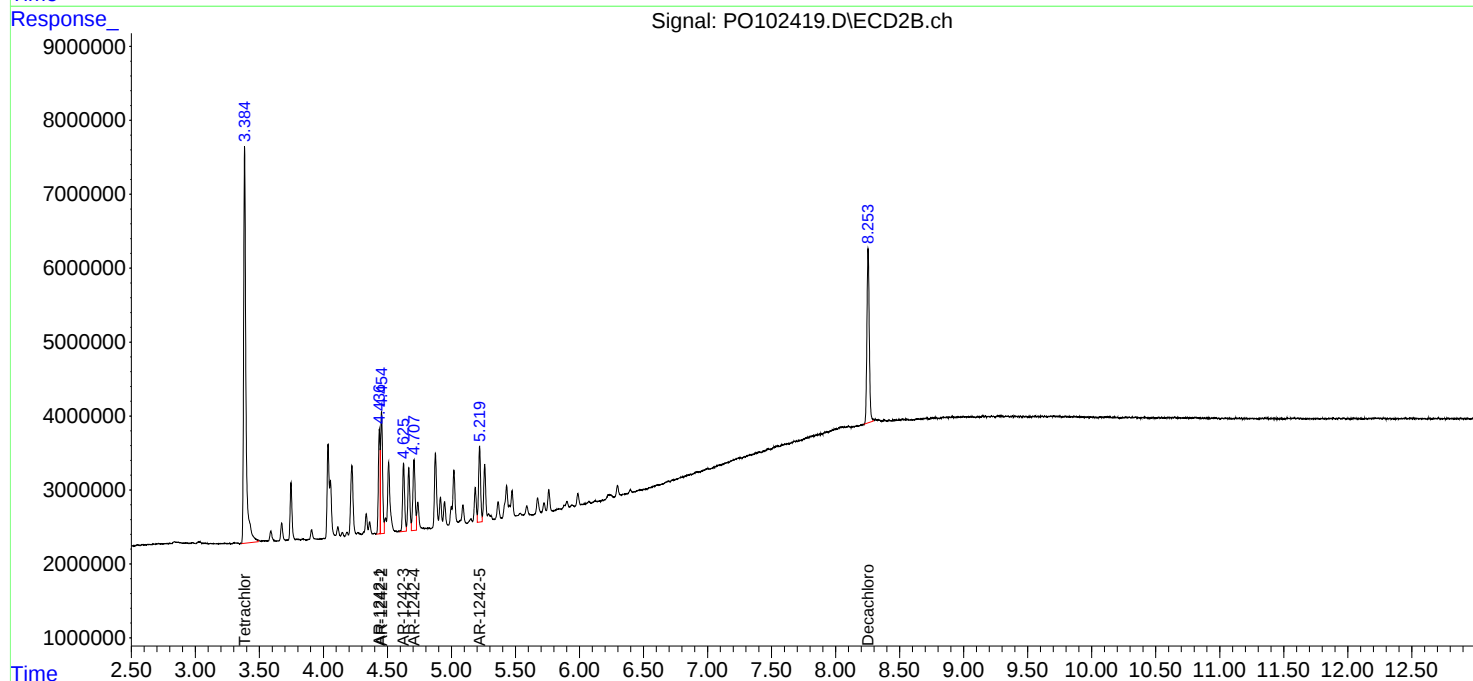
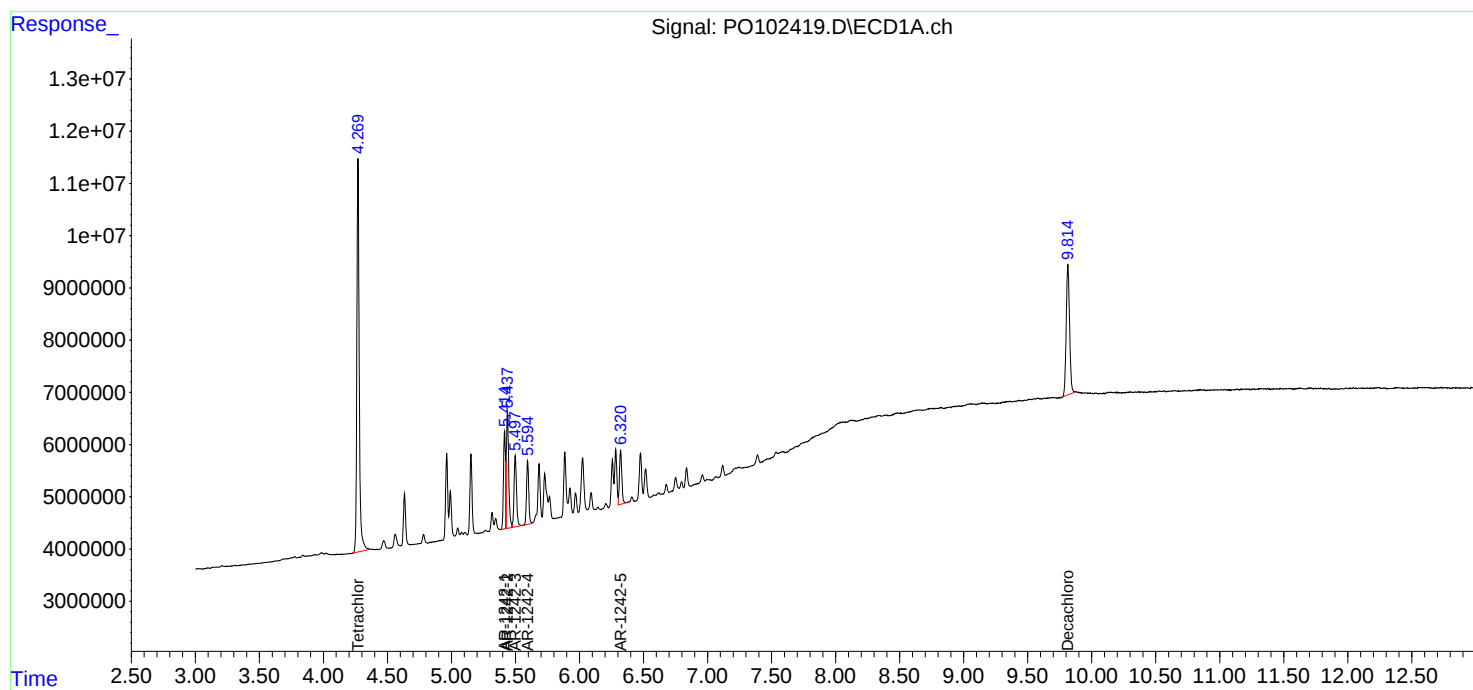
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102419.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:58
Operator : YP/AJ
Sample : AR1242ICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1242ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:45:59 2024
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_O\Data\P0031224\
 Data File : P0102420.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 18:16
 Operator : YP/AJ
 Sample : AR1242ICC050
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1242ICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:49:29 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:49:22 2024
 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...	4.270	3.384	18023237	12181845	4.783	4.705
2) SA Decachlor...	9.814	8.253	8377976	5280650	4.788	4.616
Target Compounds						
16) L4 AR-1242-1	5.415	4.436	3725523	2475678	49.797	51.308
17) L4 AR-1242-2	5.436	4.454	5663418	3208787	51.637	48.760
18) L4 AR-1242-3	5.497	4.626	3735030	2043027	53.235	52.936
19) L4 AR-1242-4	5.595	4.707	2732424	2257915	48.604	50.983
20) L4 AR-1242-5	6.321	5.219	2718028	2040937	52.515	48.703

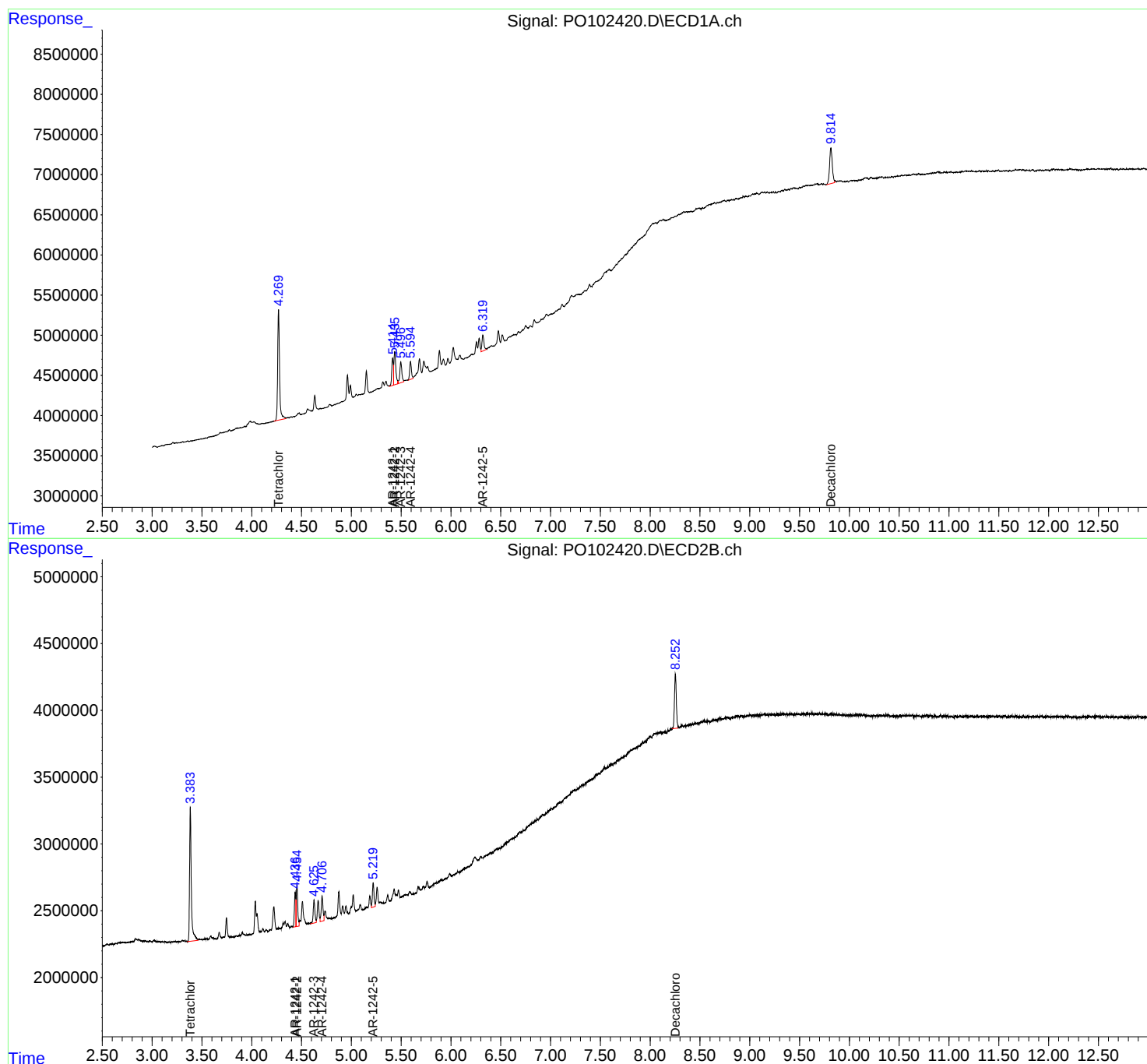
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102420.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:16
Operator : YP/AJ
Sample : AR1242ICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1242ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:49:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:49:22 2024
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_O\Data\P0031224\
 Data File : P0102421.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 18:33
 Operator : YP/AJ
 Sample : AR1248ICC1000
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1248ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:07:27 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:07:19 2024
 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...	4.271	3.385	370.1E6	250.5E6	98.566	97.821
2) SA Decachlor...	9.814	8.254	171.4E6	113.0E6	97.157	97.001
Target Compounds						
21) L5 AR-1248-1	5.415	4.437	54408854	34777028	966.472	951.683
22) L5 AR-1248-2	5.685	4.668	93838842	57962842	960.089	950.151
23) L5 AR-1248-3	5.886	4.708	98103923	60642519	962.257	951.775
24) L5 AR-1248-4	6.284	4.876	85213217	67968601	959.550	956.509
25) L5 AR-1248-5	6.322	5.260	81951324	50539958	957.429	958.679

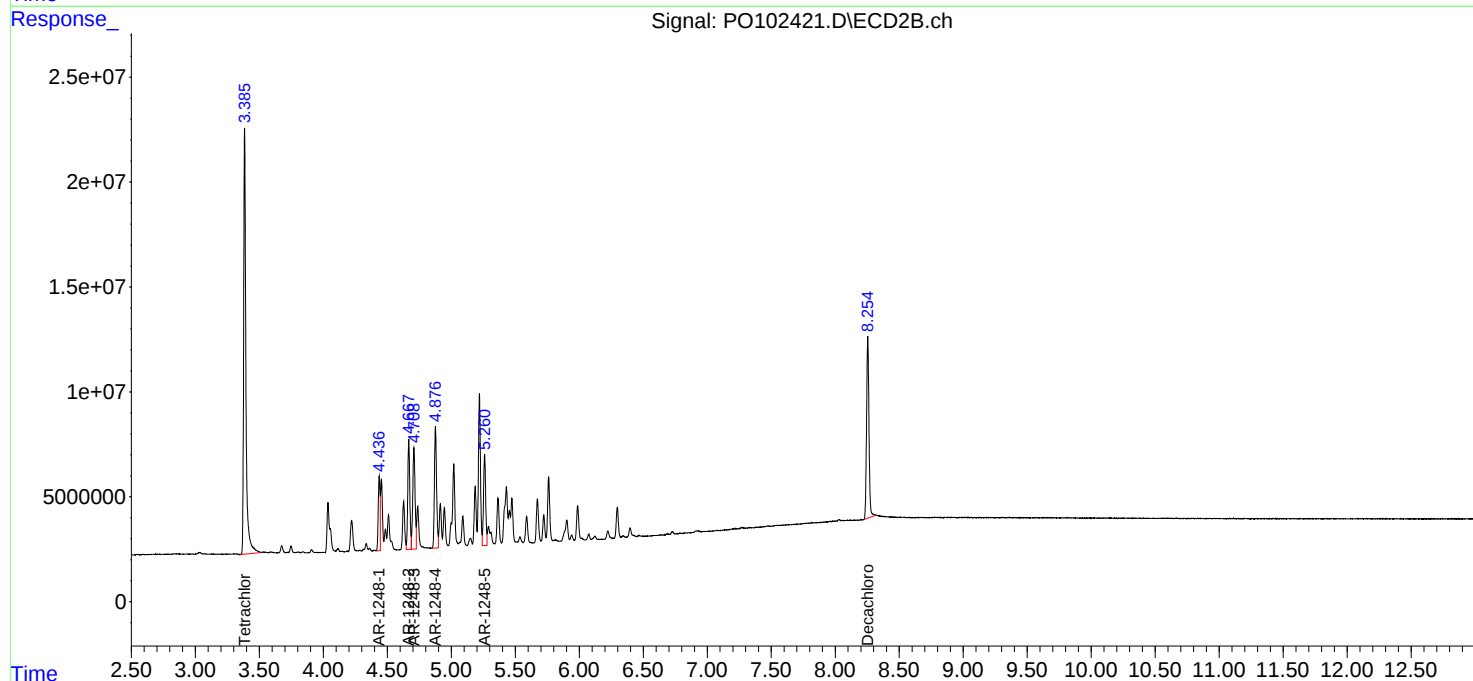
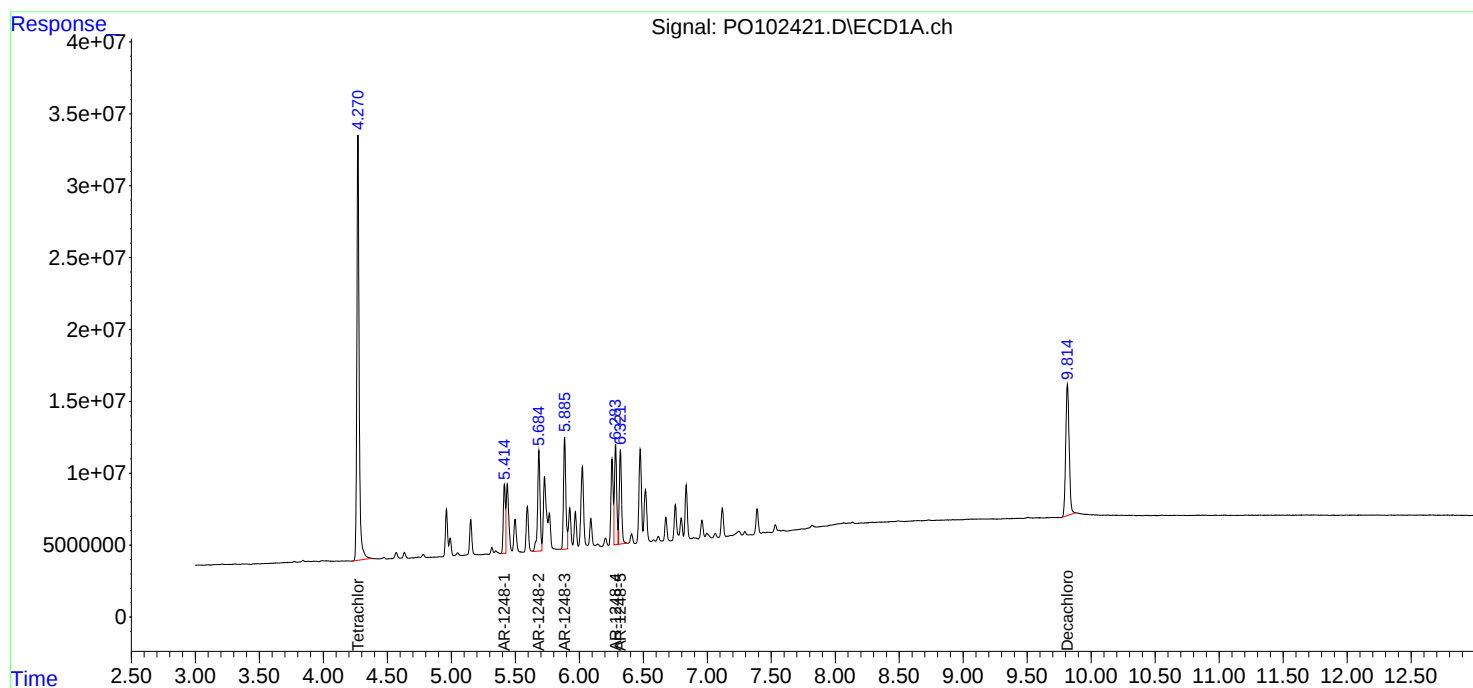
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102421.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:33
Operator : YP/AJ
Sample : AR1248ICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1248ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:07:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:07:19 2024
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_O\Data\P0031224\
 Data File : P0102422.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 18:50
 Operator : YP/AJ
 Sample : AR1248ICC750
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1248ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:11:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:11:31 2024
 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...	4.292	3.384	283.0E6	192.9E6	75.242	75.226
2) SA Decachlor...	9.836	8.253	126.7E6	87533199	72.840	75.097
Target Compounds						
21) L5 AR-1248-1	5.437	4.436	43252085	27351301	762.097	748.983
22) L5 AR-1248-2	5.706	4.667	74309643	45586787	756.823	748.183
23) L5 AR-1248-3	5.907	4.707	77494212	47641207	756.707	748.479
24) L5 AR-1248-4	6.305	4.875	65772118	53228926	742.610	749.387
25) L5 AR-1248-5	6.343	5.260	61253416	39658885	736.716	751.518

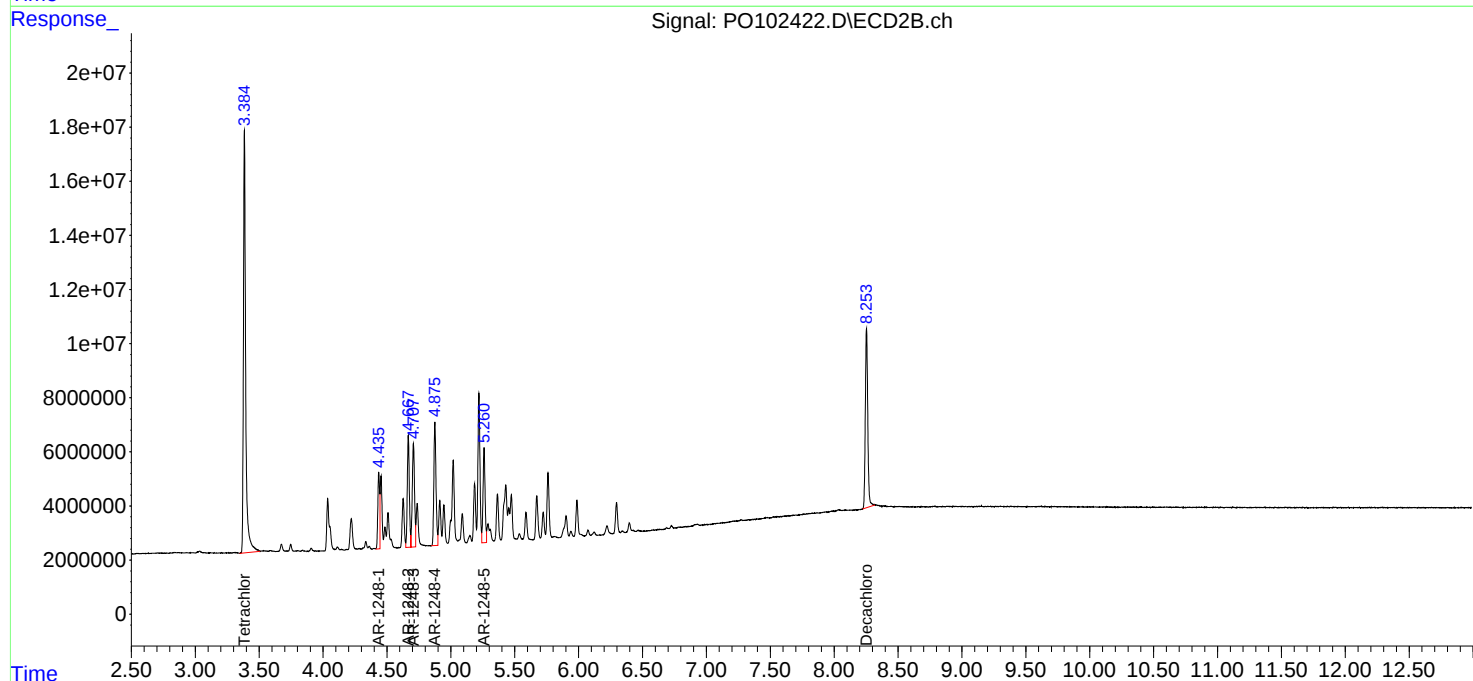
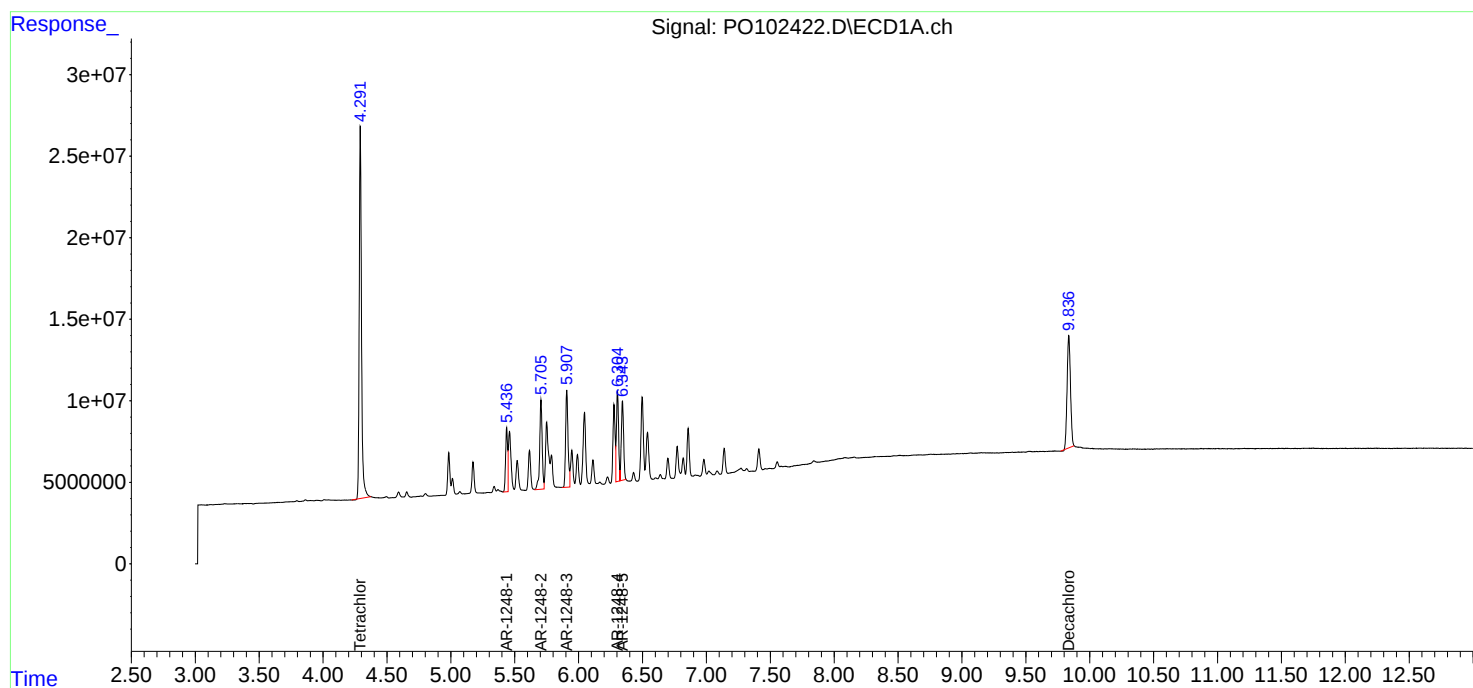
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102422.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:50
Operator : YP/AJ
Sample : AR1248ICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1248ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:11:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:11:31 2024
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_O\Data\P0031224\
 Data File : P0102423.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 19:07
 Operator : YP/AJ
 Sample : AR1248ICC500
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1248ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:03:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:00:50 2024
 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...	4.270	3.384	190.5E6	130.8E6	50.000	50.000
2) SA Decachlor...	9.814	8.253	90733757	59989268	50.000	50.000
Target Compounds						
21) L5 AR-1248-1	5.415	4.436	29091954	19154138	500.000	500.000
22) L5 AR-1248-2	5.684	4.667	50820289	32022404	500.000	500.000
23) L5 AR-1248-3	5.885	4.707	52899889	33393927	500.000	500.000
24) L5 AR-1248-4	6.283	4.875	46198816	37074707	500.000	500.000
25) L5 AR-1248-5	6.322	5.260	44619558	27448345	500.000	500.000

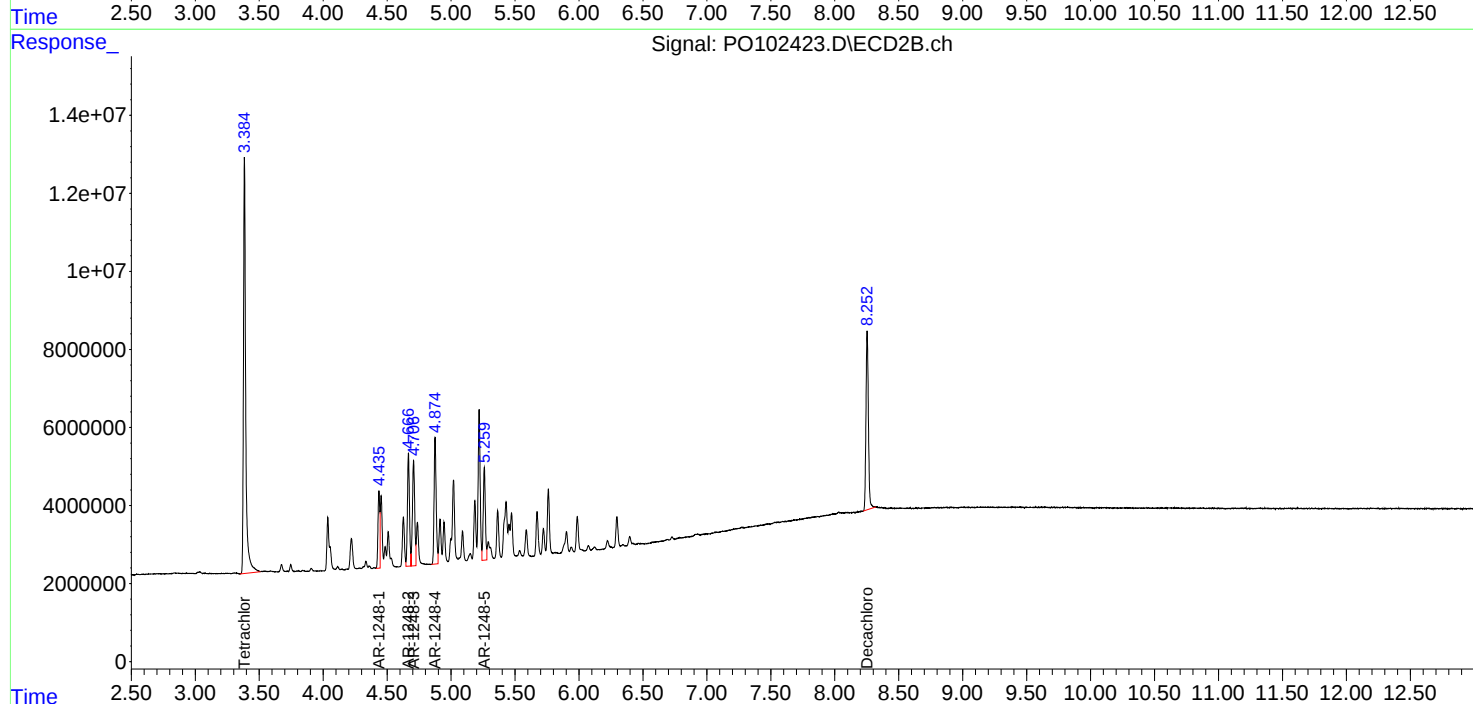
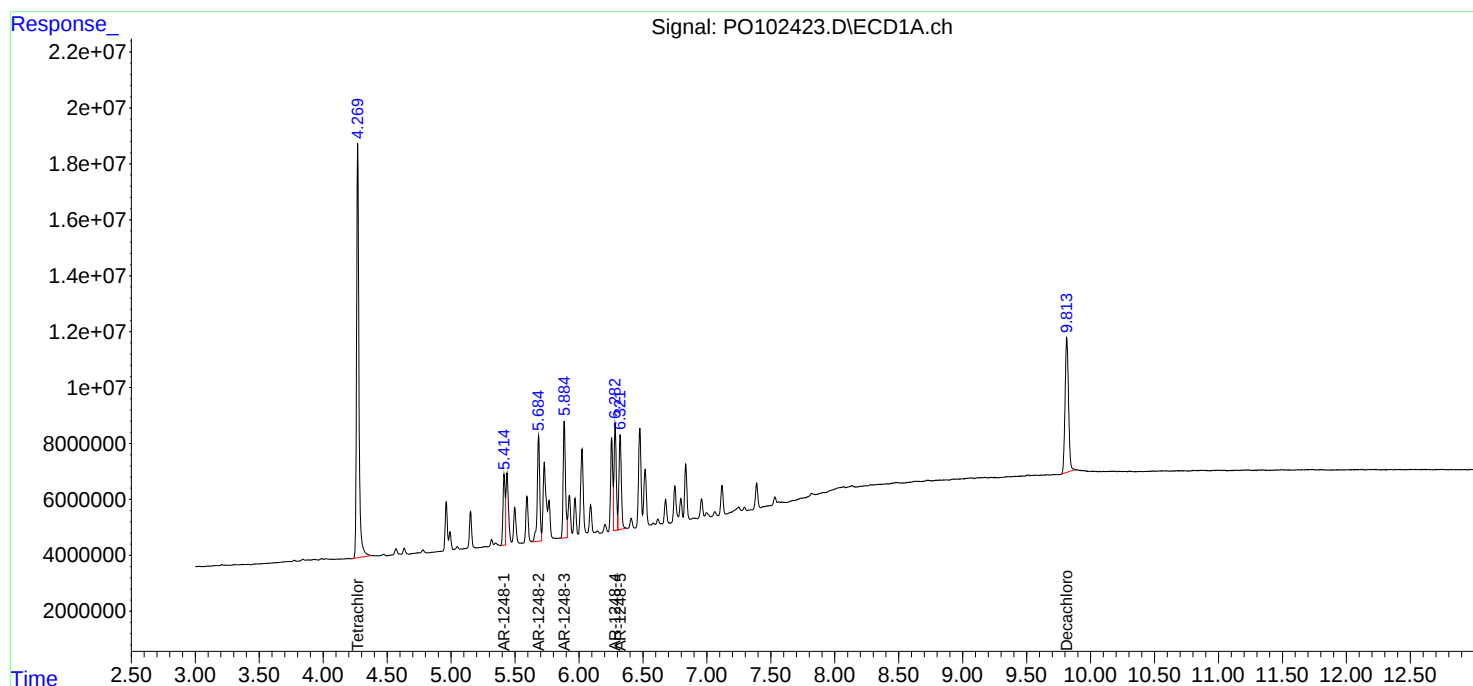
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102423.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:07
Operator : YP/AJ
Sample : AR1248ICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1248ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:03:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
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_O\Data\P0031224\
 Data File : P0102424.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 19:24
 Operator : YP/AJ
 Sample : AR1248ICC250
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1248ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:13:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:13:26 2024
 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...	4.269	3.384	97015980	66581673	25.591	25.714
2) SA Decachlor...	9.815	8.253	46329707	30601210	26.206	25.929
Target Compounds						
21) L5 AR-1248-1	5.414	4.436	15152744	10105238	262.529	269.519
22) L5 AR-1248-2	5.684	4.666	26735840	17067292	266.358	271.925
23) L5 AR-1248-3	5.885	4.707	27401686	17669370	262.949	270.143
24) L5 AR-1248-4	6.283	4.875	23828561	19579504	264.013	268.757
25) L5 AR-1248-5	6.322	5.259	23225587	14239905	271.379	264.590

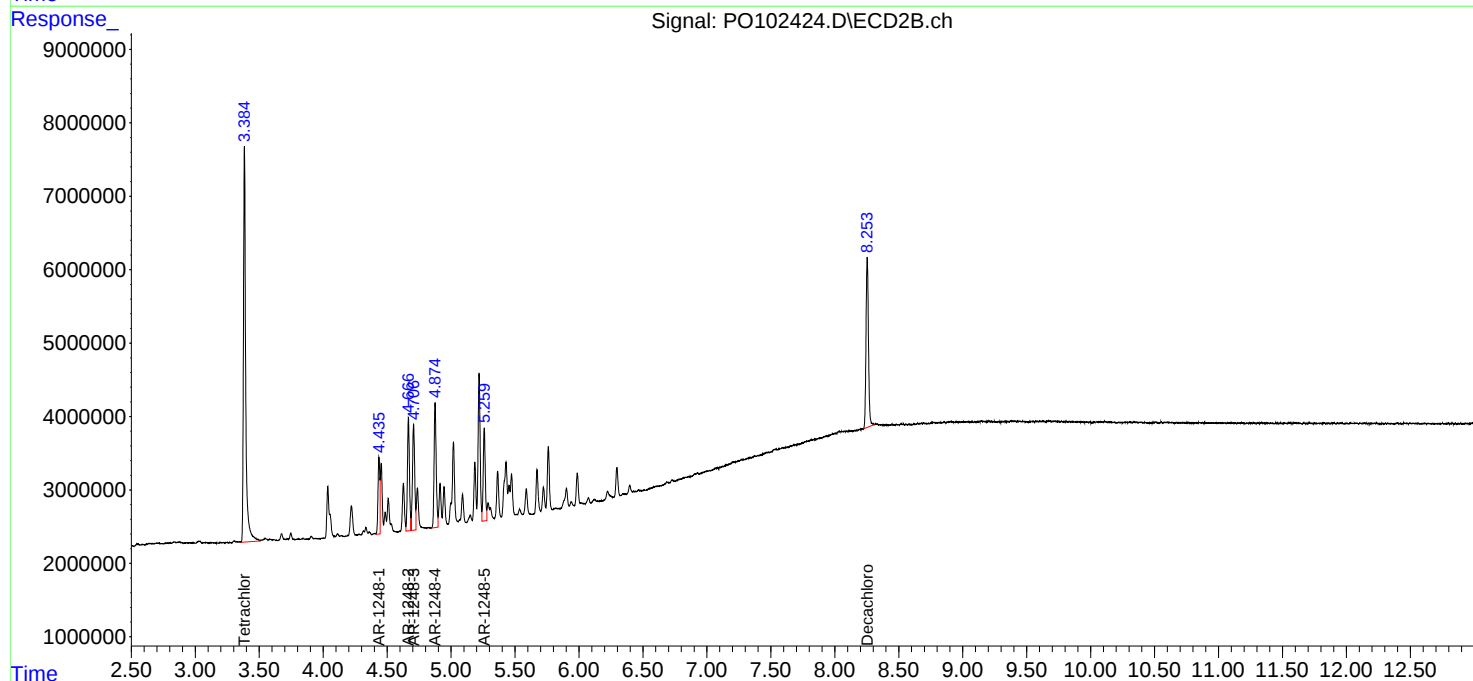
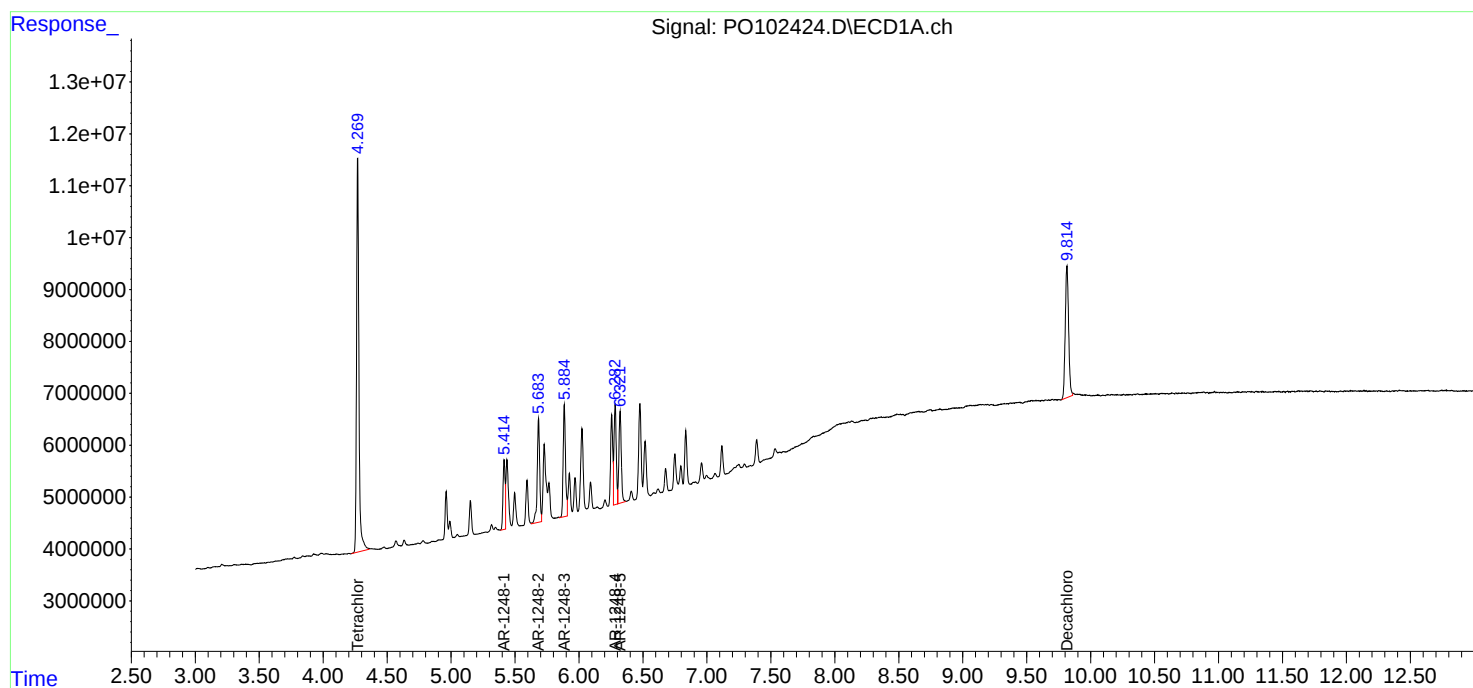
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102424.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:24
Operator : YP/AJ
Sample : AR1248ICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1248ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:13:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:13:26 2024
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_O\Data\P0031224\
 Data File : P0102425.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 19:42
 Operator : YP/AJ
 Sample : AR1248ICC050
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1248ICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/13/2024
 Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:15:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:15:20 2024
 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...	4.270	3.383	17916378	12151917	4.778	4.751
2) SA Decachlor...	9.815	8.252	8430872	5386292	4.813	4.645
Target Compounds						
21) L5 AR-1248-1	5.415	4.436	3012239	1943609	51.736	51.460
22) L5 AR-1248-2	5.683	4.667	4940375	3338388	49.638m	52.519
23) L5 AR-1248-3	5.885	4.707	5198701	3459554	49.910	52.287
24) L5 AR-1248-4	6.283	4.875	4270325	3771750	47.828	51.408
25) L5 AR-1248-5	6.321	5.260	4432818	2704298	51.426	50.198

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_0\Data\PO031224\
Data File : PO102425.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:42
Operator : YP/AJ
Sample : AR1248ICC050
Misc :
ALS Vial : 19 Sample Multiplier: 1

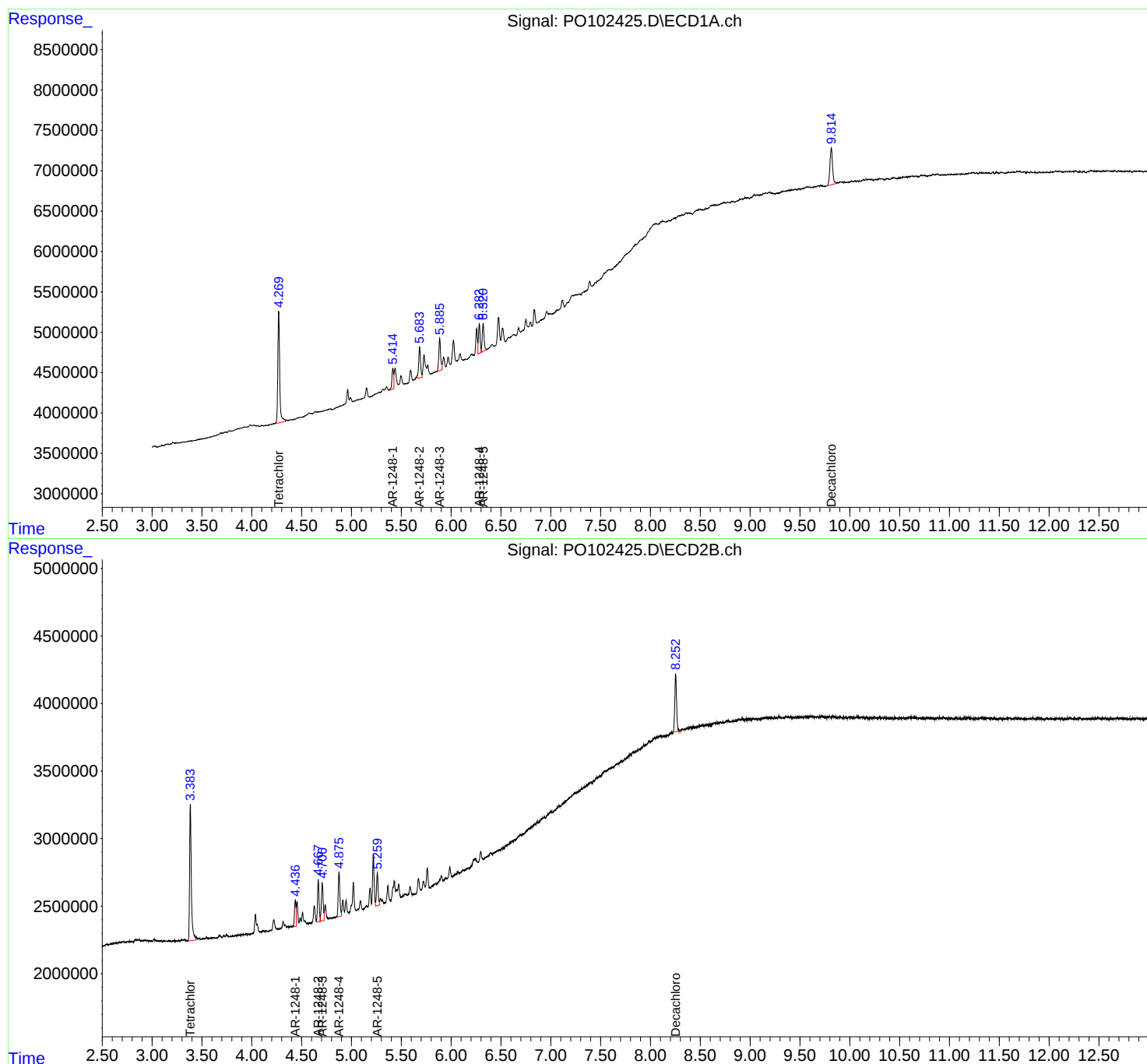
Instrument :
ECD_0
ClientSampleId :
AR1248ICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:15:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_0\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:15:20 2024
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_O\Data\P0031224\
 Data File : P0102426.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 19:59
 Operator : YP/AJ
 Sample : AR1254ICC1000
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1254ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:00:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.384	377.5E6	257.4E6	97.688	97.276
2) SA Decachlor...	9.813	8.253	176.4E6	118.1E6	96.745	97.297
Target Compounds						
26) L6 AR-1254-1	6.257	5.219	111.4E6	98789035	958.697	954.401
27) L6 AR-1254-2	6.473	5.364	155.9E6	84818474	957.693	953.301
28) L6 AR-1254-3	6.835	5.760	147.7E6	125.0E6	968.275	963.485
29) L6 AR-1254-4	7.118	5.986	83825982	61003456	967.028	966.997
30) L6 AR-1254-5	7.532	6.397	99278733	99780359	967.476	970.400

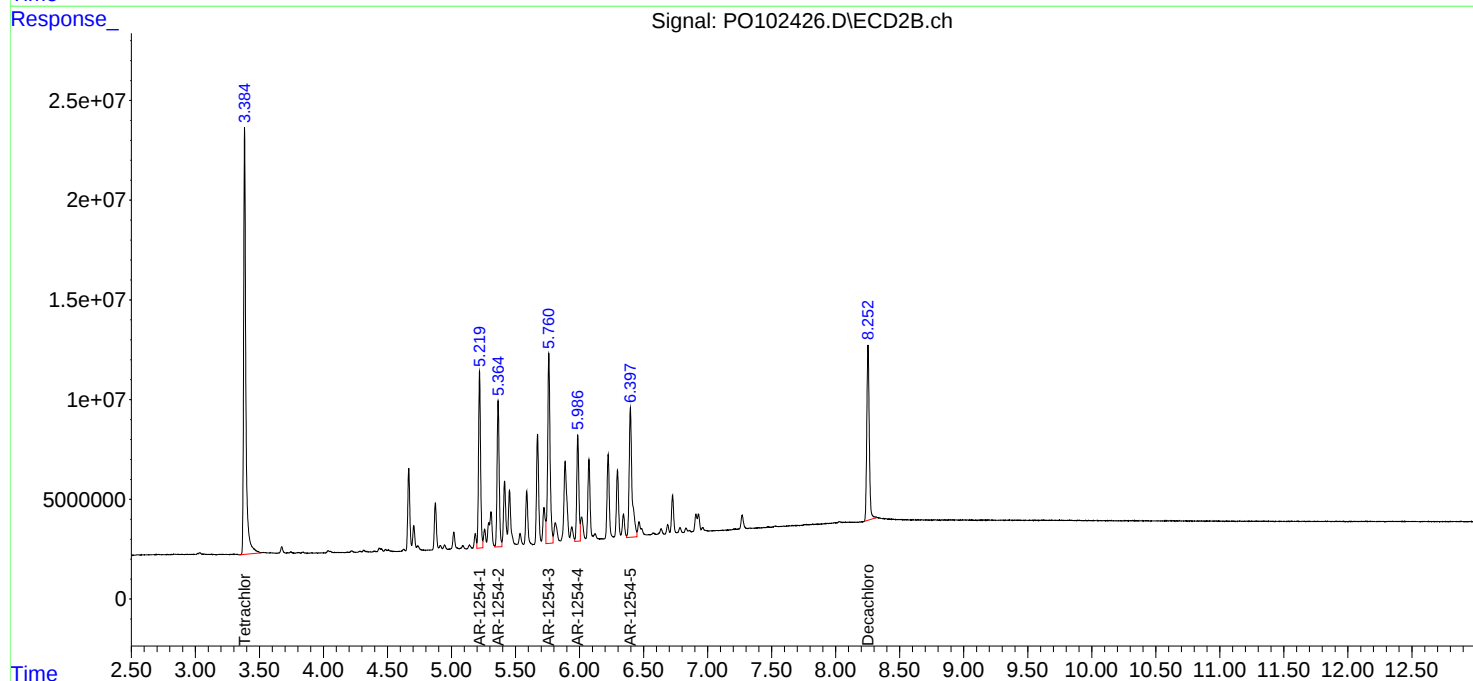
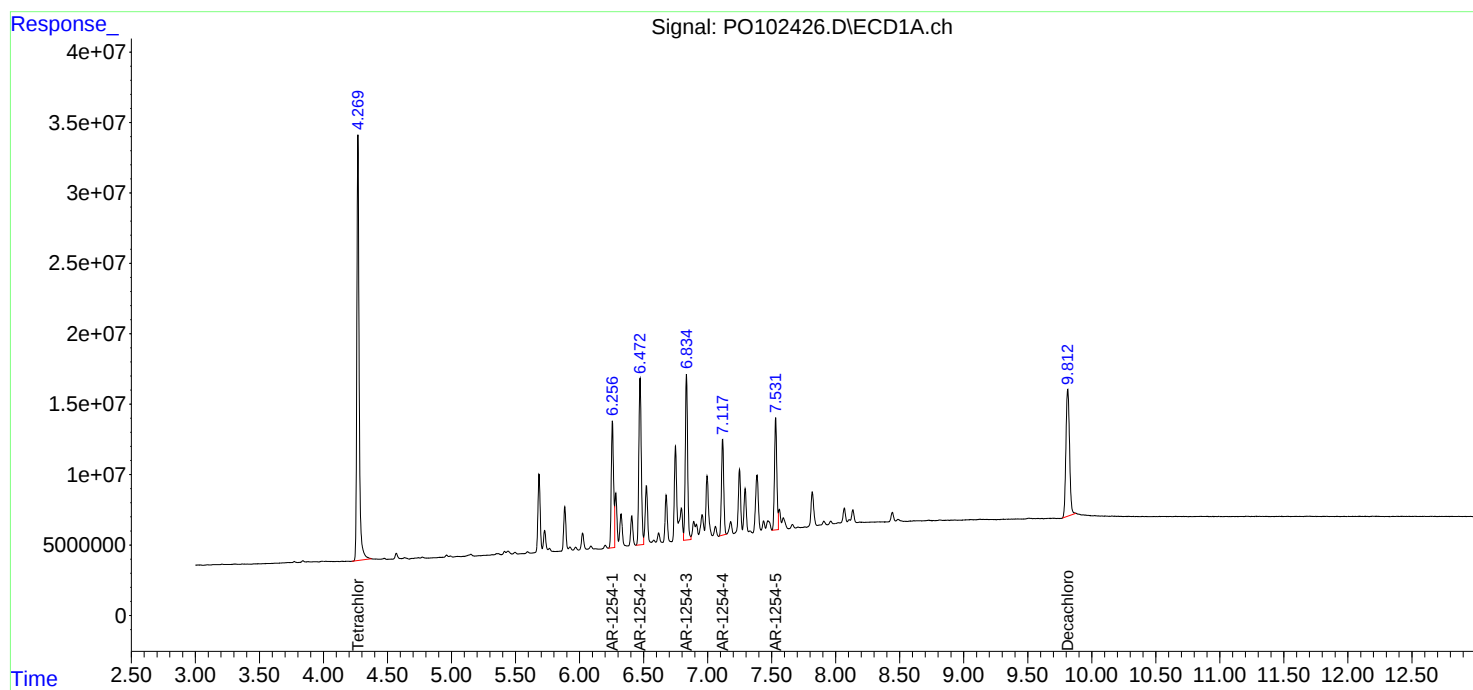
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102426.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:59
Operator : YP/AJ
Sample : AR1254ICC1000
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1254ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:00:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102427.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 20:16
 Operator : YP/AJ
 Sample : AR1254ICC750
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1254ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:06:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.384	296.5E6	199.3E6	76.137	75.213
2) SA Decachlor...	9.813	8.252	136.2E6	91007823	74.818	74.985
Target Compounds						
26) L6 AR-1254-1	6.256	5.219	87401151	77592969	751.594	749.750
27) L6 AR-1254-2	6.472	5.364	122.5E6	66402911	751.605	747.544
28) L6 AR-1254-3	6.834	5.760	114.1E6	96671568	748.685	746.648
29) L6 AR-1254-4	7.117	5.986	65045174	47556660	750.247	752.559
30) L6 AR-1254-5	7.531	6.397	76990882	77066613	750.187	749.667

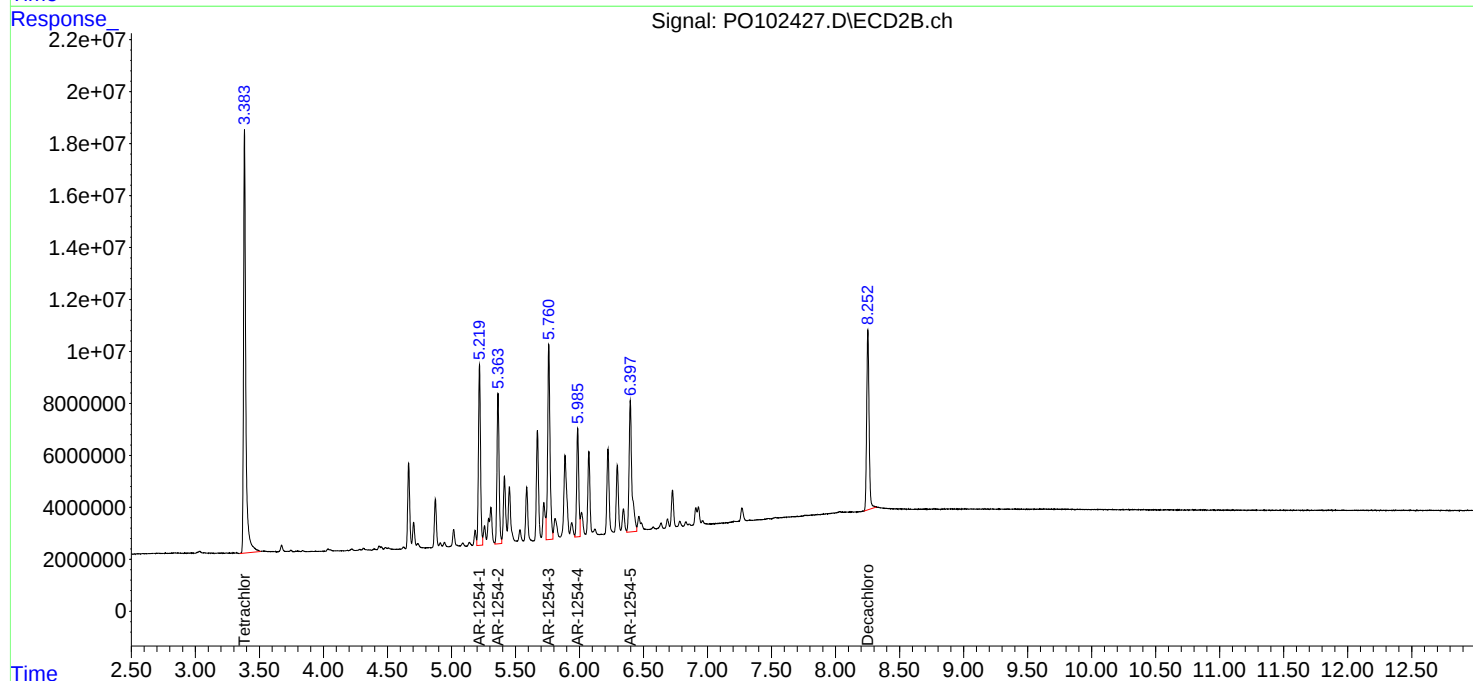
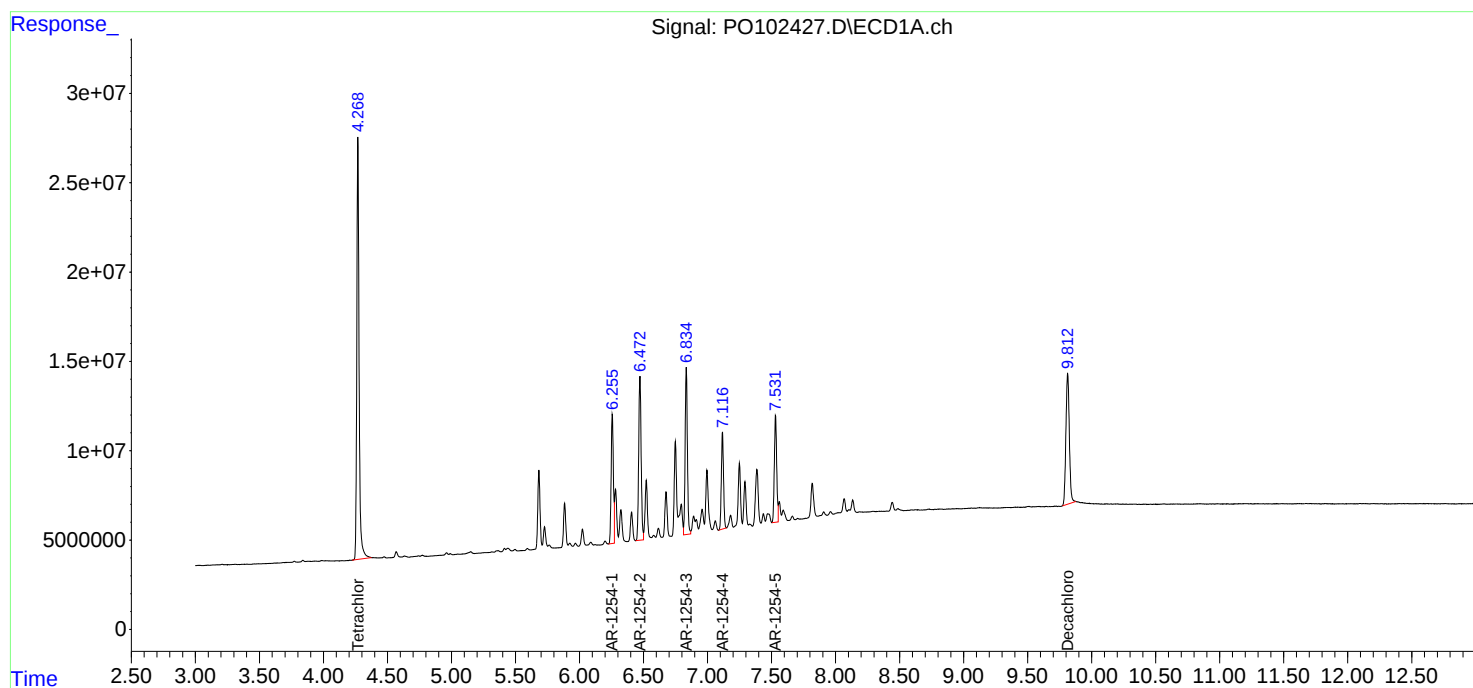
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102427.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:16
Operator : YP/AJ
Sample : AR1254ICC750
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1254ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:06:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102428.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 20:33
 Operator : YP/AJ
 Sample : AR1254ICC500
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1254ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:23:24 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.384	197.7E6	135.9E6	50.000	50.000
2) SA Decachlor...	9.812	8.252	94125417	62330378	50.000	50.000
Target Compounds						
26) L6 AR-1254-1	6.256	5.219	60481065	54114471	500.000	500.000
27) L6 AR-1254-2	6.471	5.364	84843620	46564221	500.000	500.000
28) L6 AR-1254-3	6.834	5.760	78712919	67250850	500.000	500.000
29) L6 AR-1254-4	7.116	5.986	44771153	32583718	500.000	500.000
30) L6 AR-1254-5	7.531	6.396	52976807	52933808	500.000	500.000

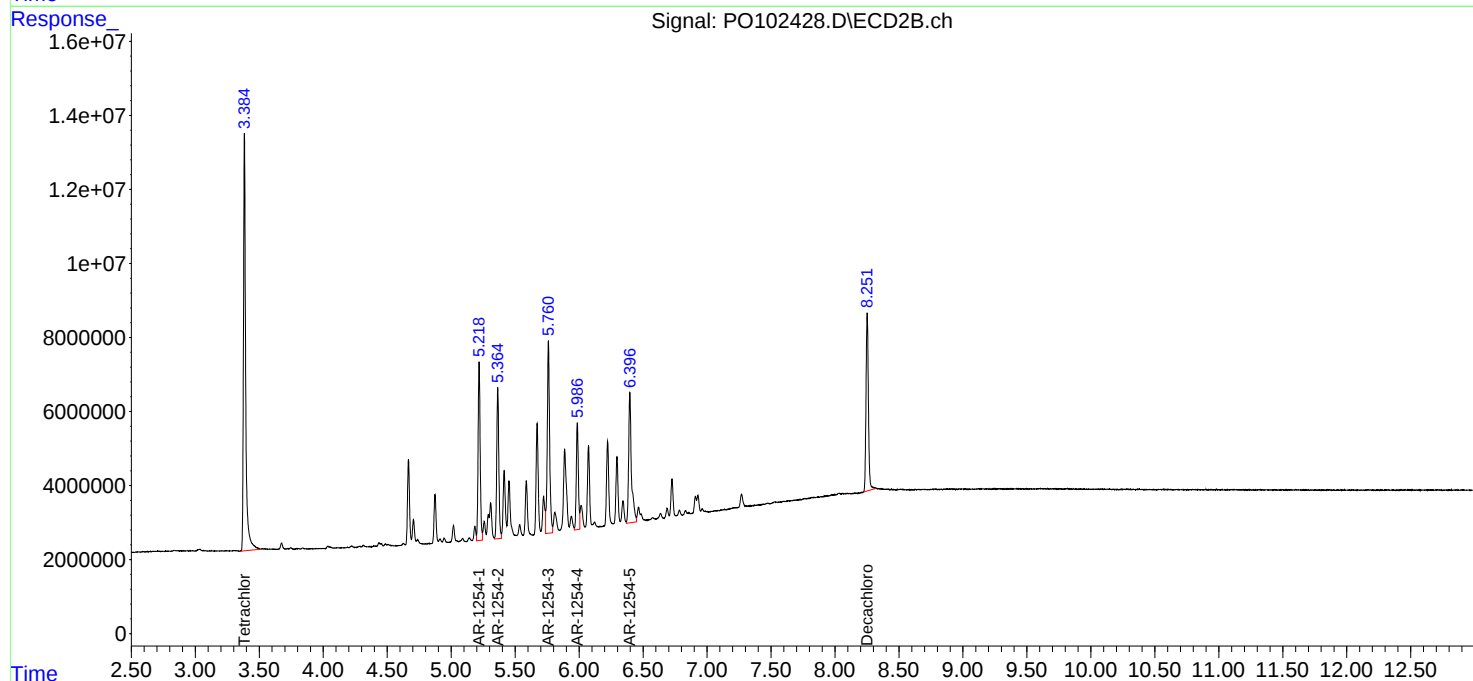
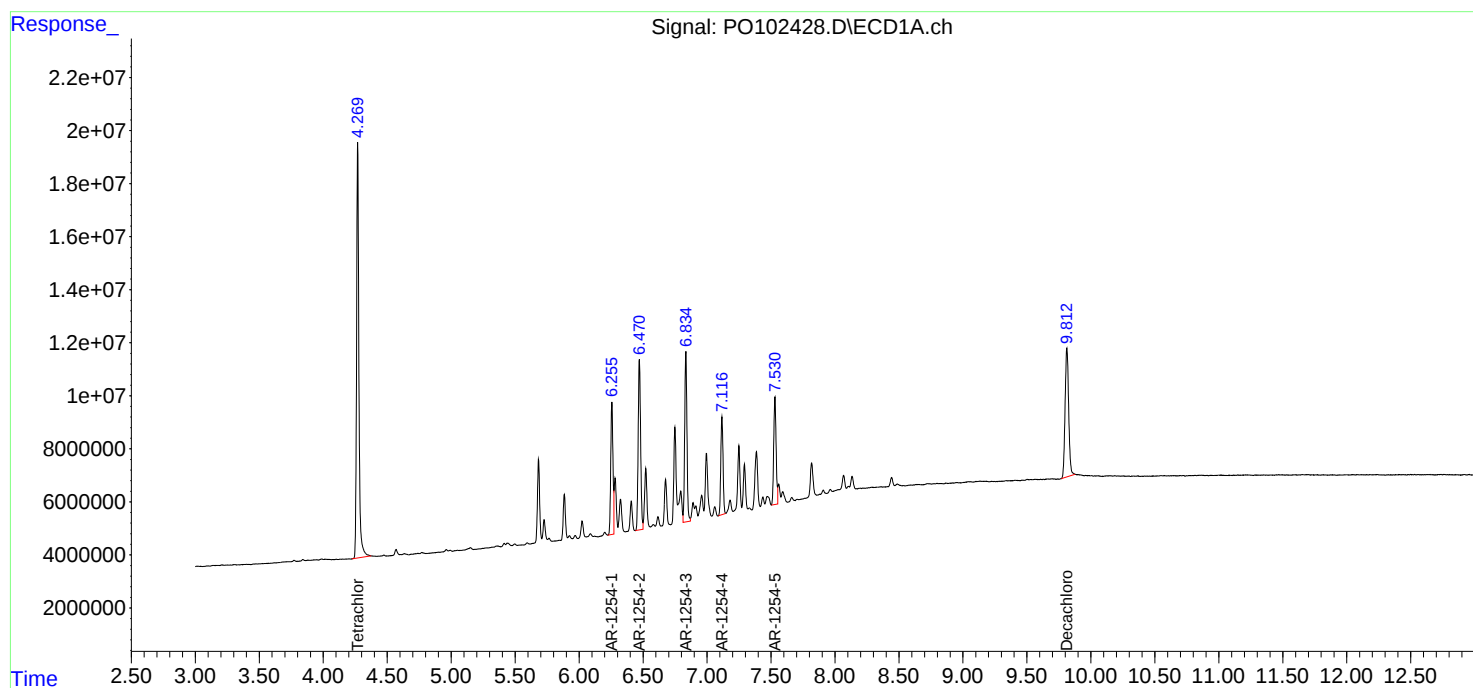
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102428.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:33
Operator : YP/AJ
Sample : AR1254ICC500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1254ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:23:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102429.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 20:50
 Operator : YP/AJ
 Sample : AR1254ICC250
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1254ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:08:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.383	100.3E6	69274037	25.570	25.844
2) SA Decachlor...	9.812	8.252	47955482	31614340	25.988	25.778
Target Compounds						
26) L6 AR-1254-1	6.256	5.218	31491722	28405806	265.288	267.917
27) L6 AR-1254-2	6.472	5.364	44482528	24447657	266.821	268.453
28) L6 AR-1254-3	6.834	5.760	40404642	34544380	261.108	262.396
29) L6 AR-1254-4	7.116	5.986	22714111	16650492	258.886	259.979
30) L6 AR-1254-5	7.531	6.396	27425750	27302131	262.705	261.507

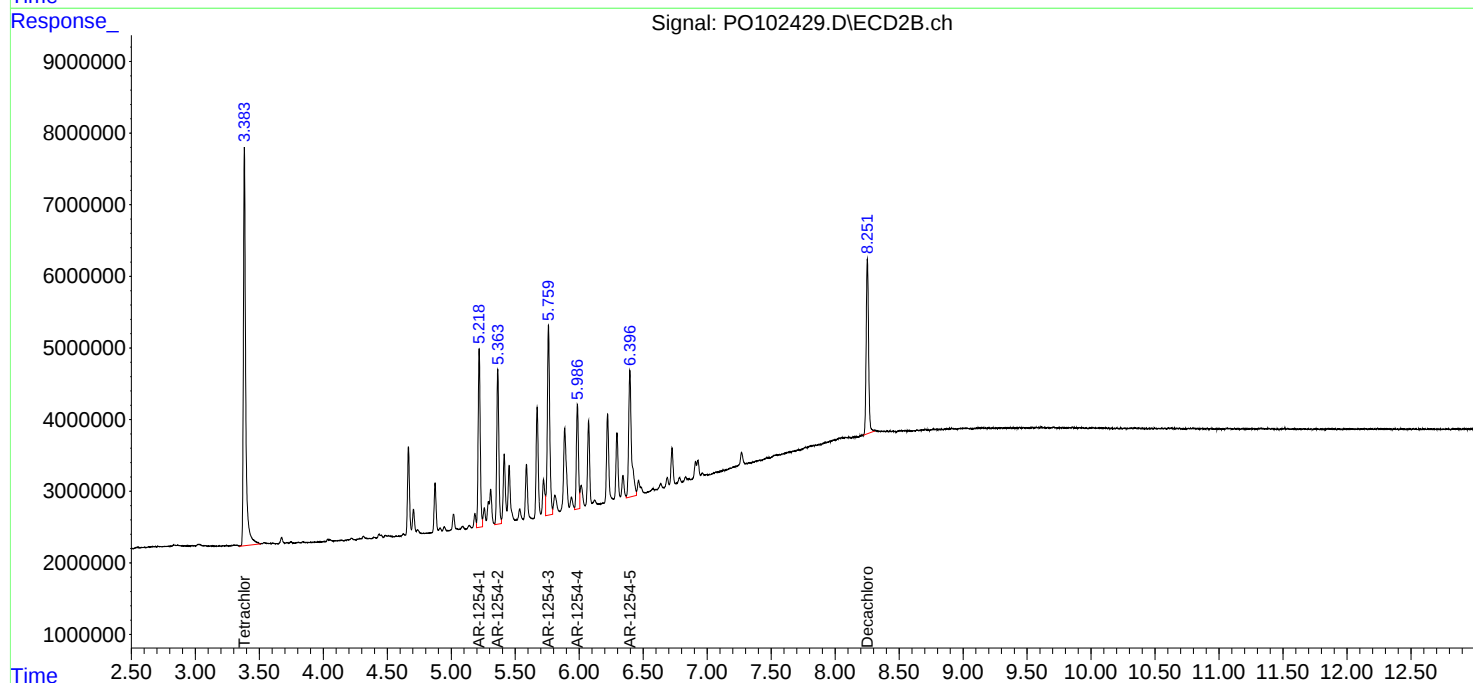
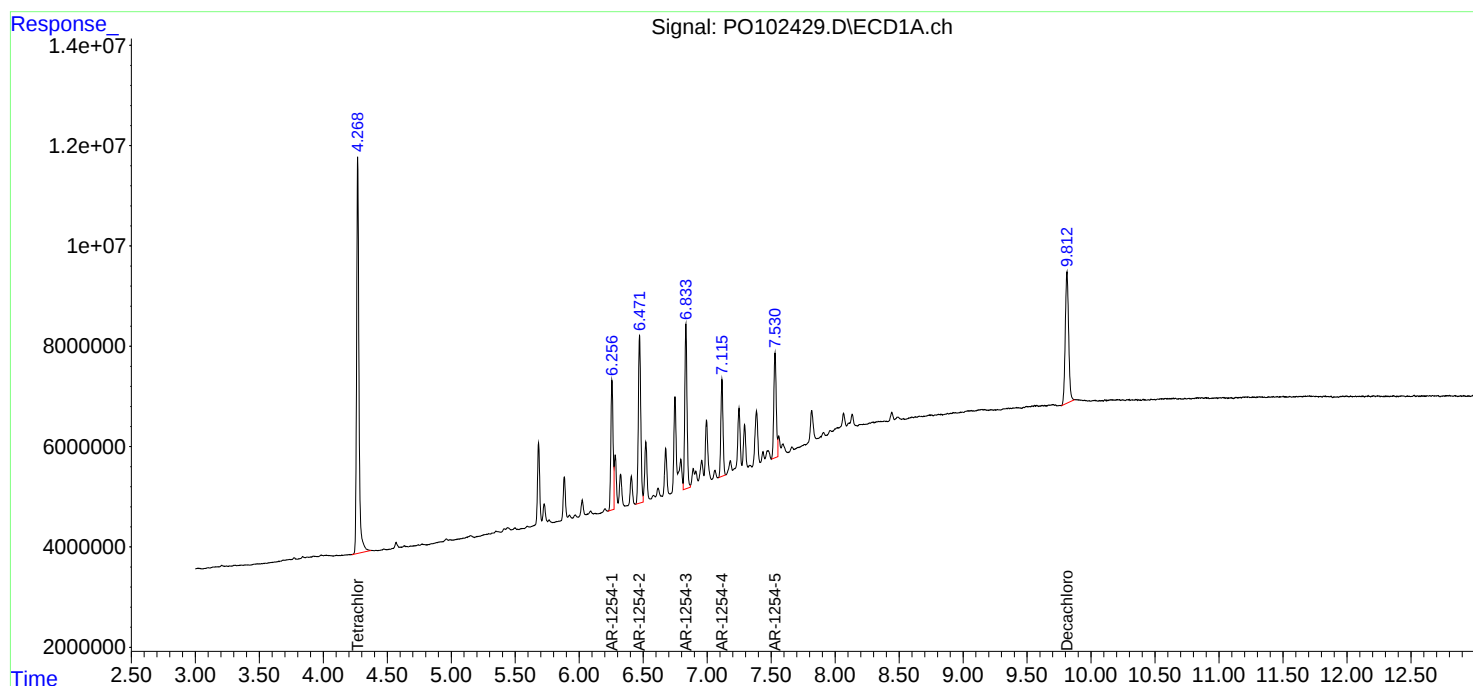
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:50
Operator : YP/AJ
Sample : AR1254ICC250
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1254ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:08:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102430.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 21:07
 Operator : YP/AJ
 Sample : AR1254ICC050
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1254ICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:11:05 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.383	17700585	12672939	4.601	4.780
2) SA Decachlor...	9.814	8.252	8611281	5770395	4.730	4.761
Target Compounds						
26) L6 AR-1254-1	6.257	5.218	5783014	5358668	48.968	50.432
27) L6 AR-1254-2	6.472	5.363	8255913	4555545	49.617	50.019
28) L6 AR-1254-3	6.834	5.759	7383026	6166616	48.152	47.440
29) L6 AR-1254-4	7.116	5.986	3925443	2912948	45.702	46.320
30) L6 AR-1254-5	7.531	6.396	5196246	4978220	49.819	48.129

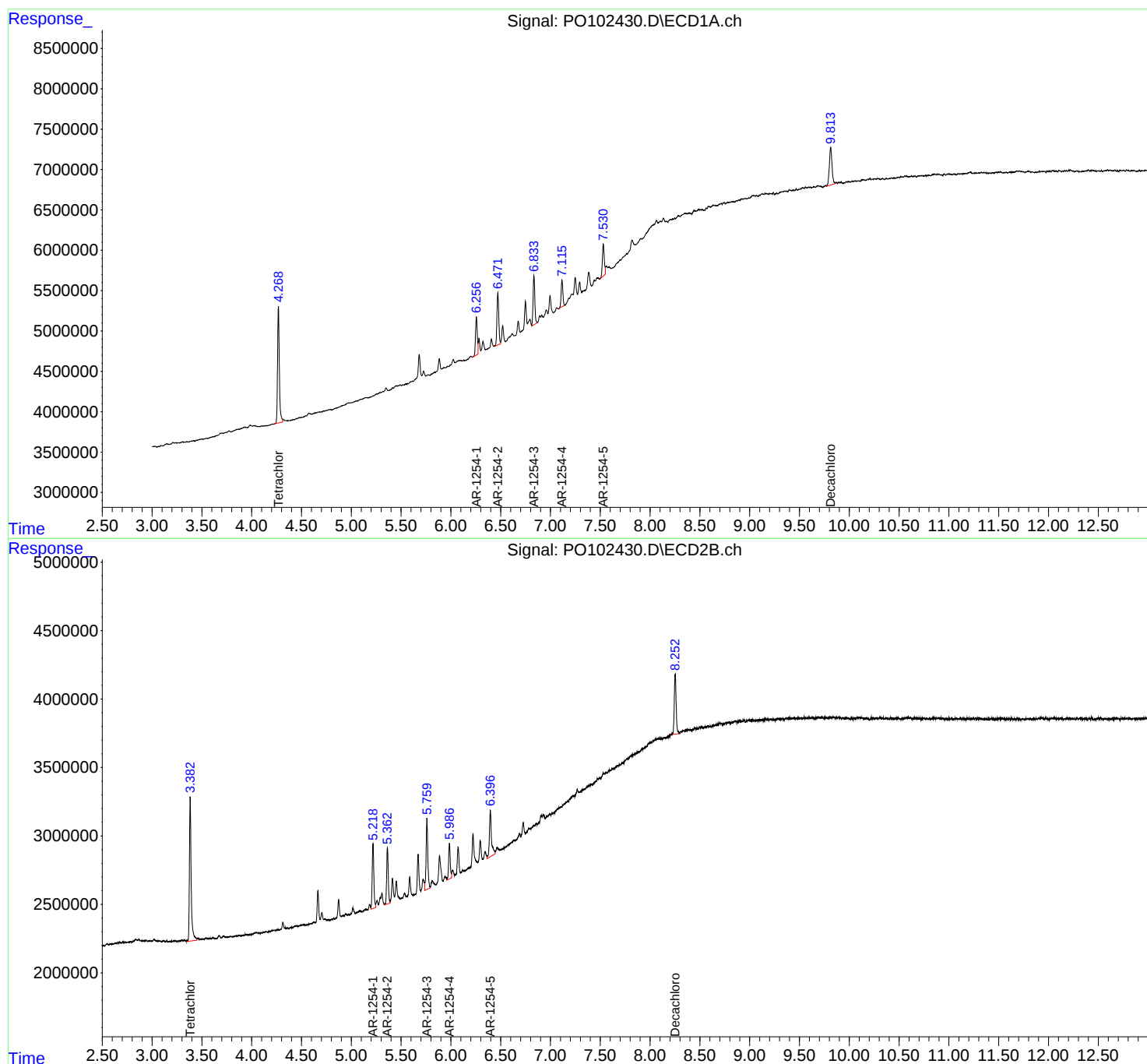
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:07
Operator : YP/AJ
Sample : AR1254ICC050
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1254ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:11:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102431.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 21:25
 Operator : YP/AJ
 Sample : AR1262ICC500
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1262ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:19:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:16:52 2024
 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...	4.269	3.383	266.0E6	182.2E6	50.000	50.000
2) SA Decachlor...	9.812	8.252	127.6E6	85639047	50.000	50.000
Target Compounds						
36) L8 AR-1262-1	7.528	6.395	59497772	37815258	500.000	500.000
37) L8 AR-1262-2	8.133	6.687	139.8E6	72135263	500.000	500.000
38) L8 AR-1262-3	8.427	7.207	97813259	51230945	500.000	500.000
39) L8 AR-1262-4	8.511	7.270	76348202	87022519	500.000	500.000
40) L8 AR-1262-5	9.122	7.761	47592077	35030080	500.000	500.000

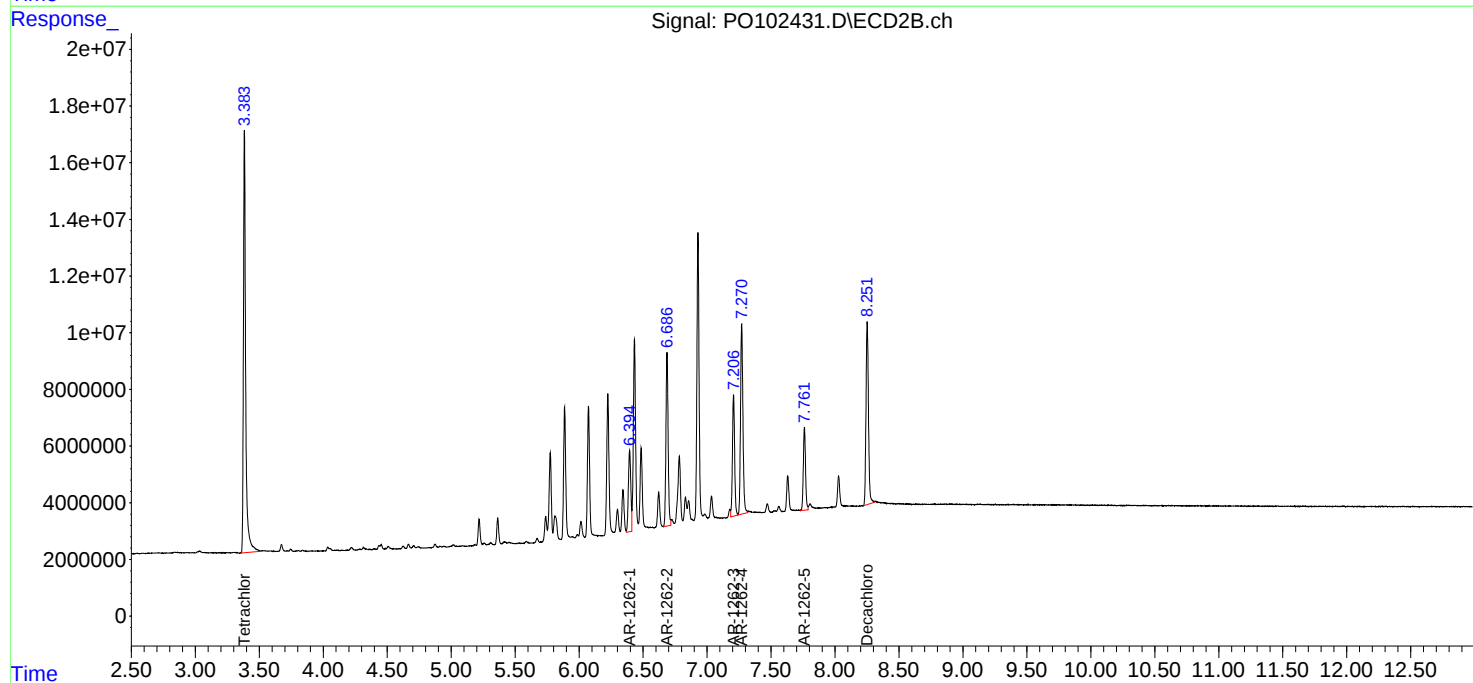
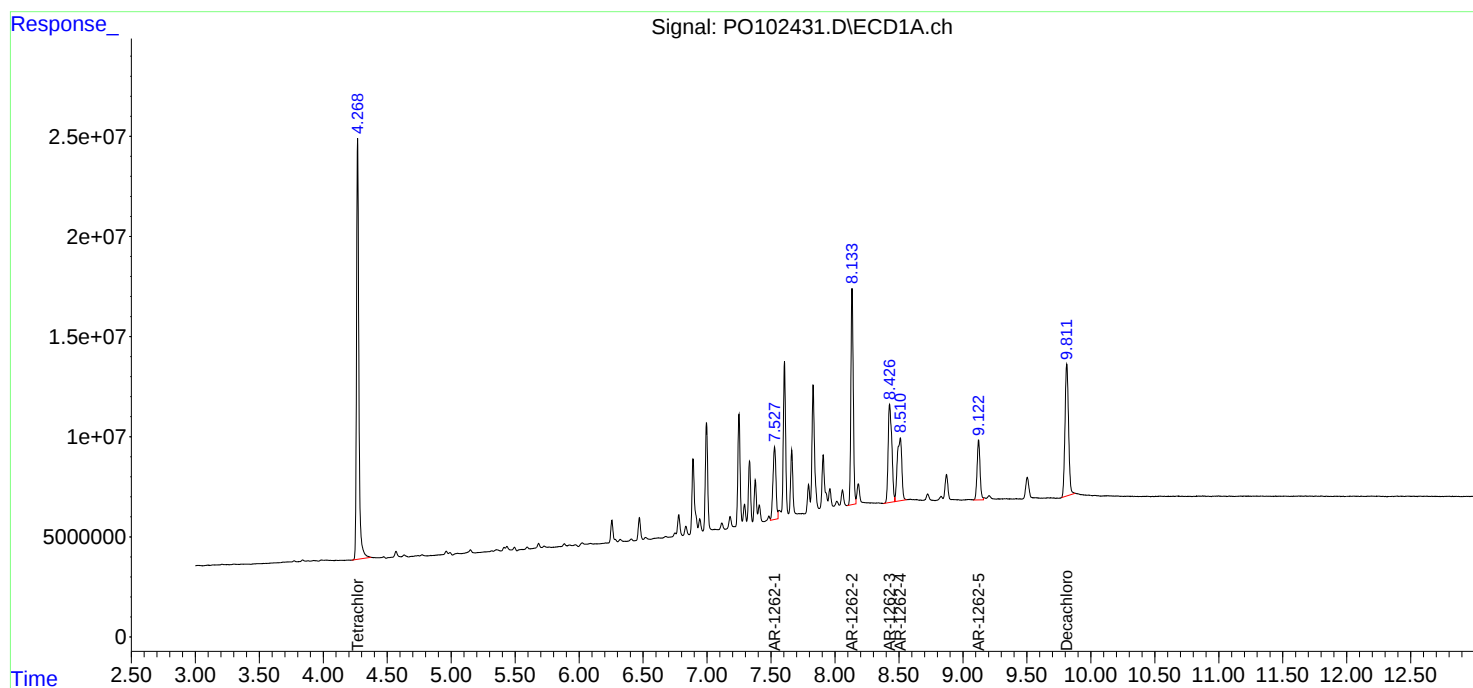
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102431.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:25
Operator : YP/AJ
Sample : AR1262ICC500
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1262ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:19:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:16:52 2024
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_O\Data\P0031224\
 Data File : P0102432.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 21:42
 Operator : YP/AJ
 Sample : AR1268ICC1000
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1268ICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:33:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:33:34 2024
 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...	4.269	3.383	390.9E6	267.4E6	97.585	97.666
2) SA Decachlor...	9.812	8.252	318.0E6	214.4E6	97.617	97.458
Target Compounds						
41) L9 AR-1268-1	8.424	7.207	259.1E6	209.1E6	971.876	976.446
42) L9 AR-1268-2	8.512	7.271	231.4E6	190.0E6	973.891	978.909
43) L9 AR-1268-3	8.724	7.472	214.9E6	178.1E6	972.249	979.451
44) L9 AR-1268-4	9.121	8.029	71387399	433.2E6	975.271	987.726
45) L9 AR-1268-5	9.503	8.252	616.0E6	214.4E6	981.943	974.583

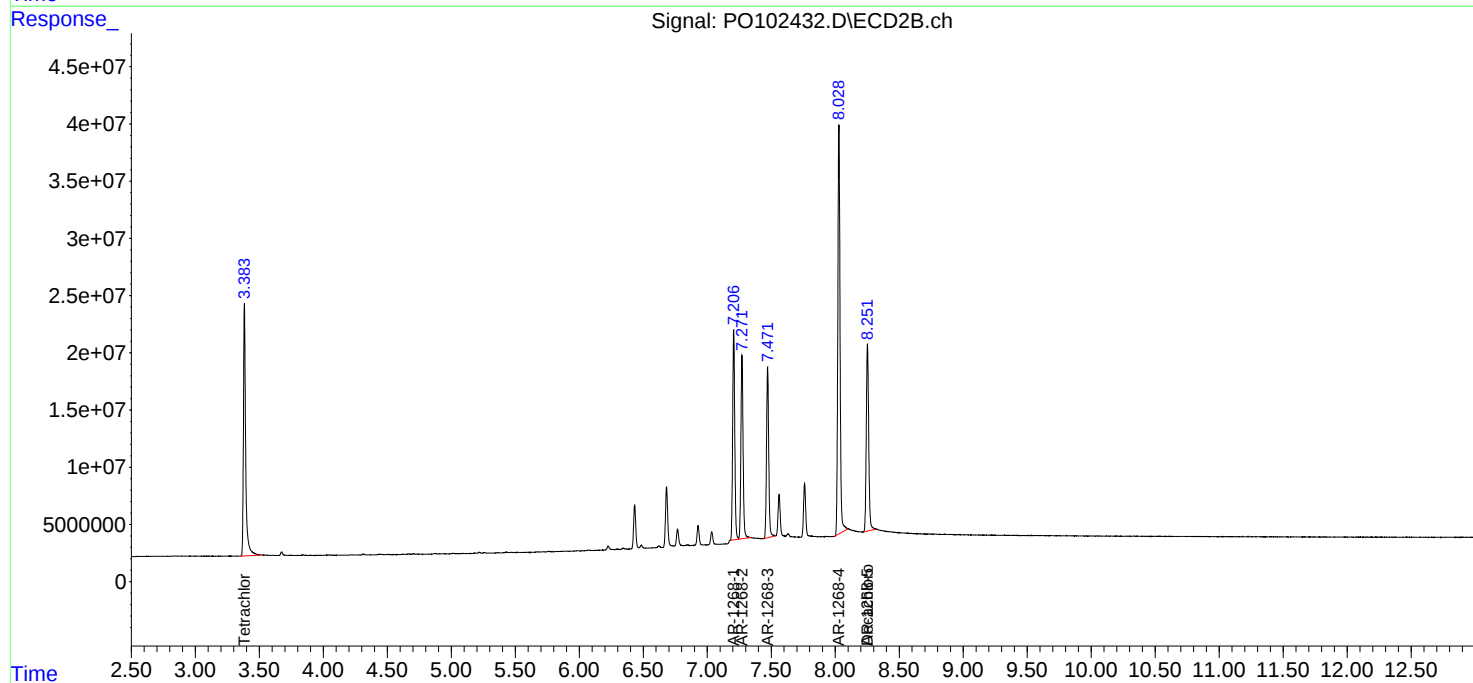
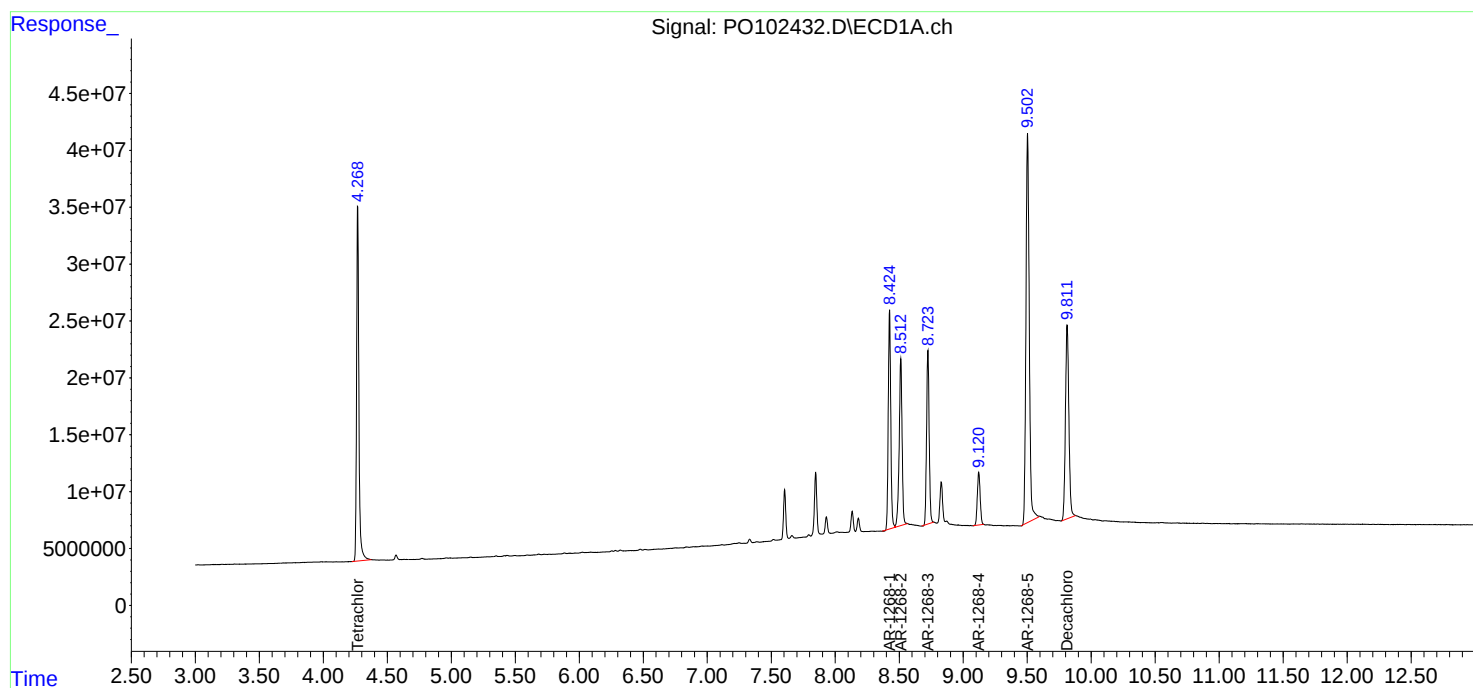
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:42
Operator : YP/AJ
Sample : AR1268ICC1000
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1268ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:33:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:33:34 2024
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_O\Data\P0031224\
 Data File : P0102433.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 21:59
 Operator : YP/AJ
 Sample : AR1268ICC750
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1268ICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:35:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:35:34 2024
 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...	4.269	3.383	297.5E6	203.1E6	74.518	74.459
2) SA Decachlor...	9.812	8.252	239.5E6	162.0E6	73.996	74.107
Target Compounds						
41) L9 AR-1268-1	8.426	7.207	198.0E6	158.9E6	745.181	744.503
42) L9 AR-1268-2	8.514	7.271	175.9E6	143.2E6	743.697	741.818
43) L9 AR-1268-3	8.726	7.471	163.2E6	133.7E6	742.275	740.301
44) L9 AR-1268-4	9.123	8.029	54153688	323.0E6	743.189	740.896
45) L9 AR-1268-5	9.505	8.252	462.7E6	162.0E6	741.756	741.075

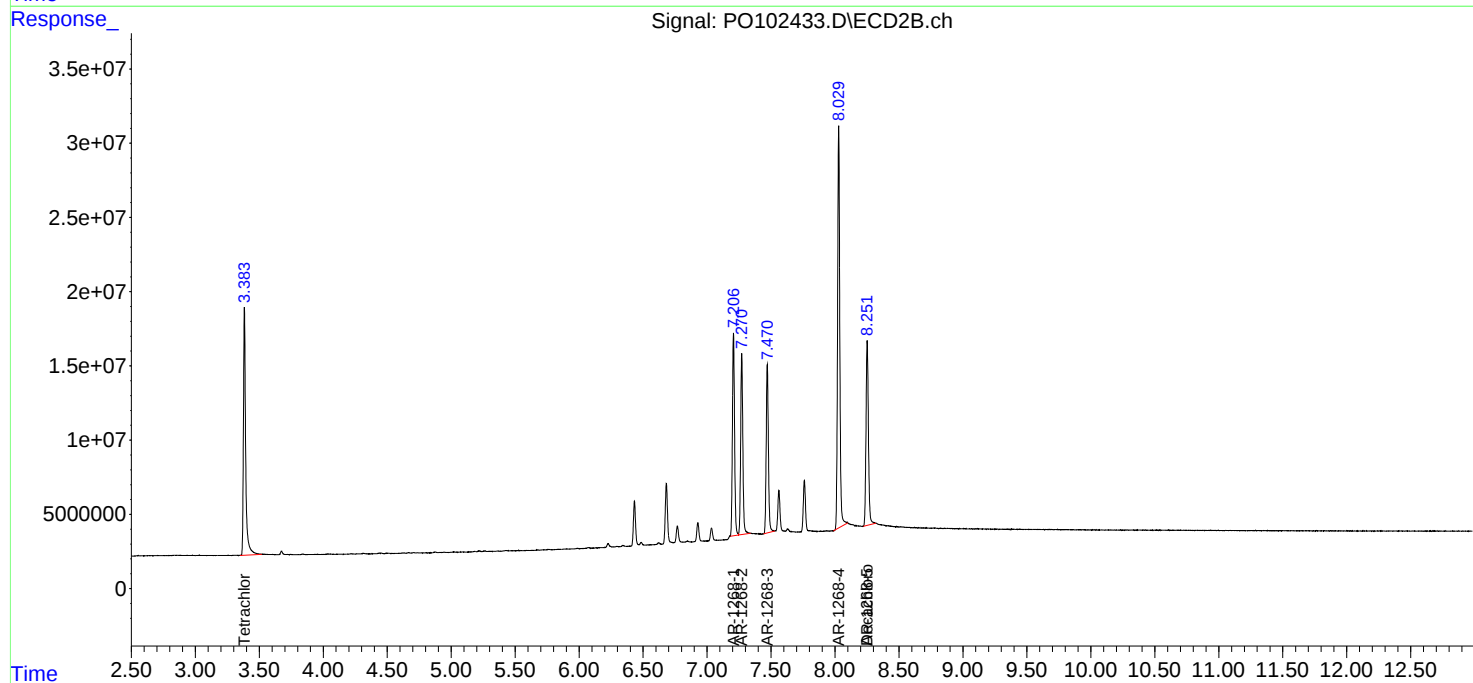
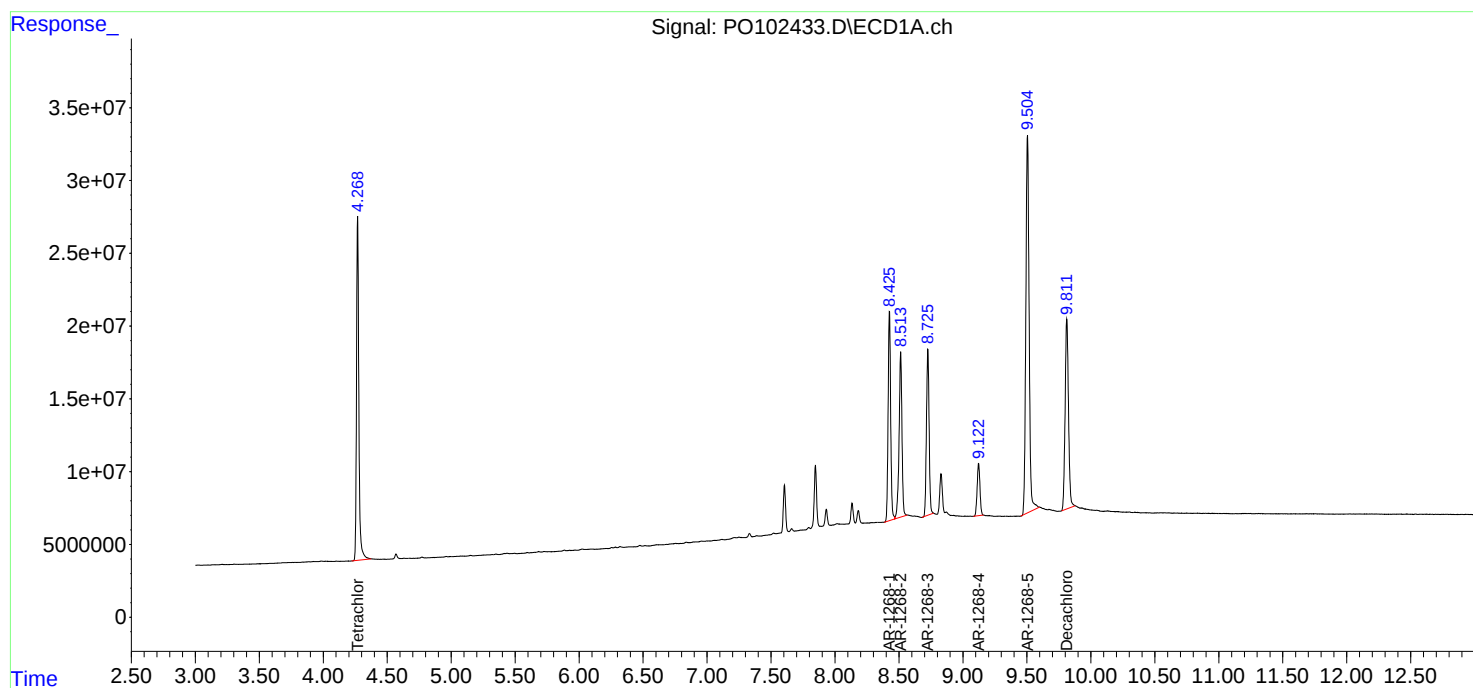
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:59
Operator : YP/AJ
Sample : AR1268ICC750
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1268ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:35:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:35:34 2024
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_O\Data\P0031224\
 Data File : P0102434.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 22:16
 Operator : YP/AJ
 Sample : AR1268ICC500
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1268ICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:30:01 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:27:31 2024
 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...	4.270	3.384	205.1E6	140.1E6	50.000	50.000
2) SA Decachlor...	9.814	8.252	166.8E6	112.8E6	50.000	50.000
Target Compounds						
41) L9 AR-1268-1	8.426	7.207	137.1E6	109.6E6	500.000	500.000
42) L9 AR-1268-2	8.512	7.271	121.9E6	99084459	500.000	500.000
43) L9 AR-1268-3	8.724	7.472	113.6E6	92782216	500.000	500.000
44) L9 AR-1268-4	9.123	8.029	37503805	222.0E6	500.000	500.000
45) L9 AR-1268-5	9.504	8.252	319.3E6	112.8E6	500.000	500.000

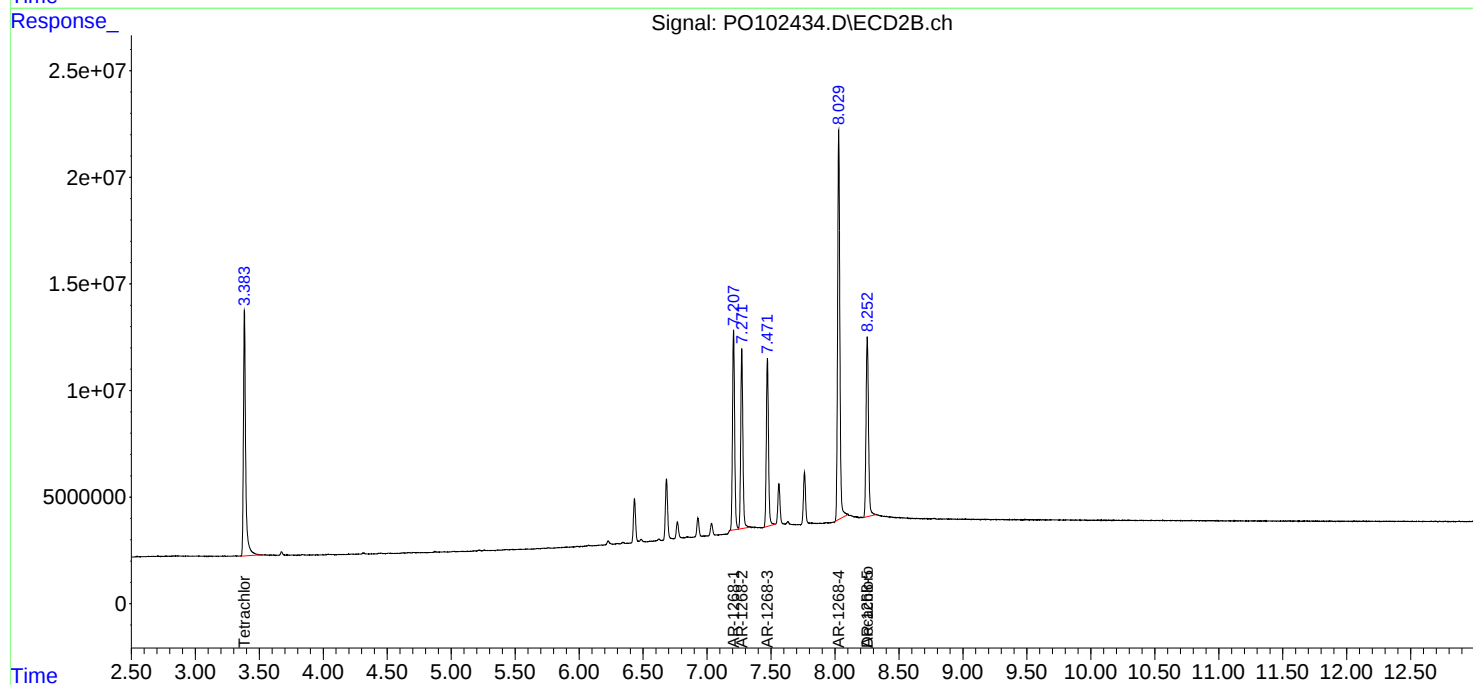
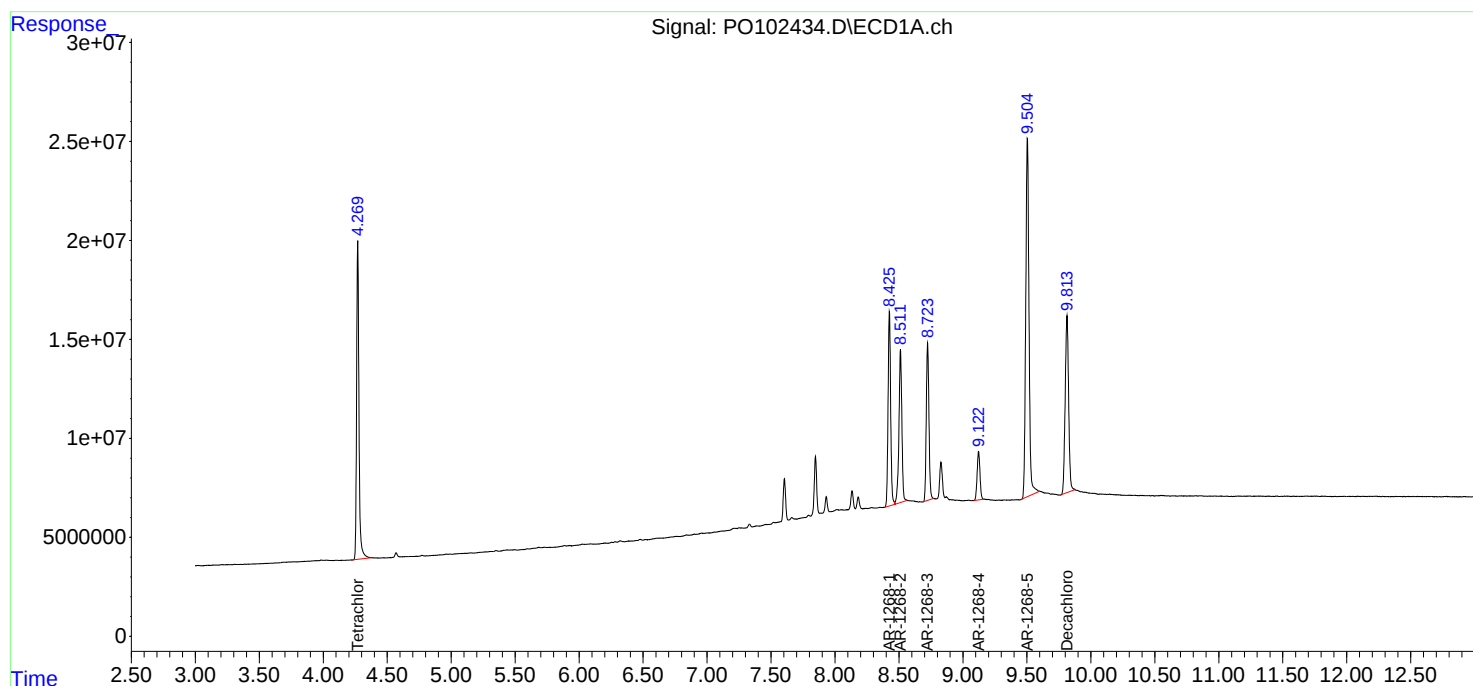
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:16
Operator : YP/AJ
Sample : AR1268ICC500
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1268ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:30:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
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_O\Data\P0031224\
 Data File : P0102435.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 22:33
 Operator : YP/AJ
 Sample : AR1268ICC250
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1268ICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:37:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:37:47 2024
 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...	4.268	3.383	104.5E6	71579043	25.870	25.915
2) SA Decachlor...	9.812	8.251	84694156	56851961	25.867	25.742
Target Compounds						
41) L9 AR-1268-1	8.425	7.206	69003553	55619850	257.166	257.899
42) L9 AR-1268-2	8.514	7.271	62263087	49876630	259.771	256.246
43) L9 AR-1268-3	8.724	7.471	57199430	46538904	257.531	255.661
44) L9 AR-1268-4	9.122	8.027	18976717	110.5E6	257.742	252.682
45) L9 AR-1268-5	9.503	8.251	159.1E6	56851961	253.702	257.421

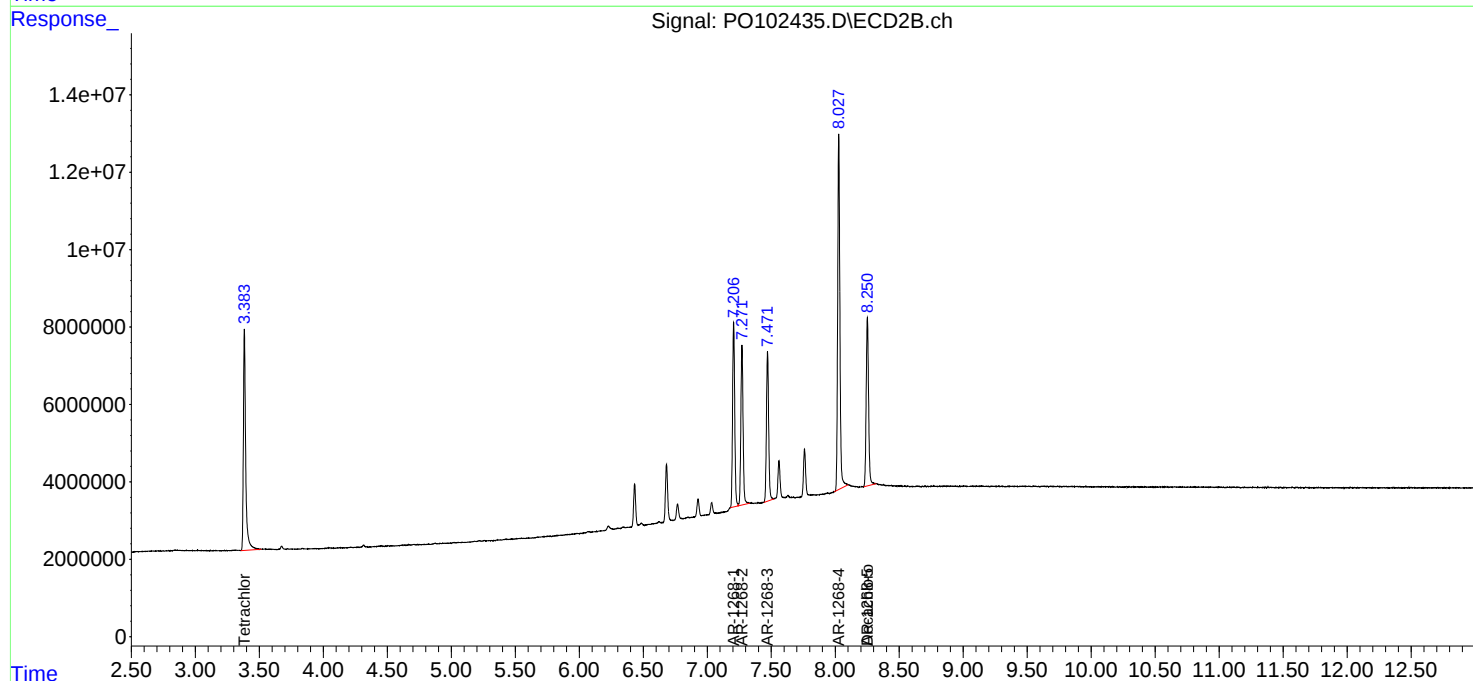
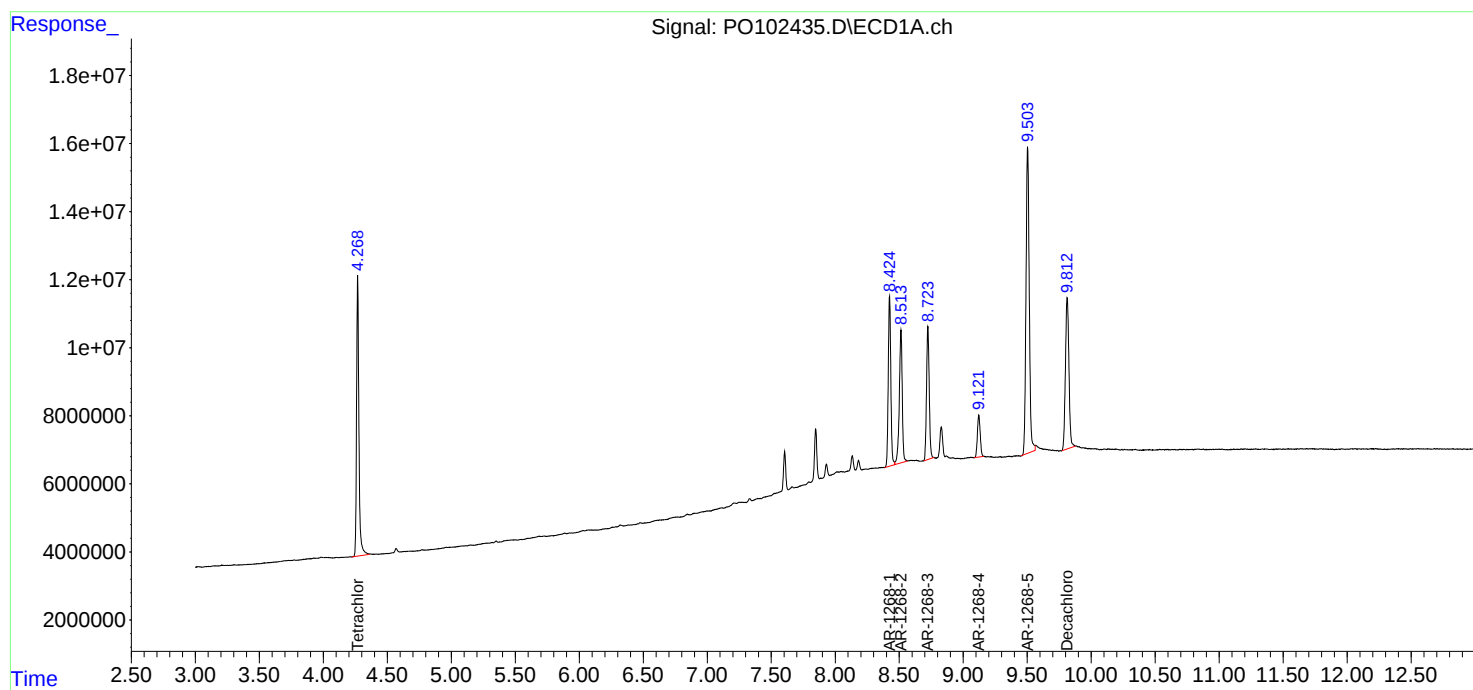
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102435.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:33
Operator : YP/AJ
Sample : AR1268ICC250
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1268ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:37:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:37:47 2024
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_O\Data\P0031224\
 Data File : P0102436.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 22:50
 Operator : YP/AJ
 Sample : AR1268ICC050
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1268ICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:40:09 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:40:02 2024
 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...	4.268	3.383	18412166	12876653	4.640	4.726
2) SA Decachlor...	9.811	8.252	15657423	9956776	4.824	4.599
Target Compounds						
41) L9 AR-1268-1	8.425	7.206	12250906	10350580	46.464	48.382
42) L9 AR-1268-2	8.513	7.271	11180863	9146484	47.282	47.563
43) L9 AR-1268-3	8.724	7.471	10279253	8404240	46.980	46.887
44) L9 AR-1268-4	9.122	8.028	3456028	19561848	47.522	45.682
45) L9 AR-1268-5	9.502	8.252	28116240	9956776	45.790	45.988

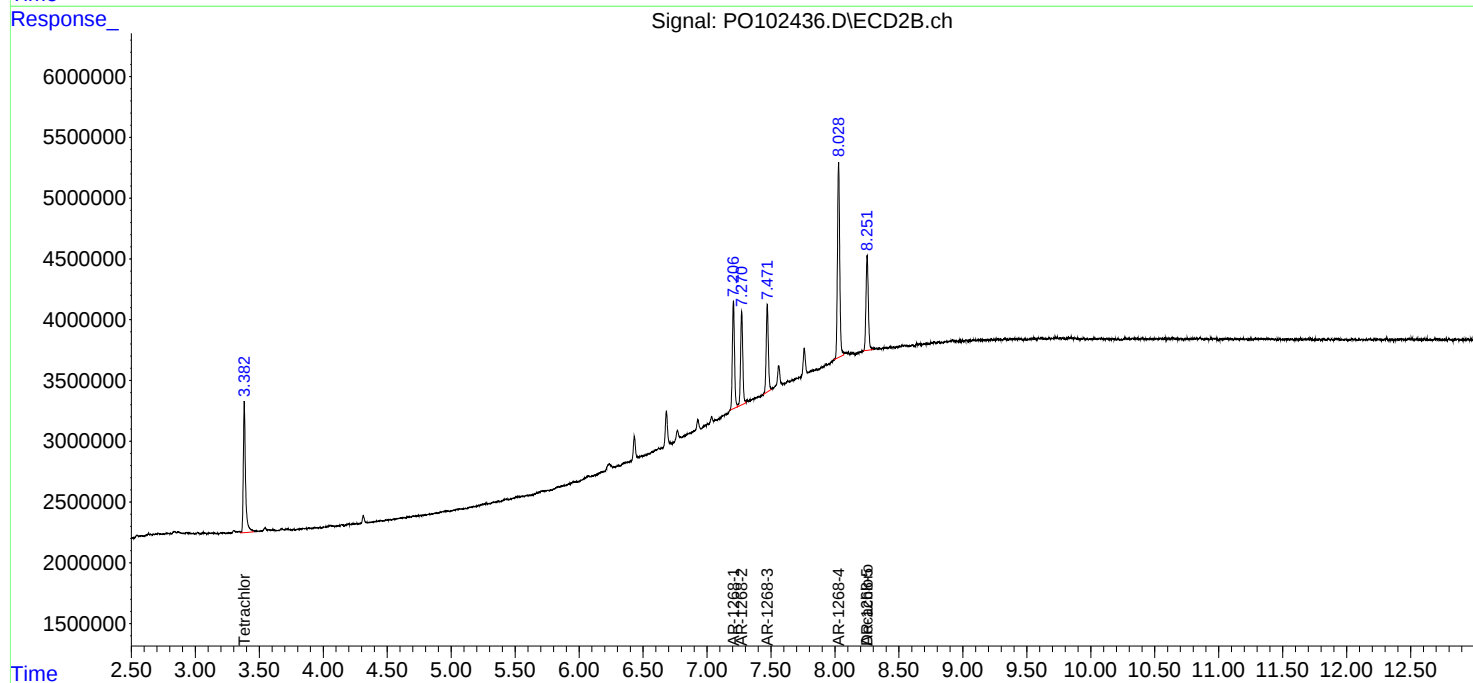
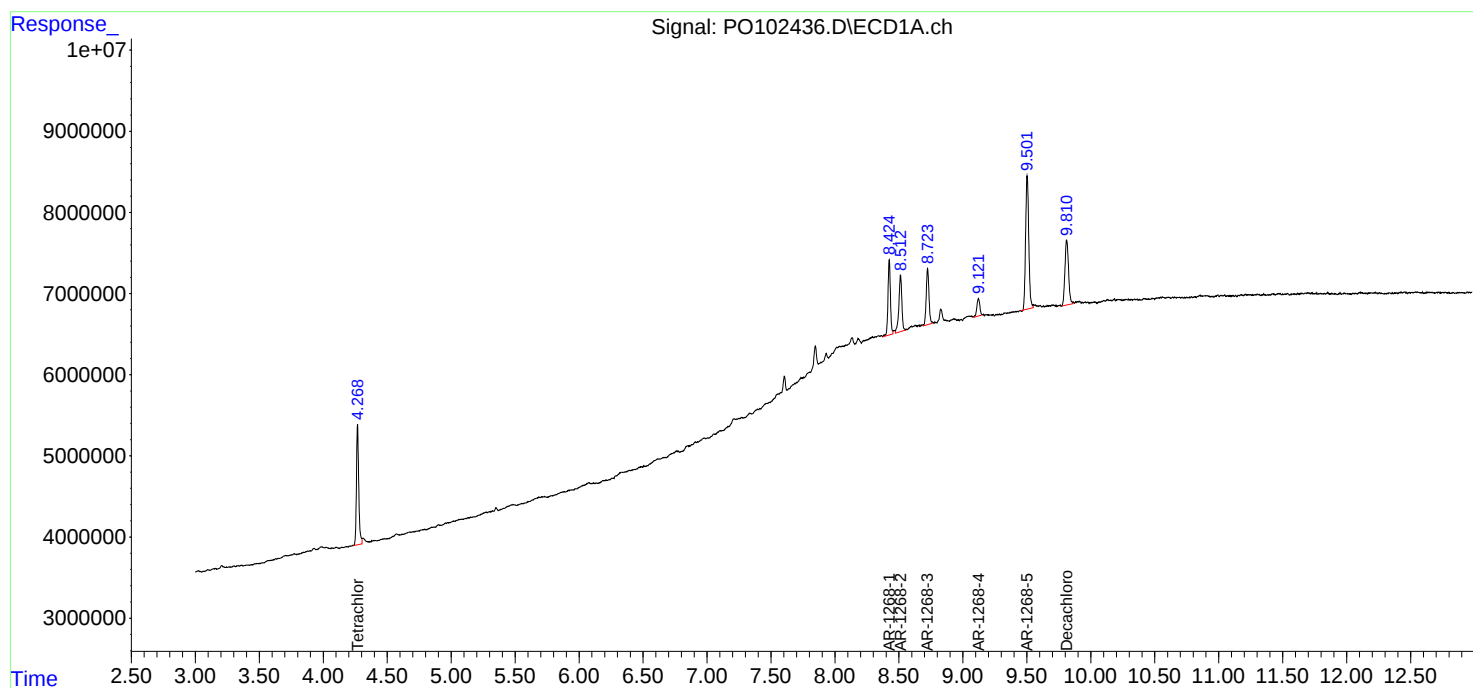
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:50
Operator : YP/AJ
Sample : AR1268ICC050
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1268ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:40:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:40:02 2024
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_O\Data\P0031224\
 Data File : P0102437.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 23:07
 Operator : YP/AJ
 Sample : P0031224ICV500
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 ICVPO031224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:27:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:26:32 2024
 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...	4.269	3.383	218.9E6	151.0E6	53.394	53.907
2) SA Decachlor...	9.811	8.251	104.1E6	70092222	54.841	56.855
Target Compounds						
3) L1 AR-1016-1	5.413	4.435	54284343	34982913	543.352	558.284
4) L1 AR-1016-2	5.435	4.452	78227520	47736073	539.368	550.296
5) L1 AR-1016-3	5.496	4.625	50131940	27943364	536.488	556.025
6) L1 AR-1016-4	5.593	4.665	41567120	26059107	549.484	553.790
7) L1 AR-1016-5	5.884	4.874	44771980	31835846	547.174	553.727
31) L7 AR-1260-1	6.994	5.886	74635020	58279693	544.935	555.338
32) L7 AR-1260-2	7.249	6.073	73203242	61516417	555.613	562.661
33) L7 AR-1260-3	7.604	6.223	57184378	60591880	560.883	537.284
34) L7 AR-1260-4	7.828	6.687	63212722	46912954	546.567	549.896
35) L7 AR-1260-5	8.133	6.929	104.5E6	90674269	537.453	559.921

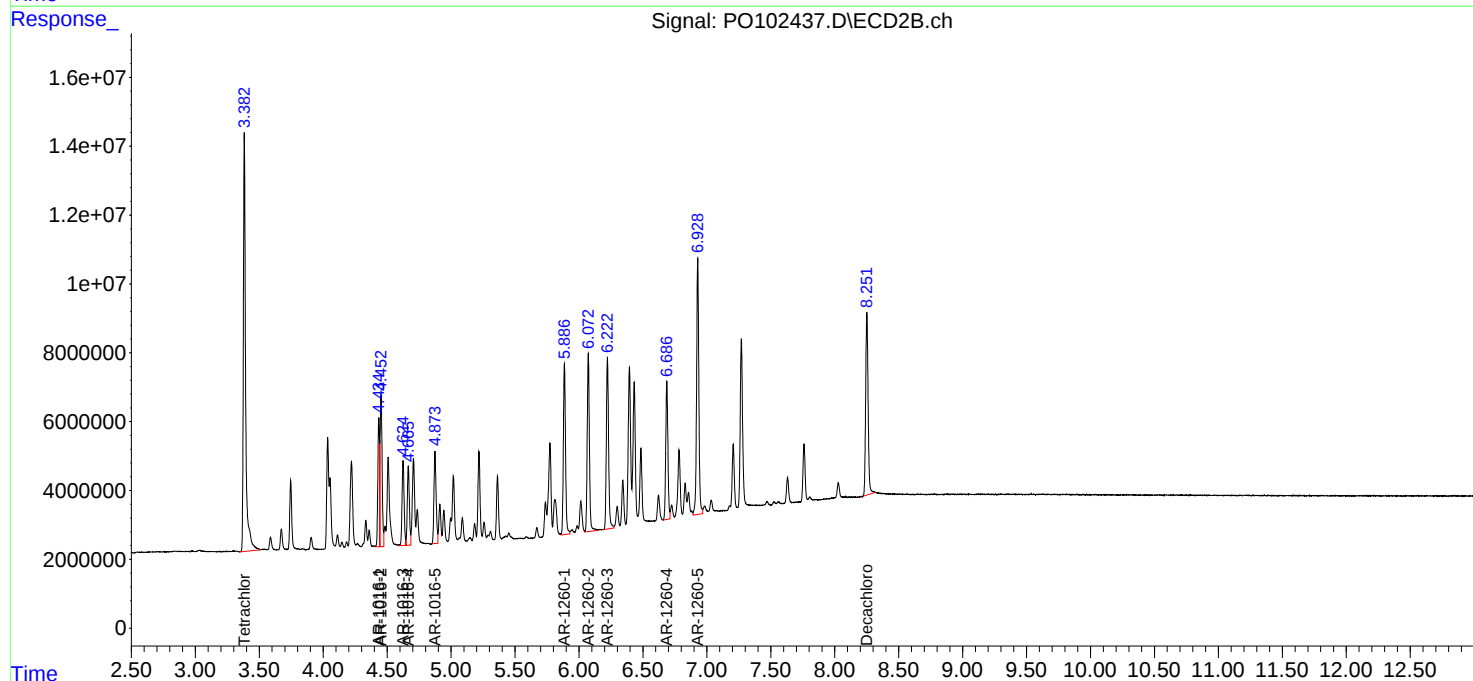
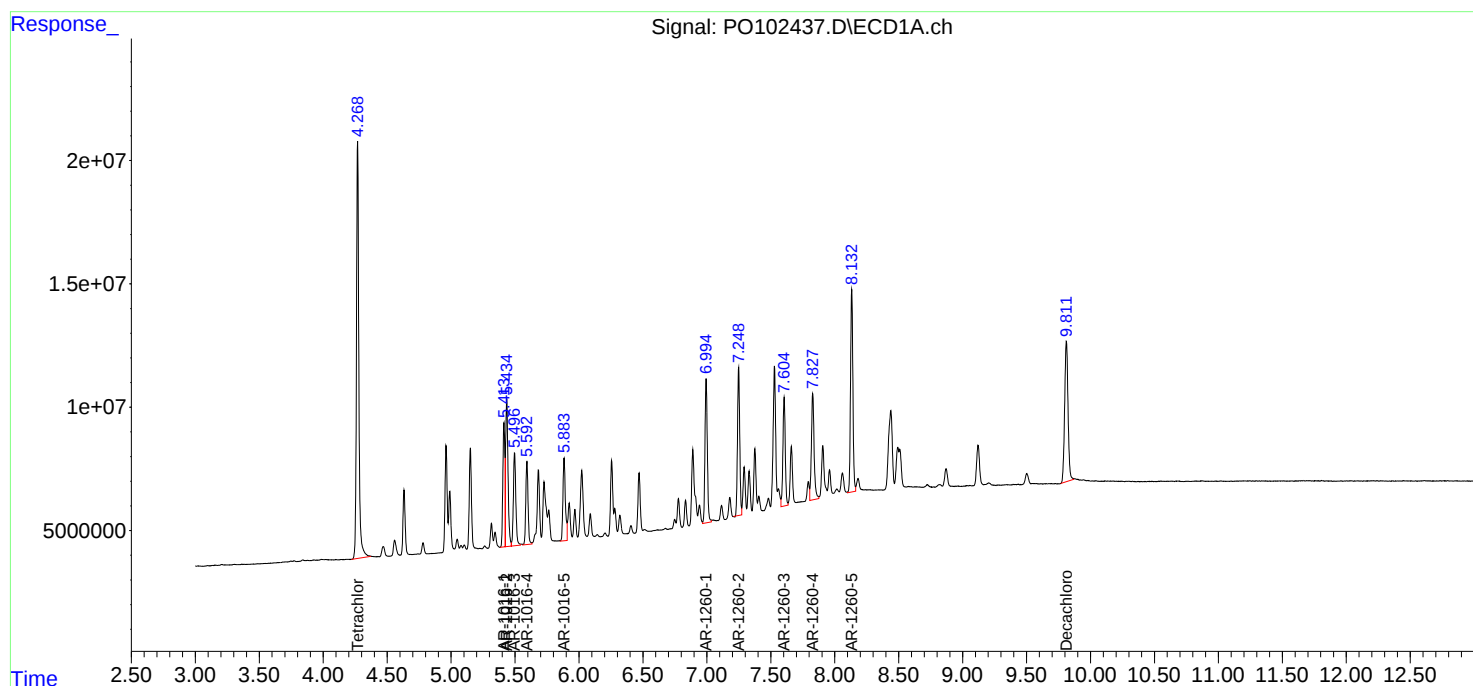
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031224\
Data File : P0102437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:07
Operator : YP/AJ
Sample : P0031224ICV500
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:27:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:26:32 2024
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_O\Data\P0031224\
 Data File : P0102438.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 23:25
 Operator : YP/AJ
 Sample : AR1242ICV500
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 ICVPO031224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 01:35:59 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 01:32:40 2024
 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...	4.270	3.384	207.0E6	139.1E6	53.532	52.033
2) SA Decachlor...	9.813	8.253	95698345	64932639	52.872	54.525
Target Compounds						
16) L4 AR-1242-1	5.414	4.436	41941667	26220729	544.677	533.186
17) L4 AR-1242-2	5.436	4.454	60051248	35565366	540.167	526.152
18) L4 AR-1242-3	5.497	4.625	38694069	20619671	545.558	528.749
19) L4 AR-1242-4	5.594	4.707	31677996	23851083	545.389	528.448
20) L4 AR-1242-5	6.320	5.219	27159105	23022862	518.662	533.053

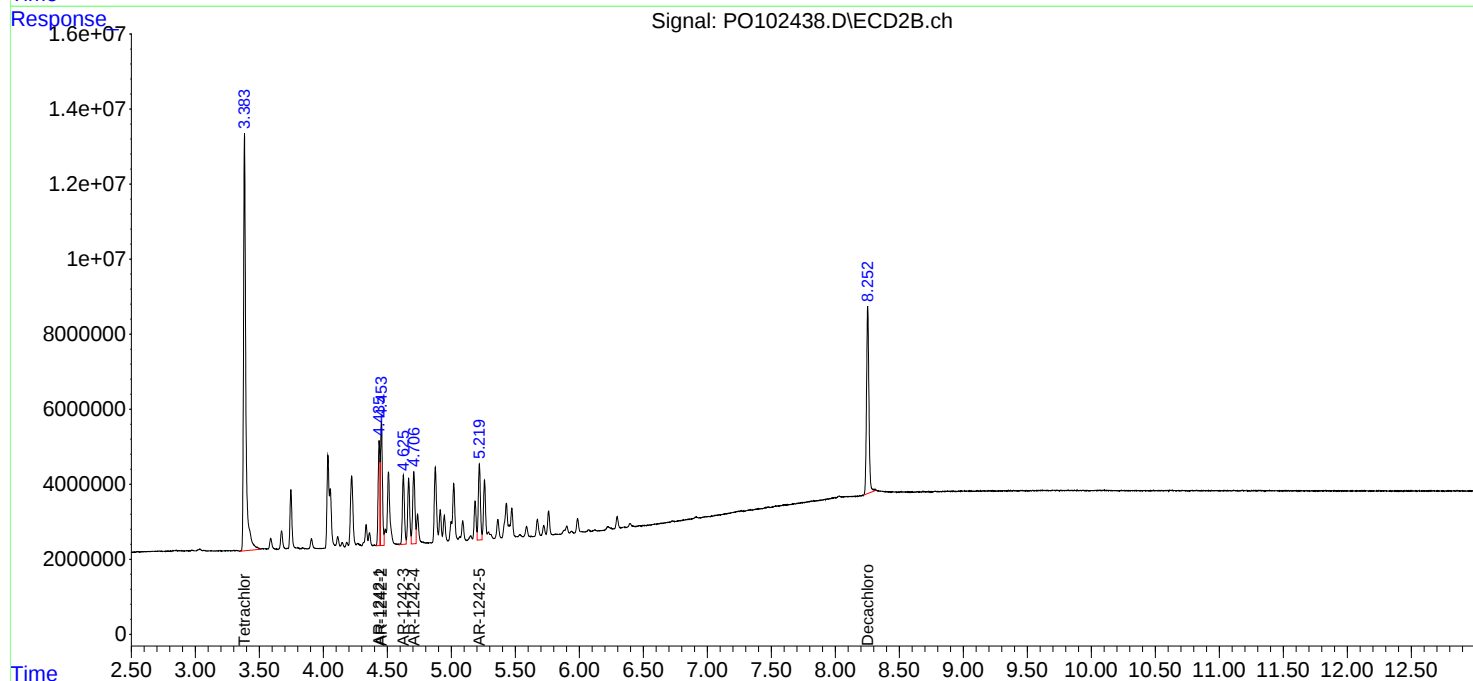
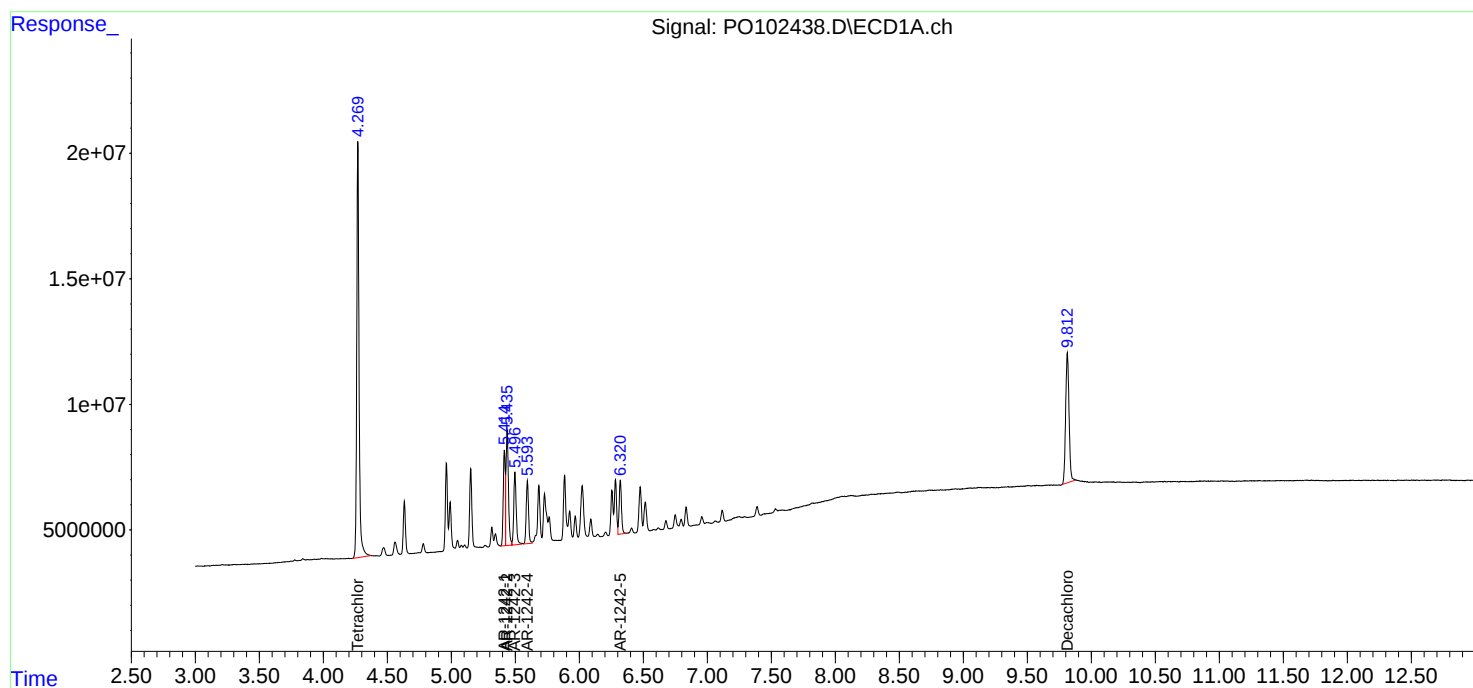
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:25
Operator : YP/AJ
Sample : AR1242ICV500
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:35:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
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_O\Data\P0031224\
 Data File : P0102439.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 23:42
 Operator : YP/AJ
 Sample : AR1248ICV500
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 ICVPO031224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:04:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:00:50 2024
 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...	4.269	3.384	202.2E6	136.5E6	53.080	52.174
2) SA Decachlor...	9.812	8.251	95118581	64278561	52.416	53.575
Target Compounds						
21) L5 AR-1248-1	5.413	4.435	31318244	20288285	538.263	529.606
22) L5 AR-1248-2	5.683	4.666	54073239	33701978	532.004	526.225
23) L5 AR-1248-3	5.884	4.706	56002413	35069307	529.324	525.085
24) L5 AR-1248-4	6.282	4.874	48415830	38845732	523.994	523.885
25) L5 AR-1248-5	6.320	5.259	47163017	29045172	528.502	529.088

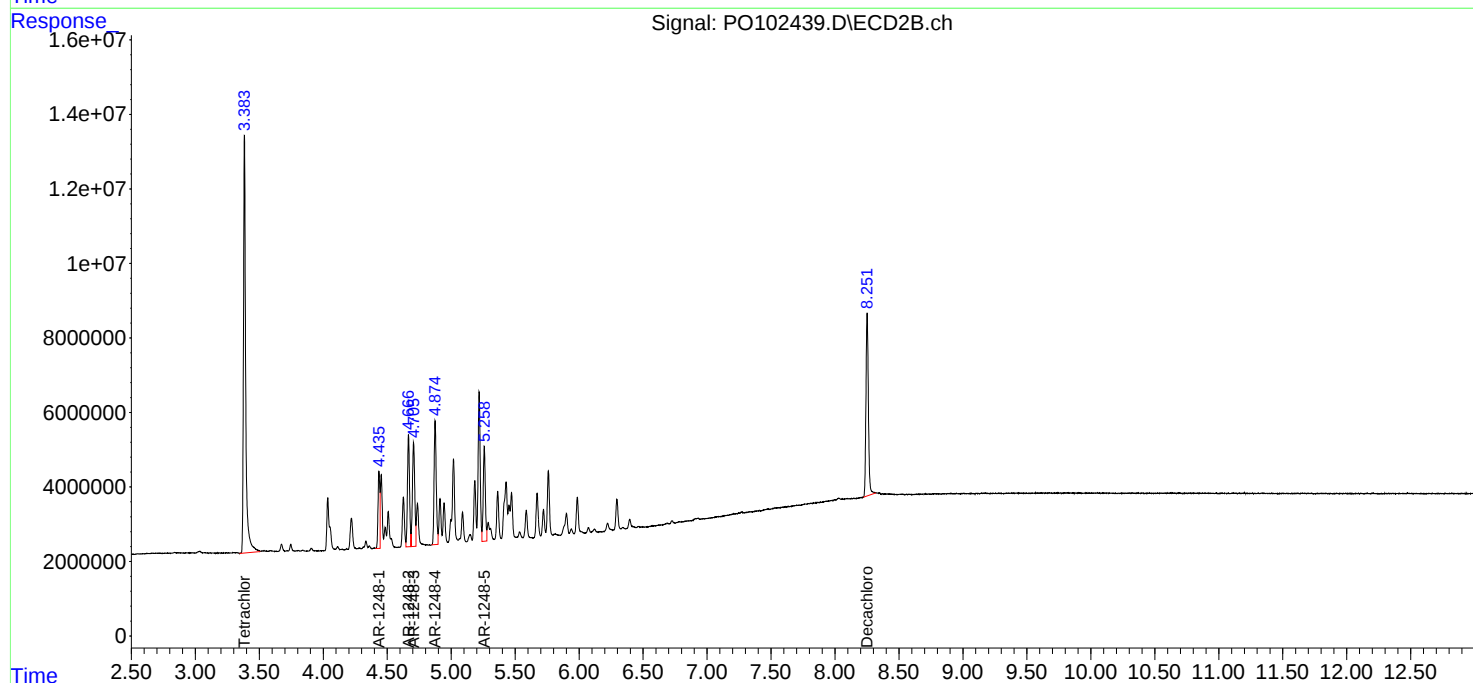
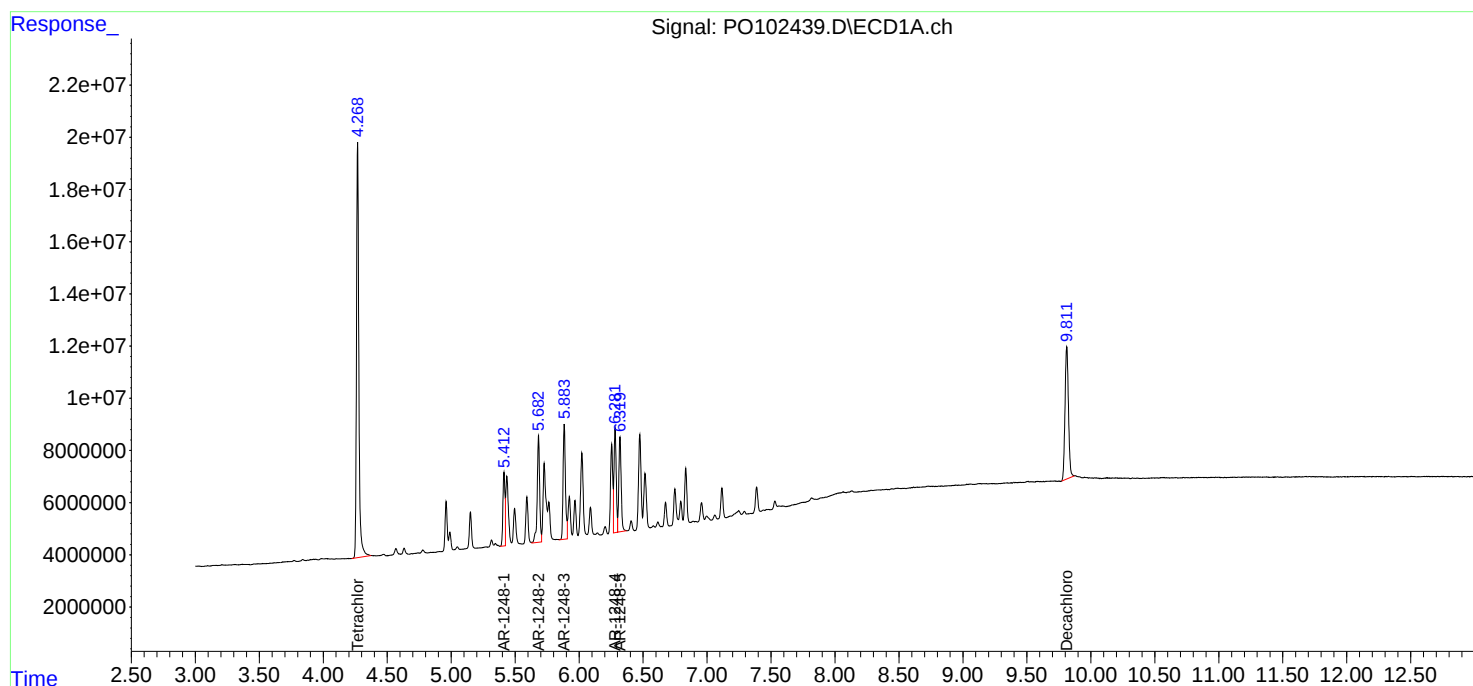
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102439.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:42
Operator : YP/AJ
Sample : AR1248ICV500
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:04:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
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_O\Data\P0031224\
 Data File : P0102440.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Mar 2024 23:59
 Operator : YP/AJ
 Sample : AR1254ICV500
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 ICVPO031224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 02:24:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 02:21:02 2024
 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...	4.269	3.384	204.4E6	138.3E6	51.711	50.873
2) SA Decachlor...	9.812	8.252	97558929	65671993	51.824	52.681
Target Compounds						
26) L6 AR-1254-1	6.257	5.219	61585075	55695668	509.127	514.610
27) L6 AR-1254-2	6.472	5.364	86563671	47870188	510.137	514.023
28) L6 AR-1254-3	6.835	5.760	80869474	69722460	513.699	518.376
29) L6 AR-1254-4	7.117	5.986	46819907	34514589	522.880	529.629
30) L6 AR-1254-5	7.531	6.397	54893364	55330677	518.089	522.640

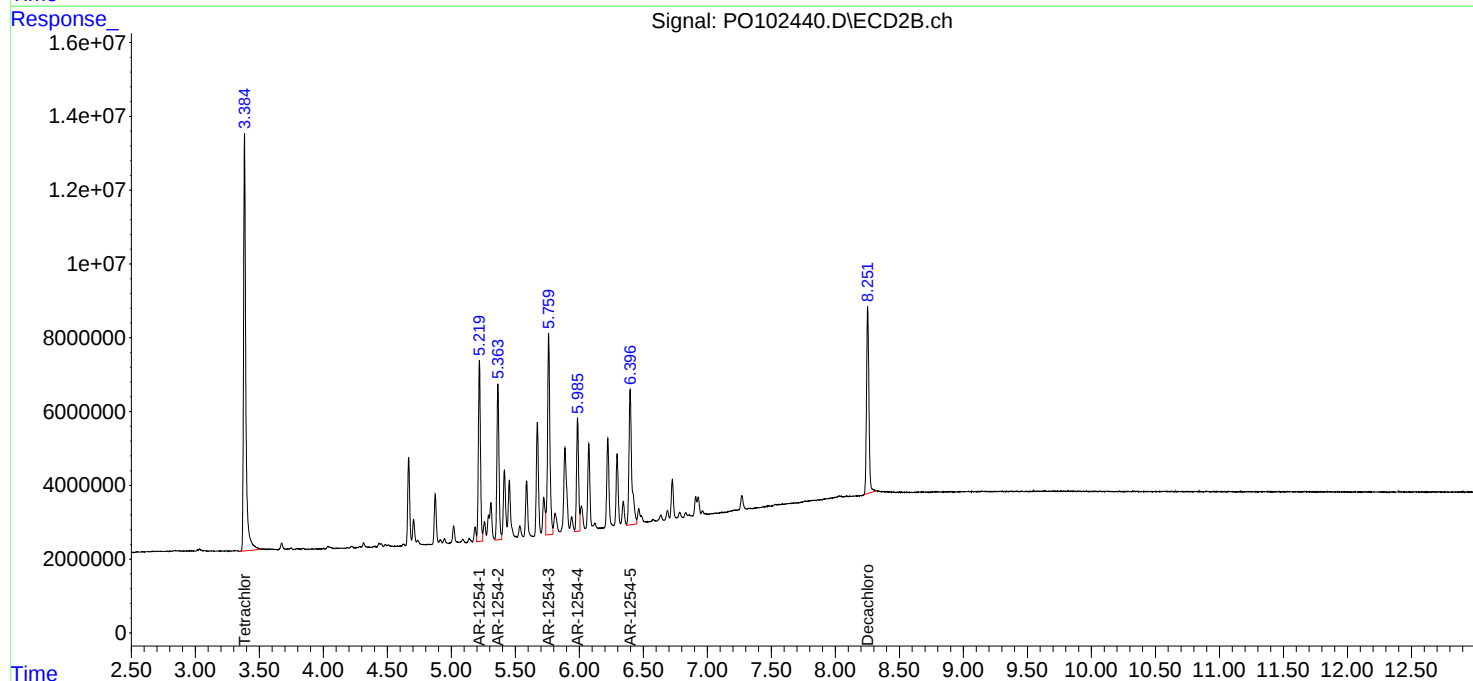
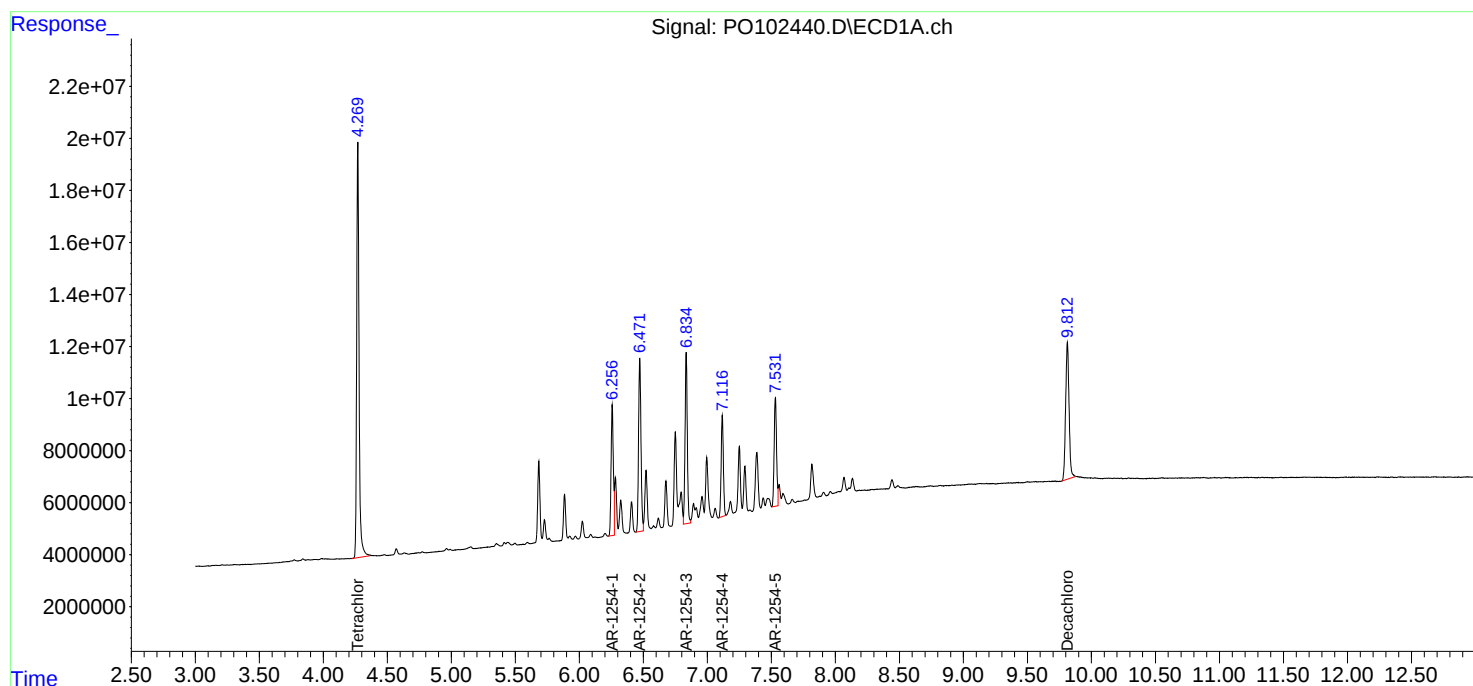
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102440.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:59
Operator : YP/AJ
Sample : AR1254ICV500
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:24:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
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_O\Data\P0031224\
 Data File : P0102441.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Mar 2024 00:16
 Operator : YP/AJ
 Sample : AR1268ICV500
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 ICVPO031224

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 13 04:31:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:27:31 2024
 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...	4.269	3.384	206.6E6	141.7E6	50.358	50.572
2) SA Decachlor...	9.812	8.251	172.1E6	115.4E6	51.581	51.156
Target Compounds						
41) L9 AR-1268-1	8.426	7.206	139.4E6	112.4E6	508.517	512.922
42) L9 AR-1268-2	8.513	7.272	124.4E6	101.6E6	510.450	512.872
43) L9 AR-1268-3	8.725	7.471	114.9E6	94962697	505.822	511.751
44) L9 AR-1268-4	9.122	8.029	38796840	228.9E6	517.239	515.608
45) L9 AR-1268-5	9.504	8.251	327.6E6	115.4E6	513.005	511.558

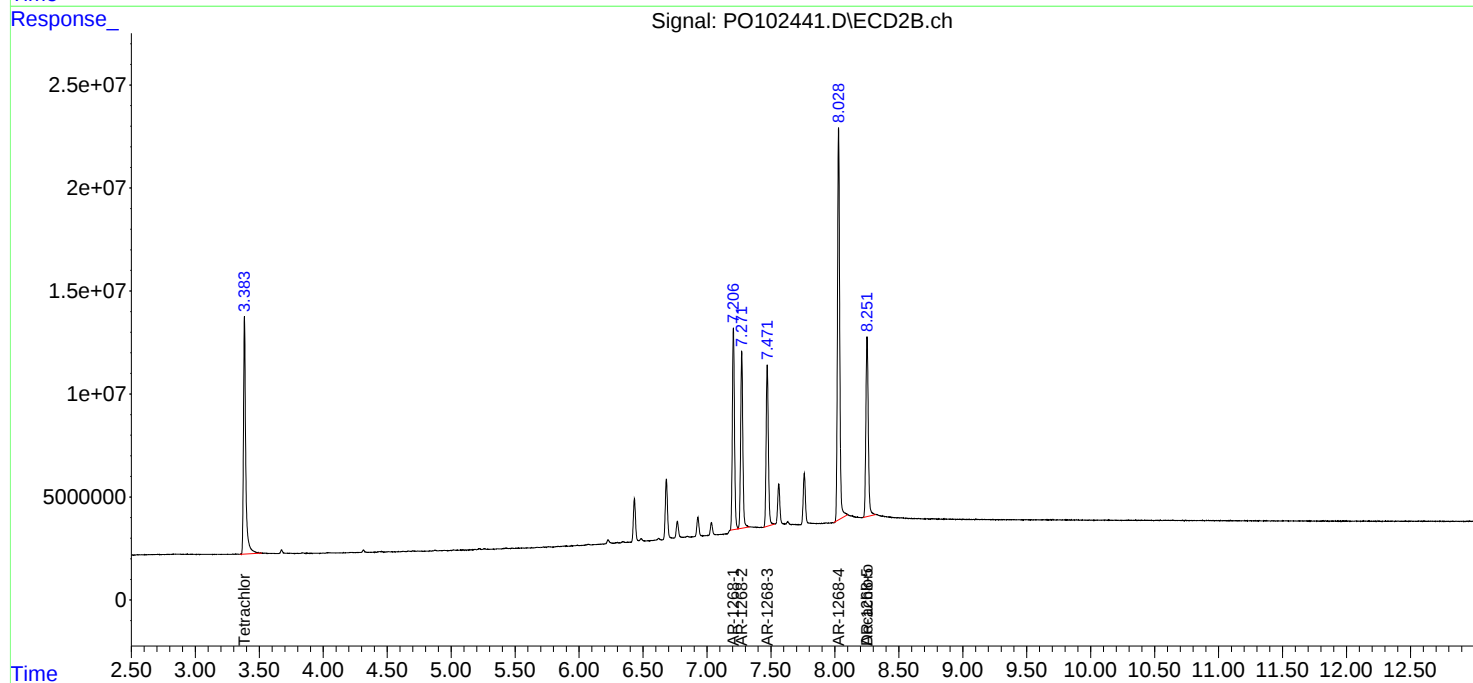
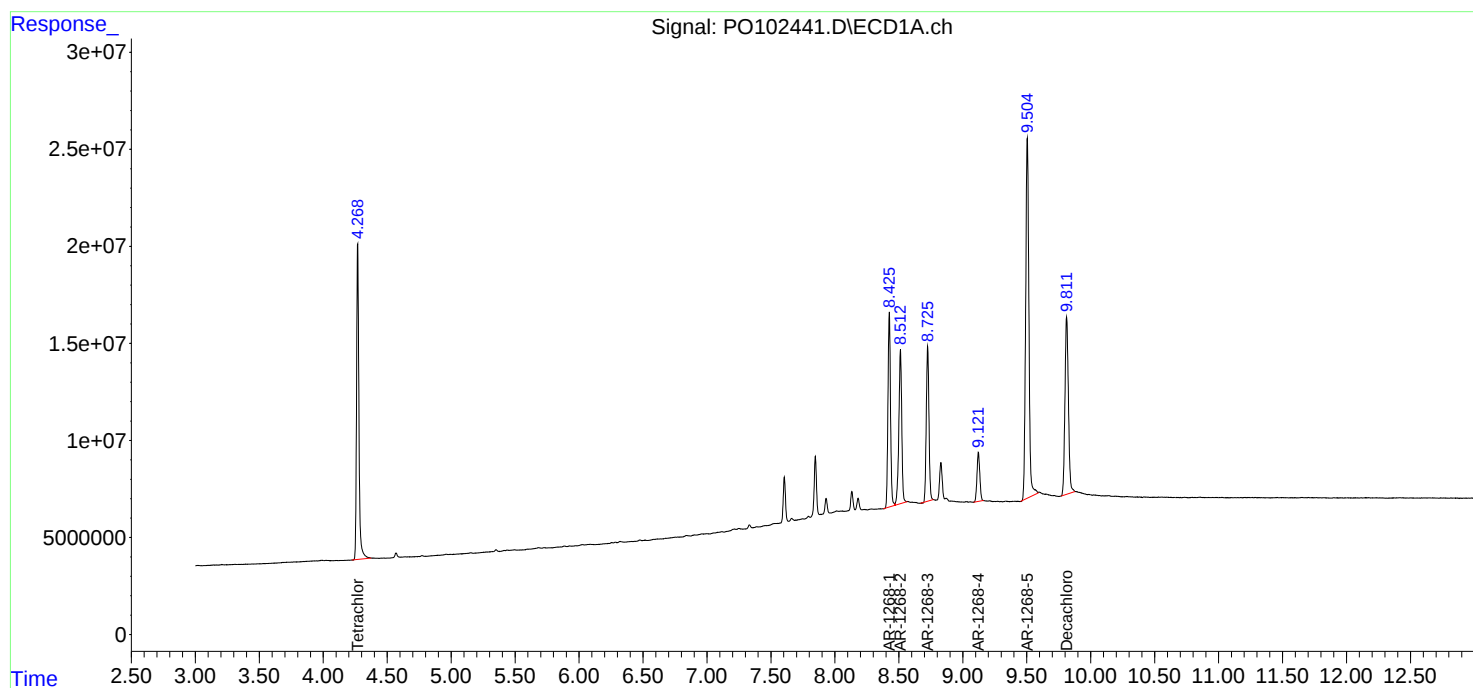
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2024 00:16
Operator : YP/AJ
Sample : AR1268ICV500
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:31:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
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: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/14/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 15:28 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.41	5.42	5.32	5.52	0.01
Aroclor-1016-2	(2)	5.44	5.44	5.34	5.54	0.01
Aroclor-1016-3	(3)	5.50	5.50	5.40	5.60	0.00
Aroclor-1016-4	(4)	5.59	5.60	5.50	5.70	0.01
Aroclor-1016-5	(5)	5.88	5.89	5.79	5.99	0.01
Aroclor-1260-1	(1)	6.99	7.00	6.90	7.10	0.01
Aroclor-1260-2	(2)	7.25	7.25	7.15	7.35	0.00
Aroclor-1260-3	(3)	7.60	7.61	7.51	7.71	0.01
Aroclor-1260-4	(4)	7.83	7.83	7.73	7.93	0.00
Aroclor-1260-5	(5)	8.13	8.14	8.04	8.24	0.01
Tetrachloro-m-xylene		4.27	4.27	4.17	4.37	0.00
Decachlorobiphenyl		9.81	9.81	9.71	9.91	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/14/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 15:28 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.44	4.44	4.34	4.54	0.01
Aroclor-1016-2	(2)	4.45	4.45	4.35	4.55	0.00
Aroclor-1016-3	(3)	4.62	4.63	4.53	4.73	0.01
Aroclor-1016-4	(4)	4.67	4.67	4.57	4.77	0.01
Aroclor-1016-5	(5)	4.87	4.88	4.78	4.98	0.01
Aroclor-1260-1	(1)	5.89	5.89	5.79	5.99	0.00
Aroclor-1260-2	(2)	6.07	6.08	5.98	6.18	0.01
Aroclor-1260-3	(3)	6.22	6.23	6.13	6.33	0.01
Aroclor-1260-4	(4)	6.69	6.69	6.59	6.79	0.00
Aroclor-1260-5	(5)	6.93	6.93	6.83	7.03	0.00
Tetrachloro-m-xylene		3.38	3.39	3.29	3.49	0.01
Decachlorobiphenyl		8.25	8.25	8.15	8.35	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL01 Date Analyzed: 03/14/2024Lab Sample No.: AR1660CCC500 Data File : PO102499.D Time Analyzed: 15:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.413	5.315	5.515	479.370	500.000	-4.1
Aroclor-1016-2	5.435	5.338	5.538	479.540	500.000	-4.1
Aroclor-1016-3	5.496	5.399	5.599	484.480	500.000	-3.1
Aroclor-1016-4	5.593	5.496	5.696	487.030	500.000	-2.6
Aroclor-1016-5	5.883	5.786	5.986	485.050	500.000	-3.0
Aroclor-1260-1	6.994	6.897	7.097	477.170	500.000	-4.6
Aroclor-1260-2	7.248	7.151	7.351	505.010	500.000	1.0
Aroclor-1260-3	7.603	7.506	7.706	503.610	500.000	0.7
Aroclor-1260-4	7.827	7.730	7.930	494.910	500.000	-1.0
Aroclor-1260-5	8.132	8.035	8.235	506.240	500.000	1.2
Decachlorobiphenyl	9.808	9.714	9.914	53.420	50.000	6.8
Tetrachloro-m-xylene	4.269	4.171	4.371	42.760	50.000	-14.5



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL01 Date Analyzed: 03/14/2024Lab Sample No.: AR1660CCC500 Data File : PO102499.D Time Analyzed: 15:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.435	4.337	4.537	490.100	500.000	-2.0
Aroclor-1016-2	4.453	4.354	4.554	498.980	500.000	-0.2
Aroclor-1016-3	4.624	4.526	4.726	486.500	500.000	-2.7
Aroclor-1016-4	4.665	4.567	4.767	473.850	500.000	-5.2
Aroclor-1016-5	4.874	4.775	4.975	492.130	500.000	-1.6
Aroclor-1260-1	5.886	5.788	5.988	492.380	500.000	-1.5
Aroclor-1260-2	6.072	5.975	6.175	523.830	500.000	4.8
Aroclor-1260-3	6.222	6.125	6.325	489.760	500.000	-2.0
Aroclor-1260-4	6.686	6.589	6.789	513.100	500.000	2.6
Aroclor-1260-5	6.928	6.830	7.030	536.280	500.000	7.3
Decachlorobiphenyl	8.249	8.154	8.354	55.010	50.000	10.0
Tetrachloro-m-xylene	3.384	3.285	3.485	42.910	50.000	-14.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031424\
 Data File : P0102499.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 15:28
 Operator : YP/AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 14 20:19:14 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.269	3.384	175.3E6	120.2E6	42.763	42.907
2) SA Decachlor...	9.808	8.249	101.4E6	67813432	53.424	55.006
Target Compounds						
3) L1 AR-1016-1	5.413	4.435	47892310	30710391	479.371	490.100
4) L1 AR-1016-2	5.435	4.453	69549864	43284214	479.537	498.976
5) L1 AR-1016-3	5.496	4.624	45271985	24449423	484.480	486.502
6) L1 AR-1016-4	5.593	4.665	36842423	22297591	487.027	473.852
7) L1 AR-1016-5	5.883	4.874	39688971	28294158	485.053	492.125
31) L7 AR-1260-1	6.994	5.886	65354029	51672704	477.171	492.381
32) L7 AR-1260-2	7.248	6.072	66535897	57270857	505.008	523.829
33) L7 AR-1260-3	7.603	6.222	51345613	55232522	503.614	489.761
34) L7 AR-1260-4	7.827	6.686	57237796	43773876	494.905	513.101
35) L7 AR-1260-5	8.132	6.928	98416972	86845736	506.237	536.279

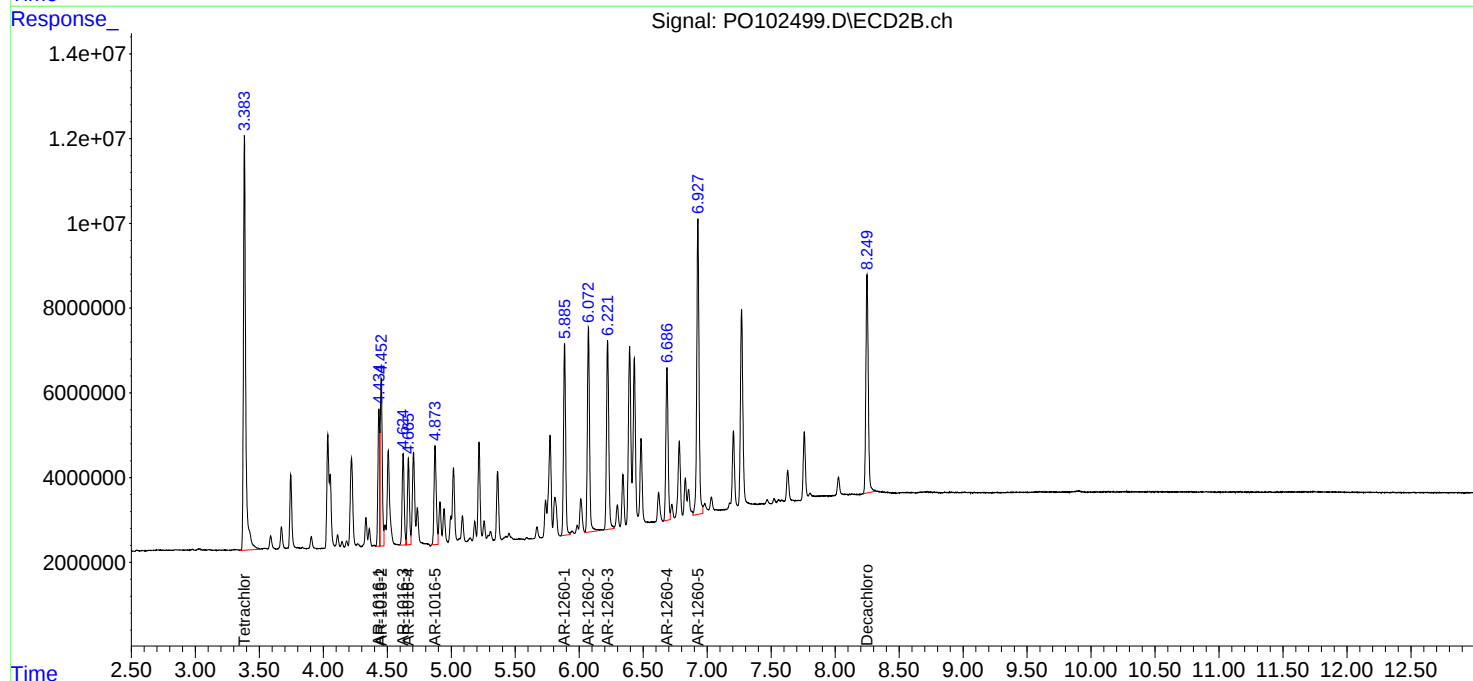
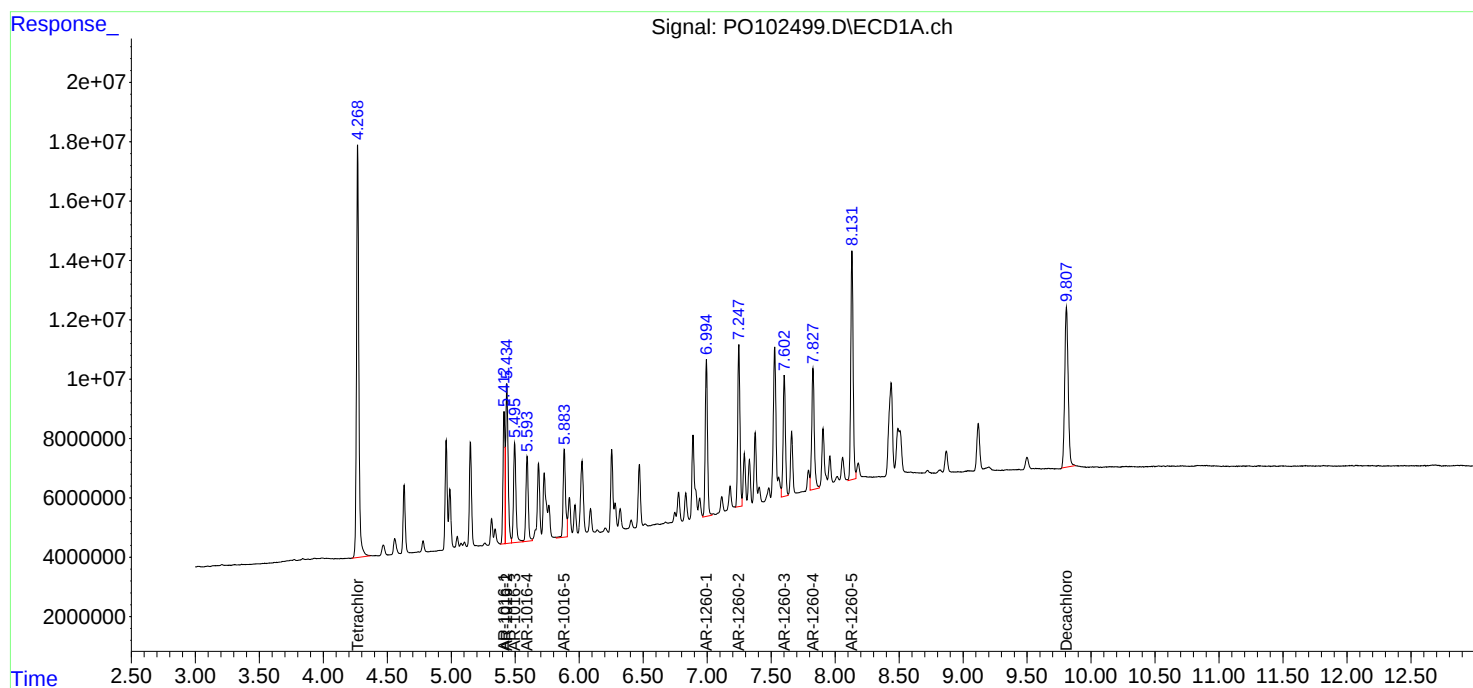
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102499.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:28
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/14/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 21:26 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.41	5.42	5.32	5.52	0.01
Aroclor-1016-2	(2)	5.43	5.44	5.34	5.54	0.01
Aroclor-1016-3	(3)	5.49	5.50	5.40	5.60	0.01
Aroclor-1016-4	(4)	5.59	5.60	5.50	5.70	0.01
Aroclor-1016-5	(5)	5.88	5.89	5.79	5.99	0.01
Aroclor-1260-1	(1)	6.99	7.00	6.90	7.10	0.01
Aroclor-1260-2	(2)	7.25	7.25	7.15	7.35	0.00
Aroclor-1260-3	(3)	7.60	7.61	7.51	7.71	0.01
Aroclor-1260-4	(4)	7.83	7.83	7.73	7.93	0.01
Aroclor-1260-5	(5)	8.13	8.14	8.04	8.24	0.01
Tetrachloro-m-xylene		4.27	4.27	4.17	4.37	0.00
Decachlorobiphenyl		9.81	9.81	9.71	9.91	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/14/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 21:26 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.43	4.44	4.34	4.54	0.01
Aroclor-1016-2	(2)	4.45	4.45	4.35	4.55	0.00
Aroclor-1016-3	(3)	4.62	4.63	4.53	4.73	0.01
Aroclor-1016-4	(4)	4.66	4.67	4.57	4.77	0.01
Aroclor-1016-5	(5)	4.87	4.88	4.78	4.98	0.01
Aroclor-1260-1	(1)	5.88	5.89	5.79	5.99	0.01
Aroclor-1260-2	(2)	6.07	6.08	5.98	6.18	0.01
Aroclor-1260-3	(3)	6.22	6.23	6.13	6.33	0.01
Aroclor-1260-4	(4)	6.69	6.69	6.59	6.79	0.01
Aroclor-1260-5	(5)	6.93	6.93	6.83	7.03	0.00
Tetrachloro-m-xylene		3.38	3.39	3.29	3.49	0.01
Decachlorobiphenyl		8.25	8.25	8.15	8.35	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL02 Date Analyzed: 03/14/2024Lab Sample No.: AR1660CCC500 Data File : PO102519.D Time Analyzed: 21:26

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.412	5.315	5.515	518.900	500.000	3.8
Aroclor-1016-2	5.433	5.338	5.538	525.450	500.000	5.1
Aroclor-1016-3	5.494	5.399	5.599	521.870	500.000	4.4
Aroclor-1016-4	5.592	5.496	5.696	525.750	500.000	5.2
Aroclor-1016-5	5.882	5.786	5.986	510.230	500.000	2.0
Aroclor-1260-1	6.992	6.897	7.097	507.780	500.000	1.6
Aroclor-1260-2	7.246	7.151	7.351	554.750	500.000	11.0
Aroclor-1260-3	7.602	7.506	7.706	541.090	500.000	8.2
Aroclor-1260-4	7.825	7.730	7.930	526.260	500.000	5.3
Aroclor-1260-5	8.131	8.035	8.235	558.260	500.000	11.7
Decachlorobiphenyl	9.806	9.714	9.914	56.590	50.000	13.2
Tetrachloro-m-xylene	4.268	4.171	4.371	45.410	50.000	-9.2



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL02 Date Analyzed: 03/14/2024Lab Sample No.: AR1660CCC500 Data File : PO102519.D Time Analyzed: 21:26

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.434	4.337	4.537	551.110	500.000	10.2
Aroclor-1016-2	4.451	4.354	4.554	560.140	500.000	12.0
Aroclor-1016-3	4.623	4.526	4.726	564.490	500.000	12.9
Aroclor-1016-4	4.664	4.567	4.767	536.960	500.000	7.4
Aroclor-1016-5	4.872	4.775	4.975	530.890	500.000	6.2
Aroclor-1260-1	5.884	5.788	5.988	531.160	500.000	6.2
Aroclor-1260-2	6.071	5.975	6.175	572.900	500.000	14.6
Aroclor-1260-3	6.221	6.125	6.325	528.890	500.000	5.8
Aroclor-1260-4	6.685	6.589	6.789	558.270	500.000	11.7
Aroclor-1260-5	6.926	6.830	7.030	600.600	500.000	20.1
Decachlorobiphenyl	8.248	8.154	8.354	60.660	50.000	21.3
Tetrachloro-m-xylene	3.383	3.285	3.485	45.210	50.000	-9.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031424\
 Data File : P0102519.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 21:26
 Operator : YP/AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 00:27:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	186.1E6	126.7E6	45.412	45.212
2) SA Decachlor...	9.806	8.248	107.5E6	74783777	56.590	60.660
Target Compounds						
3) L1 AR-1016-1	5.412	4.434	51841910	34533603	518.904	551.114
4) L1 AR-1016-2	5.433	4.451	76208249	48590005	525.445	560.140
5) L1 AR-1016-3	5.494	4.623	48766116	28368757	521.872	564.490
6) L1 AR-1016-4	5.592	4.664	39771944	25267409	525.753	536.965
7) L1 AR-1016-5	5.882	4.872	41749399	30522738	510.234	530.887
31) L7 AR-1260-1	6.992	5.884	69546294	55742831	507.780	531.165
32) L7 AR-1260-2	7.246	6.071	73089855	62635515	554.753	572.897
33) L7 AR-1260-3	7.602	6.221	55166724	59645157	541.093	528.889
34) L7 AR-1260-4	7.825	6.685	60863998	47627129	526.259	558.268
35) L7 AR-1260-5	8.131	6.926	108.5E6	97261529	558.263	600.598

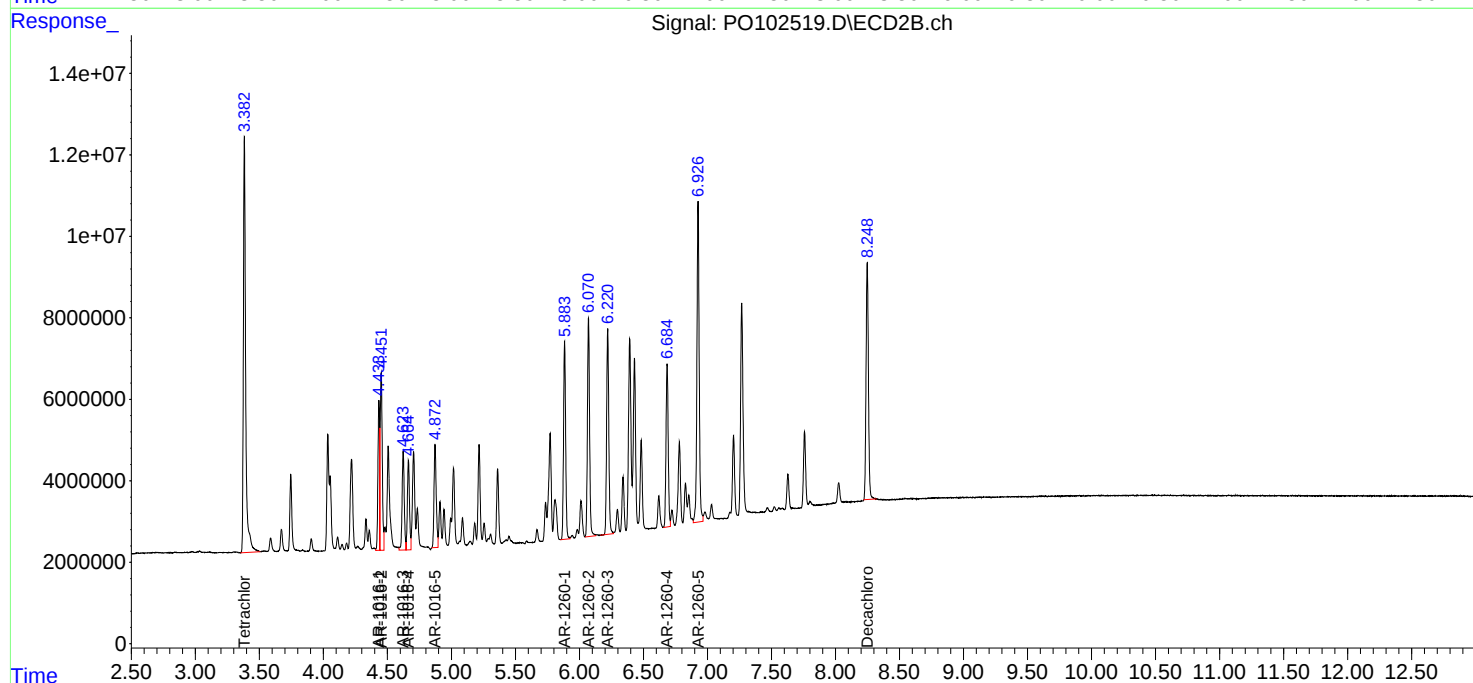
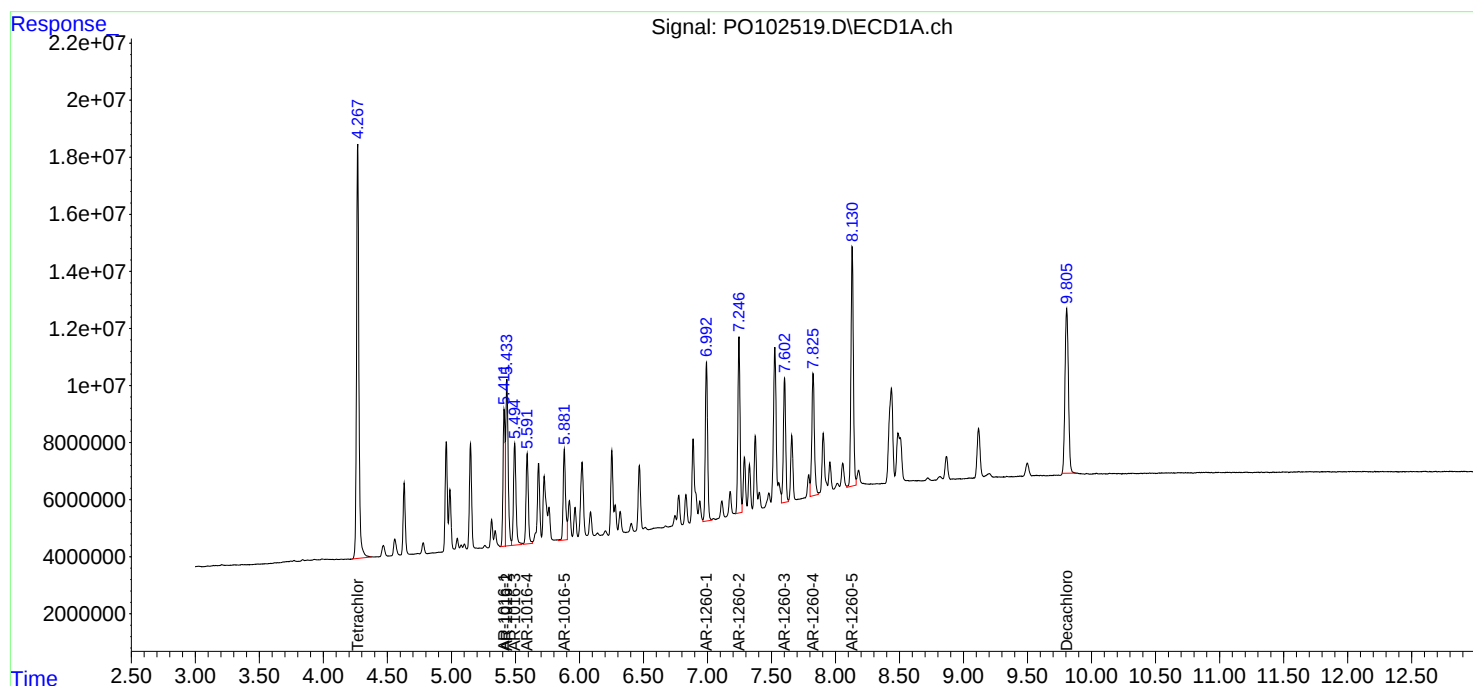
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102519.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:26
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/15/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 01:49 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.41	5.42	5.32	5.52	0.01
Aroclor-1016-2	(2)	5.43	5.44	5.34	5.54	0.01
Aroclor-1016-3	(3)	5.49	5.50	5.40	5.60	0.01
Aroclor-1016-4	(4)	5.59	5.60	5.50	5.70	0.01
Aroclor-1016-5	(5)	5.88	5.89	5.79	5.99	0.01
Aroclor-1260-1	(1)	6.99	7.00	6.90	7.10	0.01
Aroclor-1260-2	(2)	7.25	7.25	7.15	7.35	0.00
Aroclor-1260-3	(3)	7.60	7.61	7.51	7.71	0.01
Aroclor-1260-4	(4)	7.83	7.83	7.73	7.93	0.01
Aroclor-1260-5	(5)	8.13	8.14	8.04	8.24	0.01
Tetrachloro-m-xylene		4.27	4.27	4.17	4.37	0.00
Decachlorobiphenyl		9.81	9.81	9.71	9.91	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747Continuing Calib Date: 03/15/2024 Initial Calibration Date(s): 03/12/2024 03/12/2024Continuing Calib Time: 01:49 Initial Calibration Time(s): 15:06 22:50GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.43	4.44	4.34	4.54	0.01
Aroclor-1016-2	(2)	4.45	4.45	4.35	4.55	0.00
Aroclor-1016-3	(3)	4.62	4.63	4.53	4.73	0.01
Aroclor-1016-4	(4)	4.66	4.67	4.57	4.77	0.01
Aroclor-1016-5	(5)	4.87	4.88	4.78	4.98	0.01
Aroclor-1260-1	(1)	5.88	5.89	5.79	5.99	0.01
Aroclor-1260-2	(2)	6.07	6.08	5.98	6.18	0.01
Aroclor-1260-3	(3)	6.22	6.23	6.13	6.33	0.01
Aroclor-1260-4	(4)	6.69	6.69	6.59	6.79	0.01
Aroclor-1260-5	(5)	6.93	6.93	6.83	7.03	0.00
Tetrachloro-m-xylene		3.38	3.39	3.29	3.49	0.01
Decachlorobiphenyl		8.25	8.25	8.15	8.35	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL03 Date Analyzed: 03/15/2024Lab Sample No.: AR1660CCC500 Data File : PO102531.D Time Analyzed: 01:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.412	5.315	5.515	559.530	500.000	11.9
Aroclor-1016-2	5.433	5.338	5.538	555.310	500.000	11.1
Aroclor-1016-3	5.494	5.399	5.599	565.210	500.000	13.0
Aroclor-1016-4	5.592	5.496	5.696	561.400	500.000	12.3
Aroclor-1016-5	5.882	5.786	5.986	540.280	500.000	8.1
Aroclor-1260-1	6.993	6.897	7.097	527.230	500.000	5.4
Aroclor-1260-2	7.246	7.151	7.351	567.320	500.000	13.5
Aroclor-1260-3	7.602	7.506	7.706	535.710	500.000	7.1
Aroclor-1260-4	7.825	7.730	7.930	408.210	500.000	-18.4
Aroclor-1260-5	8.129	8.035	8.235	564.010	500.000	12.8
Decachlorobiphenyl	9.806	9.714	9.914	57.440	50.000	14.9
Tetrachloro-m-xylene	4.267	4.171	4.371	47.380	50.000	-5.2



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

CALIBRATION VERIFICATION SUMMARY

Contract: LIRO01Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 03/12/2024 03/12/2024Client Sample No.: CCAL03 Date Analyzed: 03/15/2024Lab Sample No.: AR1660CCC500 Data File : PO102531.D Time Analyzed: 01:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.433	4.337	4.537	575.750	500.000	15.2
Aroclor-1016-2	4.451	4.354	4.554	560.360	500.000	12.1
Aroclor-1016-3	4.622	4.526	4.726	546.360	500.000	9.3
Aroclor-1016-4	4.664	4.567	4.767	511.320	500.000	2.3
Aroclor-1016-5	4.872	4.775	4.975	551.350	500.000	10.3
Aroclor-1260-1	5.884	5.788	5.988	547.930	500.000	9.6
Aroclor-1260-2	6.071	5.975	6.175	599.370	500.000	19.9
Aroclor-1260-3	6.221	6.125	6.325	545.210	500.000	9.0
Aroclor-1260-4	6.685	6.589	6.789	567.870	500.000	13.6
Aroclor-1260-5	6.926	6.830	7.030	608.120	500.000	21.6
Decachlorobiphenyl	8.248	8.154	8.354	60.720	50.000	21.4
Tetrachloro-m-xylene	3.383	3.285	3.485	46.350	50.000	-7.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031424\
 Data File : P0102531.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Mar 2024 01:49
 Operator : YP/AJ
 Sample : AR1660CCC500
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 AR1660CCC500

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/15/2024
 Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 04:41:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.267	3.383	194.2E6	129.9E6	47.375	46.347
2) SA Decachlor...	9.806	8.248	109.1E6	74862089	57.438	60.724
Target Compounds						
3) L1 AR-1016-1	5.412	4.433	55900263	36077078	559.526	575.745m
4) L1 AR-1016-2	5.433	4.451	80539992	48609389	555.312	560.364m
5) L1 AR-1016-3	5.494	4.622	52815835	27457481	565.210	546.357m
6) L1 AR-1016-4	5.592	4.664	42468766	24060576	561.403	511.318m
7) L1 AR-1016-5	5.882	4.872	44207644	31698934	540.277	551.345
31) L7 AR-1260-1	6.993	5.884	72210293	57502491	527.231	547.933
32) L7 AR-1260-2	7.246	6.071	74746193	65529313	567.324m	599.365
33) L7 AR-1260-3	7.602	6.221	54618220	61485908	535.713m	545.211
34) L7 AR-1260-4	7.825	6.685	47211012	48446515	408.209m	567.872 #
35) L7 AR-1260-5	8.129	6.926	109.6E6	98480242	564.012m	608.123m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102531.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:49
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

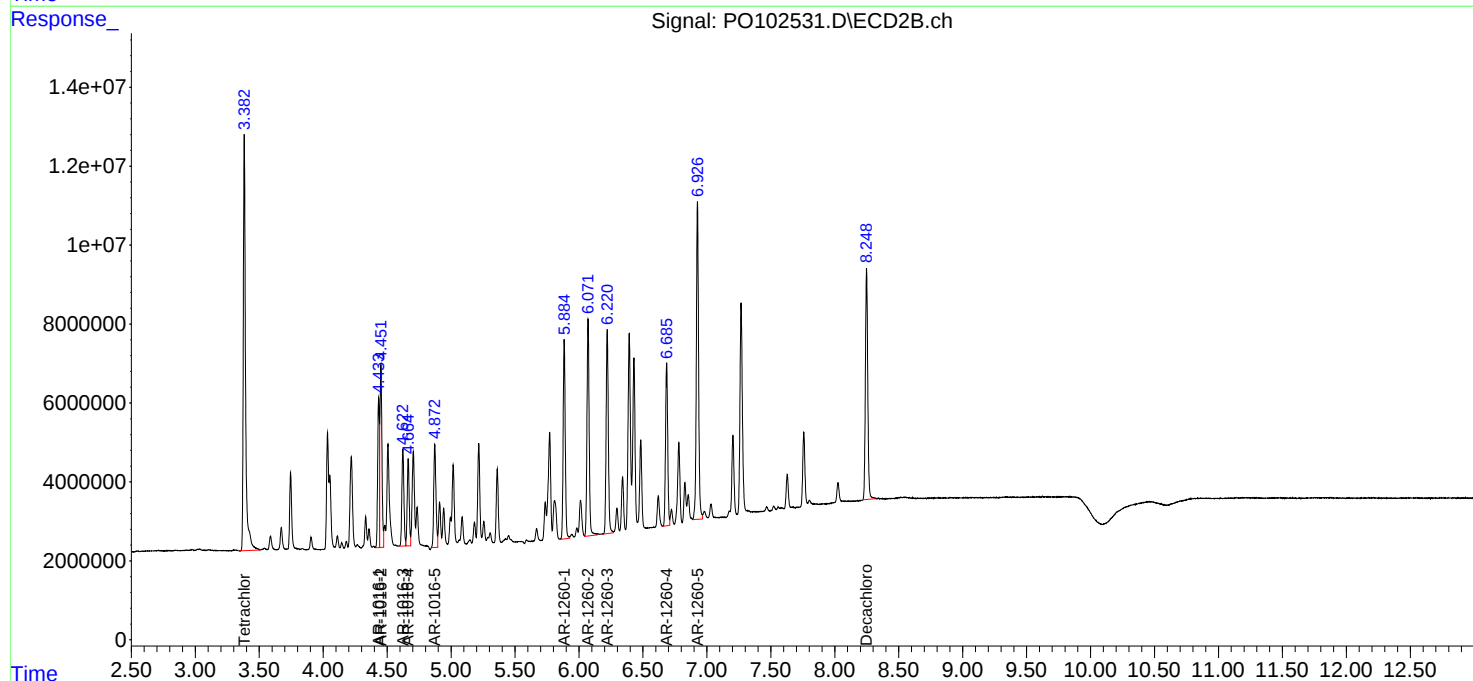
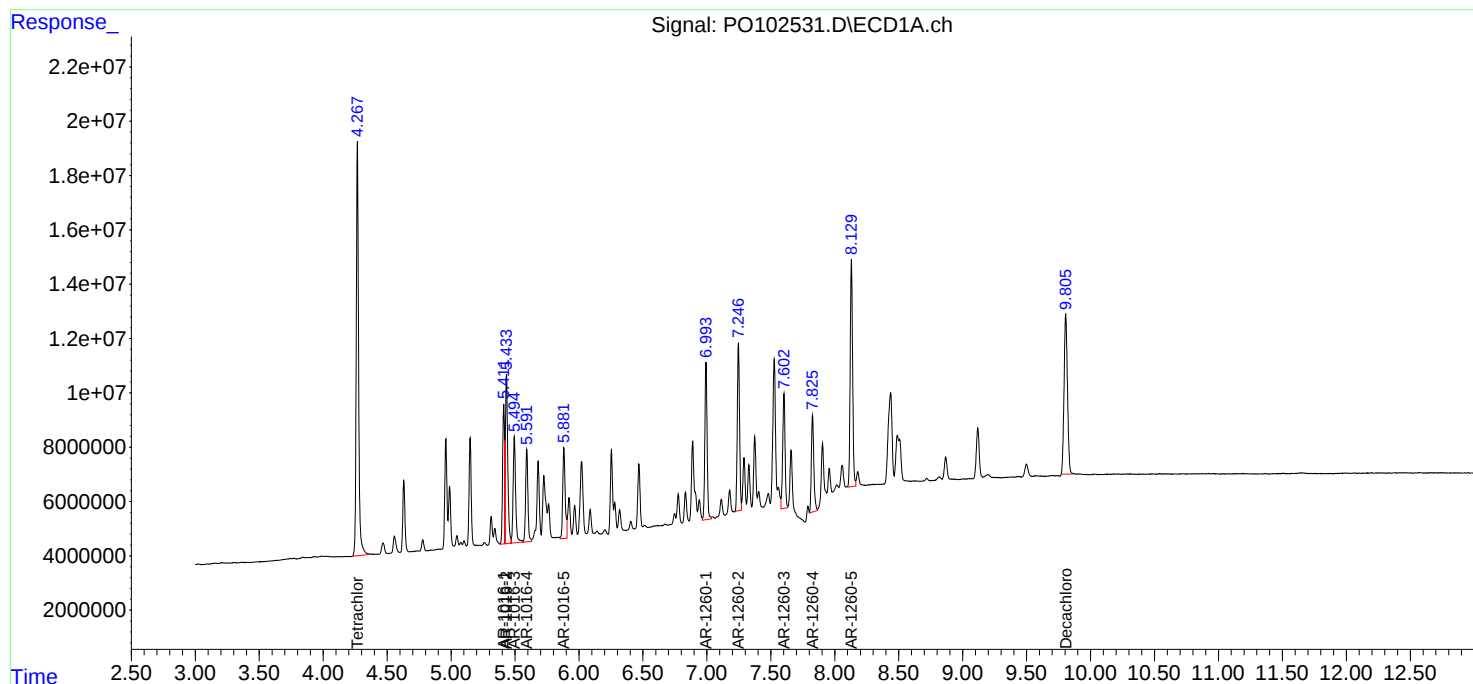
Instrument :
ECD_O
ClientSampleId :
AR1660CCC500

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

Analytical Sequence

Client: LiRo Engineers, Inc.

SDG No.: P1747

Project: Walter Gladwin Recreation Center, Bronx, N

Instrument ID: ECD_O

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 03/12/2024

03/12/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	03/12/2024	14:49	PO102408.D	9.81	4.27
AR1660ICC1000	AR1660ICC1000	03/12/2024	15:06	PO102409.D	9.82	4.27
AR1660ICC750	AR1660ICC750	03/12/2024	15:23	PO102410.D	9.81	4.27
AR1660ICC500	AR1660ICC500	03/12/2024	15:41	PO102411.D	9.81	4.27
AR1660ICC250	AR1660ICC250	03/12/2024	15:58	PO102412.D	9.82	4.27
AR1660ICC050	AR1660ICC050	03/12/2024	16:15	PO102413.D	9.82	4.27
AR1221ICC500	AR1221ICC500	03/12/2024	16:32	PO102414.D	9.82	4.27
AR1232ICC500	AR1232ICC500	03/12/2024	16:49	PO102415.D	9.82	4.27
AR1242ICC1000	AR1242ICC1000	03/12/2024	17:07	PO102416.D	9.82	4.27
AR1242ICC750	AR1242ICC750	03/12/2024	17:24	PO102417.D	9.82	4.27
AR1242ICC500	AR1242ICC500	03/12/2024	17:41	PO102418.D	9.82	4.27
AR1242ICC250	AR1242ICC250	03/12/2024	17:58	PO102419.D	9.81	4.27
AR1242ICC050	AR1242ICC050	03/12/2024	18:16	PO102420.D	9.81	4.27
AR1248ICC1000	AR1248ICC1000	03/12/2024	18:33	PO102421.D	9.81	4.27
AR1248ICC750	AR1248ICC750	03/12/2024	18:50	PO102422.D	9.84	4.29
AR1248ICC500	AR1248ICC500	03/12/2024	19:07	PO102423.D	9.81	4.27
AR1248ICC250	AR1248ICC250	03/12/2024	19:24	PO102424.D	9.82	4.27
AR1248ICC050	AR1248ICC050	03/12/2024	19:42	PO102425.D	9.82	4.27
AR1254ICC1000	AR1254ICC1000	03/12/2024	19:59	PO102426.D	9.81	4.27
AR1254ICC750	AR1254ICC750	03/12/2024	20:16	PO102427.D	9.81	4.27
AR1254ICC500	AR1254ICC500	03/12/2024	20:33	PO102428.D	9.81	4.27
AR1254ICC250	AR1254ICC250	03/12/2024	20:50	PO102429.D	9.81	4.27
AR1254ICC050	AR1254ICC050	03/12/2024	21:07	PO102430.D	9.81	4.27
AR1262ICC500	AR1262ICC500	03/12/2024	21:25	PO102431.D	9.81	4.27
AR1268ICC1000	AR1268ICC1000	03/12/2024	21:42	PO102432.D	9.81	4.27
AR1268ICC750	AR1268ICC750	03/12/2024	21:59	PO102433.D	9.81	4.27
AR1268ICC500	AR1268ICC500	03/12/2024	22:16	PO102434.D	9.81	4.27
AR1268ICC250	AR1268ICC250	03/12/2024	22:33	PO102435.D	9.81	4.27
AR1268ICC050	AR1268ICC050	03/12/2024	22:50	PO102436.D	9.81	4.27
AR1660CCC500	AR1660CCC500	03/14/2024	15:28	PO102499.D	9.81	4.27
IBLK	IBLK	03/14/2024	15:46	PO102500.D	9.81	4.27
PB159587BL	PB159587BL	03/14/2024	19:12	PO102512.D	9.81	4.27
PB159587BS	PB159587BS	03/14/2024	19:29	PO102513.D	9.81	4.27
PB159587BSD	PB159587BSD	03/14/2024	19:46	PO102514.D	9.81	4.27
MW-01	P1747-01	03/14/2024	20:04	PO102515.D	9.81	4.27
MW-01-DUP	P1747-02	03/14/2024	20:21	PO102516.D	9.81	4.27
MW-02	P1747-04	03/14/2024	20:38	PO102517.D	9.81	4.27
MW-04	P1747-05	03/14/2024	20:55	PO102518.D	9.81	4.27
AR1660CCC500	AR1660CCC500	03/14/2024	21:26	PO102519.D	9.81	4.27
IBLK	IBLK	03/14/2024	21:43	PO102520.D	9.81	4.27
PB159600BS	PB159600BS	03/15/2024	00:12	PO102527.D	9.81	4.27
PB159600BSD	PB159600BSD	03/15/2024	00:29	PO102528.D	9.81	4.27
PB159600BL	PB159600BL	03/15/2024	00:46	PO102529.D	9.81	4.27
MW-01	P1747-03	03/15/2024	01:03	PO102530.D	9.81	4.27
AR1660CCC500	AR1660CCC500	03/15/2024	01:49	PO102531.D	9.81	4.27



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Analytical Sequence

LBLK	LBLK	03/15/2024	02:06	PO102532.D	9.81	4.27
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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Analytical Sequence

Client: LiRo Engineers, Inc.

SDG No.: P1747

Project: Walter Gladwin Recreation Center, Bronx, N

Instrument ID: ECD_O

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 03/12/2024

03/12/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	03/12/2024	14:49	PO102408.D	8.25	3.38
AR1660ICC1000	AR1660ICC1000	03/12/2024	15:06	PO102409.D	8.26	3.39
AR1660ICC750	AR1660ICC750	03/12/2024	15:23	PO102410.D	8.25	3.39
AR1660ICC500	AR1660ICC500	03/12/2024	15:41	PO102411.D	8.25	3.39
AR1660ICC250	AR1660ICC250	03/12/2024	15:58	PO102412.D	8.26	3.39
AR1660ICC050	AR1660ICC050	03/12/2024	16:15	PO102413.D	8.25	3.38
AR1221ICC500	AR1221ICC500	03/12/2024	16:32	PO102414.D	8.25	3.38
AR1232ICC500	AR1232ICC500	03/12/2024	16:49	PO102415.D	8.25	3.39
AR1242ICC1000	AR1242ICC1000	03/12/2024	17:07	PO102416.D	8.25	3.39
AR1242ICC750	AR1242ICC750	03/12/2024	17:24	PO102417.D	8.25	3.39
AR1242ICC500	AR1242ICC500	03/12/2024	17:41	PO102418.D	8.25	3.39
AR1242ICC250	AR1242ICC250	03/12/2024	17:58	PO102419.D	8.25	3.38
AR1242ICC050	AR1242ICC050	03/12/2024	18:16	PO102420.D	8.25	3.38
AR1248ICC1000	AR1248ICC1000	03/12/2024	18:33	PO102421.D	8.25	3.39
AR1248ICC750	AR1248ICC750	03/12/2024	18:50	PO102422.D	8.25	3.38
AR1248ICC500	AR1248ICC500	03/12/2024	19:07	PO102423.D	8.25	3.38
AR1248ICC250	AR1248ICC250	03/12/2024	19:24	PO102424.D	8.25	3.38
AR1248ICC050	AR1248ICC050	03/12/2024	19:42	PO102425.D	8.25	3.38
AR1254ICC1000	AR1254ICC1000	03/12/2024	19:59	PO102426.D	8.25	3.38
AR1254ICC750	AR1254ICC750	03/12/2024	20:16	PO102427.D	8.25	3.38
AR1254ICC500	AR1254ICC500	03/12/2024	20:33	PO102428.D	8.25	3.38
AR1254ICC250	AR1254ICC250	03/12/2024	20:50	PO102429.D	8.25	3.38
AR1254ICC050	AR1254ICC050	03/12/2024	21:07	PO102430.D	8.25	3.38
AR1262ICC500	AR1262ICC500	03/12/2024	21:25	PO102431.D	8.25	3.38
AR1268ICC1000	AR1268ICC1000	03/12/2024	21:42	PO102432.D	8.25	3.38
AR1268ICC750	AR1268ICC750	03/12/2024	21:59	PO102433.D	8.25	3.38
AR1268ICC500	AR1268ICC500	03/12/2024	22:16	PO102434.D	8.25	3.38
AR1268ICC250	AR1268ICC250	03/12/2024	22:33	PO102435.D	8.25	3.38
AR1268ICC050	AR1268ICC050	03/12/2024	22:50	PO102436.D	8.25	3.38
AR1660CCC500	AR1660CCC500	03/14/2024	15:28	PO102499.D	8.25	3.38
IBLK	IBLK	03/14/2024	15:46	PO102500.D	8.25	3.38
PB159587BL	PB159587BL	03/14/2024	19:12	PO102512.D	8.25	3.38
PB159587BS	PB159587BS	03/14/2024	19:29	PO102513.D	8.25	3.38
PB159587BSD	PB159587BSD	03/14/2024	19:46	PO102514.D	8.25	3.38
MW-01	P1747-01	03/14/2024	20:04	PO102515.D	8.25	3.38
MW-01-DUP	P1747-02	03/14/2024	20:21	PO102516.D	8.25	3.38
MW-02	P1747-04	03/14/2024	20:38	PO102517.D	8.25	3.38
MW-04	P1747-05	03/14/2024	20:55	PO102518.D	8.25	3.38
AR1660CCC500	AR1660CCC500	03/14/2024	21:26	PO102519.D	8.25	3.38
IBLK	IBLK	03/14/2024	21:43	PO102520.D	8.25	3.38
PB159600BS	PB159600BS	03/15/2024	00:12	PO102527.D	8.25	3.38
PB159600BSD	PB159600BSD	03/15/2024	00:29	PO102528.D	8.25	3.38
PB159600BL	PB159600BL	03/15/2024	00:46	PO102529.D	8.25	3.38
MW-01	P1747-03	03/15/2024	01:03	PO102530.D	8.25	3.38
AR1660CCC500	AR1660CCC500	03/15/2024	01:49	PO102531.D	8.25	3.38



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Analytical Sequence

IBLK	IBLK	03/15/2024	02:06	PO102532.D	8.25	3.38
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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB159587BS

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BS Date(s) Analyzed: 03/14/2024 03/14/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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

Data file PO102513.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.412	5.362	5.462	5.31	5.30	1.9
COLUMN 1	2	5.434	5.384	5.484	5.35		
	3	5.495	5.445	5.545	5.37		
	4	5.592	5.542	5.642	5.31		
	5	5.882	5.832	5.932	5.02		
COLUMN 2	1	4.434	4.384	4.484	5.33	5.20	
	2	4.452	4.402	4.502	5.48		
	3	4.624	4.574	4.674	5.28		
	4	4.665	4.615	4.715	5.12		
	5	4.873	4.823	4.923	5.04		
Aroclor-1260	1	6.992	6.942	7.042	4.99	5.00	3.92
COLUMN 1	2	7.247	7.197	7.297	5.51		
	3	7.603	7.553	7.653	4.62		
	4	7.825	7.775	7.875	4.90		
	5	8.131	8.081	8.181	5.12		
COLUMN 2	1	5.885	5.835	5.935	5.13	5.20	
	2	6.071	6.021	6.121	5.60		
	3	6.22	6.17	6.27	5.17		
	4	6.685	6.635	6.735	4.83		
	5	6.926	6.876	6.976	5.45		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB159587BSD

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BSD Date(s) Analyzed: 03/14/2024 03/14/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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

Data file PO102514.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.412	5.362	5.462	5.17	5.10	1.94
COLUMN 1	2	5.434	5.384	5.484	5.20		
	3	5.495	5.445	5.545	5.18		
	4	5.592	5.542	5.642	5.16		
	5	5.882	5.832	5.932	4.94		
COLUMN 2	1	4.434	4.384	4.484	5.24	5.20	
	2	4.452	4.402	4.502	5.39		
	3	4.623	4.573	4.673	5.23		
	4	4.665	4.615	4.715	5.08		
	5	4.872	4.822	4.922	4.99		
Aroclor-1260	1	6.993	6.943	7.043	4.96	5.00	3.92
COLUMN 1	2	7.247	7.197	7.297	5.45		
	3	7.602	7.552	7.652	4.62		
	4	7.826	7.776	7.876	4.86		
	5	8.131	8.081	8.181	5.04		
COLUMN 2	1	5.884	5.834	5.934	5.08	5.20	
	2	6.071	6.021	6.121	5.55		
	3	6.221	6.171	6.271	5.12		
	4	6.685	6.635	6.735	4.78		
	5	6.926	6.876	6.976	5.38		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB159600BS

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BS Date(s) Analyzed: 03/15/2024 03/15/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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

Data file PO102527.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD
			FROM	TO			
Aroclor-1016	1	5.411	5.361	5.461	0.059	0.053	12.22
COLUMN 1	2	5.434	5.384	5.484	0.055		
	3	5.494	5.444	5.544	0.052		
	4	5.591	5.541	5.641	0.052		
	5	5.882	5.832	5.932	0.047		
	1	4.433	4.383	4.483	0.066		
COLUMN 2	2	4.451	4.401	4.501	0.061	0.060	
	3	4.623	4.573	4.673	0.060		
	4	4.665	4.615	4.715	0.057		
	5	4.873	4.823	4.923	0.054		
Aroclor-1260	1	6.992	6.942	7.042	0.052	0.050	19.67
COLUMN 1	2	7.247	7.197	7.297	0.055		
	3	7.602	7.552	7.652	0.042		
	4	7.826	7.776	7.876	0.052		
	5	8.13	8.08	8.18	0.047		
	1	5.884	5.834	5.934	0.058		
COLUMN 2	2	6.071	6.021	6.121	0.067	0.060	
	3	6.221	6.171	6.271	0.068		
	4	6.685	6.635	6.735	0.052		
	5	6.926	6.876	6.976	0.057		

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB159600BSD

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BSD Date(s) Analyzed: 03/15/2024 03/15/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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

Data file PO102528.D

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%RPD	
			FROM	TO				
Aroclor-1016	1	5.41	5.36	5.46	0.057	0.055	6.22	
	2	5.433	5.383	5.483	0.058			
	3	5.494	5.444	5.544	0.056			
	4	5.591	5.541	5.641	0.052			
	5	5.882	5.832	5.932	0.050			
COLUMN 1								
	1	4.433	4.383	4.483	0.062	0.058		
	2	4.451	4.401	4.501	0.059			
	3	4.623	4.573	4.673	0.058			
	4	4.664	4.614	4.714	0.057			
5	4.872	4.822	4.922	0.054				
COLUMN 2								
	1	6.993	6.943	7.043	0.055	0.051	16.16	
	2	7.246	7.196	7.296	0.055			
	3	7.602	7.552	7.652	0.044			
	4	7.826	7.776	7.876	0.053			
5	8.13	8.08	8.18	0.050				
Aroclor-1260								
	1	5.884	5.834	5.934	0.057	0.060		
	2	6.071	6.021	6.121	0.064			
	3	6.22	6.17	6.27	0.073			
	4	6.684	6.634	6.734	0.050			
5	6.926	6.876	6.976	0.056				
COLUMN 1								
COLUMN 2								

QC SAMPLE DATA



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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159587BL	SDG No.:	P1747
Lab Sample ID:	PB159587BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102512.D	1	03/14/24 10:51	03/14/24 19:12	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		21 - 155	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.0		10 - 173	125%	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_O\Data\P0031424\
Data File : P0102512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:12
Operator : YP/AJ
Sample : PB159587BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB159587BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.268	3.383	78419573	52772363	19.132	18.834
2) SA Decachlor...	9.807	8.249	44927589	30817463	23.660	24.997

Target Compounds

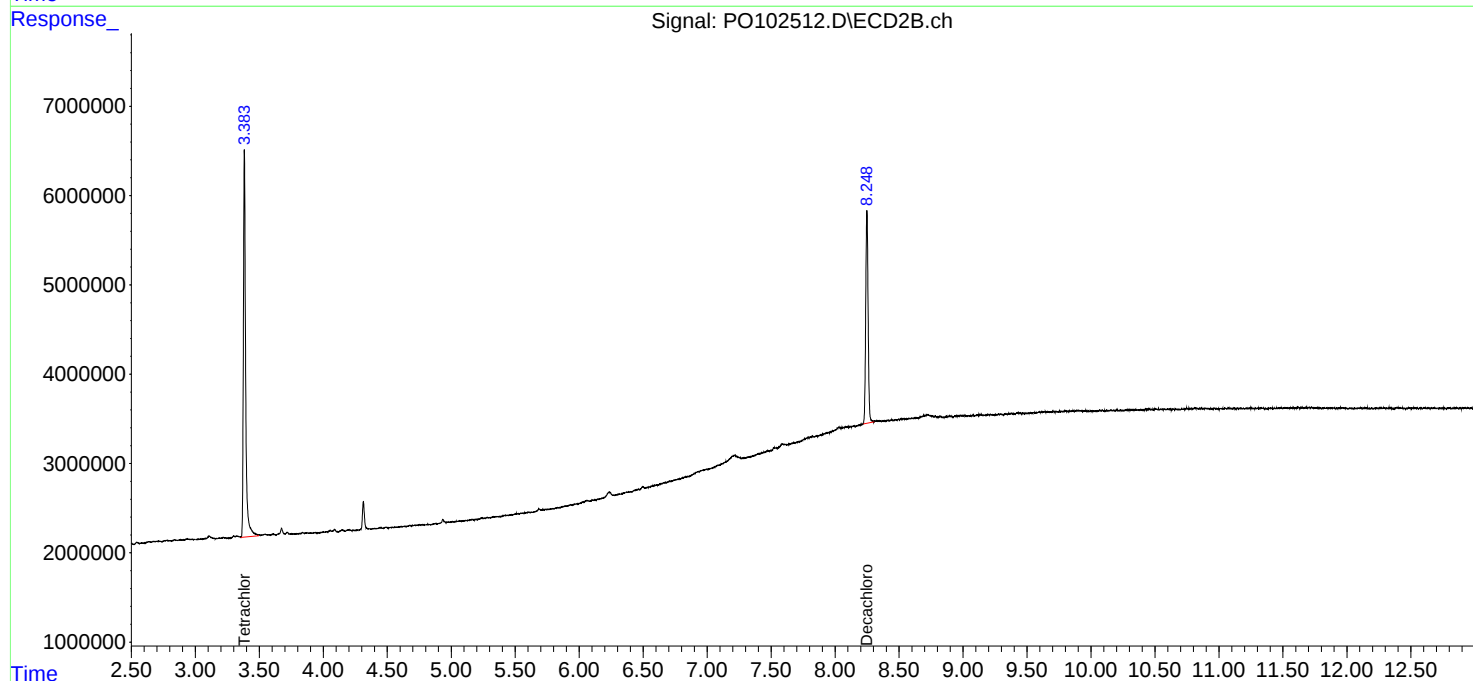
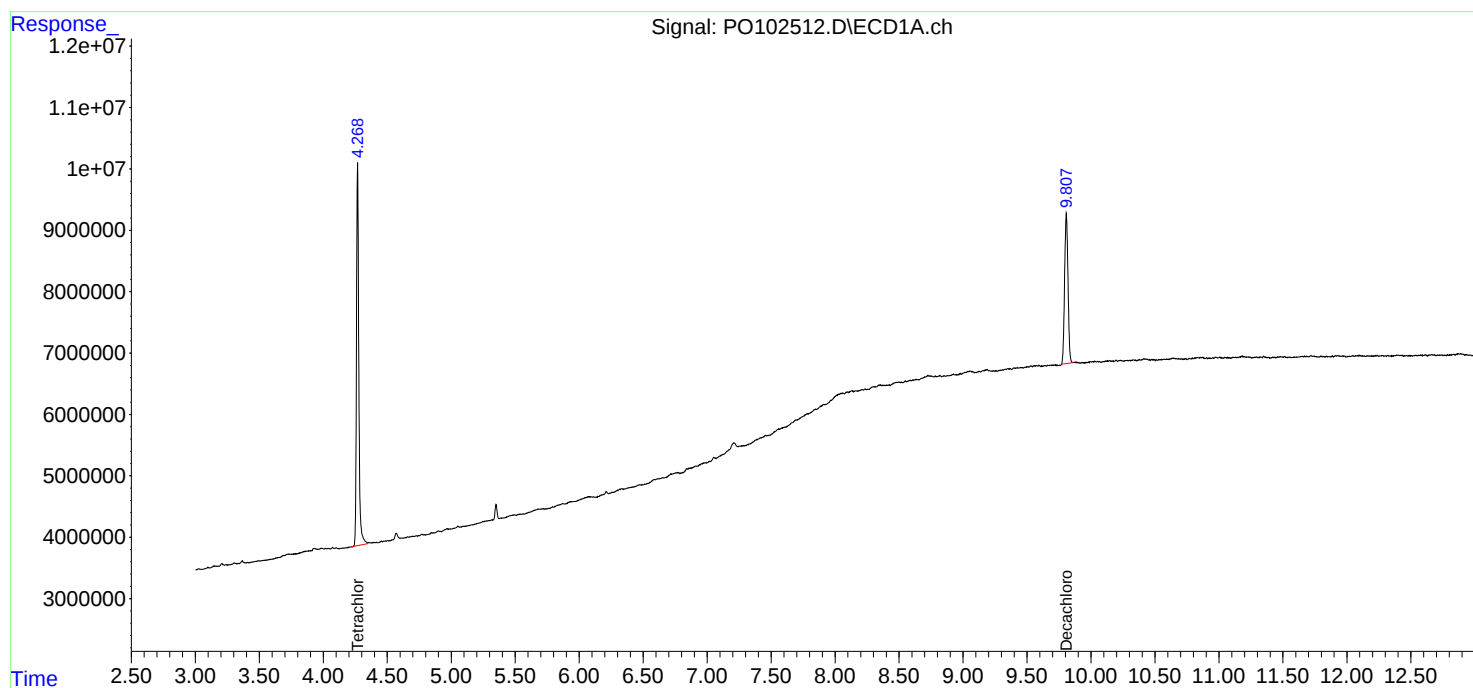
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

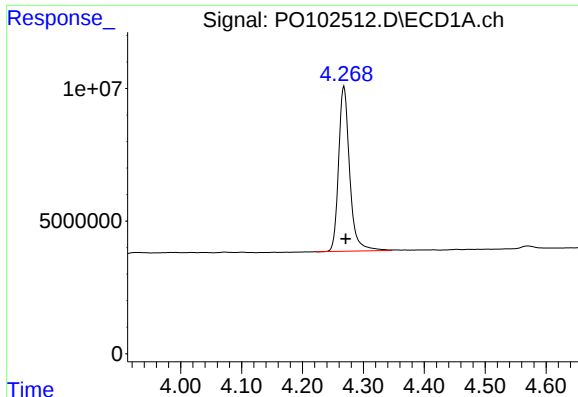
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:12
Operator : YP/AJ
Sample : PB159587BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB159587BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

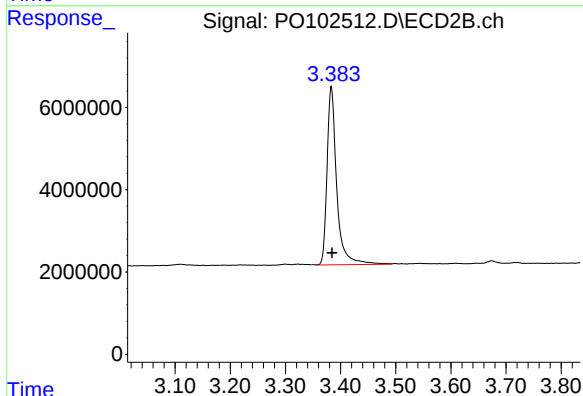




#1 Tetrachloro-m-xylene

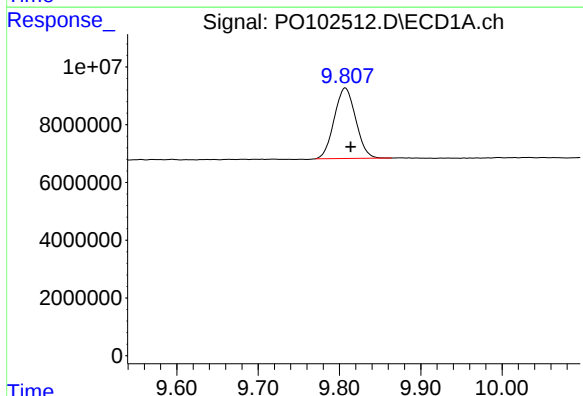
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 78419573
Conc: 19.13 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB159587BL



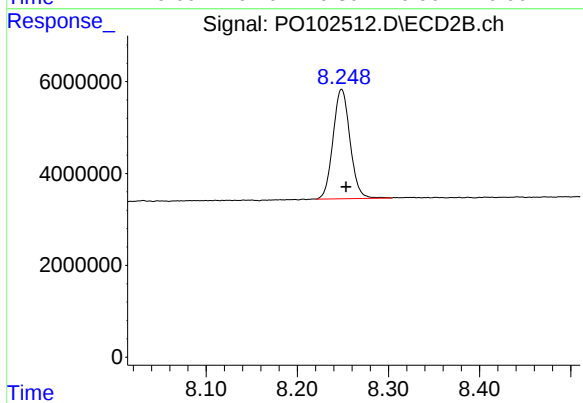
#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 52772363
Conc: 18.83 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.807 min
Delta R.T.: -0.007 min
Response: 44927589
Conc: 23.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.249 min
Delta R.T.: -0.005 min
Response: 30817463
Conc: 25.00 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159600BL	SDG No.:	P1747
Lab Sample ID:	PB159600BL	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102529.D	1	03/14/24 10:05	03/15/24 00:46	PB159600

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.050	U	0.015	0.050	ug/L
11104-28-2	Aroclor-1221	0.050	U	0.023	0.050	ug/L
11141-16-5	Aroclor-1232	0.050	U	0.037	0.050	ug/L
53469-21-9	Aroclor-1242	0.050	U	0.016	0.050	ug/L
12672-29-6	Aroclor-1248	0.050	U	0.012	0.050	ug/L
11097-69-1	Aroclor-1254	0.050	U	0.011	0.050	ug/L
11096-82-5	Aroclor-1260	0.050	U	0.015	0.050	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.6		60 - 140	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		60 - 140	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_O\Data\P0031424\
Data File : P0102529.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:46
Operator : YP/AJ
Sample : PB159600BL
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB159600BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.267	3.383	64461771	43609373	15.727	15.564
2) SA Decachlor...	9.808	8.247	39168640	27297752	20.627	22.142

Target Compounds

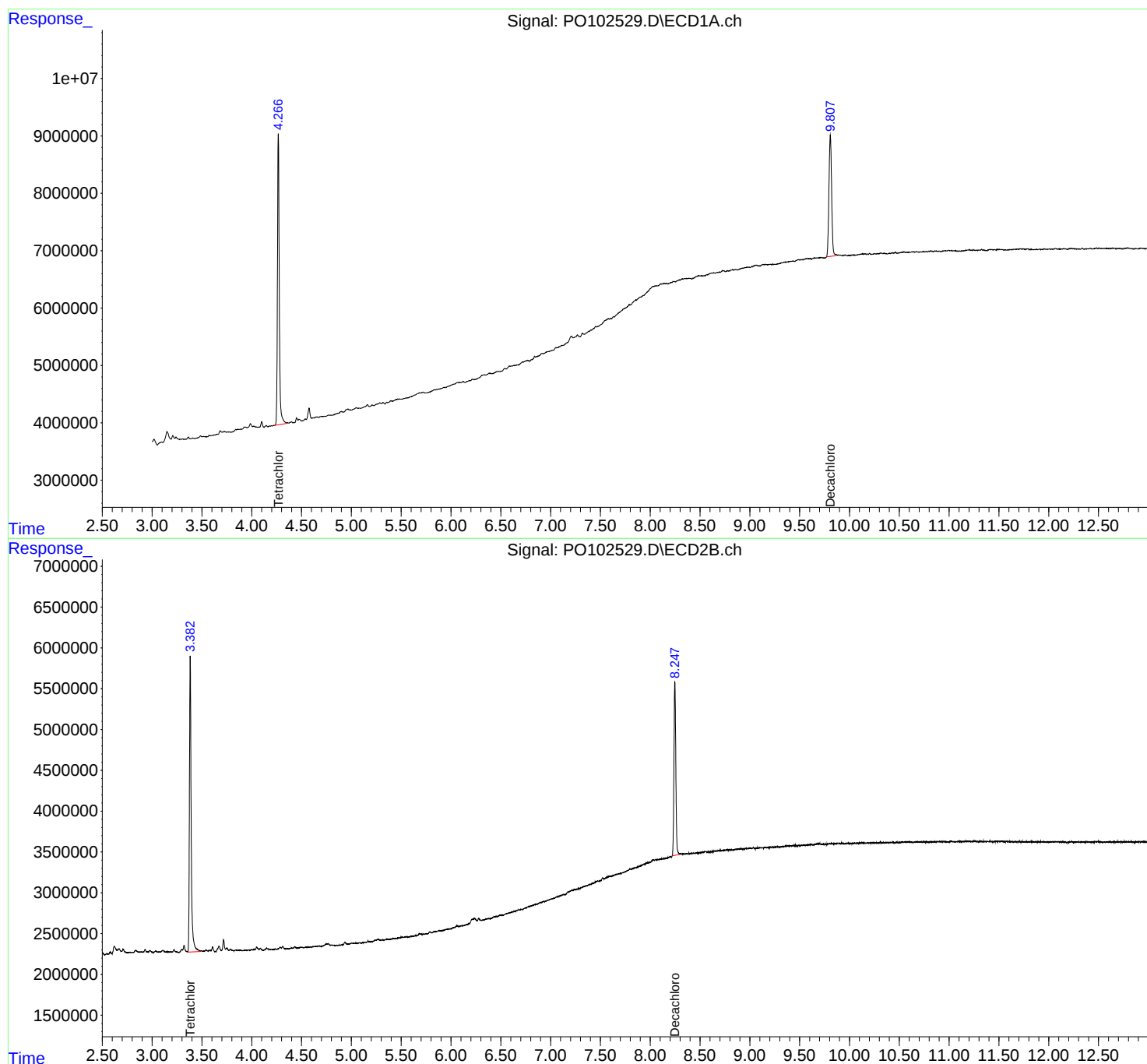
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102529.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:46
Operator : YP/AJ
Sample : PB159600BL
Misc :
ALS Vial : 41 Sample Multiplier: 1

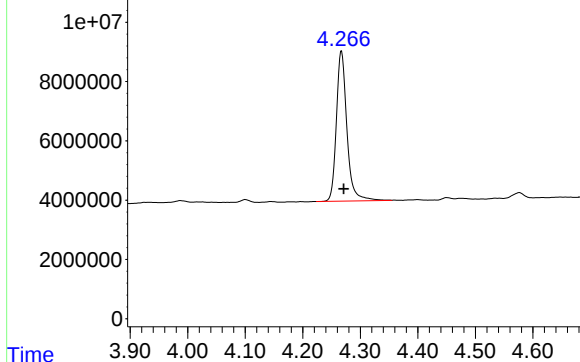
Instrument :
ECD_O
ClientSampleId :
PB159600BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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: PO102529.D\ECD1A.ch

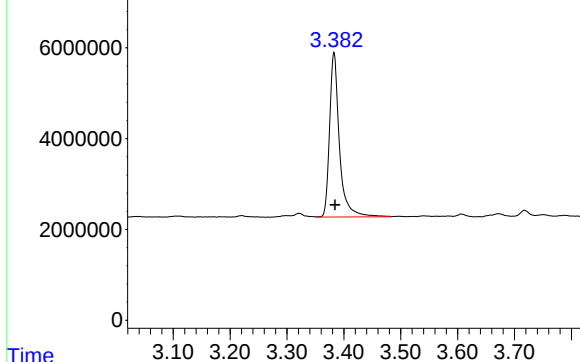


#1 Tetrachloro-m-xylene

R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 64461771
Conc: 15.73 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB159600BL

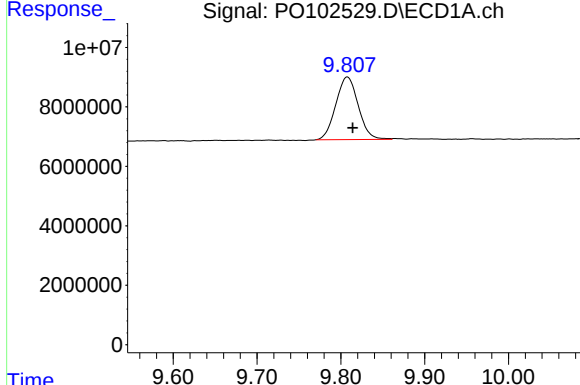
Response_ Signal: PO102529.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 43609373
Conc: 15.56 ng/ml

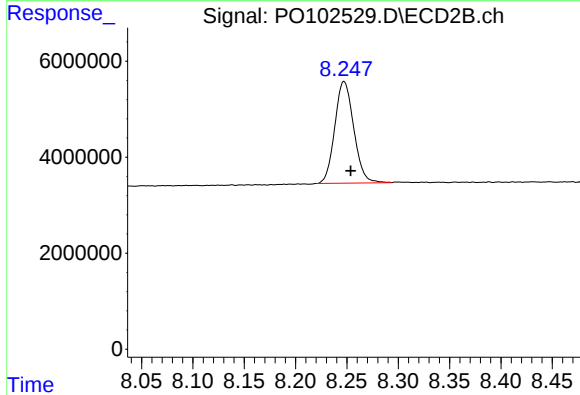
Response_ Signal: PO102529.D\ECD1A.ch



#2 Decachlorobiphenyl

R.T.: 9.808 min
Delta R.T.: -0.006 min
Response: 39168640
Conc: 20.63 ng/ml

Response_ Signal: PO102529.D\ECD2B.ch



#2 Decachlorobiphenyl

R.T.: 8.247 min
Delta R.T.: -0.006 min
Response: 27297752
Conc: 22.14 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/12/24
Client Sample ID:	PIBLK-PO102408.D	SDG No.:	P1747
Lab Sample ID:	I.BLK-PO102408.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102408.D	1		03/12/24	po031224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.6		60 - 140	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.3		60 - 140	92%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0031224\
Data File : P0102408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 14:49
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:53:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.270	3.384	73428161	49309318	17.914	17.598
2) SA Decachlor...	9.814	8.254	34950650	22578257	18.406	18.314

Target Compounds

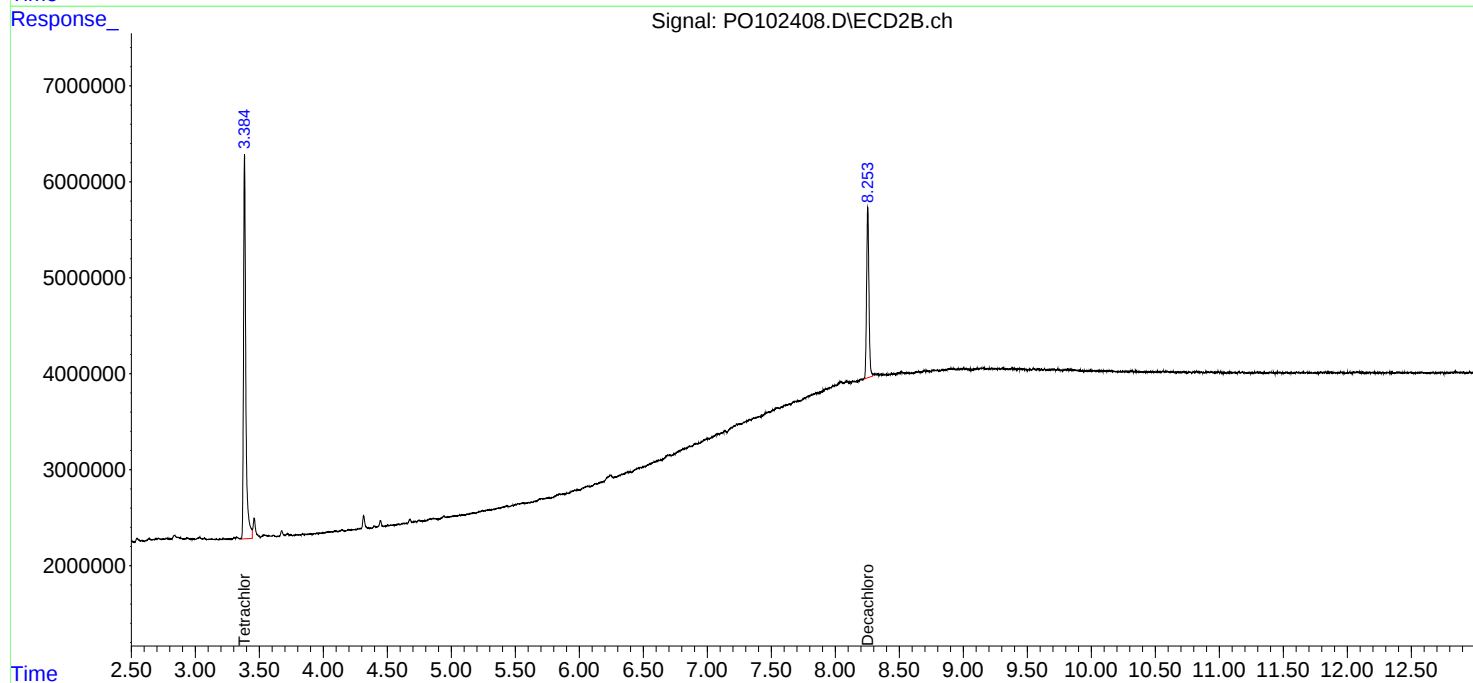
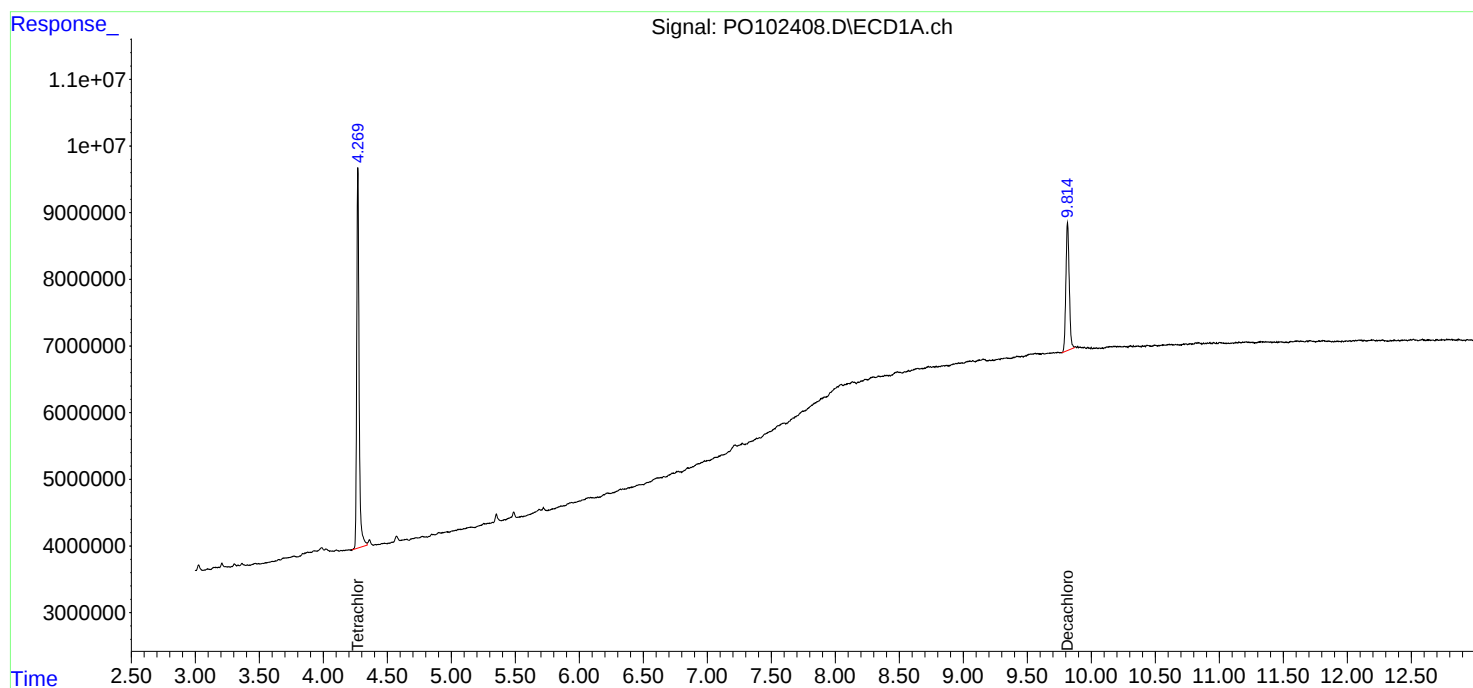
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

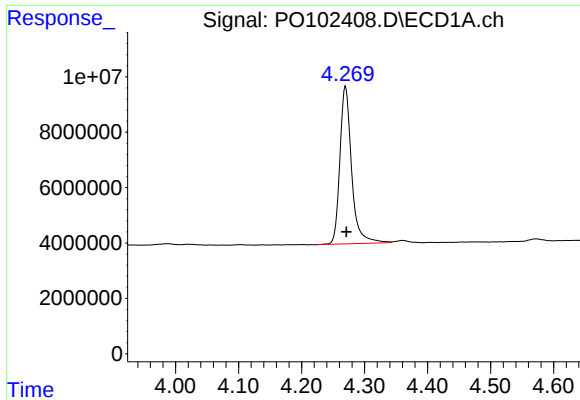
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 14:49
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:53:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

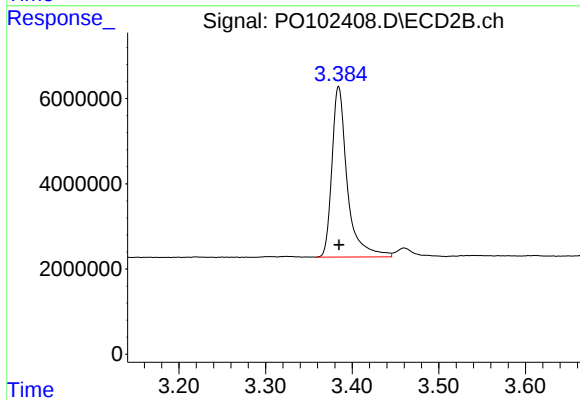




#1 Tetrachloro-m-xylene

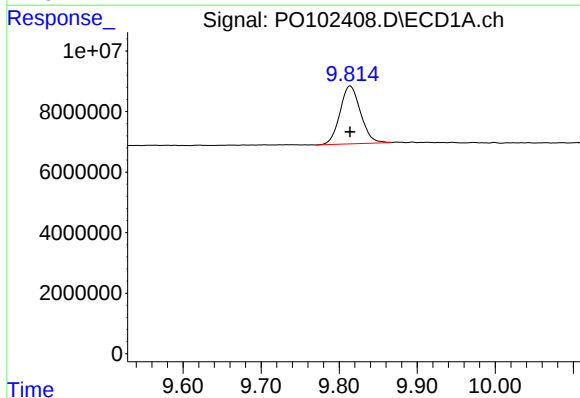
R.T.: 4.270 min
Delta R.T.: -0.001 min
Response: 73428161
Conc: 17.91 ng/ml

Instrument :
ECD_O
ClientSampleId :
I.BLK



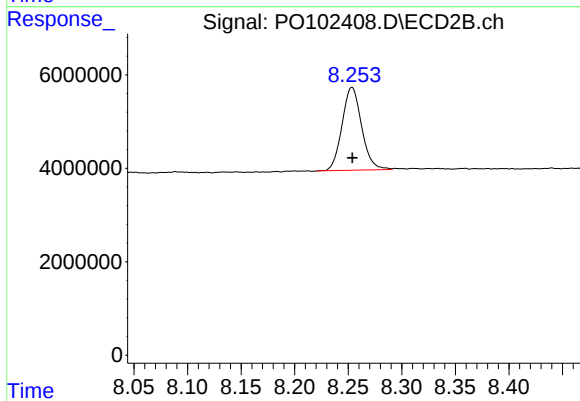
#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 49309318
Conc: 17.60 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.814 min
Delta R.T.: 0.000 min
Response: 34950650
Conc: 18.41 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.254 min
Delta R.T.: 0.000 min
Response: 22578257
Conc: 18.31 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/14/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/14/24
Client Sample ID:	PIBLK-PO102500.D	SDG No.:	P1747
Lab Sample ID:	I.BLK-PO102500.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
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
PO102500.D	1		03/14/24	PO031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		60 - 140	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	26.1		60 - 140	131%	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_O\Data\P0031424\
Data File : P0102500.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.268	3.383	81830359	55857241	19.964	19.935
2) SA Decachlor...	9.809	8.250	49664851	33857869	26.155	27.463

Target Compounds

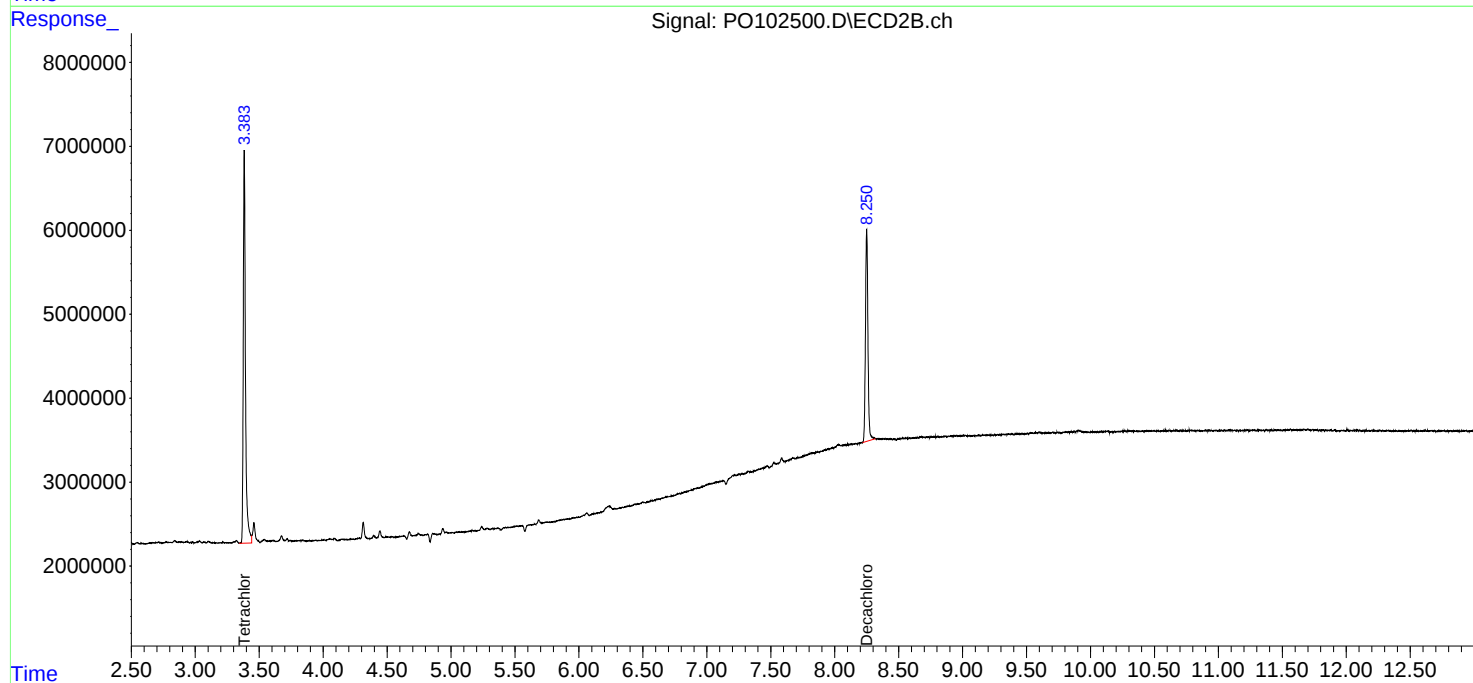
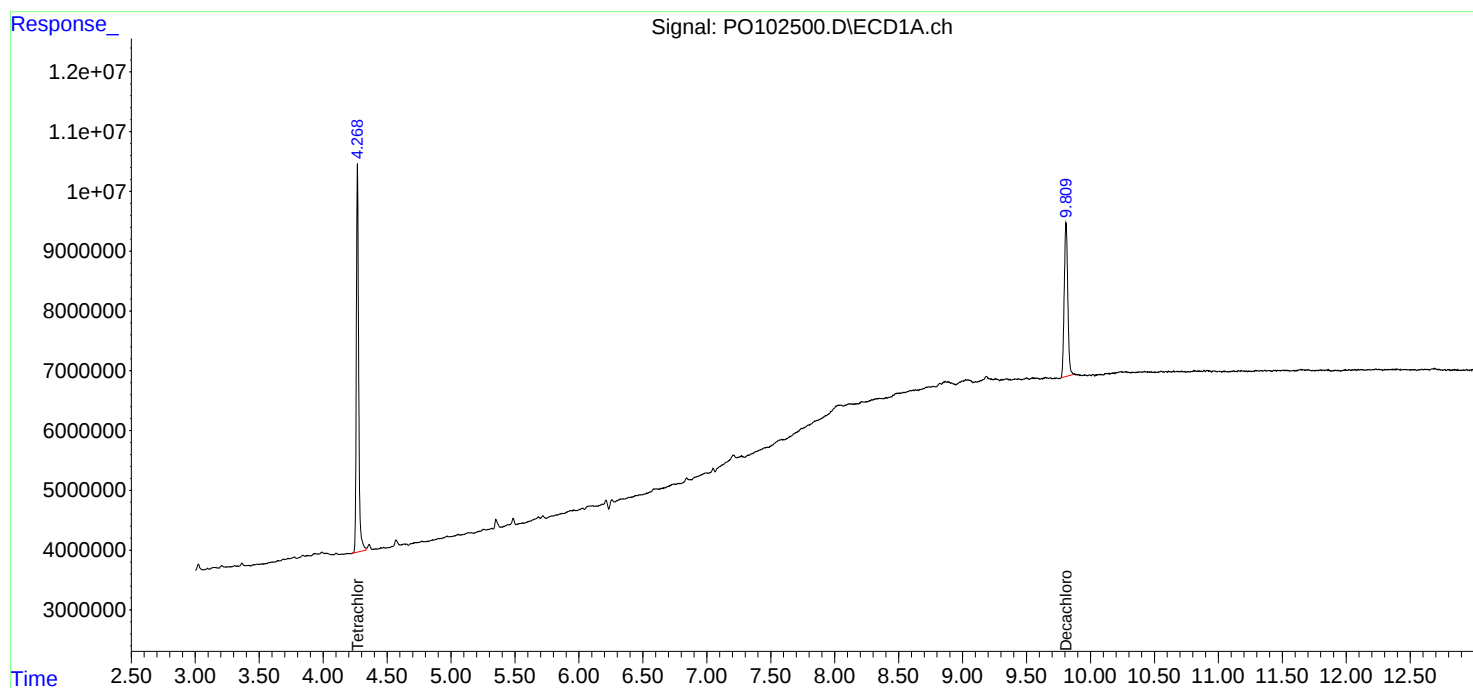
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

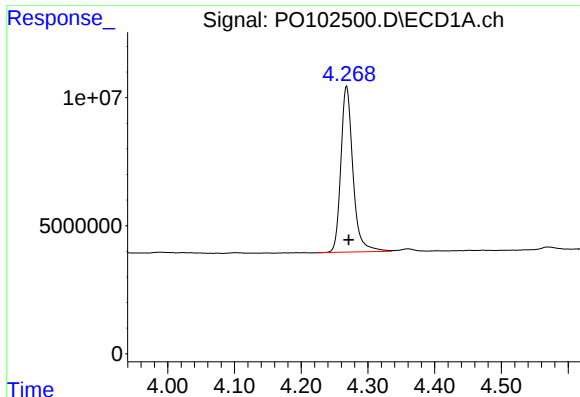
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102500.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

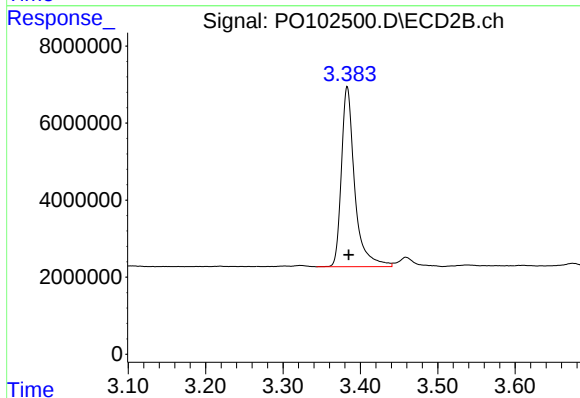




#1 Tetrachloro-m-xylene

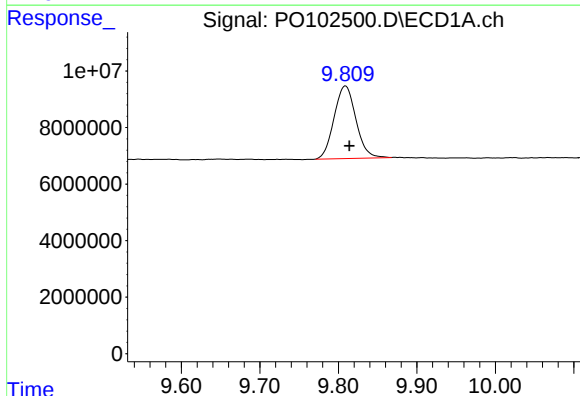
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 81830359
Conc: 19.96 ng/ml

Instrument :
ECD_O
ClientSampleId :
I.BLK



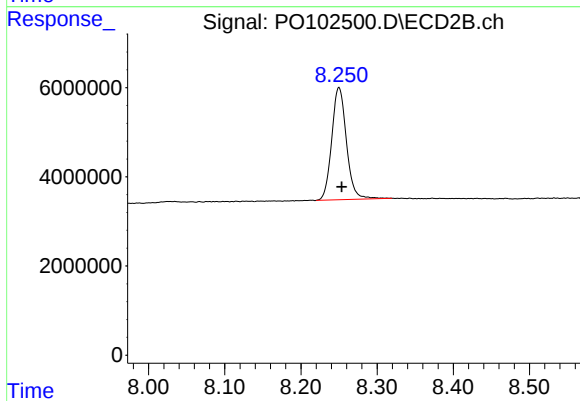
#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 55857241
Conc: 19.93 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.809 min
Delta R.T.: -0.005 min
Response: 49664851
Conc: 26.15 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.250 min
Delta R.T.: -0.004 min
Response: 33857869
Conc: 27.46 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/14/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/14/24
Client Sample ID:	PIBLK-PO102520.D	SDG No.:	P1747
Lab Sample ID:	I.BLK-PO102520.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102520.D	1		03/14/24	PO031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		60 - 140	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.7		60 - 140	138%	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_O\Data\P0031424\
Data File : P0102520.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:43
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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...	4.267	3.382	84847196	58556921	20.700	20.898
2) SA Decachlor...	9.806	8.248	52518862	36646649	27.658	29.726

Target Compounds

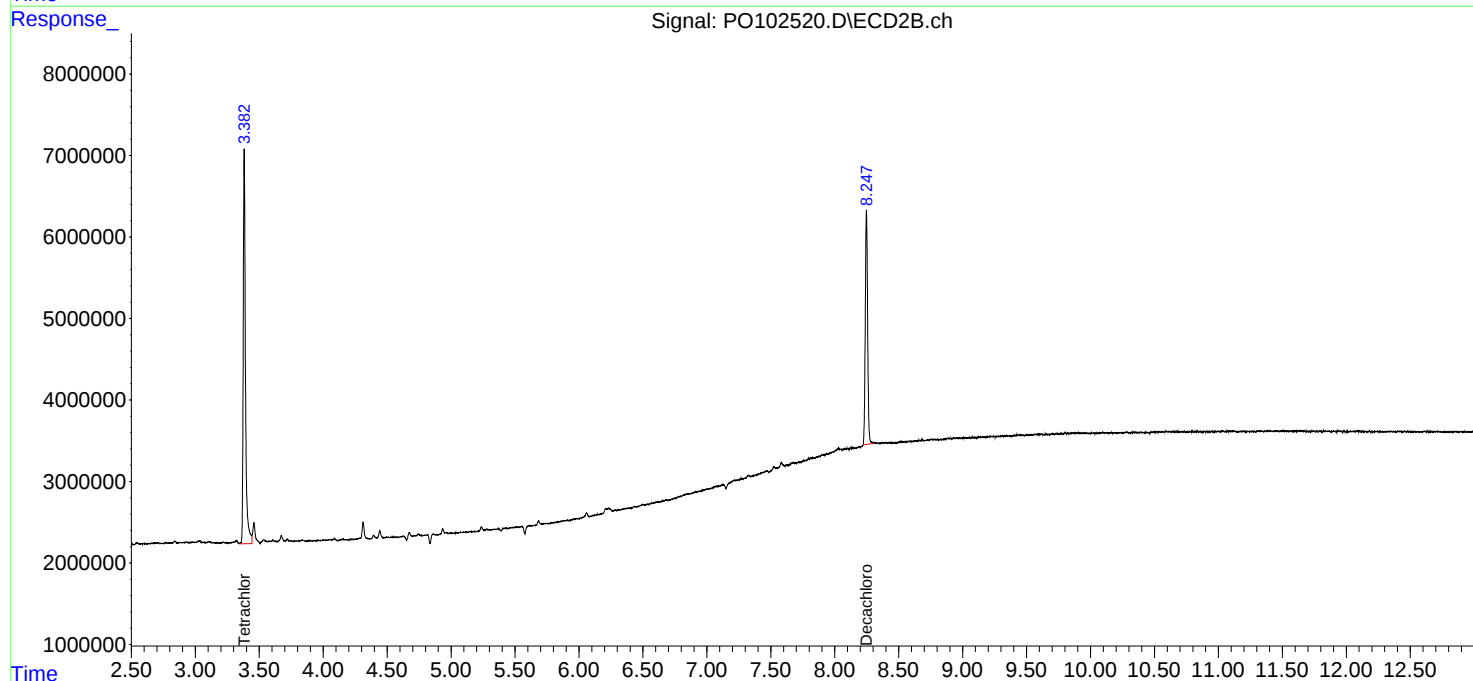
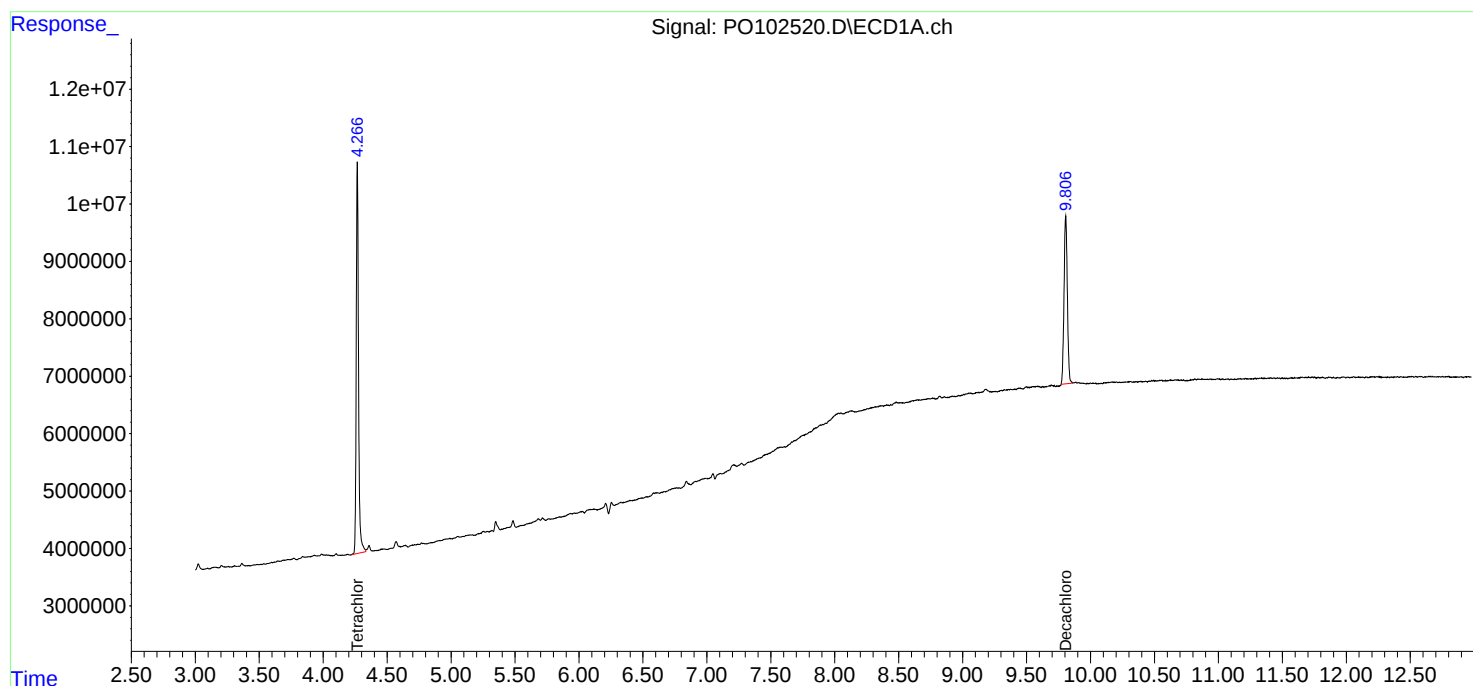
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

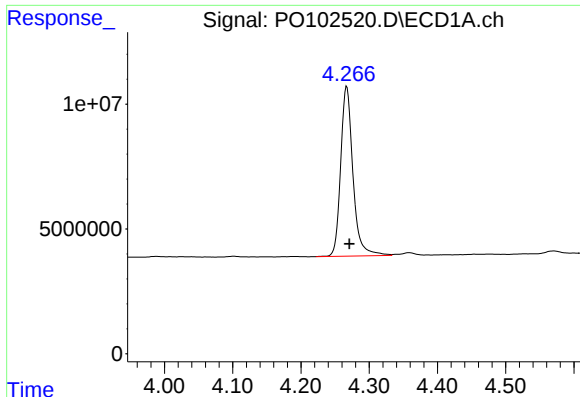
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102520.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:43
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

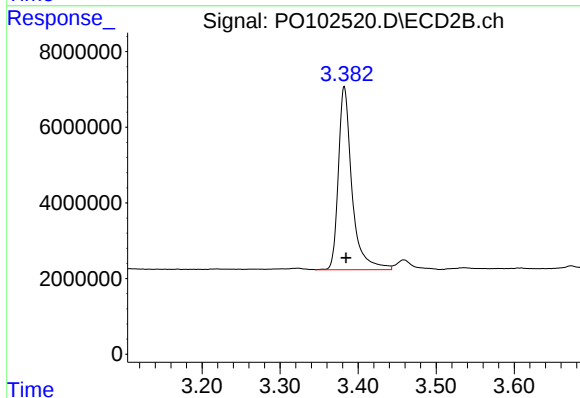




#1 Tetrachloro-m-xylene

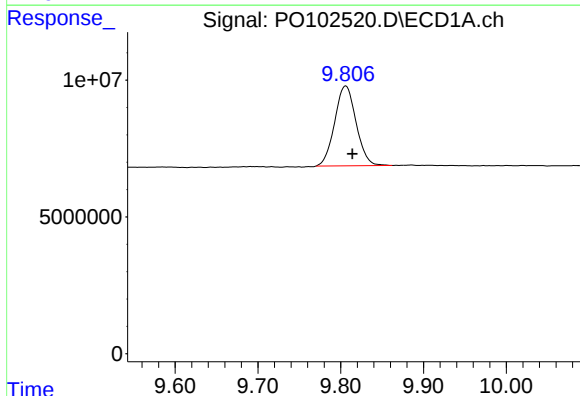
R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 84847196
Conc: 20.70 ng/ml

Instrument :
ECD_O
ClientSampleId :
I.BLK



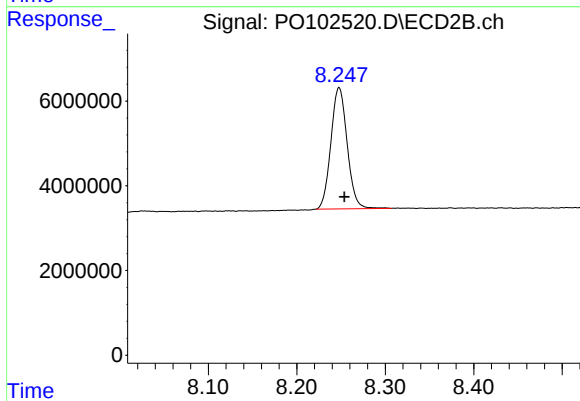
#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: -0.002 min
Response: 58556921
Conc: 20.90 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 52518862
Conc: 27.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 36646649
Conc: 29.73 ng/ml



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/15/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/15/24
Client Sample ID:	PIBLK-PO102532.D	SDG No.:	P1747
Lab Sample ID:	I.BLK-PO102532.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102532.D	1		03/15/24	PO031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		60 - 140	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	28.0		60 - 140	140%	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_O\Data\P0031424\
 Data File : P0102532.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Mar 2024 02:06
 Operator : YP/AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 04:41:46 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.266	3.382	86933549	59476177	21.209	21.226
2) SA Decachlor...	9.806	8.247	53134597	36627686	27.982	29.710

Target Compounds

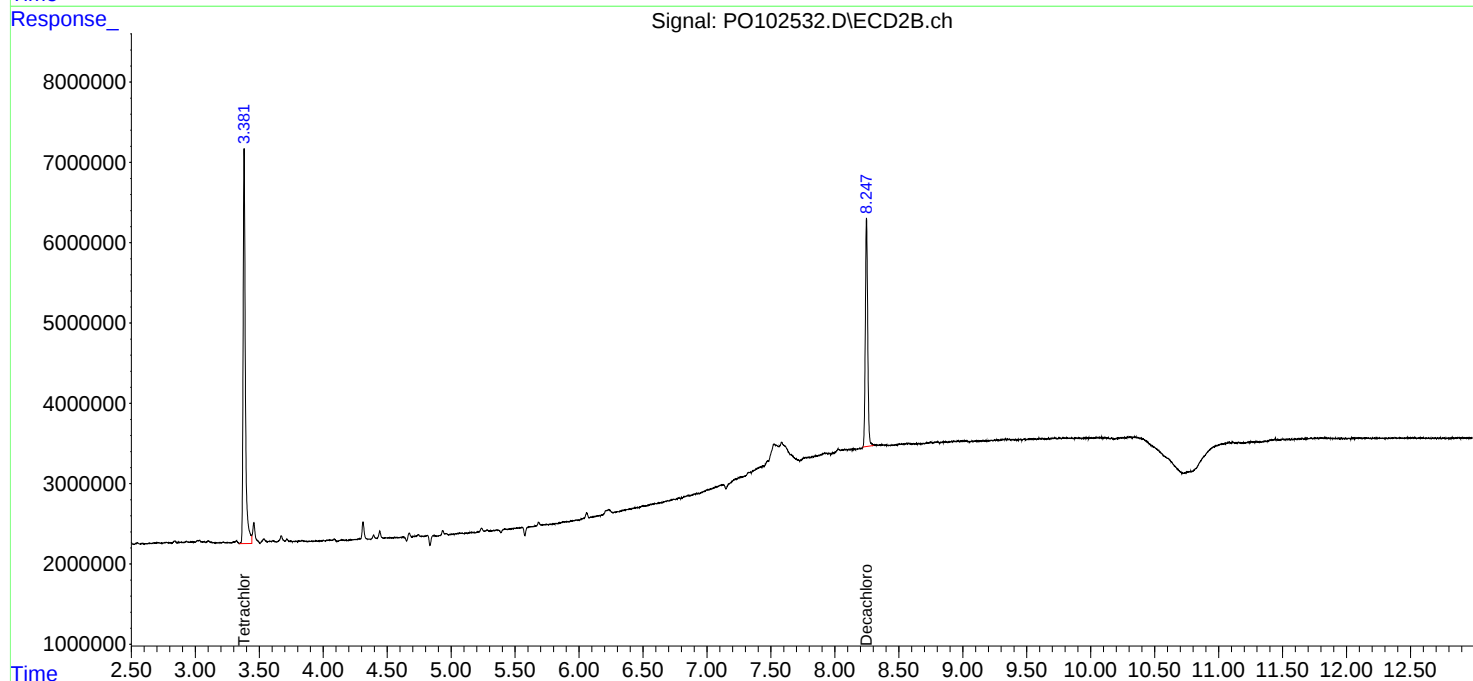
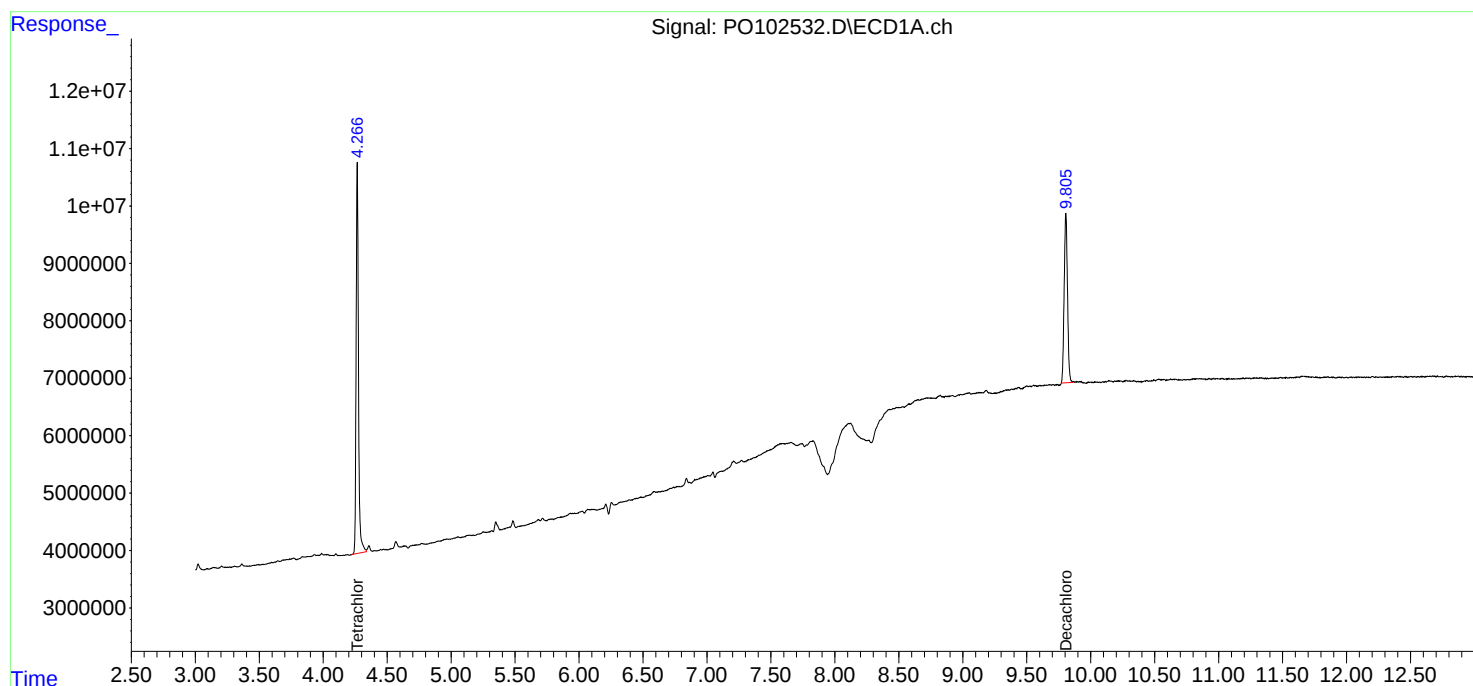
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_0\Data\PO031424\
Data File : PO102532.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 02:06
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_0\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

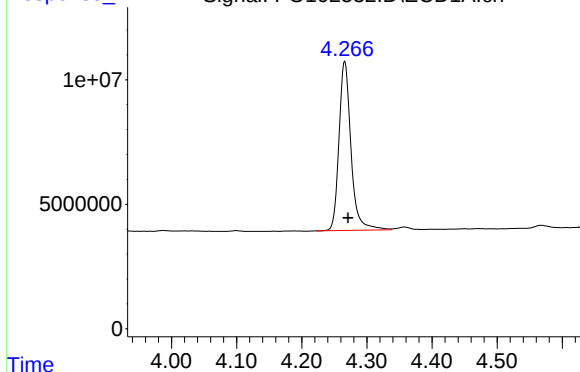
Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PO102532.D\ECD1A.ch

#1 Tetrachloro-m-xylene



R.T.: 4.266 min
Delta R.T.: -0.005 min
Response: 86933549
Conc: 21.21 ng/ml

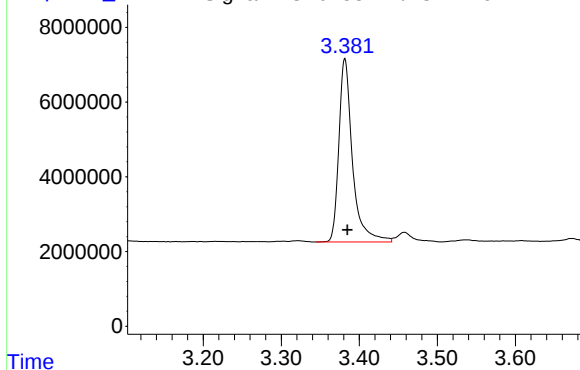
Instrument :
ECD_O
ClientSampleId :
I.BLK

Time

Response_

Signal: PO102532.D\ECD2B.ch

#1 Tetrachloro-m-xylene



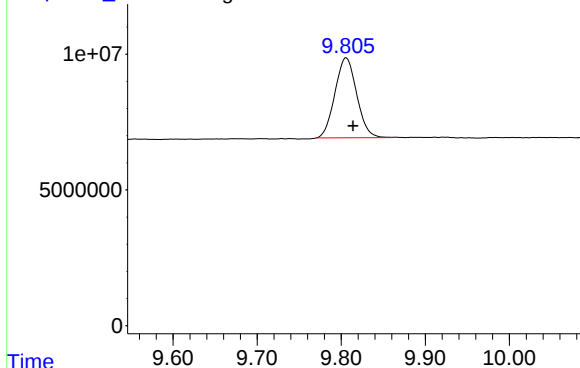
R.T.: 3.382 min
Delta R.T.: -0.003 min
Response: 59476177
Conc: 21.23 ng/ml

Time

Response_

Signal: PO102532.D\ECD1A.ch

#2 Decachlorobiphenyl



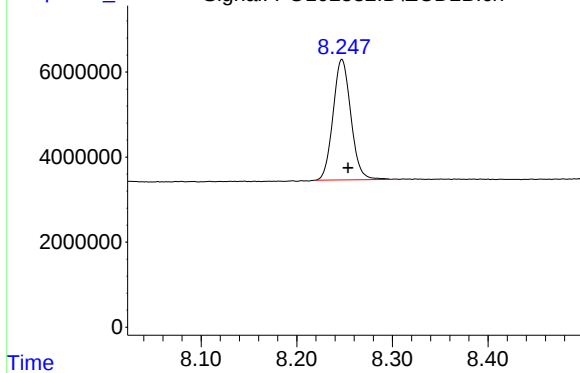
R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 53134597
Conc: 27.98 ng/ml

Time

Response_

Signal: PO102532.D\ECD2B.ch

#2 Decachlorobiphenyl



R.T.: 8.247 min
Delta R.T.: -0.006 min
Response: 36627686
Conc: 29.71 ng/ml

Time



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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159587BS	SDG No.:	P1747
Lab Sample ID:	PB159587BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102513.D	1	03/14/24 10:51	03/14/24 19:29	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.30		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	5.20		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		21 - 155	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.7		10 - 173	128%	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_O\Data\P0031424\
 Data File : P0102513.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 19:29
 Operator : YP/AJ
 Sample : PB159587BS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 PB159587BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 14 20:28:31 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	82054408	49595068	20.019	17.700
2) SA Decachlor...	9.806	8.248	45875129	31632105	24.159	25.658
Target Compounds						
3) L1 AR-1016-1	5.412	4.434	53072985	33414917	531.227	533.261
4) L1 AR-1016-2	5.434	4.452	77643677	47513827	535.342	547.734
5) L1 AR-1016-3	5.495	4.624	50133125	26548917	536.501	528.278
6) L1 AR-1016-4	5.592	4.665	40154621	24084225	530.812	511.821
7) L1 AR-1016-5	5.882	4.873	41073659	28953615	501.975	503.595
31) L7 AR-1260-1	6.992	5.885	68288328	53800422	498.595	512.656
32) L7 AR-1260-2	7.247	6.071	72654671	61238326	551.450	560.118
33) L7 AR-1260-3	7.603	6.220	47053457	58279204	461.516	516.777
34) L7 AR-1260-4	7.825	6.685	56705261	41227901	490.301	483.258
35) L7 AR-1260-5	8.131	6.926	99453482	88244516	511.569	544.917

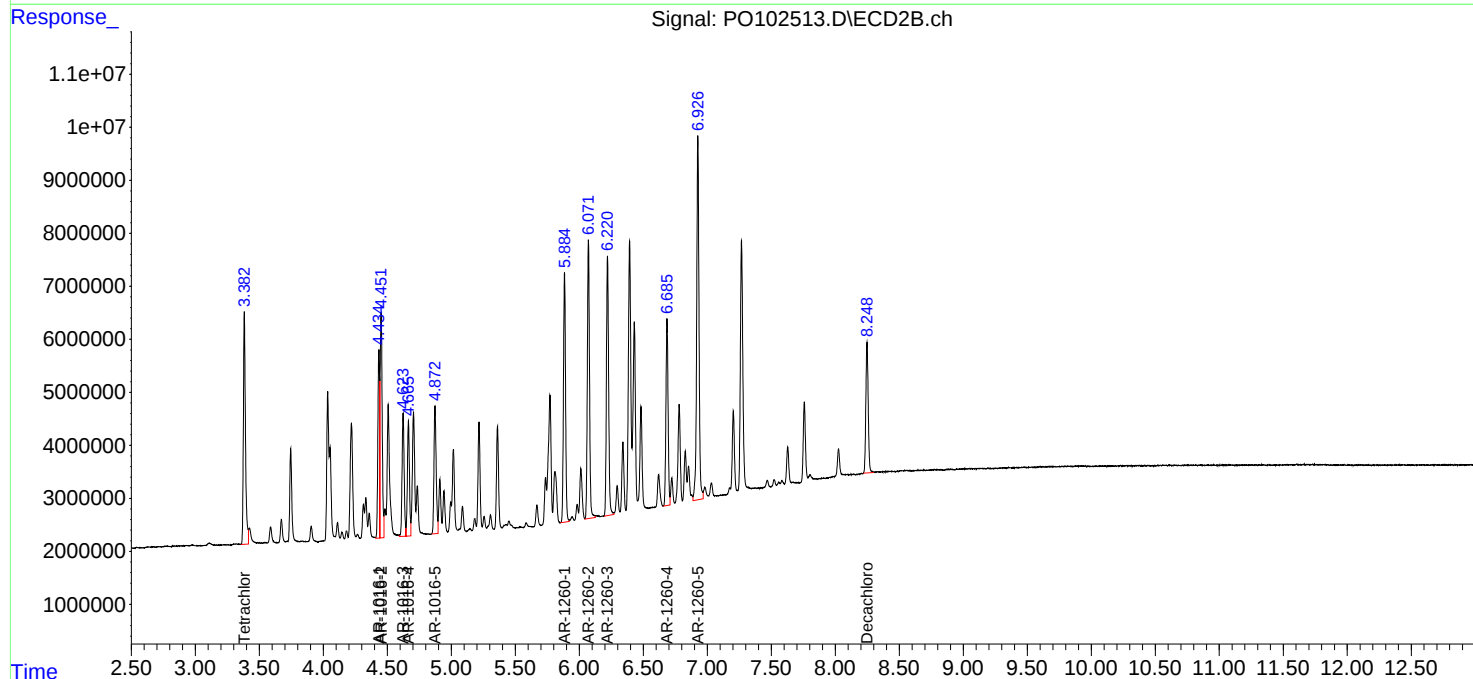
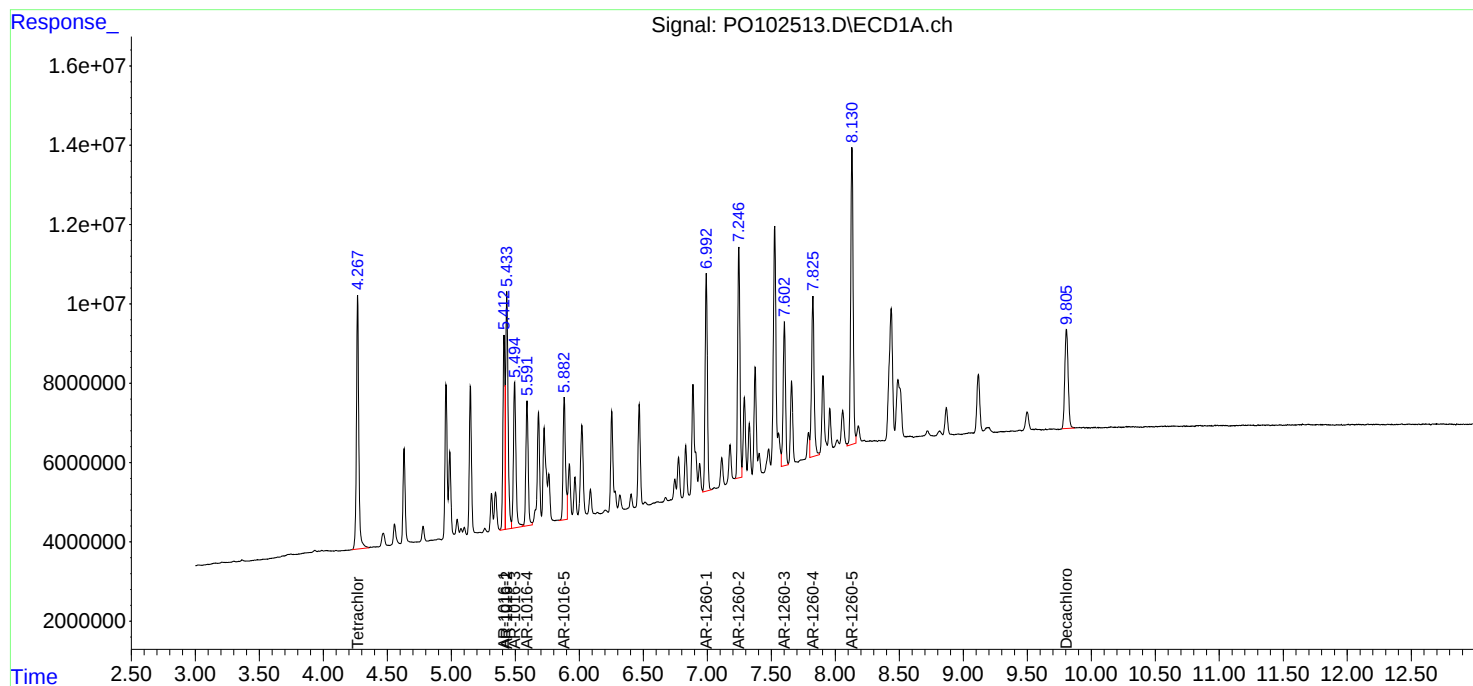
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102513.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:29
Operator : YP/AJ
Sample : PB159587BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB159587BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:28:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159600BS	SDG No.:	P1747
Lab Sample ID:	PB159600BS	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102527.D	1	03/14/24 10:05	03/15/24 00:12	PB159600

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.053		0.015	0.050	ug/L
11104-28-2	Aroclor-1221	0.050	U	0.023	0.050	ug/L
11141-16-5	Aroclor-1232	0.050	U	0.037	0.050	ug/L
53469-21-9	Aroclor-1242	0.050	U	0.016	0.050	ug/L
12672-29-6	Aroclor-1248	0.050	U	0.012	0.050	ug/L
11097-69-1	Aroclor-1254	0.050	U	0.011	0.050	ug/L
11096-82-5	Aroclor-1260	0.050	J	0.015	0.050	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.7		60 - 140	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		60 - 140	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_O\Data\P0031424\
 Data File : P0102527.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Mar 2024 00:12
 Operator : YP/AJ
 Sample : PB159600BS
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 PB159600BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/15/2024
 Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 04:39:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	64380422	44110181	15.707	15.742
2) SA Decachlor...	9.807	8.249	39237328	27262464	20.663	22.114
Target Compounds						
3) L1 AR-1016-1	5.411	4.433	5862975	4155492	58.685m	66.317m
4) L1 AR-1016-2	5.434	4.451	8012888	5310933	55.248m	61.224m
5) L1 AR-1016-3	5.494	4.623	4897047	3022210	52.406m	60.137m
6) L1 AR-1016-4	5.591	4.665	3912402	2701274	51.719m	57.406m
7) L1 AR-1016-5	5.882	4.873	3859417	3115855	47.167m	54.195m
31) L7 AR-1260-1	6.992	5.884	7144974	6112652	52.168m	58.247m
32) L7 AR-1260-2	7.247	6.071	7301245	7331796	55.417	67.060m
33) L7 AR-1260-3	7.602	6.221	4246549	7642069	41.652m	67.764m#
34) L7 AR-1260-4	7.826	6.685	5956422	4415769	51.502	51.760
35) L7 AR-1260-5	8.130	6.926	9136112	9204604	46.994m	56.839

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102527.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:12
Operator : YP/AJ
Sample : PB159600BS
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :

ECD_O

ClientSampleId :

PB159600BS

Manual Integrations

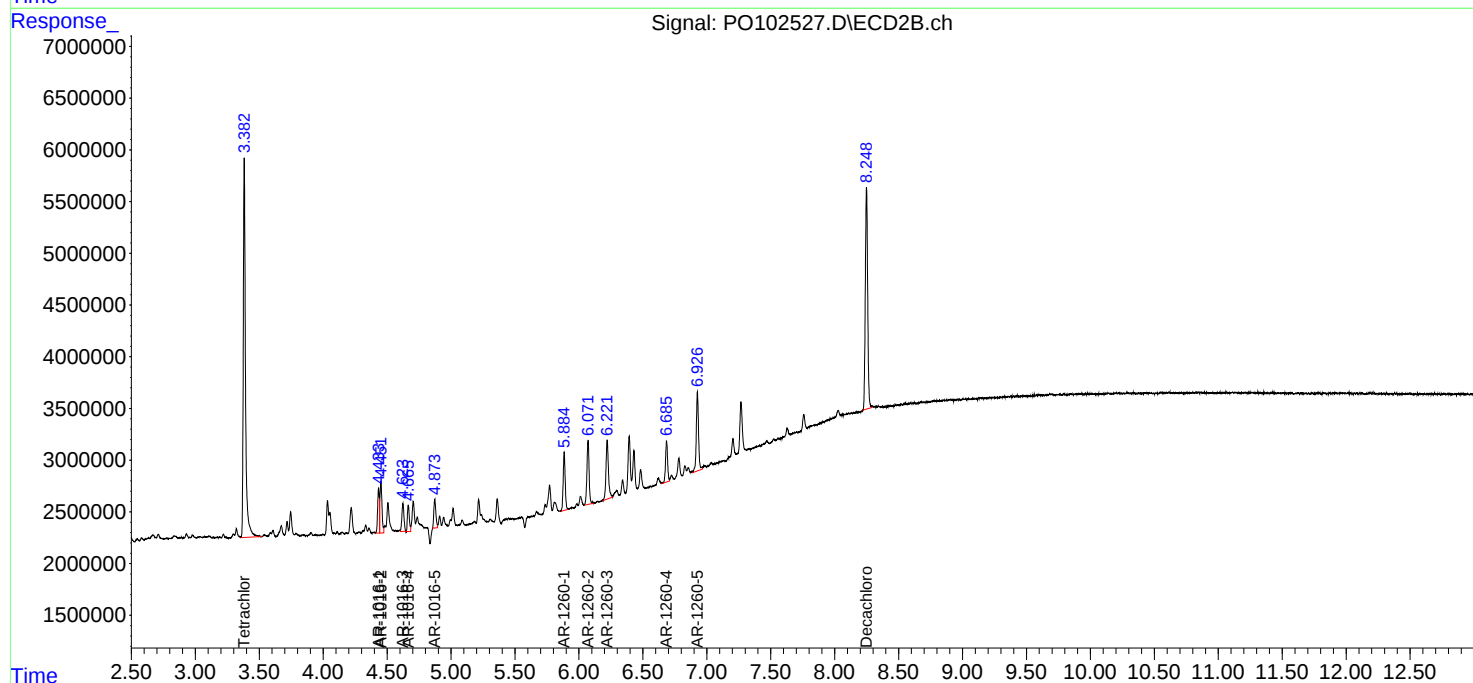
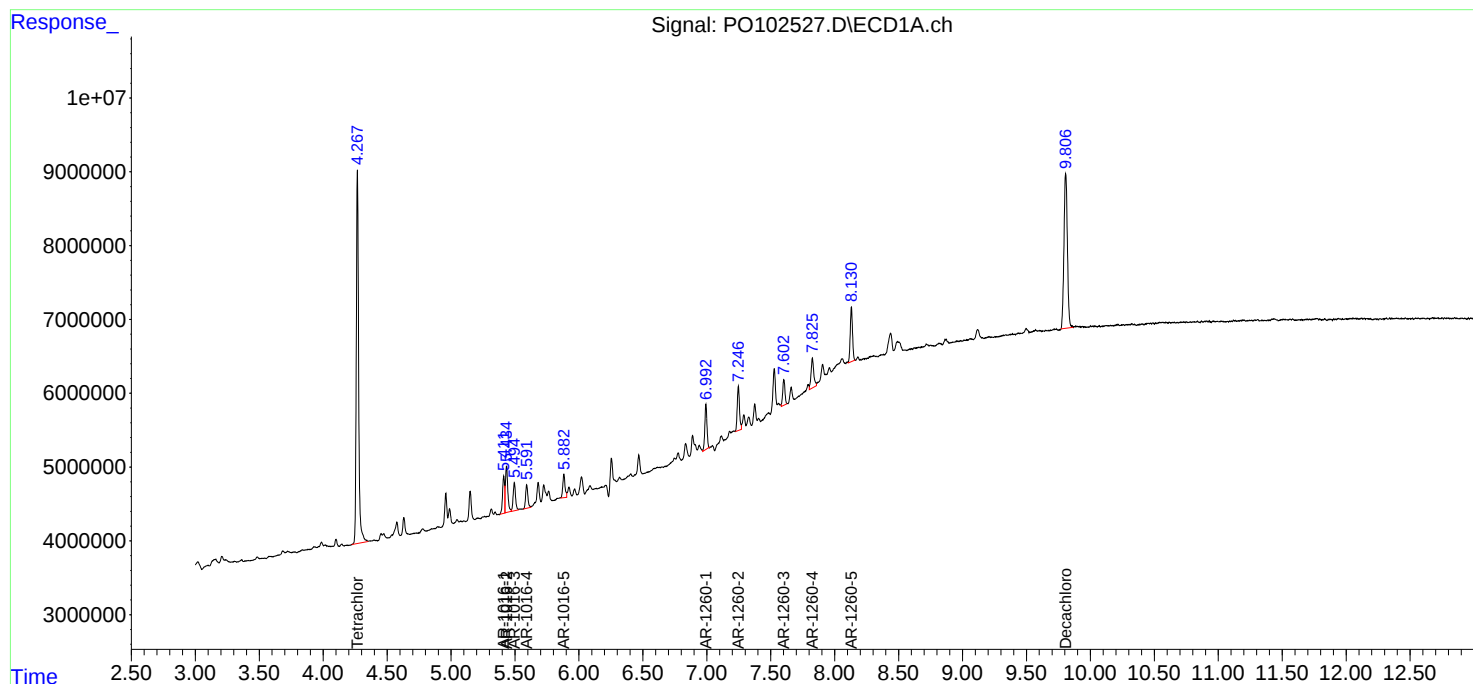
APPROVED

Reviewed By :Yogesh Patel 03/15/2024

Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:39:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159587BSD	SDG No.:	P1747
Lab Sample ID:	PB159587BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102514.D	1	03/14/24 10:51	03/14/24 19:46	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.20		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	5.20		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		21 - 155	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.1		10 - 173	126%	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_O\Data\P0031424\
 Data File : P0102514.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 14 Mar 2024 19:46
 Operator : YP/AJ
 Sample : PB159587BSD
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 PB159587BSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 14 20:29:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	79792094	49136647	19.467	17.536
2) SA Decachlor...	9.806	8.248	45053053	31002084	23.726	25.147
Target Compounds						
3) L1 AR-1016-1	5.412	4.434	51659845	32836941	517.082	524.037
4) L1 AR-1016-2	5.434	4.452	75408448	46757618	519.931	539.017
5) L1 AR-1016-3	5.495	4.623	48370116	26267766	517.634	522.684
6) L1 AR-1016-4	5.592	4.665	39059657	23920438	516.337	508.340
7) L1 AR-1016-5	5.882	4.872	40415106	28689440	493.927	499.001
31) L7 AR-1260-1	6.993	5.884	67899341	53309118	495.755	507.975
32) L7 AR-1260-2	7.247	6.071	71855792	60648285	545.386	554.721
33) L7 AR-1260-3	7.602	6.221	47073583	57785471	461.713	512.399
34) L7 AR-1260-4	7.826	6.685	56228125	40761241	486.175	477.788
35) L7 AR-1260-5	8.131	6.926	97938618	87150042	503.777	538.158

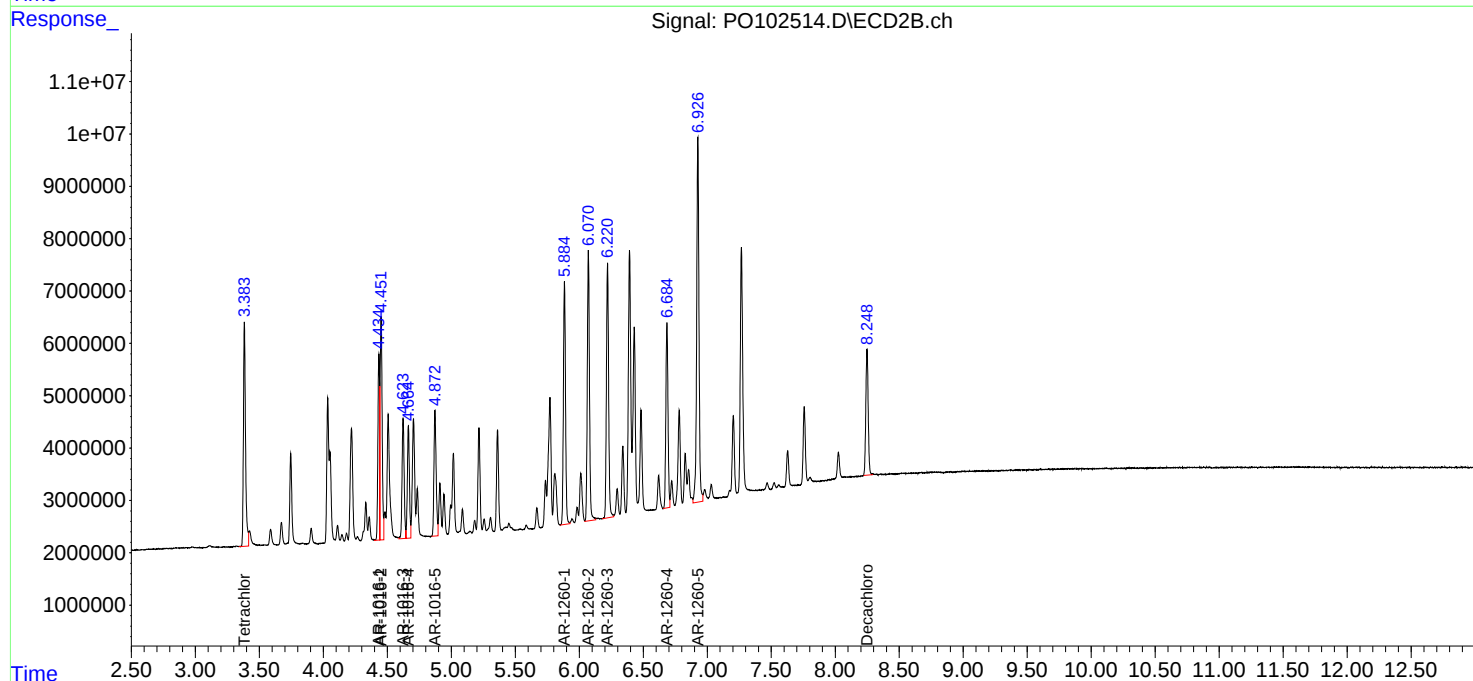
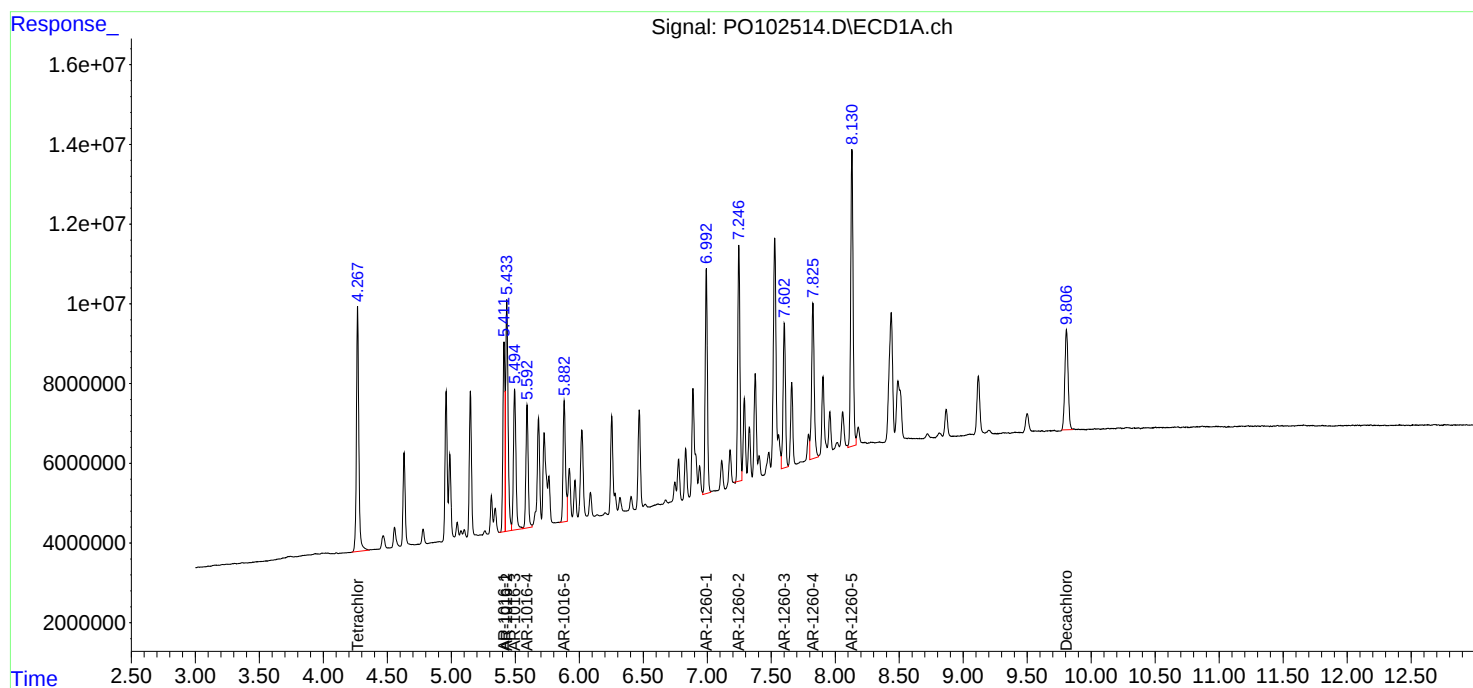
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102514.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:46
Operator : YP/AJ
Sample : PB159587BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB159587BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:29:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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:	LiRo Engineers, Inc.	Date Collected:	
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	
Client Sample ID:	PB159600BSD	SDG No.:	P1747
Lab Sample ID:	PB159600BSD	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102528.D	1	03/14/24 10:05	03/15/24 00:29	PB159600

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.055		0.015	0.050	ug/L
11104-28-2	Aroclor-1221	0.050	U	0.023	0.050	ug/L
11141-16-5	Aroclor-1232	0.050	U	0.037	0.050	ug/L
53469-21-9	Aroclor-1242	0.050	U	0.016	0.050	ug/L
12672-29-6	Aroclor-1248	0.050	U	0.012	0.050	ug/L
11097-69-1	Aroclor-1254	0.050	U	0.011	0.050	ug/L
11096-82-5	Aroclor-1260	0.051		0.015	0.050	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.4		60 - 140	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		60 - 140	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_O\Data\P0031424\
 Data File : P0102528.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Mar 2024 00:29
 Operator : YP/AJ
 Sample : PB159600BSD
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 PB159600BSD

Manual Integrations APPROVED

Reviewed By :Yogesh
 Patel
 03/15/2024

Supervised By :Ankita
 Jodhani
 03/15/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 15 04:40:01 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0031224.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Mar 13 04:51:15 2024
 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...	4.268	3.383	66675692	43245786	16.267	15.434
2) SA Decachlor...	9.806	8.249	38975362	27430505	20.525	22.250
Target Compounds						
3) L1 AR-1016-1	5.410	4.433	5662600	3906383	56.679m	62.341
4) L1 AR-1016-2	5.433	4.451	8345731	5147858	57.543	59.344
5) L1 AR-1016-3	5.494	4.623	5206190	2895099	55.714	57.608
6) L1 AR-1016-4	5.591	4.664	3945661	2684057	52.158	57.040
7) L1 AR-1016-5	5.882	4.872	4105267	3078955	50.172	53.553
31) L7 AR-1260-1	6.993	5.884	7484942	6022293	54.650	57.386
32) L7 AR-1260-2	7.246	6.071	7209302	6977507	54.719	63.820
33) L7 AR-1260-3	7.602	6.220	4455949	8269663	43.705	73.329 #
34) L7 AR-1260-4	7.826	6.684	6139546	4285528	53.085	50.233
35) L7 AR-1260-5	8.130	6.926	9655515	9091189	49.666m	56.139

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102528.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:29
Operator : YP/AJ
Sample : PB159600BSD
Misc :
ALS Vial : 40 Sample Multiplier: 1

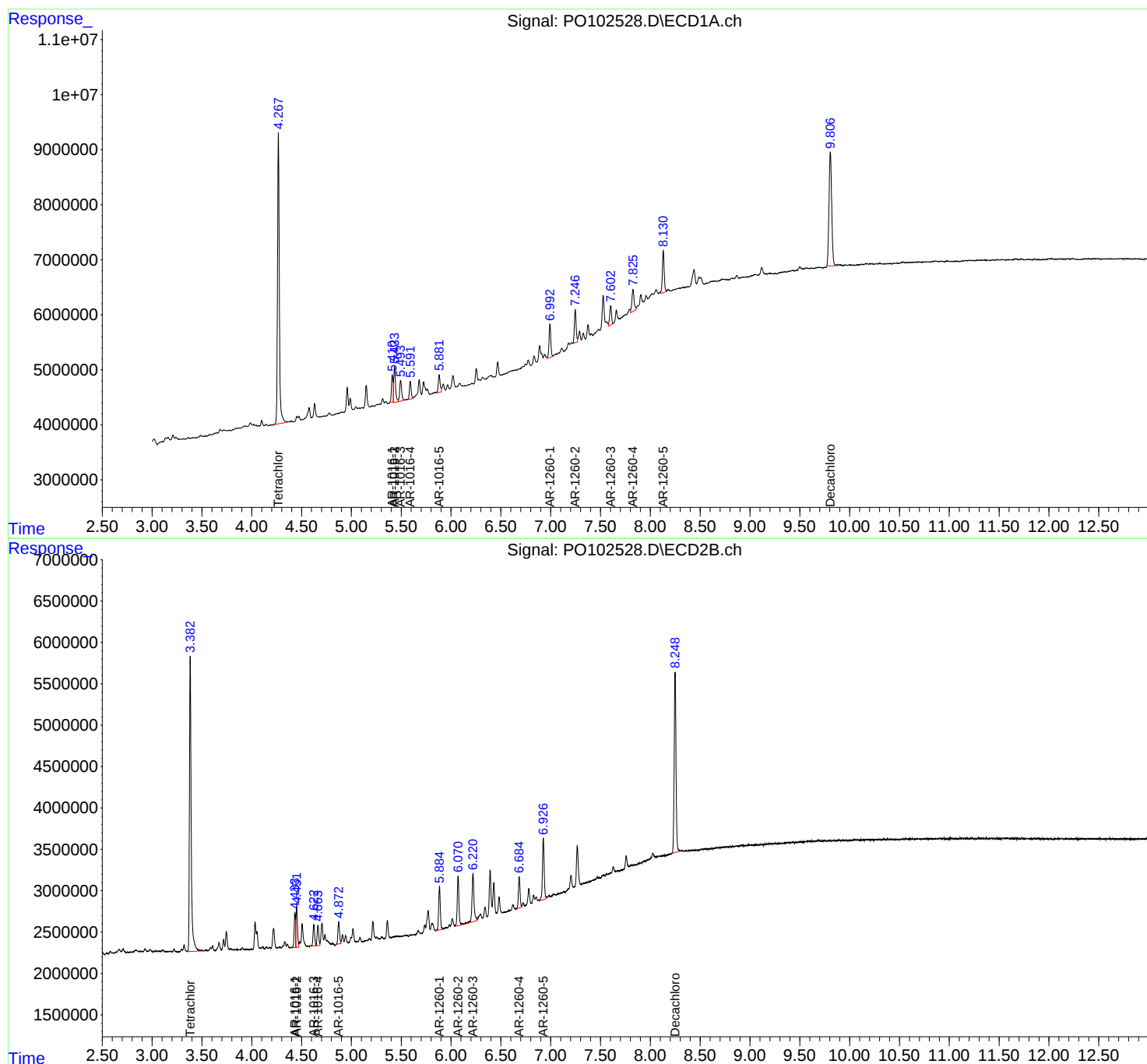
Instrument :
ECD_O
ClientSampleId :
PB159600BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel
03/15/2024
Supervised By :Ankita
Jodhani
03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
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

Manual Integration Report

Sequence:	po031224	Instrument	ECD_o
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PO102413.D	AR-1016-3 #2	yogesh	3/13/2024 8:17:29 AM	Ankita	3/13/2024 9:40:28	Peak Integrated by Software
AR1248ICC050	PO102425.D	AR-1248-2	yogesh	3/13/2024 8:17:31 AM	Ankita	3/13/2024 9:40:30	Peak Integrated by Software



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Manual Integration Report

Sequence:

PO031424

Instrument

ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PO102486.D	AR-1016-5	yogesh	3/15/2024 7:53:23 AM	Ankita	3/15/2024 10:14:00	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-1	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-1 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-2 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-3	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-3 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-4	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-4 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-5	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1016-5 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1260-1	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1260-1 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software



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

Manual Integration Report

Sequence:

PO031424

Instrument

ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB159600BS	PO102527.D	AR-1260-2 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1260-3	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1260-3 #2	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BS	PO102527.D	AR-1260-5	yogesh	3/15/2024 7:53:38 AM	Ankita	3/15/2024 10:14:13	Peak Integrated by Software
PB159600BSD	PO102528.D	AR-1016-1	yogesh	3/15/2024 7:53:40 AM	Ankita	3/15/2024 10:14:15	Peak Integrated by Software
PB159600BSD	PO102528.D	AR-1260-5	yogesh	3/15/2024 7:53:40 AM	Ankita	3/15/2024 10:14:15	Peak Integrated by Software
P1747-03	PO102530.D	Decachlorobiphenyl #2	yogesh	3/15/2024 7:53:41 AM	Ankita	3/15/2024 10:14:16	Peak Integrated by Software
P1747-03	PO102530.D	Tetrachloro-m-xylene	yogesh	3/15/2024 7:53:41 AM	Ankita	3/15/2024 10:14:16	Peak Integrated by Software
P1747-03	PO102530.D	Tetrachloro-m-xylene #2	yogesh	3/15/2024 7:53:41 AM	Ankita	3/15/2024 10:14:16	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1016-1 #2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1016-2 #2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1016-3 #2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1016-4 #2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software



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Manual Integration Report

Sequence:

PO031424

Instrument

ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PO102531.D	AR-1260-2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1260-3	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1260-4	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1260-5	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software
AR1660CCC500	PO102531.D	AR-1260-5 #2	yogesh	3/15/2024 7:53:43 AM	Ankita	3/15/2024 10:14:18	Peak Integrated by Software



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031224

Review By	yogesh	Review On	3/13/2024 8:17:40 AM
Supervise By	Ankita	Supervise On	3/13/2024 9:40:36 AM
SubDirectory	PO031224	HP Acquire Method	HP Processing Method PO031224
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822		
CCC	PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819		
Internal Standard/PEM			
ICV/I.BLK	PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO102407.D	12 Mar 2024 14:32	YP/AJ	Ok
2	I.BLK	PO102408.D	12 Mar 2024 14:49	YP/AJ	Ok
3	AR1660ICC1000	PO102409.D	12 Mar 2024 15:06	YP/AJ	Ok
4	AR1660ICC750	PO102410.D	12 Mar 2024 15:23	YP/AJ	Ok
5	AR1660ICC500	PO102411.D	12 Mar 2024 15:41	YP/AJ	Ok
6	AR1660ICC250	PO102412.D	12 Mar 2024 15:58	YP/AJ	Ok
7	AR1660ICC050	PO102413.D	12 Mar 2024 16:15	YP/AJ	Ok,M
8	AR1221ICC500	PO102414.D	12 Mar 2024 16:32	YP/AJ	Ok
9	AR1232ICC500	PO102415.D	12 Mar 2024 16:49	YP/AJ	Ok
10	AR1242ICC1000	PO102416.D	12 Mar 2024 17:07	YP/AJ	Ok
11	AR1242ICC750	PO102417.D	12 Mar 2024 17:24	YP/AJ	Ok
12	AR1242ICC500	PO102418.D	12 Mar 2024 17:41	YP/AJ	Ok
13	AR1242ICC250	PO102419.D	12 Mar 2024 17:58	YP/AJ	Ok
14	AR1242ICC050	PO102420.D	12 Mar 2024 18:16	YP/AJ	Ok
15	AR1248ICC1000	PO102421.D	12 Mar 2024 18:33	YP/AJ	Ok
16	AR1248ICC750	PO102422.D	12 Mar 2024 18:50	YP/AJ	Ok
17	AR1248ICC500	PO102423.D	12 Mar 2024 19:07	YP/AJ	Ok
18	AR1248ICC250	PO102424.D	12 Mar 2024 19:24	YP/AJ	Ok
19	AR1248ICC050	PO102425.D	12 Mar 2024 19:42	YP/AJ	Ok,M
20	AR1254ICC1000	PO102426.D	12 Mar 2024 19:59	YP/AJ	Ok
21	AR1254ICC750	PO102427.D	12 Mar 2024 20:16	YP/AJ	Ok
22	AR1254ICC500	PO102428.D	12 Mar 2024 20:33	YP/AJ	Ok
23	AR1254ICC250	PO102429.D	12 Mar 2024 20:50	YP/AJ	Ok



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031224

Review By	yogesh	Review On	3/13/2024 8:17:40 AM
Supervise By	Ankita	Supervise On	3/13/2024 9:40:36 AM
SubDirectory	PO031224	HP Acquire Method	HP Processing Method PO031224

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,P P22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP 22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822
CCC	PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819
Internal Standard/PEM	
ICV/I.BLK	PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	AR1254ICC050	PO102430.D	12 Mar 2024 21:07	YP/AJ	Ok
25	AR1262ICC500	PO102431.D	12 Mar 2024 21:25	YP/AJ	Ok
26	AR1268ICC1000	PO102432.D	12 Mar 2024 21:42	YP/AJ	Ok
27	AR1268ICC750	PO102433.D	12 Mar 2024 21:59	YP/AJ	Ok
28	AR1268ICC500	PO102434.D	12 Mar 2024 22:16	YP/AJ	Ok
29	AR1268ICC250	PO102435.D	12 Mar 2024 22:33	YP/AJ	Ok
30	AR1268ICC050	PO102436.D	12 Mar 2024 22:50	YP/AJ	Ok
31	PO031224ICV500	PO102437.D	12 Mar 2024 23:07	YP/AJ	Ok
32	AR1242ICV500	PO102438.D	12 Mar 2024 23:25	YP/AJ	Ok
33	AR1248ICV500	PO102439.D	12 Mar 2024 23:42	YP/AJ	Ok
34	AR1254ICV500	PO102440.D	12 Mar 2024 23:59	YP/AJ	Ok
35	AR1268ICV500	PO102441.D	13 Mar 2024 00:16	YP/AJ	Ok

M : Manual Integration



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM
SubDirectory	PO031424	HP Acquire Method	HP Processing Method PO031224
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,P P22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP 22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822		
CCC	PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819		
Internal Standard/PEM			
ICV/I.BLK	PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO102485.D	14 Mar 2024 09:06	YP/AJ	Ok
2	AR1660CCC500	PO102486.D	14 Mar 2024 09:23	YP/AJ	Ok,M
3	AR1242CCC500	PO102487.D	14 Mar 2024 09:40	YP/AJ	Ok
4	AR1248CCC500	PO102488.D	14 Mar 2024 09:57	YP/AJ	Ok
5	AR1254CCC500	PO102489.D	14 Mar 2024 10:15	YP/AJ	Ok
6	I.BLK	PO102490.D	14 Mar 2024 10:32	YP/AJ	Ok
7	PB159582BL	PO102491.D	14 Mar 2024 13:11	YP/AJ	Ok
8	PB159582BS	PO102492.D	14 Mar 2024 13:28	YP/AJ	Ok
9	P1744-01	PO102493.D	14 Mar 2024 13:45	YP/AJ	Ok,M
10	P1744-01MS	PO102494.D	14 Mar 2024 14:02	YP/AJ	Ok,M
11	P1744-01MSD	PO102495.D	14 Mar 2024 14:20	YP/AJ	Ok,M
12	P1746-01	PO102496.D	14 Mar 2024 14:37	YP/AJ	Ok
13	P1746-02	PO102497.D	14 Mar 2024 14:54	YP/AJ	Not Ok
14	P1746-03	PO102498.D	14 Mar 2024 15:11	YP/AJ	Ok
15	AR1660CCC500	PO102499.D	14 Mar 2024 15:28	YP/AJ	Ok
16	I.BLK	PO102500.D	14 Mar 2024 15:46	YP/AJ	Ok
17	P1746-04	PO102501.D	14 Mar 2024 16:03	YP/AJ	Ok
18	P1746-06	PO102502.D	14 Mar 2024 16:20	YP/AJ	Ok
19	P1746-08	PO102503.D	14 Mar 2024 16:37	YP/AJ	Ok,M
20	P1746-09	PO102504.D	14 Mar 2024 16:54	YP/AJ	Ok
21	P1746-11	PO102505.D	14 Mar 2024 17:12	YP/AJ	Ok
22	P1746-12	PO102506.D	14 Mar 2024 17:29	YP/AJ	Ok
23	P1746-13	PO102507.D	14 Mar 2024 17:46	YP/AJ	Ok



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM		
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM		
SubDirectory	PO031424	HP Acquire Method		HP Processing Method	PO031224
STD. NAME	STD REF.#				
Tune/Reschk					
Initial Calibration Stds	PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,P P22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP 22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822				
CCC	PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819				
Internal Standard/PEM					
ICV/I.BLK	PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					
24	P1746-15	PO102508.D	14 Mar 2024 18:03	YP/AJ	Ok
25	P1746-16	PO102509.D	14 Mar 2024 18:20	YP/AJ	Ok
26	P1746-17	PO102510.D	14 Mar 2024 18:38	YP/AJ	Ok
27	P1746-19	PO102511.D	14 Mar 2024 18:55	YP/AJ	Ok
28	PB159587BL	PO102512.D	14 Mar 2024 19:12	YP/AJ	Ok
29	PB159587BS	PO102513.D	14 Mar 2024 19:29	YP/AJ	Ok
30	PB159587BSD	PO102514.D	14 Mar 2024 19:46	YP/AJ	Ok
31	P1747-01	PO102515.D	14 Mar 2024 20:04	YP/AJ	Ok
32	P1747-02	PO102516.D	14 Mar 2024 20:21	YP/AJ	Ok
33	P1747-04	PO102517.D	14 Mar 2024 20:38	YP/AJ	Ok
34	P1747-05	PO102518.D	14 Mar 2024 20:55	YP/AJ	Ok
35	AR1660CCC500	PO102519.D	14 Mar 2024 21:26	YP/AJ	Ok
36	I.BLK	PO102520.D	14 Mar 2024 21:43	YP/AJ	Ok
37	PB159599BL	PO102521.D	14 Mar 2024 22:01	YP/AJ	Ok
38	PB159599BS	PO102522.D	14 Mar 2024 22:18	YP/AJ	Ok
39	P1758-01	PO102523.D	14 Mar 2024 22:35	YP/AJ	Ok
40	P1758-02	PO102524.D	14 Mar 2024 22:52	YP/AJ	Ok,M
41	P1758-03	PO102525.D	14 Mar 2024 23:09	YP/AJ	Ok
42	P1758-04	PO102526.D	14 Mar 2024 23:26	YP/AJ	Ok,M
43	PB159600BS	PO102527.D	15 Mar 2024 00:12	YP/AJ	Ok,M
44	PB159600BSD	PO102528.D	15 Mar 2024 00:29	YP/AJ	Ok,M
45	PB159600BL	PO102529.D	15 Mar 2024 00:46	YP/AJ	Ok
46	P1747-03	PO102530.D	15 Mar 2024 01:03	YP/AJ	Ok,M
47	AR1660CCC500	PO102531.D	15 Mar 2024 01:49	YP/AJ	Ok,M
48	I.BLK	PO102532.D	15 Mar 2024 02:06	YP/AJ	Ok



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM
SubDirectory	PO031424	HP Acquire Method	HP Processing Method PO031224
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds	PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,P P22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP 22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822		
CCC	PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819		
Internal Standard/PEM			
ICV/I.BLK	PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031224

Review By	yogesh	Review On	3/13/2024 8:17:40 AM				
Supervise By	Ankita	Supervise On	3/13/2024 9:40:36 AM				
SubDirectory	PO031224	HP Acquire Method	HP Processing Method			PO031224	
STD. NAME		STD REF.#					
Tune/Reschk		PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard							
LCS Standard		PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819					
		PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837					
Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO102407.D	12 Mar 2024 14:32		YP/AJ	Ok
2	I.BLK	I.BLK	PO102408.D	12 Mar 2024 14:49		YP/AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PO102409.D	12 Mar 2024 15:06		YP/AJ	Ok
4	AR1660ICC750	AR1660ICC750	PO102410.D	12 Mar 2024 15:23		YP/AJ	Ok
5	AR1660ICC500	AR1660ICC500	PO102411.D	12 Mar 2024 15:41		YP/AJ	Ok
6	AR1660ICC250	AR1660ICC250	PO102412.D	12 Mar 2024 15:58		YP/AJ	Ok
7	AR1660ICC050	AR1660ICC050	PO102413.D	12 Mar 2024 16:15		YP/AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PO102414.D	12 Mar 2024 16:32		YP/AJ	Ok
9	AR1232ICC500	AR1232ICC500	PO102415.D	12 Mar 2024 16:49		YP/AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PO102416.D	12 Mar 2024 17:07		YP/AJ	Ok
11	AR1242ICC750	AR1242ICC750	PO102417.D	12 Mar 2024 17:24		YP/AJ	Ok
12	AR1242ICC500	AR1242ICC500	PO102418.D	12 Mar 2024 17:41		YP/AJ	Ok
13	AR1242ICC250	AR1242ICC250	PO102419.D	12 Mar 2024 17:58		YP/AJ	Ok
14	AR1242ICC050	AR1242ICC050	PO102420.D	12 Mar 2024 18:16		YP/AJ	Ok
15	AR1248ICC1000	AR1248ICC1000	PO102421.D	12 Mar 2024 18:33		YP/AJ	Ok
16	AR1248ICC750	AR1248ICC750	PO102422.D	12 Mar 2024 18:50		YP/AJ	Ok
17	AR1248ICC500	AR1248ICC500	PO102423.D	12 Mar 2024 19:07		YP/AJ	Ok
18	AR1248ICC250	AR1248ICC250	PO102424.D	12 Mar 2024 19:24		YP/AJ	Ok
19	AR1248ICC050	AR1248ICC050	PO102425.D	12 Mar 2024 19:42		YP/AJ	Ok,M

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031224

Review By	yogesh	Review On	3/13/2024 8:17:40 AM				
Supervise By	Ankita	Supervise On	3/13/2024 9:40:36 AM				
SubDirectory	PO031224	HP Acquire Method	HP Processing Method		PO031224		
STD. NAME		STD REF.#					
Tune/Reschk		PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822					
Initial Calibration Stds							
CCC							
Internal Standard/PEM							
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard		PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819					
LCS Standard		PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837					
20	AR1254ICC1000	AR1254ICC1000	PO102426.D	12 Mar 2024 19:59		YP/AJ	Ok
21	AR1254ICC750	AR1254ICC750	PO102427.D	12 Mar 2024 20:16		YP/AJ	Ok
22	AR1254ICC500	AR1254ICC500	PO102428.D	12 Mar 2024 20:33		YP/AJ	Ok
23	AR1254ICC250	AR1254ICC250	PO102429.D	12 Mar 2024 20:50		YP/AJ	Ok
24	AR1254ICC050	AR1254ICC050	PO102430.D	12 Mar 2024 21:07		YP/AJ	Ok
25	AR1262ICC500	AR1262ICC500	PO102431.D	12 Mar 2024 21:25		YP/AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PO102432.D	12 Mar 2024 21:42		YP/AJ	Ok
27	AR1268ICC750	AR1268ICC750	PO102433.D	12 Mar 2024 21:59		YP/AJ	Ok
28	AR1268ICC500	AR1268ICC500	PO102434.D	12 Mar 2024 22:16		YP/AJ	Ok
29	AR1268ICC250	AR1268ICC250	PO102435.D	12 Mar 2024 22:33		YP/AJ	Ok
30	AR1268ICC050	AR1268ICC050	PO102436.D	12 Mar 2024 22:50		YP/AJ	Ok
31	PO031224ICV500	ICVPO031224	PO102437.D	12 Mar 2024 23:07		YP/AJ	Ok
32	AR1242ICV500	ICVPO031224	PO102438.D	12 Mar 2024 23:25		YP/AJ	Ok
33	AR1248ICV500	ICVPO031224	PO102439.D	12 Mar 2024 23:42		YP/AJ	Ok
34	AR1254ICV500	ICVPO031224	PO102440.D	12 Mar 2024 23:59		YP/AJ	Ok
35	AR1268ICV500	ICVPO031224	PO102441.D	13 Mar 2024 00:16		YP/AJ	Ok

M : Manual Integration



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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM				
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM				
SubDirectory	PO031424	HP Acquire Method	HP Processing Method			PO031224	
STD. NAME		STD REF.#					
Tune/Reschk Initial Calibration Stds		PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822					
CCC		PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819					
Internal Standard/PEM							
ICV/I.BLK		PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO102485.D	14 Mar 2024 09:06		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO102486.D	14 Mar 2024 09:23		YP/AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PO102487.D	14 Mar 2024 09:40		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO102488.D	14 Mar 2024 09:57		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO102489.D	14 Mar 2024 10:15		YP/AJ	Ok
6	I.BLK	I.BLK	PO102490.D	14 Mar 2024 10:32		YP/AJ	Ok
7	PB159582BL	PB159582BL	PO102491.D	14 Mar 2024 13:11		YP/AJ	Ok
8	PB159582BS	PB159582BS	PO102492.D	14 Mar 2024 13:28		YP/AJ	Ok
9	P1744-01	RT-3488	PO102493.D	14 Mar 2024 13:45		YP/AJ	Ok,M
10	P1744-01MS	RT-3488MS	PO102494.D	14 Mar 2024 14:02		YP/AJ	Ok,M
11	P1744-01MSD	RT-3488MSD	PO102495.D	14 Mar 2024 14:20		YP/AJ	Ok,M
12	P1746-01	SB-01-0-2.0	PO102496.D	14 Mar 2024 14:37		YP/AJ	Ok
13	P1746-02	SB-01-4.0-6.0	PO102497.D	14 Mar 2024 14:54	need cleanup	YP/AJ	Not Ok
14	P1746-03	SB-01-4.0-6.0-DUP	PO102498.D	14 Mar 2024 15:11		YP/AJ	Ok
15	AR1660CCC500	AR1660CCC500	PO102499.D	14 Mar 2024 15:28		YP/AJ	Ok
16	I.BLK	I.BLK	PO102500.D	14 Mar 2024 15:46		YP/AJ	Ok
17	P1746-04	SB-01-7.0-9.5	PO102501.D	14 Mar 2024 16:03		YP/AJ	Ok
18	P1746-06	SB-02-0-2.0	PO102502.D	14 Mar 2024 16:20		YP/AJ	Ok
19	P1746-08	SB-03-0-2.0	PO102503.D	14 Mar 2024 16:37		YP/AJ	Ok,M

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM					
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM					
SubDirectory	PO031424	HP Acquire Method	HP Processing Method		PO031224			
STD. NAME		STD REF.#						
Tune/Reschk		PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822						
Initial Calibration Stds								
CCC								
Internal Standard/PEM								
ICV/I.BLK								
Surrogate Standard								
MS/MSD Standard		PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819						
LCS Standard		PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837						
20	P1746-09	SB-03-2.0-3.0	PO102504.D	14 Mar 2024 16:54		YP/AJ	Ok	
21	P1746-11	SB-04-0-2.0	PO102505.D	14 Mar 2024 17:12		YP/AJ	Ok	
22	P1746-12	SB-04-2.0-4.0	PO102506.D	14 Mar 2024 17:29		YP/AJ	Ok	
23	P1746-13	SB-04-4.0-6.0	PO102507.D	14 Mar 2024 17:46		YP/AJ	Ok	
24	P1746-15	SB-05-0-2.0	PO102508.D	14 Mar 2024 18:03		YP/AJ	Ok	
25	P1746-16	SB-05-0-2.0-DUP	PO102509.D	14 Mar 2024 18:20		YP/AJ	Ok	
26	P1746-17	SB-05-2.0-4.5	PO102510.D	14 Mar 2024 18:38		YP/AJ	Ok	
27	P1746-19	SB-06-0-2.0	PO102511.D	14 Mar 2024 18:55		YP/AJ	Ok	
28	PB159587BL	PB159587BL	PO102512.D	14 Mar 2024 19:12		YP/AJ	Ok	
29	PB159587BS	PB159587BS	PO102513.D	14 Mar 2024 19:29		YP/AJ	Ok	
30	PB159587BSD	PB159587BSD	PO102514.D	14 Mar 2024 19:46		YP/AJ	Ok	
31	P1747-01	MW-01	PO102515.D	14 Mar 2024 20:04		YP/AJ	Ok	
32	P1747-02	MW-01-DUP	PO102516.D	14 Mar 2024 20:21		YP/AJ	Ok	
33	P1747-04	MW-02	PO102517.D	14 Mar 2024 20:38		YP/AJ	Ok	
34	P1747-05	MW-04	PO102518.D	14 Mar 2024 20:55		YP/AJ	Ok	
35	AR1660CCC500	AR1660CCC500	PO102519.D	14 Mar 2024 21:26	AR1260-5 & DCB HIGH in second column	YP/AJ	Ok	
36	I.BLK	I.BLK	PO102520.D	14 Mar 2024 21:43	DCB HIGH in second column	YP/AJ	Ok	
37	PB159599BL	PB159599BL	PO102521.D	14 Mar 2024 22:01		YP/AJ	Ok	
38	PB159599BS	PB159599BS	PO102522.D	14 Mar 2024 22:18		YP/AJ	Ok	
39	P1758-01	PCB031224RB01	PO102523.D	14 Mar 2024 22:35		YP/AJ	Ok	



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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QC Batch ID # PO031424

Review By	yogesh	Review On	3/15/2024 7:54:00 AM				
Supervise By	Ankita	Supervise On	3/15/2024 10:14:38 AM				
SubDirectory	PO031424	HP Acquire Method	HP Processing Method		PO031224		
STD. NAME		STD REF.#					
Tune/Reschk							
Initial Calibration Stds		PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822					
CCC		PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819					
Internal Standard/PEM							
ICV/I.BLK		PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

40	P1758-02	PCB031224RB02	PO102524.D	14 Mar 2024 22:52		YP/AJ	Ok,M
41	P1758-03	PCB031224RB03	PO102525.D	14 Mar 2024 23:09		YP/AJ	Ok
42	P1758-04	PCB031224RB04	PO102526.D	14 Mar 2024 23:26		YP/AJ	Ok,M
43	PB159600BS	PB159600BS	PO102527.D	15 Mar 2024 00:12		YP/AJ	Ok,M
44	PB159600BSD	PB159600BSD	PO102528.D	15 Mar 2024 00:29		YP/AJ	Ok,M
45	PB159600BL	PB159600BL	PO102529.D	15 Mar 2024 00:46		YP/AJ	Ok
46	P1747-03	MW-01	PO102530.D	15 Mar 2024 01:03	TCMX low in first column	YP/AJ	Ok,M
47	AR1660CCC500	AR1660CCC500	PO102531.D	15 Mar 2024 01:49	AR1260-5 & DCB HIGH in second column	YP/AJ	Ok,M
48	I.BLK	I.BLK	PO102532.D	15 Mar 2024 02:06	DCB HIGH in second column	YP/AJ	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction PCB-14

Clean Up SOP #: Acid Cleanup

Extraction Start Date : 03/14/2024

Matrix : Water

Extraction Start Time : 10:51

Weigh By: N/A

Extraction By: RS

Extraction End Date : 03/14/2024

Balance check: N/A

Filter By: RP

Extraction End Time : 15:45

Balance ID: N/A

pH Meter ID: N/A

Concentration By: RS

pH Strip Lot#: E3574

Hood ID: 4,5,6,7

Supervisor By : rajesh

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP23071
Surrogate	1.0ML	200 PPB	PP23117
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3707
Baked Na2SO4	N/A	EP2458
Hexane	N/A	E3709
H2SO4 1:1	N/A	EP2416
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: WATER BATH-1,2

Envap ID: NE VAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/14/24	RP (Env. Lab)	ATILG-ST PRA Cals
15:50	Preparation Group	Analysis Group



EXTRACTION LOGPAGE

PrepBatch ID : PB159587

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 03/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB159587BL	ABLK587	PCB	1000	6	ritesh	rajesh	10			SEP-10
PB159587BS	ALCS587	PCB	1000	6	ritesh	rajesh	10			11
PB159587BS D	ALCSD587	PCB	1000	6	ritesh	rajesh	10			12
P1747-01	MW-01	PCB	980	6	ritesh	rajesh	10	D		13
P1747-02	MW-01-DUP	PCB	970	6	ritesh	rajesh	10	D		14
P1747-04	MW-02	PCB	990	6	ritesh	rajesh	10	D		15
P1747-05	MW-04	PCB	980	6	ritesh	rajesh	10	D		16

* Extracts relinquished on the same date as received.

B
3/14/24

15957
16297
(15957)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P1747 WorkList ID : 178575 Department : Extraction Date : 03-14-2024 10:08:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P1747-01	MW-01	Water	PCB	Cool 4 deg C	LIRO01	I21	03/12/2024	8082A
P1747-01	MW-01	Water	Pesticide-TCL	Cool 4 deg C	LIRO01	I21	03/12/2024	8081B
P1747-02	MW-01-DUP	Water	PCB	Cool 4 deg C	LIRO01	I21	03/12/2024	8082A
P1747-02	MW-01-DUP	Water	Pesticide-TCL	Cool 4 deg C	LIRO01	I21	03/12/2024	8081B
P1747-04	MW-02	Water	PCB	Cool 4 deg C	LIRO01	I21	03/12/2024	8082A
P1747-04	MW-02	Water	Pesticide-TCL	Cool 4 deg C	LIRO01	I21	03/12/2024	8081B
P1747-05	MW-04	Water	PCB	Cool 4 deg C	LIRO01	I21	03/12/2024	8082A
P1747-05	MW-04	Water	Pesticide-TCL	Cool 4 deg C	LIRO01	I21	03/12/2024	8081B

Date/Time 03/14/24
Raw Sample Received by: RP (Set 104)
Raw Sample Relinquished by: RM Sam

Date/Time 03/14/24
Raw Sample Received by: RM Sam
Raw Sample Relinquished by: RP (Set 104)

SOP ID: M608.3-Pesticide PCB-17

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RP

Filter By: RP

pH Meter ID: N/A

Hood ID: 4,6,7.

Extraction Start Date : 03/14/2024

Extraction Start Time : 10:05

Extraction End Date : 03/14/2024

Extraction End Time : 15:00

Concentration By: RS

Supervisor By : rajesh

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50 PPB	PP22983
Surrogate	1.0ML	20 PPB	PP22985
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3707
Baked Na2SO4	N/A	EP2458
Hexane	N/A	E3709
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot#2210673.

KD Bath ID: WATER BATH-1

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/14/24	RP (with 2 ab)	AJIR-ST PCA Lab
15:05	Preparation Group	Analysis Group

Analytical Method: M608.3-Pesticide PCB-17

Concentration Date: 03/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB159600BL	ABLK600	PCB	1000	6	ritesh	rajesh	1			SEP-13
PB159600BS	ALCS600	PCB	1000	6	ritesh	rajesh	1			14
PB159600BS D	ALCSD600	PCB	1000	6	ritesh	rajesh	1			15
P1747-03	MW-01	PCB	980	6	ritesh	rajesh	1	M		16

* Extracts relinquished on the same date as received.

3/14/24

39602
202915
12-21

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P1747P WorkList ID : 178600 Department : Extraction Date : 03-14-2024 09:54:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P1747-03	MW-01	Water	PCB	Cool 4 deg C	LIRO01	I31	03/13/2024	608.3

Date/Time 03/14/24 9:57
Raw Sample Received by: RP / Ept 1m
Raw Sample Relinquished by: JT (SW)

Date/Time 03/14/24 10:10
Raw Sample Received by: JT (SW)
Raw Sample Relinquished by: RP (Ept 1m)



Prep Standard - Chemical Standard Summary

Order ID : P1747

Test : PCB

Prepbatch ID : PB159587,PB159600,

Sequence ID/Qc Batch ID: PO031424,

Standard ID :

EP2416,EP2458,PP22777,PP22778,PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822,PP22823,PP22824,PP22825,PP22826,PP22827,PP22828,PP22829,PP22830,PP22831,PP22832,PP22833,PP22834,PP22835,PP22836,PP22837,PP22946,PP22983,PP22985,PP23071,PP23117,

Chemical ID :

E3551,E3661,E3662,E3672,E3674,E3699,E3707,E3709,M5673,P10481,P10498,P11050,P11055,P11495,P11505,P11510,P11517,P11519,P11579,P11585,P11588,P11595,P11745,P11746,P11748,P12206,P12207,P12696,P12701,W2606,

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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>
314	1.1 H2SO4 SOLN	EP2416	11/29/2023	05/29/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/29/2023
<u>FROM</u>	1000.00000ml of M5673 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2458	03/08/2024	07/03/2024	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 03/08/2024
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

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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>
84	Pest/PCB Surrogate Stock 20 PPM	PP22777	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 1.00000ml of P11745 + 9.00000ml of E3662 = 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>
404	AR1660 100 PPM Stock Solution 2nd Source	PP22778	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 1.00000ml of P12206 + 9.00000ml of E3661 = Final Quantity: 10.000 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>
202	AR1660 1000/100 ppb working solution 1st source	PP22779	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.10000ml of P10481 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
203	AR1660 750 PPB STD	PP22780	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22779 = Final Quantity: 1.000 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>
204	AR1660 500 PPB STD	PP22781	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22779 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
205	AR1660 250 PPB STD	PP22782	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22779 = Final Quantity: 1.000 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>
206	AR1660 50 PPB STD	PP22783	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.90000ml of E3662 + 0.10000ml of PP22781 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
213	AR1221 1000 PPB WORKING SOLUTION	PP22787	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u>	0.10000ml of P11579 + 99.40000ml of E3662 + 0.50000ml of PP22777 = 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>
1079	AR1221 750 PPB STD	PP22788	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22787 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
222	AR1221 500 PPB STD	PP22789	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22787 = Final Quantity: 1.000 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>
1080	AR1221 250 PPB STD	PP22790	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
0.75000ml of E3662 + 0.25000ml of PP22787	= Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1081	AR1221 50 PPB STD	PP22791	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.90000ml of E3662 + 0.10000ml of PP22789 = Final Quantity: 1.000 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>
214	AR1232 1000 PPB WORKING SOLUTION	PP22792	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.10000ml of P11585 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1063	AR1232 750 PPB STD	PP22793	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22792 = Final Quantity: 1.000 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>
223	AR1232 500 PPB STD	PP22794	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22792 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1064	AR1232 250 PPB STD	PP22795	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22792 = Final Quantity: 1.000 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>
1065	AR1232 50 PPB STD	PP22796	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.90000ml of E3662 + 0.10000ml of PP22794 = Final Quantity: 1.000 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>
215	AR1242 1000 PPB WORKING STD	PP22797	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
0.10000ml of P11050 + 99.40000ml of E3662 + 0.50000ml of PP22777	= 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>
1067	AR1242 750 PPB STD	PP22798	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22797 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
224	AR1242 500 PPB STD	PP22799	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22797 = Final Quantity: 1.000 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>
1068	AR1242 250 PPB STD	PP22800	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22797 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1069	AR1242 50 PPB STD	PP22801	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.90000ml of E3662 + 0.10000ml of PP22799 = Final Quantity: 1.000 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>
216	AR1248 1000 PPB WORKING STD	PP22802	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.10000ml of P11055 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1075	AR1248 750 PPB STD	PP22803	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel
12/08/2023								
<u>FROM</u>	0.25000ml of E3662 + 0.75000ml of PP22802 = Final Quantity: 1.000 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>
225	AR1248 500 PPB STD	PP22804	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22802 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1076	AR1248 250 PPB STD	PP22805	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22802 = Final Quantity: 1.000 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>
1077	AR1248 50 PPB STD	PP22806	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.90000ml of E3662 + 0.10000ml of PP22804 = Final Quantity: 1.000 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>
217	AR1254 1000 PPB WORKING STD	PP22807	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.10000ml of P11588 + 99.40000ml of E3662 + 0.50000ml of PP22777 = 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>
1071	AR1254 750 PPB STD	PP22808	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22807 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
226	AR1254 500 PPB STD	PP22809	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22807 = Final Quantity: 1.000 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>
1072	AR1254 250 PPB STD	PP22810	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22807 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1073	AR1254 50 PPB STD	PP22811	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.90000ml of E3662 + 0.10000ml of PP22809 = Final Quantity: 1.000 ml								

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1529	AR1262 1000 PPB Working Solution	PP22812	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.10000ml of P10498 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3753	AR1262 750 PPB STD	PP22813	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22812 = Final Quantity: 1.000 ml								

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1530	AR1262 500 PPB STD	PP22814	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22812 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3754	AR1262 250 PPB STD	PP22815	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.75000ml of E3662 + 0.25000ml of PP22812 = Final Quantity: 1.000 ml								

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3755	AR1262 50 PPB STD	PP22816	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
0.90000ml of E3662 + 0.10000ml of PP22814	= Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1532	AR1268 1000 PPB Working Solution	PP22817	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.10000ml of P11595 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml
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3820	AR1268 750 PPB STD	PP22818	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.25000ml of E3662 + 0.75000ml of PP22817 = Final Quantity: 1.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1533	AR1268 500 PPB STD	PP22819	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22817 = Final Quantity: 1.000 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>
3821	AR1268 250 PPB STD	PP22820	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.75000ml of E3662 + 0.25000ml of PP22817 = Final Quantity: 1.000 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>
3822	AR1268 50 PPB STD	PP22821	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
0.90000ml of E3662 + 0.10000ml of PP22819	= Final Quantity: 1.000 ml

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405	AR1660 1000/100 PPB ICV STD	PP22822	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 98.50000ml of E3662 + 0.50000ml of PP22777 + 1.00000ml of PP22778 = 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>
406	AR1660 500 PPB ICV	PP22823	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22822 = Final Quantity: 1.000 ml								

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3789	AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT)	PP22824	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
1.00000ml of P11495 + 98.50000ml of E3662 + 0.50000ml of PP22777	= 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>
3790	AR1221 500 PPB ICV(AGILENT)	PP22825	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.50000ml of E3662 + 0.50000ml of PP22824 = Final Quantity: 1.000 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>
1887	AR1232 1000 PPB Working Sol. 2nd Source	PP22826	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 1.00000ml of P12696 + 98.50000ml of E3662 + 0.50000ml of PP22777 = 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>
1888	AR1232 500 PPB ICV	PP22827	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22826 = Final Quantity: 1.000 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>
1889	AR1242 1000 PPB Working Sol. 2nd Source	PP22828	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u>	1.00000ml of P11505 + 98.50000ml of E3662 + 0.50000ml of PP22777 = 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>
1891	AR1242 500 PPB ICV	PP22829	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22828 = Final Quantity: 1.000 ml								

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1890	AR1248 1000 PPB Working Sol. 2nd Source	PP22830	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u>	1.00000ml of P11510 + 98.50000ml of E3662 + 0.50000ml of PP22777 = 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>
1892	AR1248 500 PPB ICV	PP22831	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22830 = Final Quantity: 1.000 ml								

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1893	AR1254 1000 PPB Working Sol. 2nd Source	PP22832	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u>	1.00000ml of P11517 + 98.50000ml of E3662 + 0.50000ml of PP22777 = 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>
1894	AR1254 500 PPB ICV	PP22833	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22832 = Final Quantity: 1.000 ml								

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<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	PP22834	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u>	1.00000ml of P12701 + 98.50000ml of E3662 + 0.50000ml of PP22777 = 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>
3758	AR1262 500 PPB STD ICV	PP22835	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023
<u>FROM</u> 0.50000ml of E3662 + 0.50000ml of PP22834 = Final Quantity: 1.000 ml								

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<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	PP22836	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	
1.00000ml of P11519 + 98.50000ml of E3662 + 0.50000ml of PP22777	= Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3823	AR1268 500 PPB STD ICV	PP22837	12/08/2023	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 12/08/2023

FROM	0.50000ml of E3662 + 0.50000ml of PP22836 = Final Quantity: 1.000 ml
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284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<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	PP22946	12/28/2023	06/23/2024	Abdul Mirza	None	None	Ankita Jodhani 12/28/2023
<u>FROM</u>	1.00000ml of P11746 + 9.00000ml of E3672 = 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>
1517	50 PPB 608 PCB Spike	PP22983	01/03/2024	06/08/2024	Ankita Jodhani	None	None	Yogesh Patel 01/03/2024
<u>FROM</u>	99.95000ml of E3661 + 0.05000ml of PP22778 = Final Quantity: 100.000 ml							

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<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>
1638	20 PPB Pest/PCB Surg Spike	PP22985	01/03/2024	06/23/2024	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 199.80000ml of E3661 + 0.20000ml of PP22946 = Final Quantity: 200.000 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>
3857	5000 PPB PCB SPIKE SOLUTION 2ND SOURCE	PP23071	02/06/2024	07/03/2024	Ankita Jodhani	None	None	Sohil Jodhani 02/07/2024
<u>FROM</u>	0.50000ml of P12207 + 99.50000ml of E3674 = Final Quantity: 100.000 ml							

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

<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	PP23117	02/29/2024	08/21/2024	Abdul Mirza	None	None	Ankita Jodhani 03/01/2024
<u>FROM</u> 1.00000ml of P11748 + 999.00000ml of E3699 = Final Quantity: 1000.000 ml								

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	06/23/2024	12/08/2023 / Rajesh	12/06/2023 / Rajesh	E3661

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)	23G1262009	06/08/2024	12/08/2023 / Rajesh	12/06/2023 / Rajesh	E3662

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)	23G1262009	06/23/2024	12/23/2023 / Rajesh	12/21/2023 / Rajesh	E3672

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	07/03/2024	01/03/2024 / Rajesh	01/03/2024 / Rajesh	E3674

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)	23H14626005	08/21/2024	02/21/2024 / RUPESH	02/14/2024 / RUPESH	E3699

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24A1562007	08/28/2024	02/28/2024 / Rajesh	02/19/2024 / Rajesh	E3707

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)	23G1262009	09/01/2024	03/01/2024 / Rajesh	03/01/2024 / Rajesh	E3709

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)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

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	06/08/2024	12/08/2023 / Ankita	03/19/2021 / Abdul	P10481

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	06/08/2024	12/08/2023 / Ankita	03/19/2021 / Ankita	P10498

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	06/08/2024	12/08/2023 / Ankita	09/03/2021 / Abdul	P11050

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	06/08/2024	12/08/2023 / Ankita	09/03/2021 / Abdul	P11055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-292-1 / Aroclor 1221	0006535333	06/08/2024	12/08/2023 / Ankita	02/21/2022 / Ankita	P11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-312-1 / Aroclor 1242	0006665550	06/08/2024	12/08/2023 / Ankita	02/21/2022 / Ankita	P11505

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-342-1 / Aroclor 1248	0006626997	06/08/2024	12/08/2023 / Ankita	02/21/2022 / Ankita	P11510

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	06/08/2024	12/08/2023 / Ankita	02/21/2022 / Ankita	P11517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006587800	06/08/2024	12/08/2023 / Ankita	02/21/2022 / Ankita	P11519

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	A0175456	06/08/2024	12/08/2023 / Ankita	03/18/2022 / Abdul	P11579

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	06/08/2024	12/08/2023 / Ankita	03/18/2022 / Abdul	P11585

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	A0175403	06/08/2024	12/08/2023 / Ankita	03/18/2022 / Abdul	P11588

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	06/08/2024	12/08/2023 / Ankita	03/18/2022 / Abdul	P11595

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	A0179404	06/08/2024	12/08/2023 / Ankita	05/27/2022 / Sohil	P11745

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	A0179404	06/28/2024	12/28/2023 / Abdul	05/27/2022 / Sohil	P11746

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0179404	08/29/2024	02/29/2024 / Abdul	05/27/2022 / Sohil	P11748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	06/08/2024	12/08/2023 / Ankita	11/16/2022 / Ankita	P12206

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	08/06/2024	02/06/2024 / Ankita	11/16/2022 / Ankita	P12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91867 / Aroclor 1232 100 ug/mL	020823	06/08/2024	12/08/2023 / Ankita	08/07/2023 / Ankita	P12696

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	x9166 / Aroclor 1262 100 ug/mL	060523	06/08/2024	12/08/2023 / Ankita	08/07/2023 / Ankita	P12701

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



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

Recd by RP on 12/6/23

E 3661

Ken Koehnlein
Sr. Manager, Quality Assurance

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

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent



Material No.: 9262-03
Batch No.: 23G1262009
Manufactured Date: 2023-06-01
Expiration Date: 2024-08-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	3
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.6 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	0.01 %

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

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

Recd. by RP on 12/6/23

E 3662

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantor™**



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

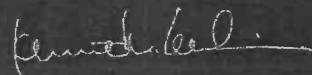
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

Recd. by RP on 1/3/24

E 3674



Ken Koehnlein
Sr. Manager, Quality Assurance

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

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 23H1462005

Manufactured Date: 2023-07-26

Expiration Date: 2026-07-25

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

E3699

RS
2/14

Ken Koehnlein
Sr. Manager, Quality Assurance

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



Material No.: 9266-A4
Batch No.: 24A1562007
Manufactured Date: 2023-12-14
Expiration Date: 2025-03-14
Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG23L14152

E 3707

Ken Koehnlein
Sr. Manager, Quality Assurance

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent



Material No.: 9262-03
Batch No.: 23G1262009
Manufactured Date: 2023-06-01
Expiration Date: 2024-08-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	3
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.6 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	0.01 %

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

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

Recd by RP on 03/01/24

E 3709

Ken Koehnlein
Sr. Manager, Quality Assurance

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

 **avantor**™



Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
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	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 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	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 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	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 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.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 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	0.4 ppb

For Laboratory, Research, or Manufacturing Use

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

A handwritten signature in cursive script that reads 'James Ethier'.
Jamie Ethier
Vice President Global Quality



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:

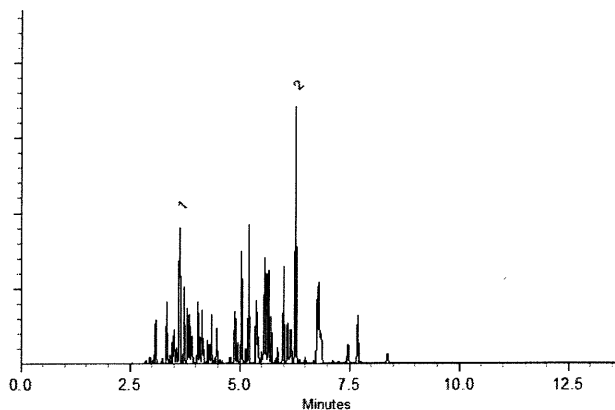
250°C

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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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. : 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
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P10500

AJ
09/19/21

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

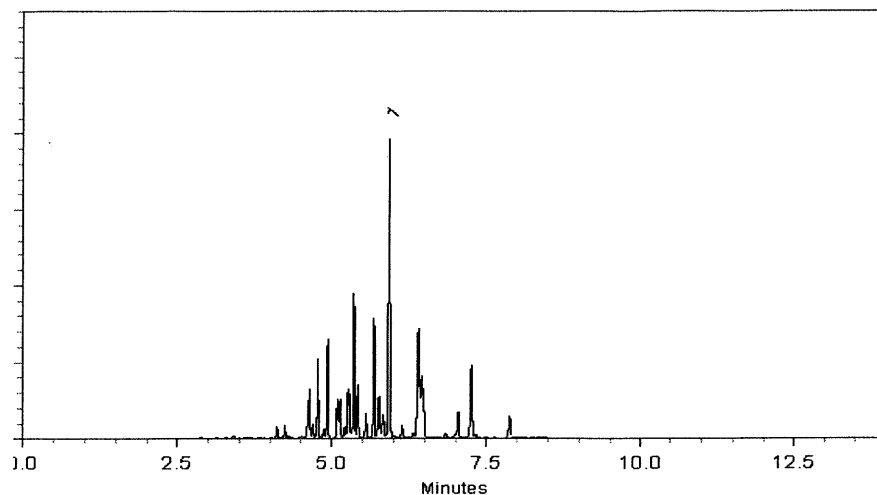
Carrier Gas:
helium-constant pressure 20 psi.

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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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. : 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:

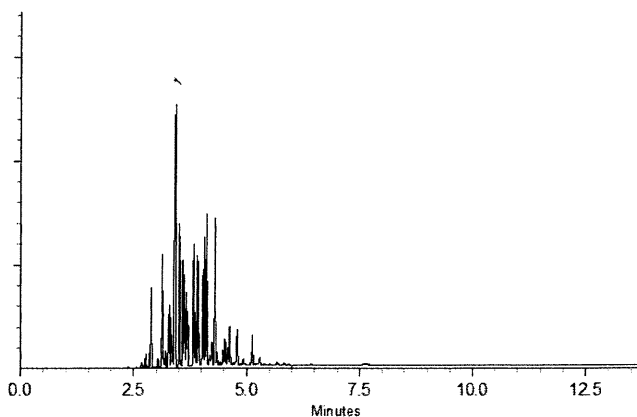
250°C

Det. Temp:

300°C

Det. Type:

ECD

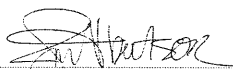


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
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P11050
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AR
09/9/2021



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Tel: (800)356-1688
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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.: 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:

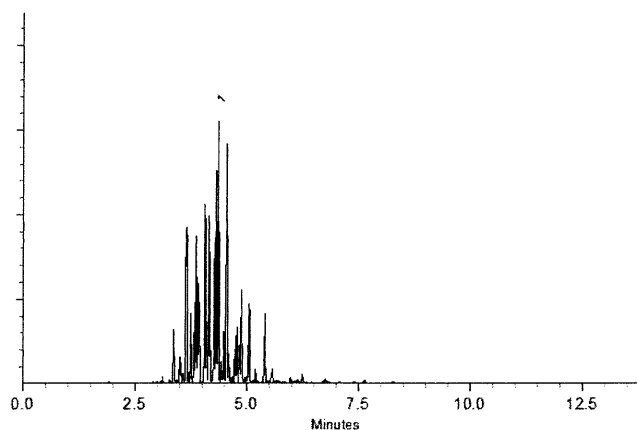
250°C

Det. Temp:

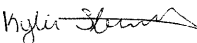
300°C

Det. Type:

ECD

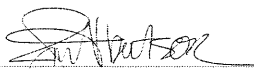


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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AR
9/7/2021



Certificate of Analysis

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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.

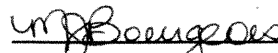
Expiration of Certification:

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

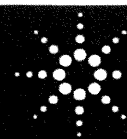
Page: 1 of 1

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.

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P11507

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Page: 1 of 2

CSD-QA-015.1

ISO 17034



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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

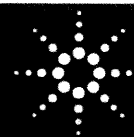
www.agilent.com/quality/

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.

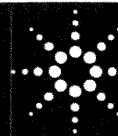
P11508

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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
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02/21/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL 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



Certificate of Analysis

P11518
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P11522
AJ
02/21/22

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1

Lot Issue Date: 09-Feb-2021

Lot Number: 0006587800

Expiration Date: 31-Mar-2029

Description:

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

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

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

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

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/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.

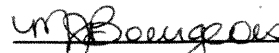
Expiration of Certification:

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

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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



CERTIFIED REFERENCE MATERIAL

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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. : 32007 Lot No.: A0175456
Description : Aroclor® 1221 Standard
Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 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 1221	1,002.0 µg/mL	+/- 5.9516 µg/mL Gravimetric
	CAS # 11104-28-2 (Lot 10210500)		+/- 31.7706 µg/mL Unstressed
	Purity ----%		+/- 41.4958 µg/mL Stressed

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

P 11578
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P 11582 / (S)

AR
04/30/22

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

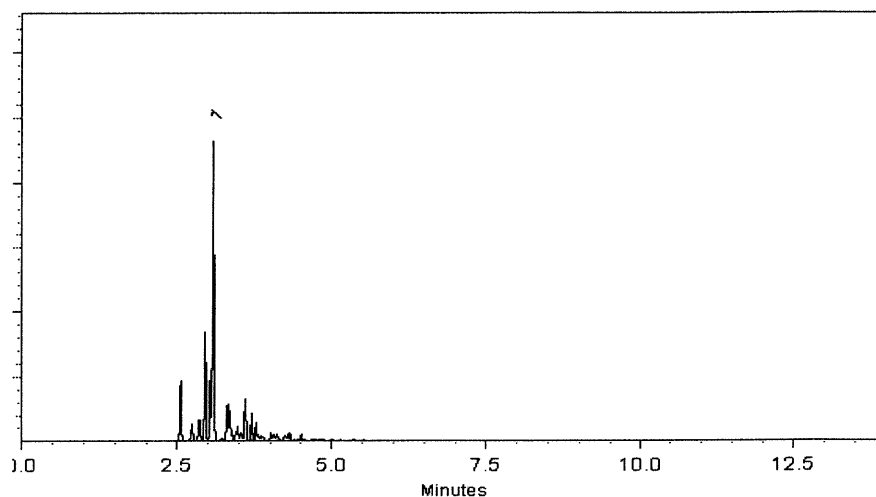
Carrier Gas:
helium-constant pressure 20 psi.

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: 16-Aug-2021 Balance: B442140311

Marlene Cowan
Marlene Cowan - Operations Tech I

Date Passed: 18-Aug-2021

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

P11578
↓
P11582 / (S)

AR
04/30/22



CERTIFIED REFERENCE MATERIAL

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

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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. : 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
↓
P11587 / (S)

AR
04/30/22

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

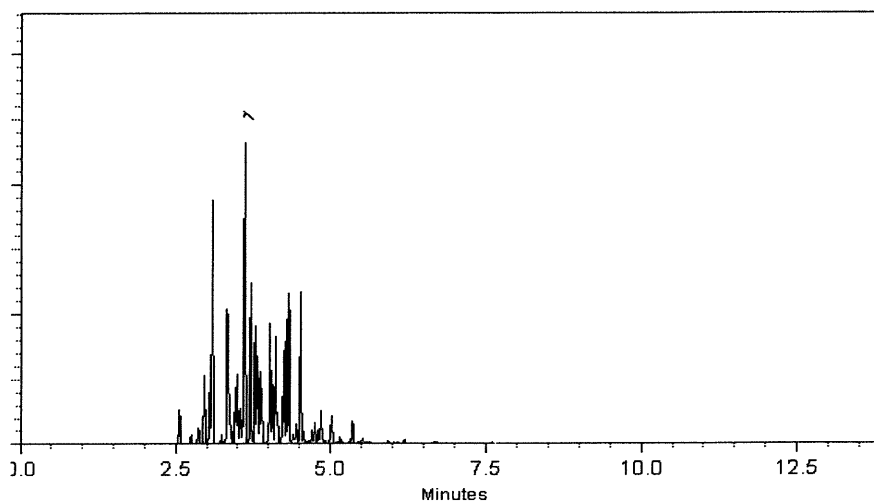
Carrier Gas:
helium-constant pressure 20 psi.

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

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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.: A0175403
Description : Aroclor® 1254 Standard
Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 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 1254 CAS # 11097-69-1 (Lot 124-191-B) 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%

P11588
↓
P11592 / (S)

AR
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:

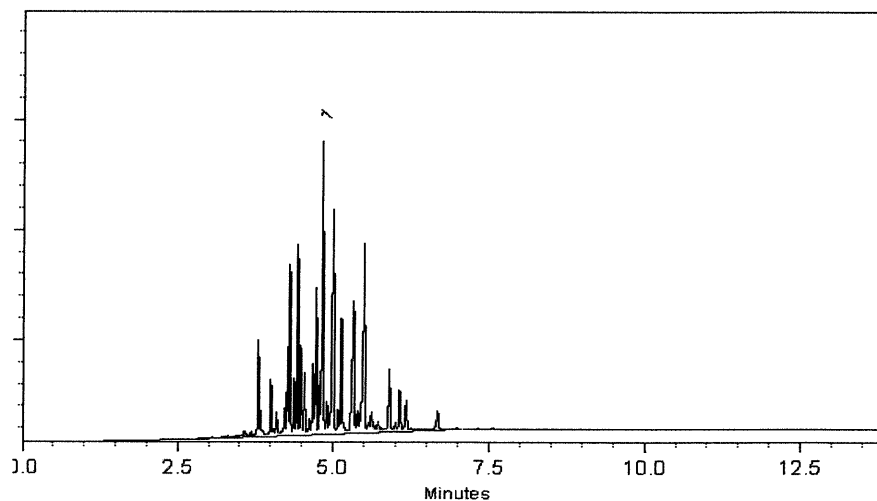
250°C

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.

Cathleen Soltis

Cathleen Soltis - Mix Technician

Date Mixed: 15-Aug-2021

Balance: 1128360905

Alexis Shelow

Alexis Shelow - Operations Tech I

Date Passed: 17-Aug-2021

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

P11588
↓
P11592 / (5)

AR
04/30/22



CERTIFIED REFERENCE MATERIAL

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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. : 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
↓
P 11597
⑤

WAP
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:

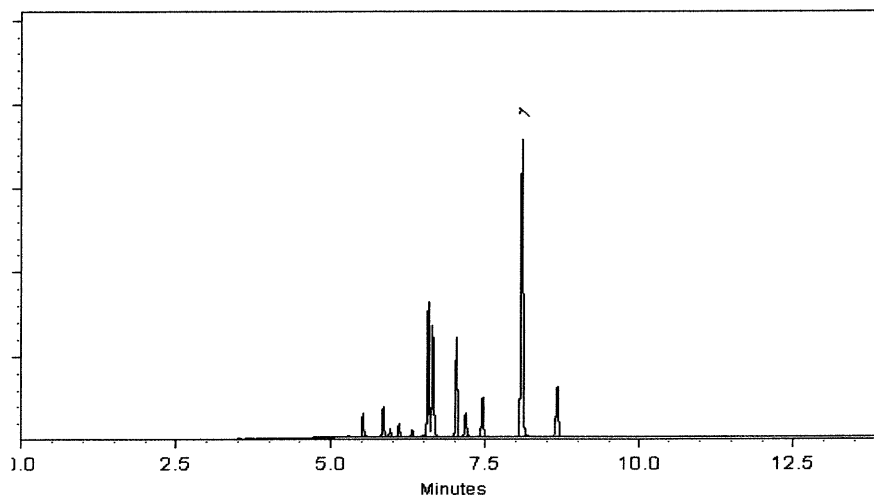
250°C

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
A
04/30/2022



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0179404

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

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

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/- 1.1840 µg/mL Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 6.3622 µg/mL Unstressed
	Purity 98%		+/- 8.3106 µg/mL Stressed
2	Decachlorobiphenyl (BZ# 209)	200.8 µg/mL	+/- 1.1845 µg/mL Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 6.3653 µg/mL Unstressed
	Purity 99%		+/- 8.3146 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:

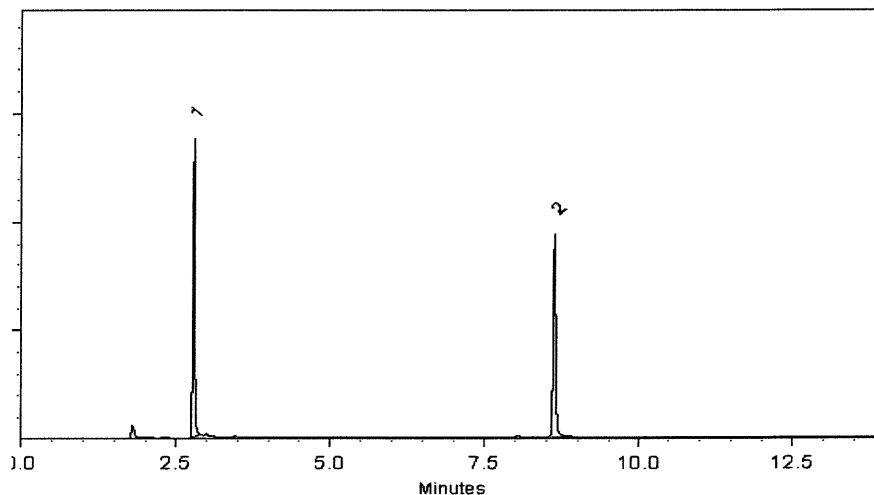
250°C

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.


Matt Fragassi - Mix Technician

Date Mixed: 09-Dec-2021

Balance: 1127510105


Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0179404

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

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

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

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/- 1.1840 µg/mL Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 6.3622 µg/mL Unstressed
	Purity 98%		+/- 8.3106 µg/mL Stressed
2	Decachlorobiphenyl (BZ# 209)	200.8 µg/mL	+/- 1.1845 µg/mL Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 6.3653 µg/mL Unstressed
	Purity 99%		+/- 8.3146 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:

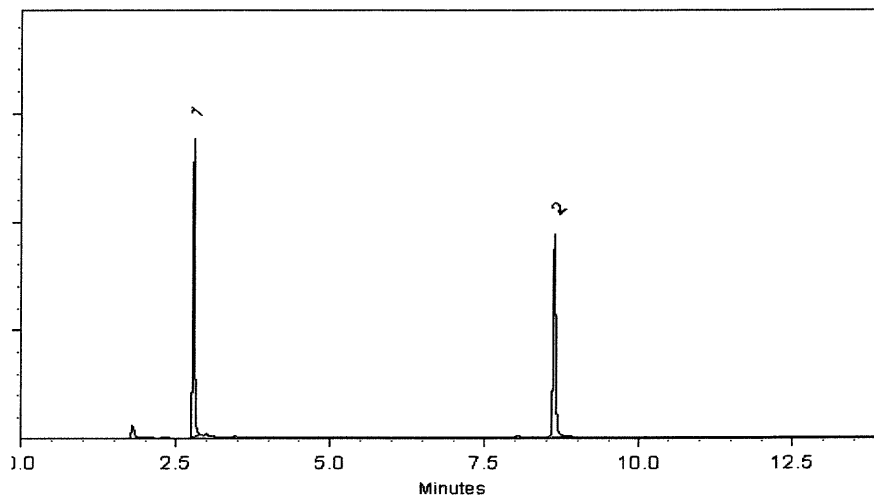
250°C

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.


Matt Fragassi - Mix Technician

Date Mixed: 09-Dec-2021

Balance: 1127510105


Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0179404

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

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

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

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

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%	200.8 µg/mL	+/- 1.1845 µg/mL Gravimetric +/- 6.3653 µg/mL Unstressed +/- 8.3146 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:

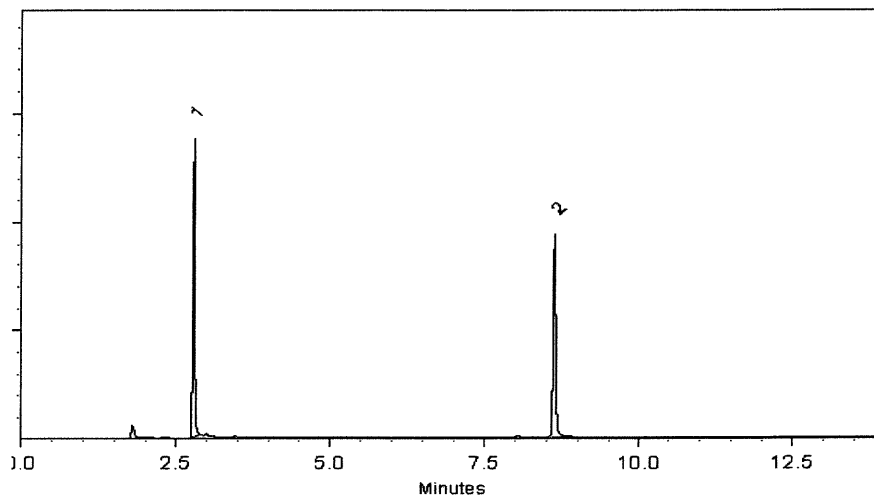
250°C

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.


Matt Fragassi - Mix Technician

Date Mixed: 09-Dec-2021

Balance: 1127510105


Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT

Part Number: 20064
Lot Number: 033121
Description: CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
033131
Ambient (20 °C)
1000
6UTB
NIST Test ID#:

Solvent(s): Hexane
Lot# 233256

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

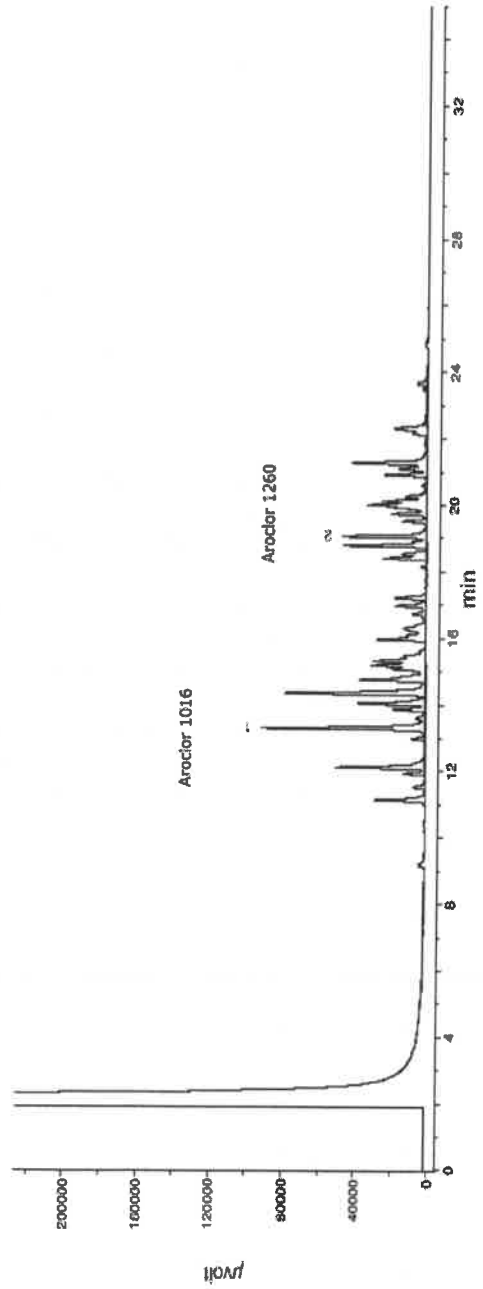
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty		
									(+/-) (µg/mL)	OSHA PEL (TWA)	LD50
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20007	0.20025	1000.9	4.1	12674-11-2	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20007	0.20035	1001.4	4.1	11096-82-5	0.5mg/m3 ori-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 X 5µm 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



P12201
AS
11/16/22
J
P12210



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT

Part Number: 20064
Lot Number: 033121
Description: CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
033131
Expiration Date:
Ambient (20 °C)
1000
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:
6UTB

Solvent(s): Hexane
Lot# 233256

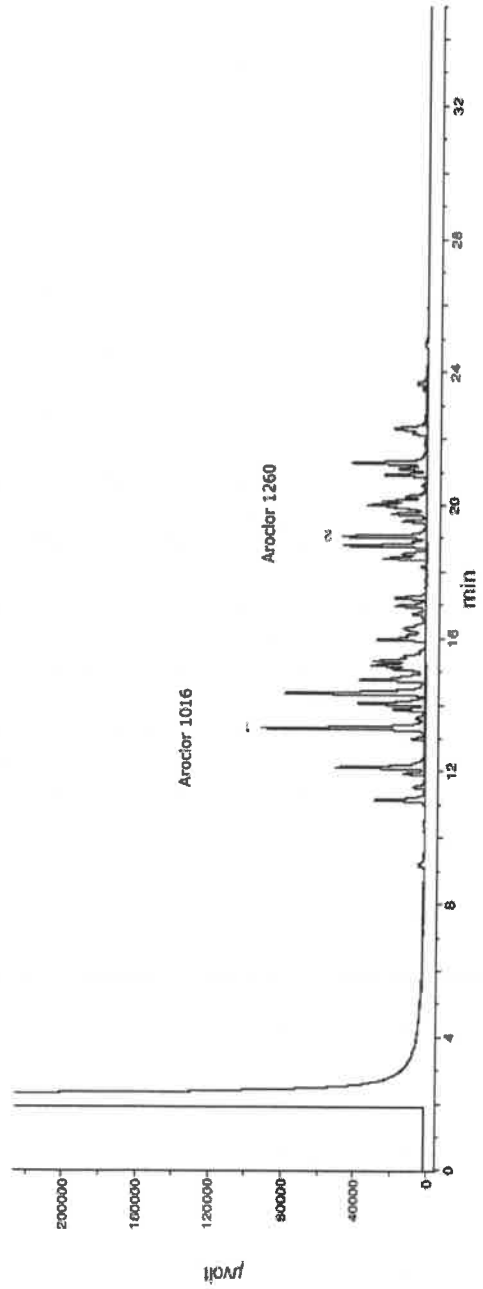
Formulated By:	Prashant Chauhan	033121	DATE
Reviewed By:	Pedro L. Renteria	033121	DATE

Weight(s) shown below were combined and diluted to (mL): 200.1 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

SDS Information												
(Solvent Safety Info. On Attached pg.)												
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Aroclor 1016	15	020491JC	1000	100	0.2	0.20007	0.20025	1000.9	4.1	12674-11-2	N/A	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20007	0.20035	1001.4	4.1	11096-82-5	0.5mg/m3	ori-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 X 5µm 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



P12201
AS
11/16/22
J
P12210



CERTIFIED WEIGHT REPORT

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

Solvent(
Aceton

Weight(s) shown below were combined and diluted to (mL): **100.0**

5E-05 Balance Uncertainty

0.057 Flask Uncertainty

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

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

Comments

GC3-M1 Analysis by Melissa Stonier

Column ID SPB-608 30 meter X 0.53mm X 5 μm film thickness

Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min

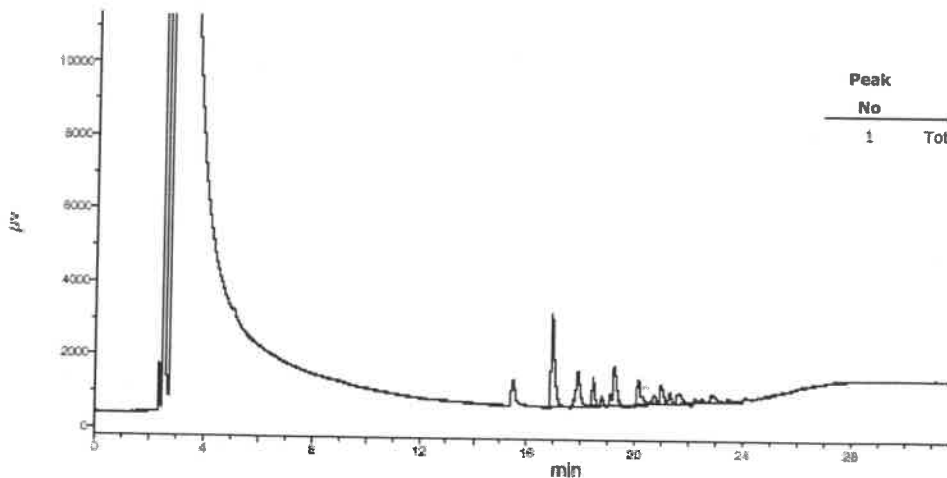
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min

Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)

Rate = 8°C/min, Total run time = 35 min

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

Standard injection = 1.5 μL , Range=3





CERTIFIED WEIGHT REPORT

Part Number: X9166
Lot Number: 060523
Description: Aroclor 1262

Solvent(s): Methanol

Appendix IX Compound

Expiration Date: 060533

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 100

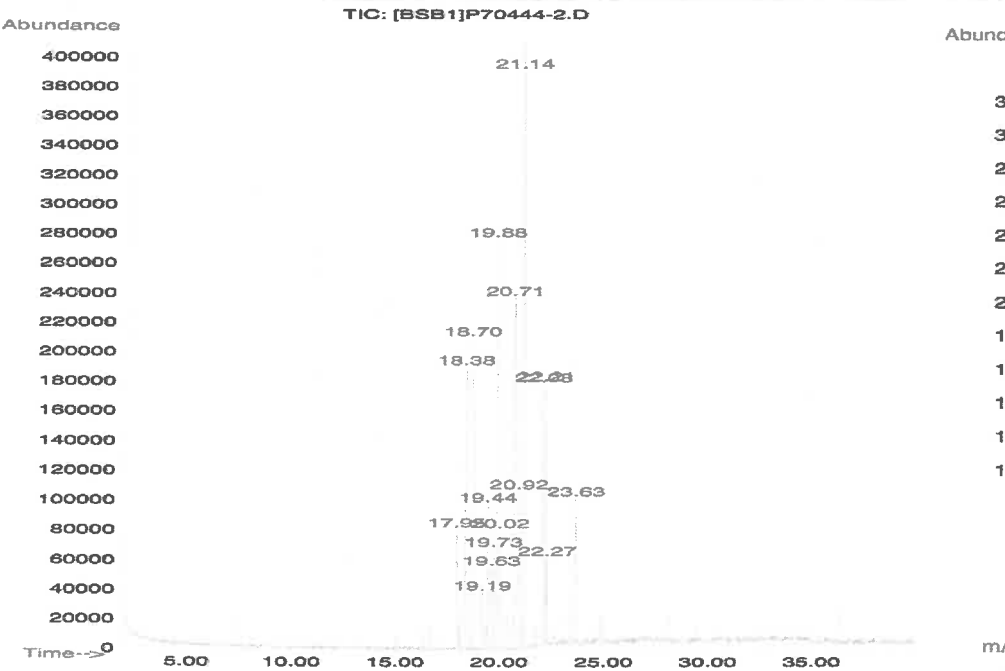
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Co
1. Aroclor 1262	70444	080322	0.10	2.00	0.017	

Method GC7MSD-7.M: Column:(30m X 0.25mm ID X 0.25µm film thickn min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C.



- The certified value is the concentration calculated from gravimetric and volumetric me
- Standards are prepared gravimetrically using balances that are calibrated with weight
- 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 appro
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2043853

P1747

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LIRO Engineers, Inc.
ADDRESS: 703 Lorimer street
CITY: Brooklyn STATE: NY ZIP: 11211
ATTENTION: Steve Frank / Amy Hewson
PHONE: 716 882-5476 FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: Walter Gladwin Park Rec. Center
PROJECT NO.: 19-294-0265.01 LOCATION: Bronx, NY
PROJECT MANAGER: Steve Frank
e-mail: franks@lir-hill.com
PHONE: 716 882-5476 FAX: _____

CLIENT BILLING INFORMATION

BILL TO: _____ PO#: _____
ADDRESS: Scime
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

TCL VOCs
SVOCs
PCBs
Pesticides
TAL metals*
NYCDEP Sanitary or Combined Sewer Discharge Parameters

ANALYSIS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	mw-01	GW		X	3/12/24	0800	7	X	X	X	X	X					
2.	mw-01 DUP	GW		X	↓	0830	7	X	X	X	X	X					
3.	mw-01	GW		X	3/13/24	1000	14							X			
4.	mw-02	GW		X	3/12/24	1200	7	X	X	X	X	X					
5.	TWP-04	GW		X	↓	1100	7	X	X	X	X	X					
6.	Trip Blank #1	DI water		X	—	—	2	X									
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Eva</u>	DATE/TIME: <u>3/13/24</u>	RECEIVED BY: <u>[Signature]</u> <u>1230</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.4</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u>3-13-24</u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>* TAL metals (filtered & unfiltered)</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>3-13-24</u>	RECEIVED BY: 3. <u>[Signature]</u>	Page <u>1</u> of <u>1</u>

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16



LOGIN REPORT/SAMPLE TRANSFER

Order ID : P1747 LIRO01

Order Date : 3/13/2024 12:28:00 PM

Project Mgr :

Client Name : LiRo Engineers, Inc.

Project Name : Walter Gladwin Recreation

Report Type : NYS ASP A

Client Contact : Steve Frank

Receive Date/Time : 3/13/2024 12:00:00 AM

EDD Type : NYSDEC EDD V-3

Invoice Name : LiRo Engineers, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Steve Frank

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P1747-01	MW-01	Water	03/12/2024	08:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
P1747-02	MW-01-DUP	Water	03/12/2024	08:30	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
P1747-03	MW-01	Water	03/13/2024	10:00	VOC-NYCD	NYCDischarge	624.1	5 Bus. Days	
P1747-04	MW-02	Water	03/12/2024	12:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
P1747-05	MW-04	Water	03/12/2024	11:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
P1747-06	TRIP-BLANK	Water	03/12/2024	00:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	

Relinquished By :

Date / Time :

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room