

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q2150	OrderDate:	5/28/2025 3:53:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2150-01	TP-44	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-02	TP-42	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-03	TP-39	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-04	TP-48	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-05	TP-47	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-06	TP-50	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-07	TP-51	SOIL			05/27/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-08	TP-52	SOIL			05/28/25			05/28/25
			PCB	8082A		05/30/25	05/30/25	
			Pesticide-TCL	8081B		05/30/25	05/30/25	
Q2150-09	TP-54	SOIL			05/28/25			05/28/25

LAB CHRONICLE

Q2150-10	TP-53	SOIL	PCB	8082A		05/30/25	05/30/25
			Pesticide-TCL	8081B		05/30/25	05/30/25
					05/28/25		05/28/25
			PCB	8082A		05/30/25	05/30/25
			Pesticide-TCL	8081B		05/30/25	05/30/25

Hit Summary Sheet
SW-846

SDG No.: Q2150

Order ID: Q2150

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-44								
Q2150-01	TP-44	SOIL	alpha-Chlordane	0.76	J	0.15	2.20	ug/kg
Q2150-01	TP-44	SOIL	gamma-Chlordane	0.30	J	0.19	2.20	ug/kg
Total Concentration:				1.060				
Client ID : TP-50								
Q2150-06	TP-50	SOIL	alpha-Chlordane	1.40	JP	0.14	2.00	ug/kg
Q2150-06	TP-50	SOIL	gamma-Chlordane	0.80	JP	0.17	2.00	ug/kg
Total Concentration:				2.200				



QC SUMMARY

Surrogate Summary

SDG No.: **Q2150**

Client: **CDM Smith**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL095732.D	PIBLK-PL095732.D	Decachlorobiphenyl	1	20	18.2	91		43	140
		Tetrachloro-m-xylene	1	20	16.4	82		77	126
		Decachlorobiphenyl	2	20	17.5	88		43	140
		Tetrachloro-m-xylene	2	20	16.0	80		77	126
I.BLK-PL095838.D	PIBLK-PL095838.D	Decachlorobiphenyl	1	20	17.9	89		43	140
		Tetrachloro-m-xylene	1	20	22.7	114		77	126
		Decachlorobiphenyl	2	20	17.0	85		43	140
		Tetrachloro-m-xylene	2	20	22.5	113		77	126
PB168209BL	PB168209BL	Decachlorobiphenyl	1	20	18.1	90		20	144
		Tetrachloro-m-xylene	1	20	20.6	103		19	148
		Decachlorobiphenyl	2	20	17.1	85		20	144
		Tetrachloro-m-xylene	2	20	20.5	103		19	148
Q2150-01	TP-44	Decachlorobiphenyl	1	20	8.77	44		20	144
		Tetrachloro-m-xylene	1	20	11.5	58		19	148
		Decachlorobiphenyl	2	20	7.28	36		20	144
		Tetrachloro-m-xylene	2	20	11.2	56		19	148
Q2150-02	TP-42	Decachlorobiphenyl	1	20	8.23	41		20	144
		Tetrachloro-m-xylene	1	20	12.3	62		19	148
		Decachlorobiphenyl	2	20	6.84	34		20	144
		Tetrachloro-m-xylene	2	20	12.0	60		19	148
Q2150-03	TP-39	Decachlorobiphenyl	1	20	9.19	46		20	144
		Tetrachloro-m-xylene	1	20	17.4	87		19	148
		Decachlorobiphenyl	2	20	8.42	42		20	144
		Tetrachloro-m-xylene	2	20	17.4	87		19	148
Q2150-04	TP-48	Decachlorobiphenyl	1	20	8.61	43		20	144
		Tetrachloro-m-xylene	1	20	10.1	50		19	148
		Decachlorobiphenyl	2	20	7.41	37		20	144
		Tetrachloro-m-xylene	2	20	9.82	49		19	148
Q2150-05	TP-47	Decachlorobiphenyl	1	20	11.4	57		20	144
		Tetrachloro-m-xylene	1	20	18.3	92		19	148
		Decachlorobiphenyl	2	20	10.1	50		20	144
		Tetrachloro-m-xylene	2	20	18.4	92		19	148
Q2150-06	TP-50	Decachlorobiphenyl	1	20	10.6	53		20	144
		Tetrachloro-m-xylene	1	20	12.8	64		19	148
		Decachlorobiphenyl	2	20	9.40	47		20	144
		Tetrachloro-m-xylene	2	20	12.7	63		19	148
Q2150-07	TP-51	Decachlorobiphenyl	1	20	10.6	53		20	144
		Tetrachloro-m-xylene	1	20	18.4	92		19	148
		Decachlorobiphenyl	2	20	9.64	48		20	144
		Tetrachloro-m-xylene	2	20	18.3	92		19	148
Q2150-07MS	TP-51MS	Decachlorobiphenyl	1	20	8.47	42		20	144

Surrogate Summary

SDG No.: **Q2150**

Client: **CDM Smith**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
Q2150-07MS	TP-51MS	Tetrachloro-m-xylene	1	20	14.6	73		19	148
		Decachlorobiphenyl	2	20	8.02	40		20	144
Q2150-07MSD	TP-51MSD	Tetrachloro-m-xylene	2	20	14.5	73		19	148
		Decachlorobiphenyl	1	20	8.48	42		20	144
		Tetrachloro-m-xylene	1	20	14.6	73		19	148
		Decachlorobiphenyl	2	20	8.31	42		20	144
		Tetrachloro-m-xylene	2	20	14.6	73		19	148
Q2150-08	TP-52	Decachlorobiphenyl	1	20	7.81	39		20	144
		Tetrachloro-m-xylene	1	20	12.0	60		19	148
		Decachlorobiphenyl	2	20	7.25	36		20	144
		Tetrachloro-m-xylene	2	20	11.9	59		19	148
Q2150-09	TP-54	Decachlorobiphenyl	1	20	10.7	53		20	144
		Tetrachloro-m-xylene	1	20	16.1	80		19	148
		Decachlorobiphenyl	2	20	10.2	51		20	144
		Tetrachloro-m-xylene	2	20	16.2	81		19	148
Q2150-10	TP-53	Decachlorobiphenyl	1	20	12.2	61		20	144
		Tetrachloro-m-xylene	1	20	18.1	91		19	148
		Decachlorobiphenyl	2	20	11.8	59		20	144
		Tetrachloro-m-xylene	2	20	18.4	92		19	148
		Decachlorobiphenyl	1	20	19.3	97		20	144
PB168209BS	PB168209BS	Tetrachloro-m-xylene	1	20	21.9	109		19	148
		Decachlorobiphenyl	2	20	19.2	96		20	144
		Tetrachloro-m-xylene	2	20	22.0	110		19	148
		Decachlorobiphenyl	1	20	23.7	118		43	140
I.BLK-PL095858.D	PIBLK-PL095858.D	Tetrachloro-m-xylene	1	20	22.7	113		77	126
		Decachlorobiphenyl	2	20	20.2	101		43	140
		Tetrachloro-m-xylene	2	20	22.2	111		77	126
		Decachlorobiphenyl	2	20	22.2	111		77	126

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	Q2150	Analytical Method:	8081B
Client:	CDM Smith	DataFile :	PL095849.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2150-07MS (Column 1)	TP-51MS											
	alpha-BHC	19.86	0	19.7	ug/kg	99				60	144	
	beta-BHC	19.86	0	18.8	ug/kg	95				54	143	
	delta-BHC	19.86	0	19.3	ug/kg	97				29	151	
	gamma-BHC (Lindane)	19.86	0	19.6	ug/kg	99				61	140	
	Heptachlor	19.86	0	18.1	ug/kg	91				63	135	
	Aldrin	19.86	0	19.2	ug/kg	97				49	139	
	Heptachlor epoxide	19.86	0	19.1	ug/kg	96				41	156	
	Endosulfan I	19.86	0	18.6	ug/kg	94				56	142	
	Dieldrin	19.86	0	18.4	ug/kg	93				47	161	
	4,4'-DDE	19.86	0	18.2	ug/kg	92				55	136	
	Endrin	19.86	0	16.9	ug/kg	85				57	139	
	Endosulfan II	19.86	0	17.1	ug/kg	86				40	163	
	4,4'-DDD	19.86	0	18.8	ug/kg	95				47	163	
	Endosulfan sulfate	19.86	0	16.9	ug/kg	85				62	139	
	4,4'-DDT	19.86	0	15.2	ug/kg	77				51	146	
	Methoxychlor	19.86	0	15.4	ug/kg	78				54	136	
	Endrin ketone	19.86	0	17.8	ug/kg	90				60	129	
	Endrin aldehyde	19.86	0	18.2	ug/kg	92				59	132	
	alpha-Chlordane	19.86	0	18.4	ug/kg	93				39	166	
	gamma-Chlordane	19.86	0	18.9	ug/kg	95				44	175	
Client Sample ID: Q2150-07MS (Column 2)	TP-51MS											
	alpha-BHC	19.86	0	20.4	ug/kg	103				60	144	
	beta-BHC	19.86	0	18.9	ug/kg	95				54	143	
	delta-BHC	19.86	0	19.9	ug/kg	100				29	151	
	gamma-BHC (Lindane)	19.86	0	20.3	ug/kg	102				61	140	
	Heptachlor	19.86	0	19.1	ug/kg	96				63	135	
	Aldrin	19.86	0	20.0	ug/kg	101				49	139	
	Heptachlor epoxide	19.86	0	19.7	ug/kg	99				41	156	
	Endosulfan I	19.86	0	19.1	ug/kg	96				56	142	
	Dieldrin	19.86	0	19.0	ug/kg	96				47	161	
	4,4'-DDE	19.86	0	18.9	ug/kg	95				55	136	
	Endrin	19.86	0	17.6	ug/kg	89				57	139	
	Endosulfan II	19.86	0	18.5	ug/kg	93				40	163	
	4,4'-DDD	19.86	0	18.7	ug/kg	94				47	163	
	Endosulfan sulfate	19.86	0	17.8	ug/kg	90				62	139	
	4,4'-DDT	19.86	0	15.8	ug/kg	80				51	146	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2150</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PL095849.D</u>

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits	
			Result	Result							High	RPD
Q2150-07MS (Column 2)	Methoxychlor	19.86	0	15.2	ug/kg	77				54	136	
	Endrin ketone	19.86	0	18.4	ug/kg	93				60	129	
	Endrin aldehyde	19.86	0	18.9	ug/kg	95				59	132	
	alpha-Chlordane	19.86	0	19.4	ug/kg	98				39	166	
	gamma-Chlordane	19.86	0	19.5	ug/kg	98				44	175	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2150</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PL095850.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2150-07MSD (Column 1)	TP-51MSD											
	alpha-BHC	19.88	0	19.8	ug/kg	100		1		60	144	20
	beta-BHC	19.88	0	18.8	ug/kg	95		0		54	143	20
	delta-BHC	19.88	0	19.4	ug/kg	98		1		29	151	20
	gamma-BHC (Lindane)	19.88	0	19.7	ug/kg	99		0		61	140	20
	Heptachlor	19.88	0	18.2	ug/kg	92		1		63	135	20
	Aldrin	19.88	0	19.3	ug/kg	97		0		49	139	20
	Heptachlor epoxide	19.88	0	19.2	ug/kg	97		1		41	156	20
	Endosulfan I	19.88	0	18.7	ug/kg	94		0		56	142	20
	Dieldrin	19.88	0	18.5	ug/kg	93		0		47	161	20
	4,4'-DDE	19.88	0	18.3	ug/kg	92		0		55	136	20
	Endrin	19.88	0	17.0	ug/kg	86		1		57	139	20
	Endosulfan II	19.88	0	17.2	ug/kg	87		1		40	163	20
	4,4'-DDD	19.88	0	18.9	ug/kg	95		0		47	163	20
	Endosulfan sulfate	19.88	0	17.6	ug/kg	89		5		62	139	20
	4,4'-DDT	19.88	0	15.3	ug/kg	77		0		51	146	20
	Methoxychlor	19.88	0	15.9	ug/kg	80		3		54	136	20
	Endrin ketone	19.88	0	17.9	ug/kg	90		0		60	129	20
	Endrin aldehyde	19.88	0	18.2	ug/kg	92		0		59	132	20
	alpha-Chlordane	19.88	0	18.5	ug/kg	93		0		39	166	20
	gamma-Chlordane	19.88	0	19.0	ug/kg	96		1		44	175	20
Client Sample ID: Q2150-07MSD (Column 2)	TP-51MSD											
	alpha-BHC	19.88	0	20.5	ug/kg	103		0		60	144	20
	beta-BHC	19.88	0	18.8	ug/kg	95		0		54	143	20
	delta-BHC	19.88	0	20.1	ug/kg	101		1		29	151	20
	gamma-BHC (Lindane)	19.88	0	20.4	ug/kg	103		1		61	140	20
	Heptachlor	19.88	0	19.0	ug/kg	96		0		63	135	20
	Aldrin	19.88	0	20.2	ug/kg	102		1		49	139	20
	Heptachlor epoxide	19.88	0	19.9	ug/kg	100		1		41	156	20
	Endosulfan I	19.88	0	19.4	ug/kg	98		2		56	142	20
	Dieldrin	19.88	0	19.2	ug/kg	97		1		47	161	20
	4,4'-DDE	19.88	0	19.1	ug/kg	96		1		55	136	20
	Endrin	19.88	0	17.9	ug/kg	90		1		57	139	20
	Endosulfan II	19.88	0	18.6	ug/kg	94		1		40	163	20
	4,4'-DDD	19.88	0	19.0	ug/kg	96		2		47	163	20
	Endosulfan sulfate	19.88	0	18.2	ug/kg	92		2		62	139	20
	4,4'-DDT	19.88	0	16.2	ug/kg	81		1		51	146	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2150</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PL095850.D</u>

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Q2150-07MSD (Column 2)	Methoxychlor	19.88	0	15.4	ug/kg	77		0		54	136	20
	Endrin ketone	19.88	0	18.9	ug/kg	95		2		60	129	20
	Endrin aldehyde	19.88	0	19.1	ug/kg	96		1		59	132	20
	alpha-Chlordane	19.88	0	19.6	ug/kg	99		1		39	166	20
	gamma-Chlordane	19.88	0	19.6	ug/kg	99		1		44	175	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2150	Analytical Method:	8081B
Client:	CDM Smith	Datafile :	PL095854.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB168209BS (Column 1)	alpha-BHC	16.66	17.2	ug/kg	103				84	123	
	beta-BHC	16.66	16.8	ug/kg	101				82	123	
	delta-BHC	16.66	16.0	ug/kg	96				83	126	
	gamma-BHC (Lindane)	16.66	17.3	ug/kg	104				83	125	
	Heptachlor	16.66	16.2	ug/kg	97				83	122	
	Aldrin	16.66	17.0	ug/kg	102				82	124	
	Heptachlor epoxide	16.66	17.0	ug/kg	102				83	120	
	Endosulfan I	16.66	16.6	ug/kg	100				81	124	
	Dieldrin	16.66	16.6	ug/kg	100				85	121	
	4,4'-DDE	16.66	16.2	ug/kg	97				81	123	
	Endrin	16.66	14.6	ug/kg	88				76	130	
	Endosulfan II	16.66	15.6	ug/kg	94				80	125	
	4,4'-DDD	16.66	17.1	ug/kg	103				80	131	
	Endosulfan sulfate	16.66	15.6	ug/kg	94				81	122	
	4,4'-DDT	16.66	13.8	ug/kg	83				70	129	
	Methoxychlor	16.66	13.7	ug/kg	82				60	119	
	Endrin ketone	16.66	16.5	ug/kg	99				77	132	
	Endrin aldehyde	16.66	16.0	ug/kg	96				79	124	
	alpha-Chlordane	16.66	16.6	ug/kg	100				84	120	
	gamma-Chlordane	16.66	16.9	ug/kg	101				83	122	
	alpha-BHC	16.66	18.0	ug/kg	108				84	123	
PB168209BS (Column 2)	beta-BHC	16.66	16.3	ug/kg	98				82	123	
	delta-BHC	16.66	16.7	ug/kg	100				83	126	
	gamma-BHC (Lindane)	16.66	17.9	ug/kg	107				83	125	
	Heptachlor	16.66	16.9	ug/kg	101				83	122	
	Aldrin	16.66	18.0	ug/kg	108				82	124	
	Heptachlor epoxide	16.66	17.7	ug/kg	106				83	120	
	Endosulfan I	16.66	16.8	ug/kg	101				81	124	
	Dieldrin	16.66	17.5	ug/kg	105				85	121	
	4,4'-DDE	16.66	17.1	ug/kg	103				81	123	
	Endrin	16.66	15.7	ug/kg	94				76	130	
	Endosulfan II	16.66	17.0	ug/kg	102				80	125	
	4,4'-DDD	16.66	18.0	ug/kg	108				80	131	
	Endosulfan sulfate	16.66	16.3	ug/kg	98				81	122	
	4,4'-DDT	16.66	14.2	ug/kg	85				70	129	
	Methoxychlor	16.66	13.3	ug/kg	80				60	119	
	Endrin ketone	16.66	16.9	ug/kg	101				77	132	
	Endrin aldehyde	16.66	17.0	ug/kg	102				79	124	
	alpha-Chlordane	16.66	17.4	ug/kg	104				84	120	
	gamma-Chlordane	16.66	17.7	ug/kg	106				83	122	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168209BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: PB168209BL

Lab File ID: PL095840.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/30/2025

Date Analyzed (1): 05/30/2025

Date Analyzed (2): 05/30/2025

Time Analyzed (1): 12:57

Time Analyzed (2): 12:57

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TP-44	Q2150-01	PL095842.D	05/30/2025	05/30/2025
TP-42	Q2150-02	PL095843.D	05/30/2025	05/30/2025
TP-39	Q2150-03	PL095844.D	05/30/2025	05/30/2025
TP-48	Q2150-04	PL095845.D	05/30/2025	05/30/2025
TP-47	Q2150-05	PL095846.D	05/30/2025	05/30/2025
TP-50	Q2150-06	PL095847.D	05/30/2025	05/30/2025
TP-51	Q2150-07	PL095848.D	05/30/2025	05/30/2025
TP-51MS	Q2150-07MS	PL095849.D	05/30/2025	05/30/2025
TP-51MSD	Q2150-07MSD	PL095850.D	05/30/2025	05/30/2025
TP-52	Q2150-08	PL095851.D	05/30/2025	05/30/2025
TP-54	Q2150-09	PL095852.D	05/30/2025	05/30/2025
TP-53	Q2150-10	PL095853.D	05/30/2025	05/30/2025
PB168209BS	PB168209BS	PL095854.D	05/30/2025	05/30/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095842.D	1	05/30/25 08:50	05/30/25 13:24	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.20	ug/kg
319-85-7	beta-BHC	0.23	U	0.23	2.20	ug/kg
319-86-8	delta-BHC	0.49	U	0.49	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	0.18	U	0.18	2.20	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.20	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.24	U	0.24	2.20	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.18	U	0.18	2.20	ug/kg
72-55-9	4,4-DDE	0.18	U	0.18	2.20	ug/kg
72-20-8	Endrin	0.18	U	0.18	2.20	ug/kg
33213-65-9	Endosulfan II	0.37	U	0.37	2.20	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.20	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	2.20	ug/kg
72-43-5	Methoxychlor	0.47	U	0.47	2.20	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.47	U	0.47	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.76	J	0.15	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.30	J	0.19	2.20	ug/kg
8001-35-2	Toxaphene	6.80	U	6.80	41.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.77		20 - 144	44%	SPK: 20
877-09-8	Tetrachloro-m-xylene	11.5		19 - 148	58%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78.9
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095842.D	1	05/30/25 08:50	05/30/25 13:24	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095842.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 13:24
 Operator : AR\AJ
 Sample : Q2150-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-44

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:52:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.885	36363777	44005242	11.525	11.243
28)	SA Decachlor...	9.105	8.063	20658463	31866376	8.767	7.285
Target Compounds							
10)	B gamma-Chl...	5.972	5.121	2795399	3019453	0.718m	0.575m
11)	B alpha-Chl...	6.057	5.185	7158092	6283936	1.813	1.208m#

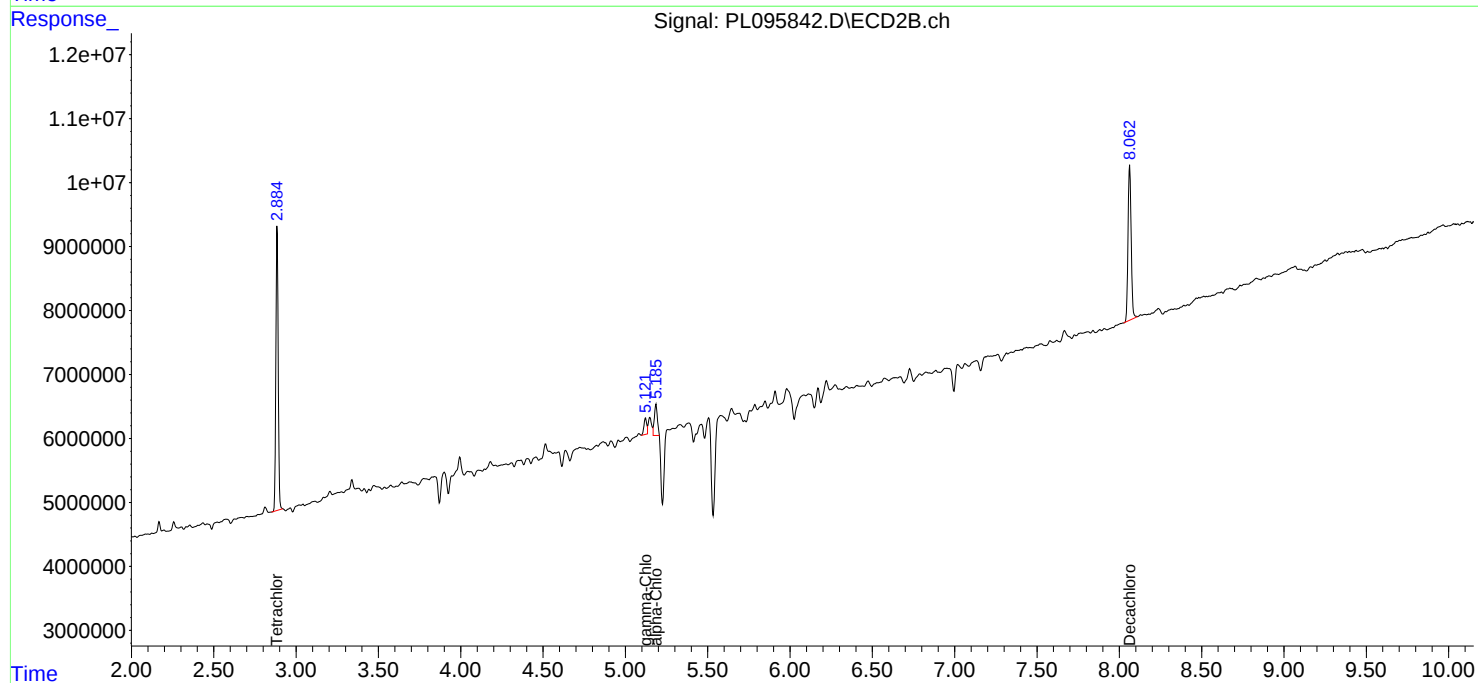
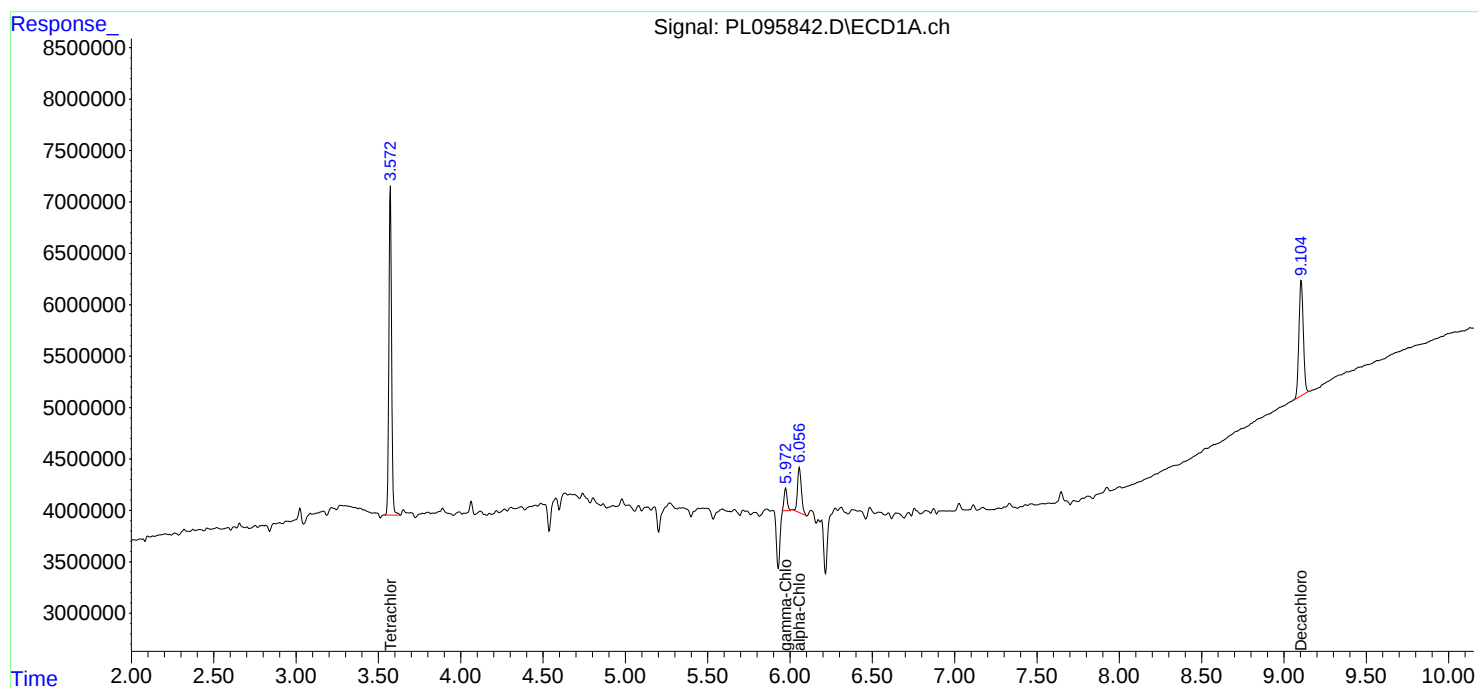
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

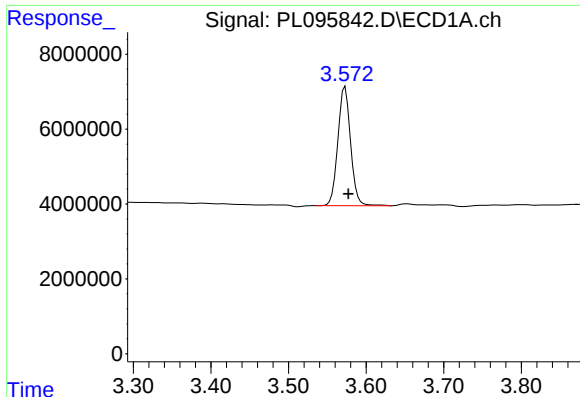
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 13:24
Operator : AR\AJ
Sample : Q2150-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-44

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

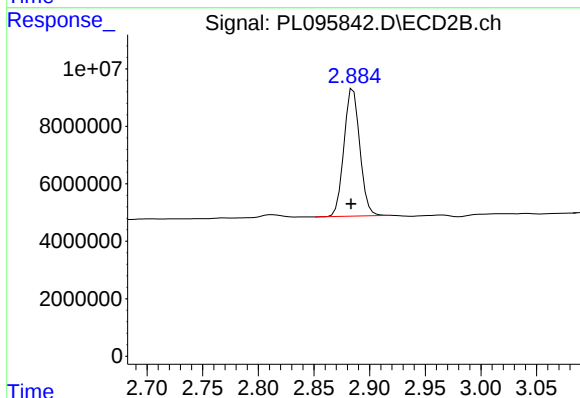




#1 Tetrachloro-m-xylene

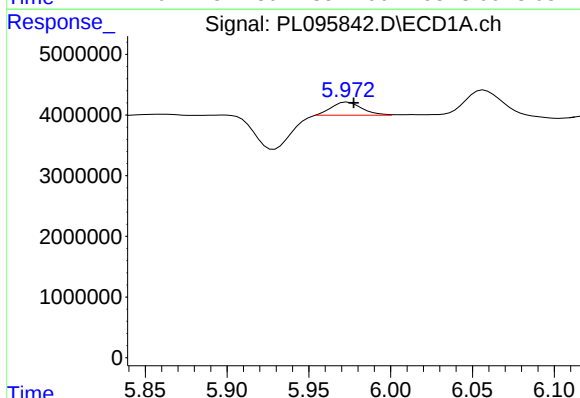
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 36363777
Conc: 11.52 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-44



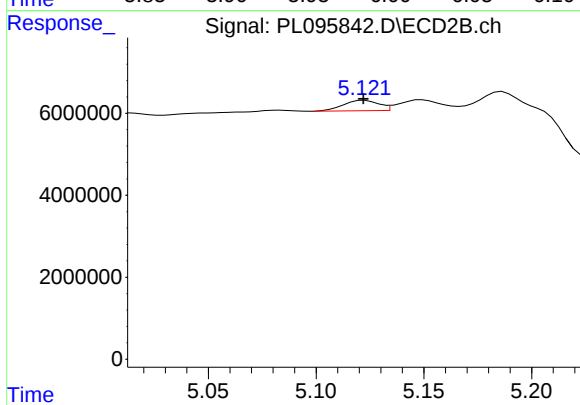
#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 44005242
Conc: 11.24 ng/ml



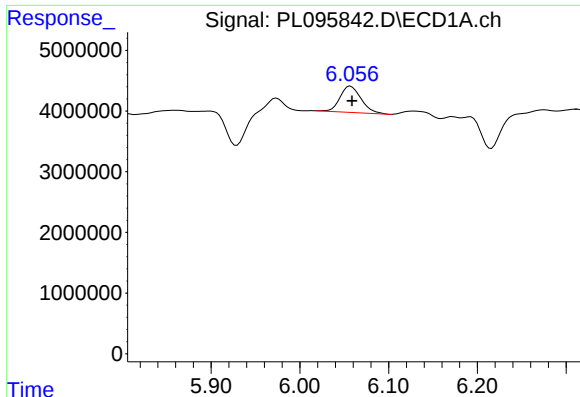
#10 gamma-Chlordane

R.T.: 5.972 min
Delta R.T.: -0.005 min
Response: 2795399
Conc: 0.72 ng/ml m



#10 gamma-Chlordane

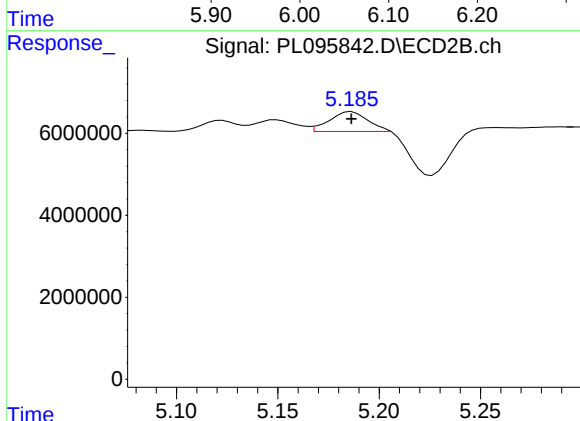
R.T.: 5.121 min
Delta R.T.: 0.000 min
Response: 3019453
Conc: 0.57 ng/ml m



#11 alpha-Chlordane

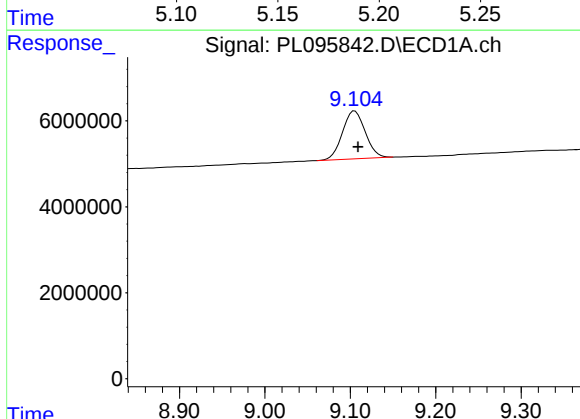
R.T.: 6.057 min
Delta R.T.: -0.002 min
Response: 7158092
Conc: 1.81 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-44



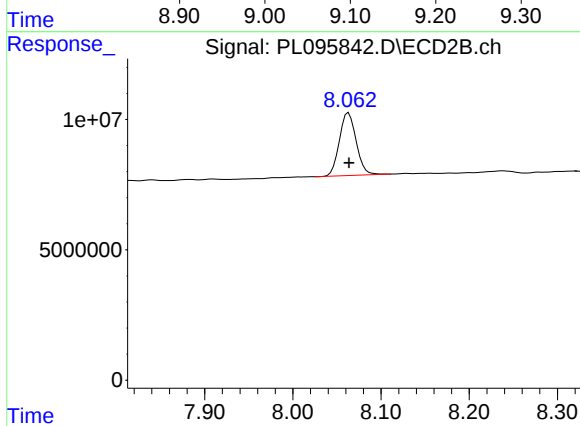
#11 alpha-Chlordane

R.T.: 5.185 min
Delta R.T.: -0.001 min
Response: 6283936
Conc: 1.21 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 20658463
Conc: 8.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 31866376
Conc: 7.28 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095843.D	1	05/30/25 08:50	05/30/25 13:38	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.23		20 - 144	41%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.3		19 - 148	62%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095843.D	1	05/30/25 08:50	05/30/25 13:38	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 13:38
Operator : AR\AJ
Sample : Q2150-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-42

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	38913594	47027429	12.333	12.015
28)	SA Decachlor...	9.105	8.064	19388323	29929885	8.228	6.842

Target Compounds

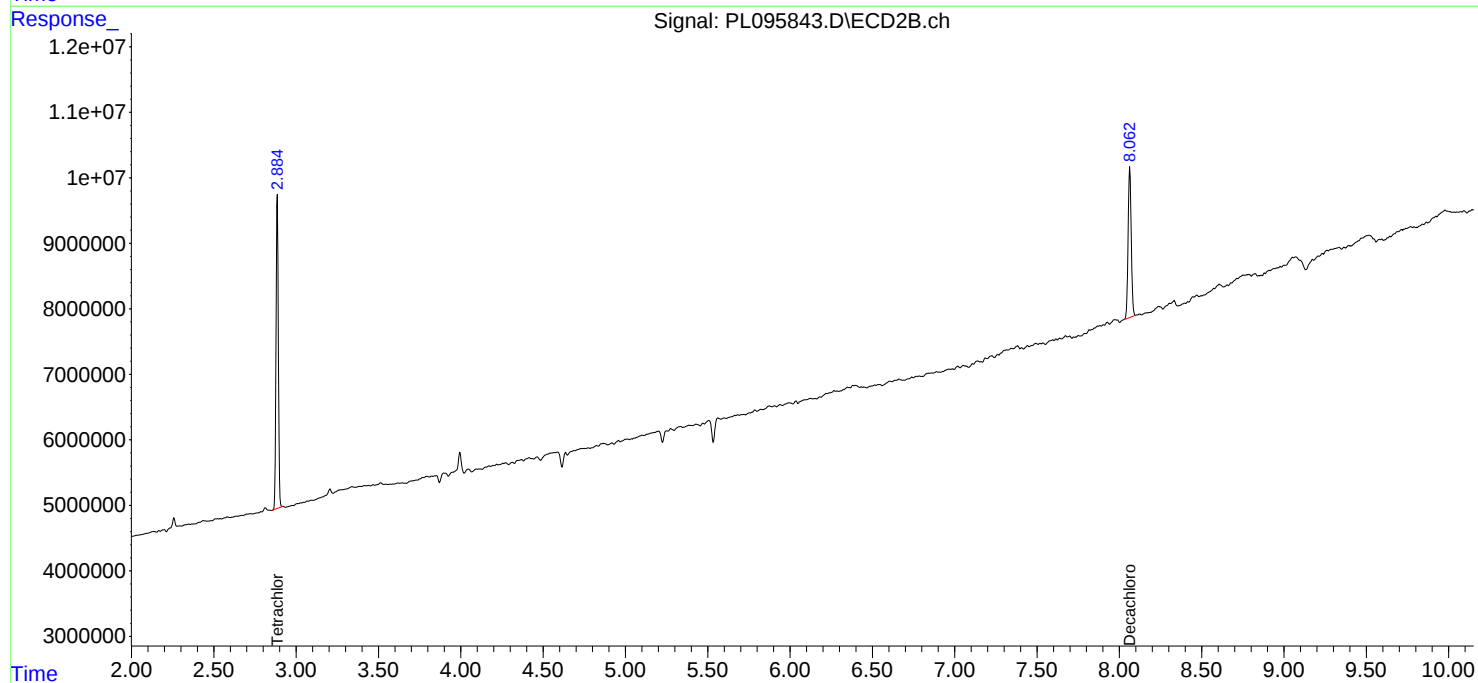
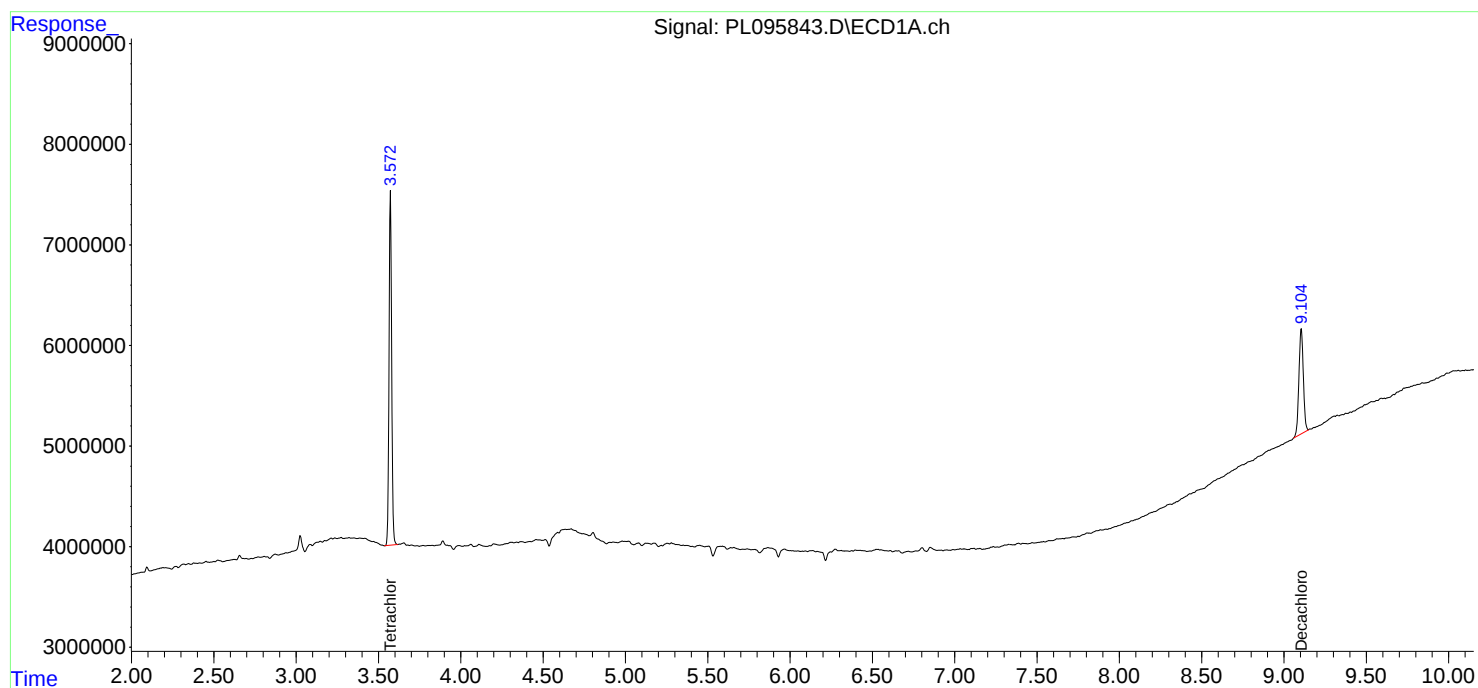
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

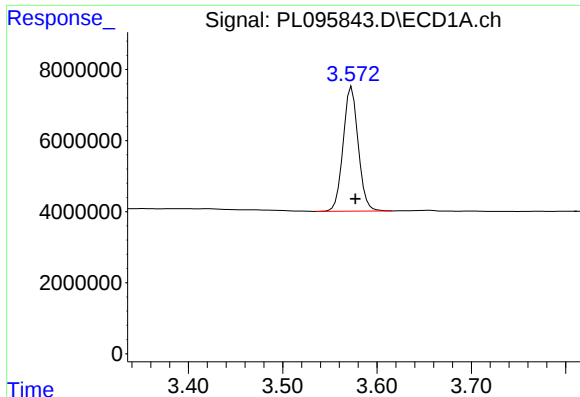
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 13:38
Operator : AR\AJ
Sample : Q2150-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-42

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

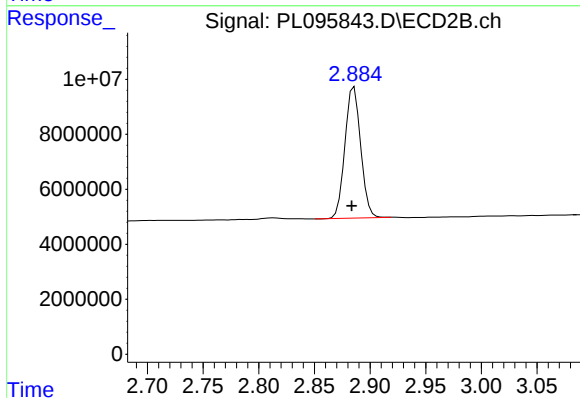




#1 Tetrachloro-m-xylene

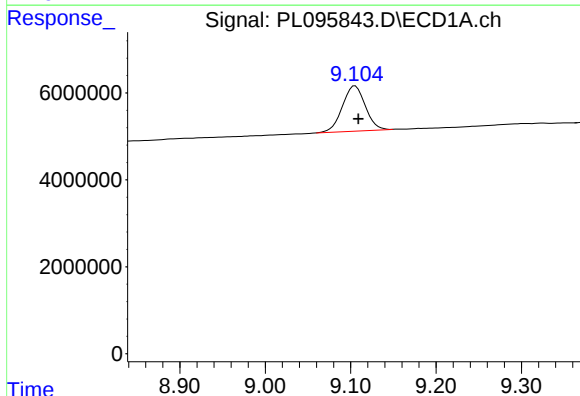
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 38913594
Conc: 12.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-42



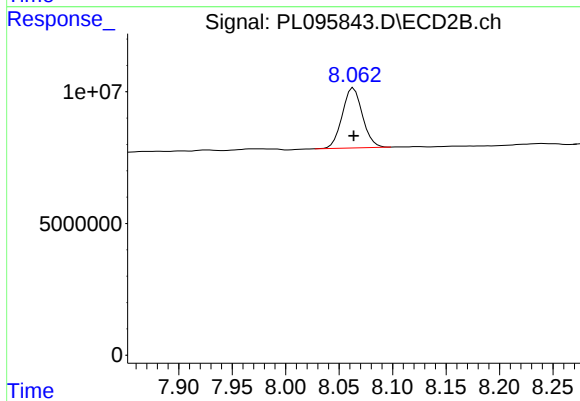
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 47027429
Conc: 12.02 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 19388323
Conc: 8.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: 0.000 min
Response: 29929885
Conc: 6.84 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095844.D	1	05/30/25 08:50	05/30/25 13:51	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	9.19		20 - 144	46%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		19 - 148	87%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	05/27/25	
Project:	South River WM Replacement		Date Received:	05/28/25	
Client Sample ID:	TP-39		SDG No.:	Q2150	
Lab Sample ID:	Q2150-03		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	83.7	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095844.D	1	05/30/25 08:50	05/30/25 13:51	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095844.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 13:51
 Operator : AR\AJ
 Sample : Q2150-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-39

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:52:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.886	55009401	68255122	17.434m	17.439
28)	SA Decachlor...	9.105	8.063	21653015	36843317	9.189	8.422

Target Compounds

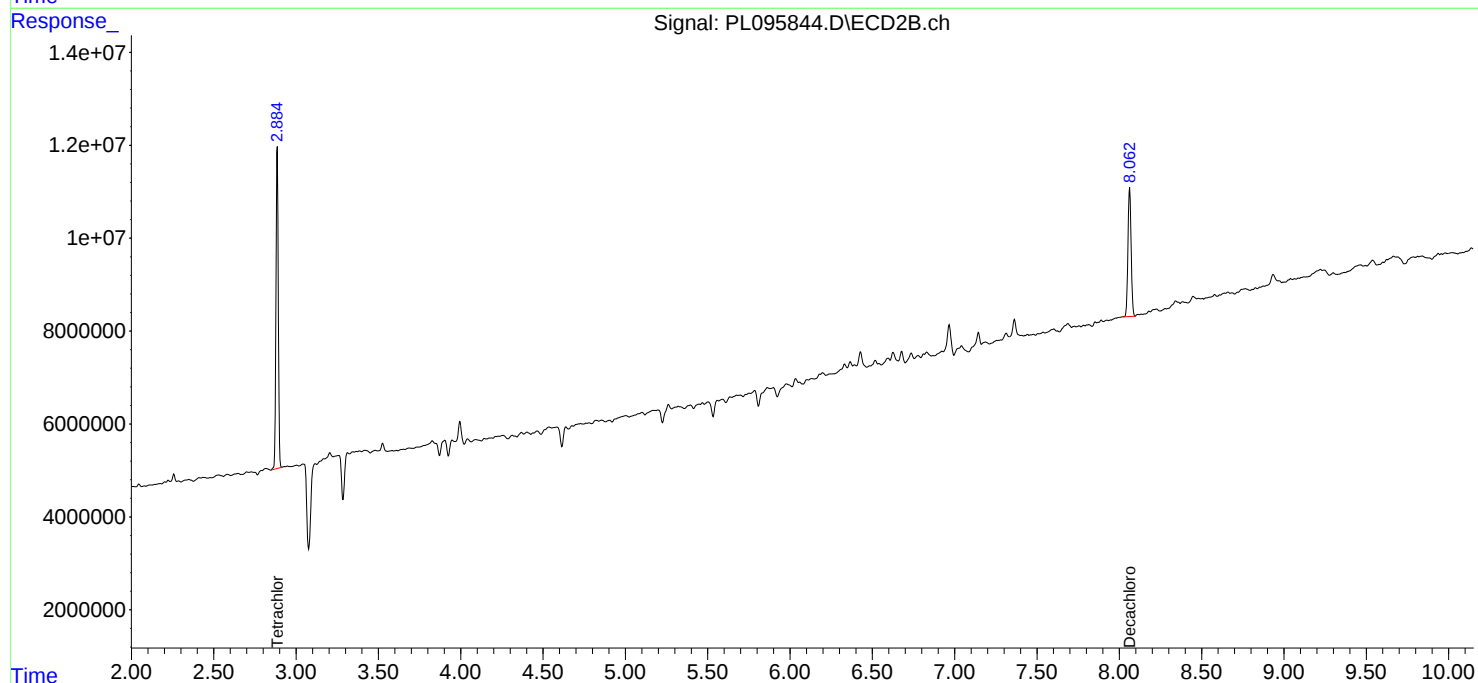
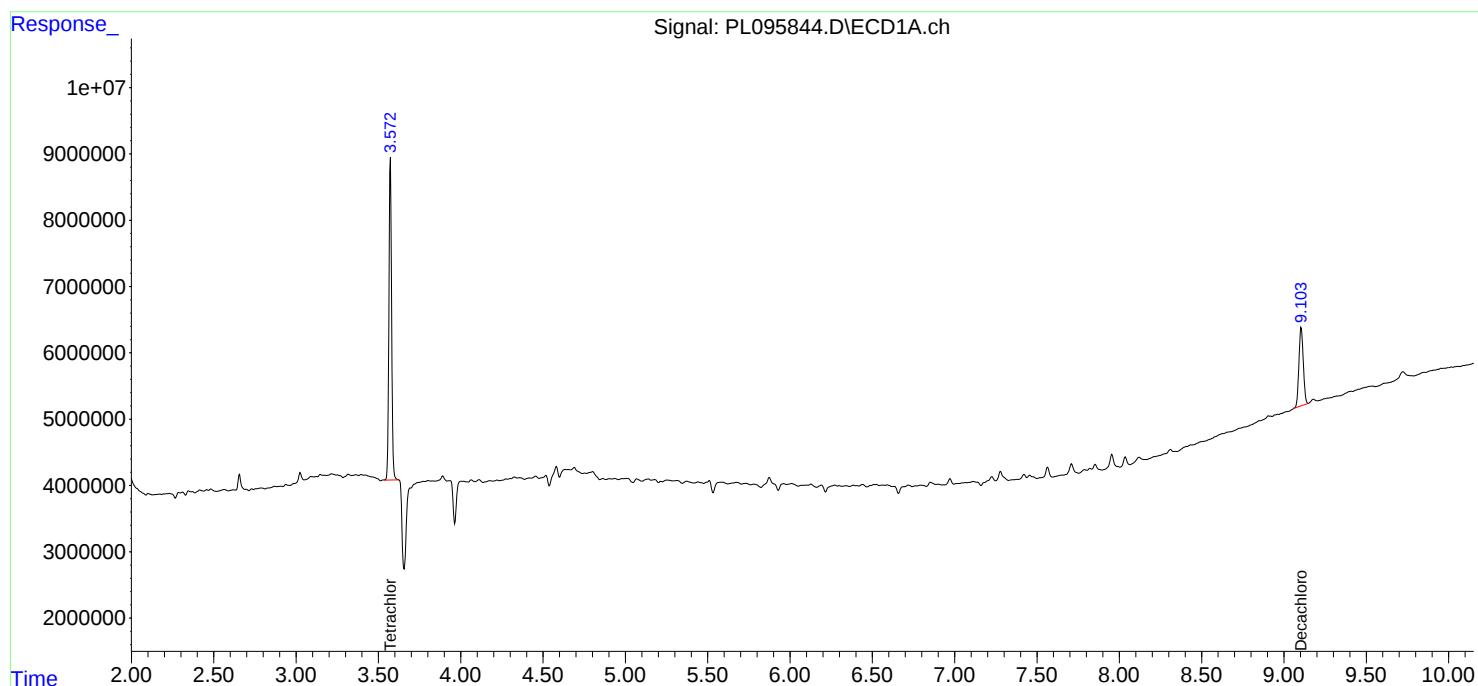
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

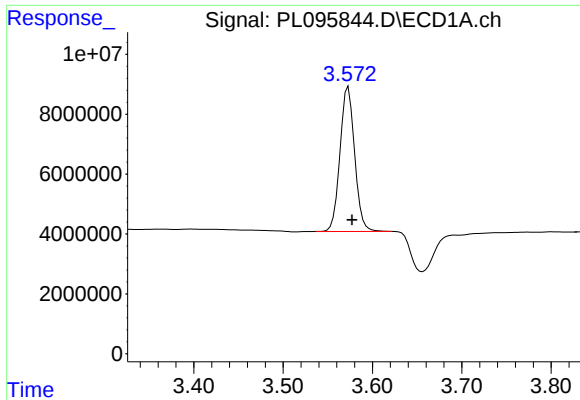
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 13:51
Operator : AR\AJ
Sample : Q2150-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-39

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

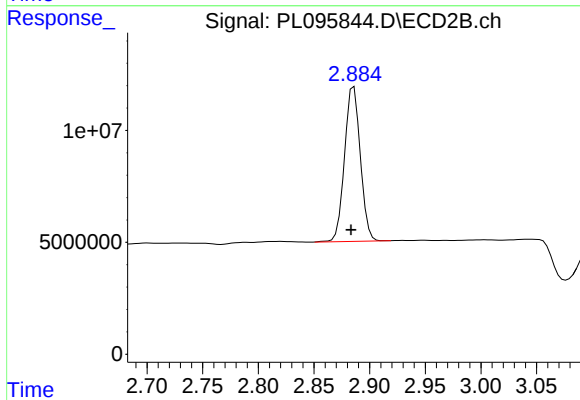




#1 Tetrachloro-m-xylene

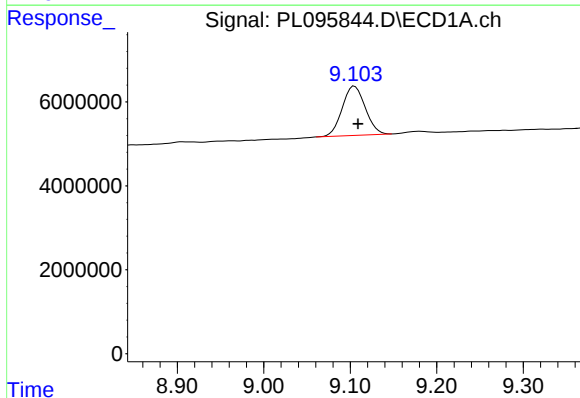
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 55009401
Conc: 17.43 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-39



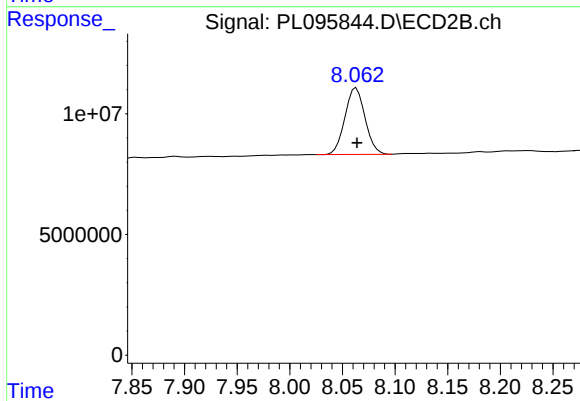
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 68255122
Conc: 17.44 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 21653015
Conc: 9.19 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 36843317
Conc: 8.42 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	80.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095845.D	1	05/30/25 08:50	05/30/25 14:05	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.48	U	0.48	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.24	U	0.24	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.36	U	0.36	2.10	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.46	U	0.46	2.10	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.46	U	0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.19	U	0.19	2.10	ug/kg
8001-35-2	Toxaphene	6.70	U	6.70	40.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.61		20 - 144	43%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.1		19 - 148	50%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	80.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095845.D	1	05/30/25 08:50	05/30/25 14:05	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:05
Operator : AR\AJ
Sample : Q2150-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-48

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	31781236	38422331	10.072	9.817
28)	SA Decachlor...	9.105	8.063	20281440	32433545	8.607	7.414

Target Compounds

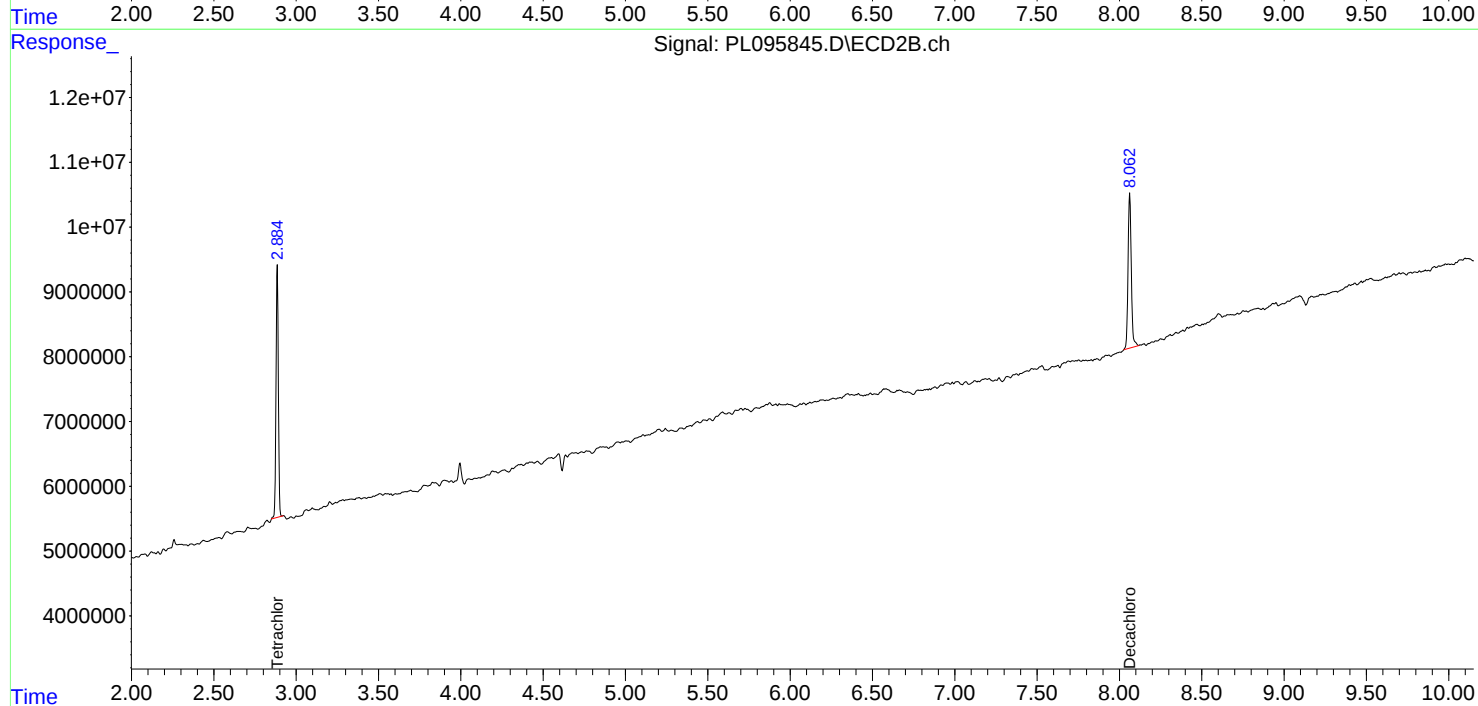
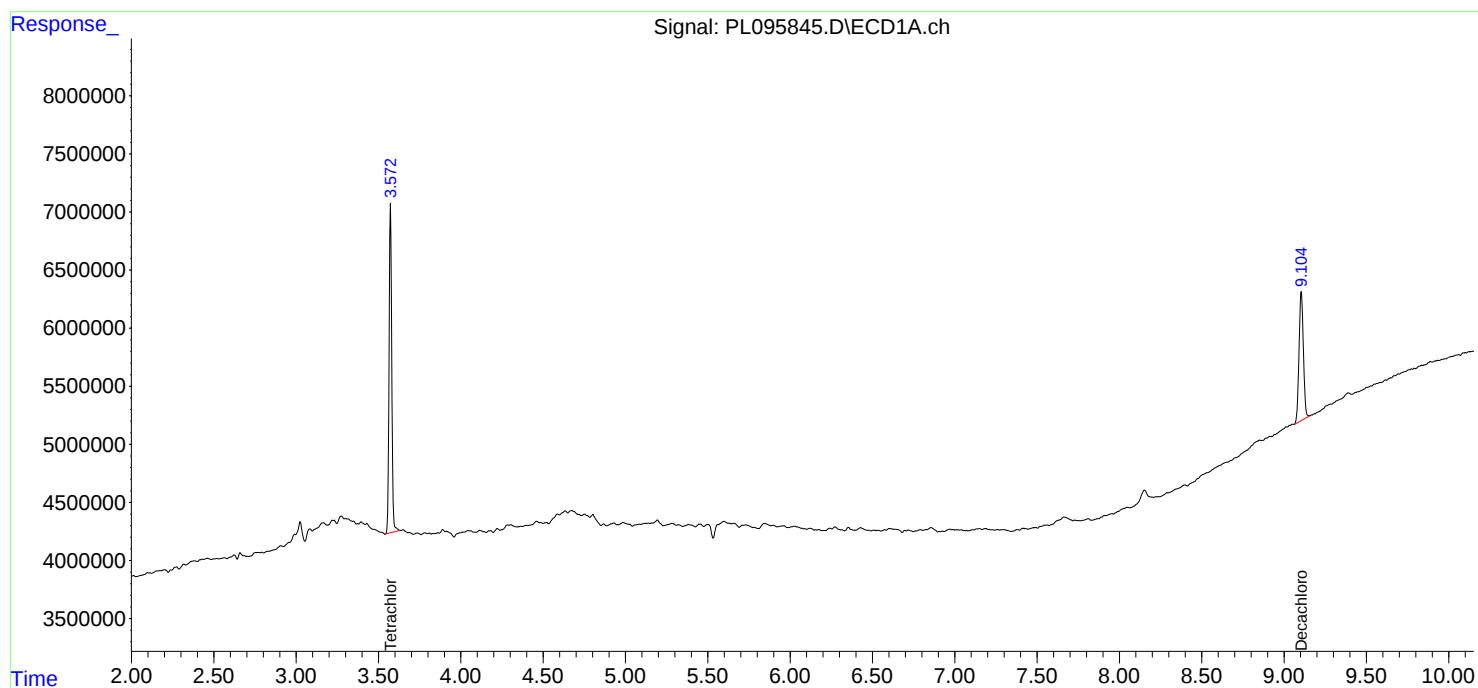
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

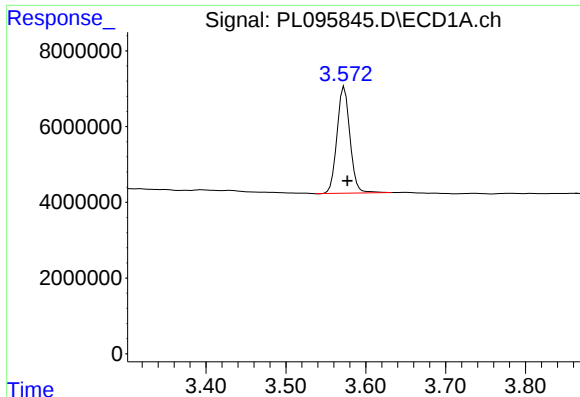
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:05
Operator : AR\AJ
Sample : Q2150-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-48

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:52:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

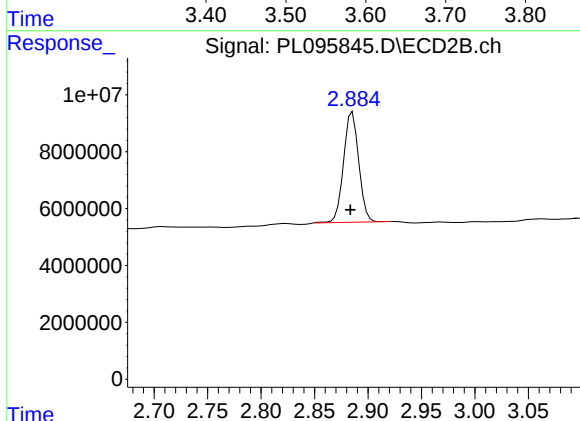




#1 Tetrachloro-m-xylene

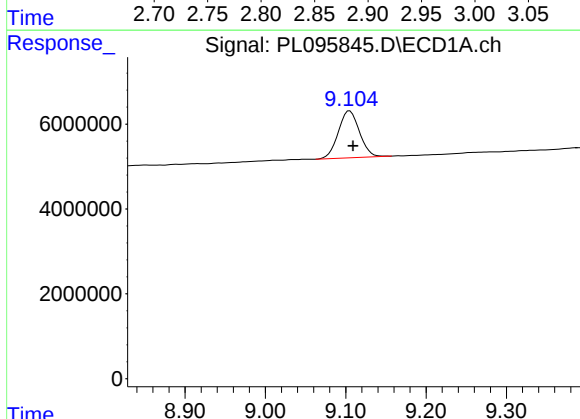
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 31781236
Conc: 10.07 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-48



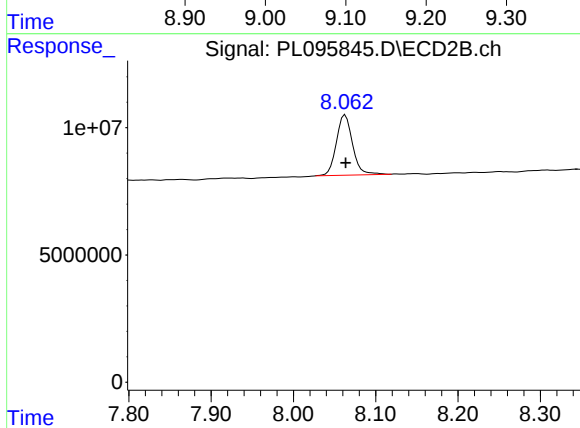
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 38422331
Conc: 9.82 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 20281440
Conc: 8.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 32433545
Conc: 7.41 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	81
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095846.D	1	05/30/25 08:50	05/30/25 14:18	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.48	U	0.48	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.36	U	0.36	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.46	U	0.46	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.46	U	0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.70	U	6.70	40.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.4		20 - 144	57%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	05/27/25	
Project:	South River WM Replacement		Date Received:	05/28/25	
Client Sample ID:	TP-47		SDG No.:	Q2150	
Lab Sample ID:	Q2150-05		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	81	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095846.D	1	05/30/25 08:50	05/30/25 14:18	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:18
Operator : AR\AJ
Sample : Q2150-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-47

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.571	2.886	57844821	72074466	18.333m	18.415
28)	SA Decachlor...	9.106	8.064	26913847	43943693	11.422	10.046

Target Compounds

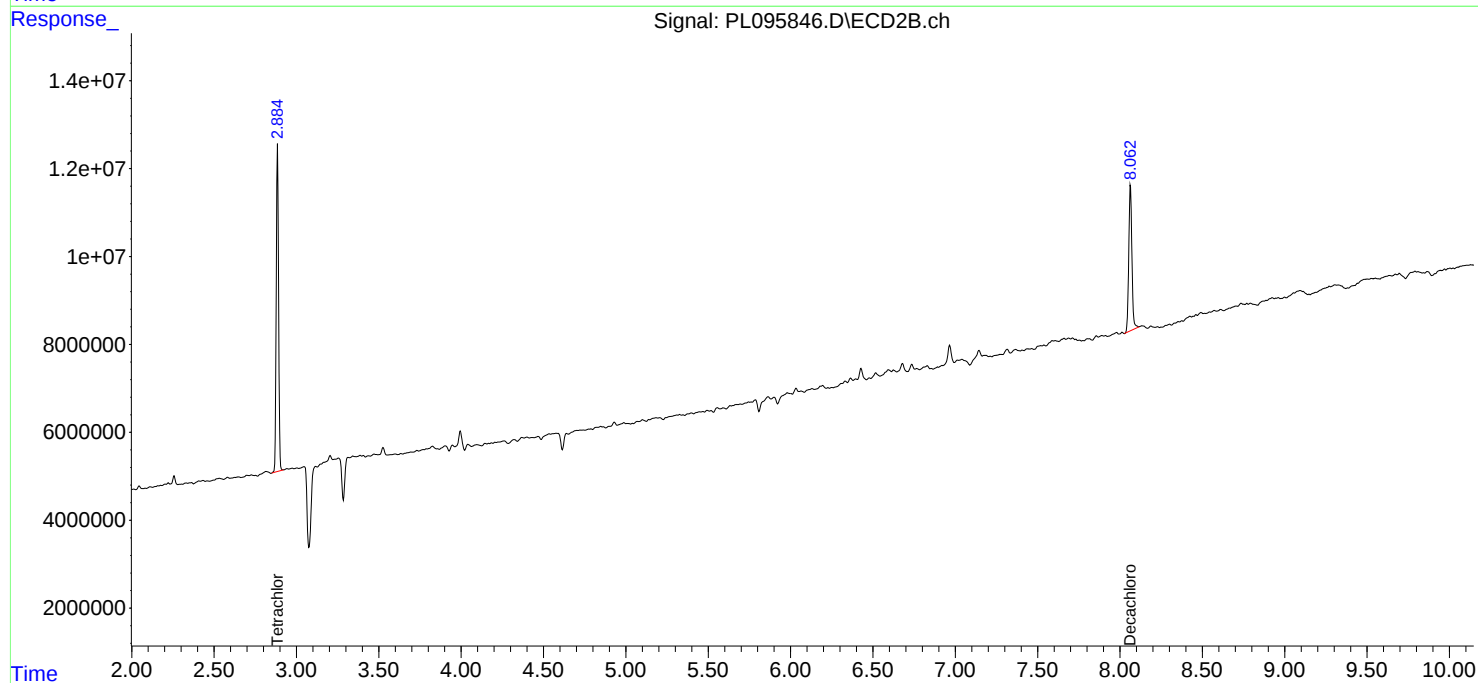
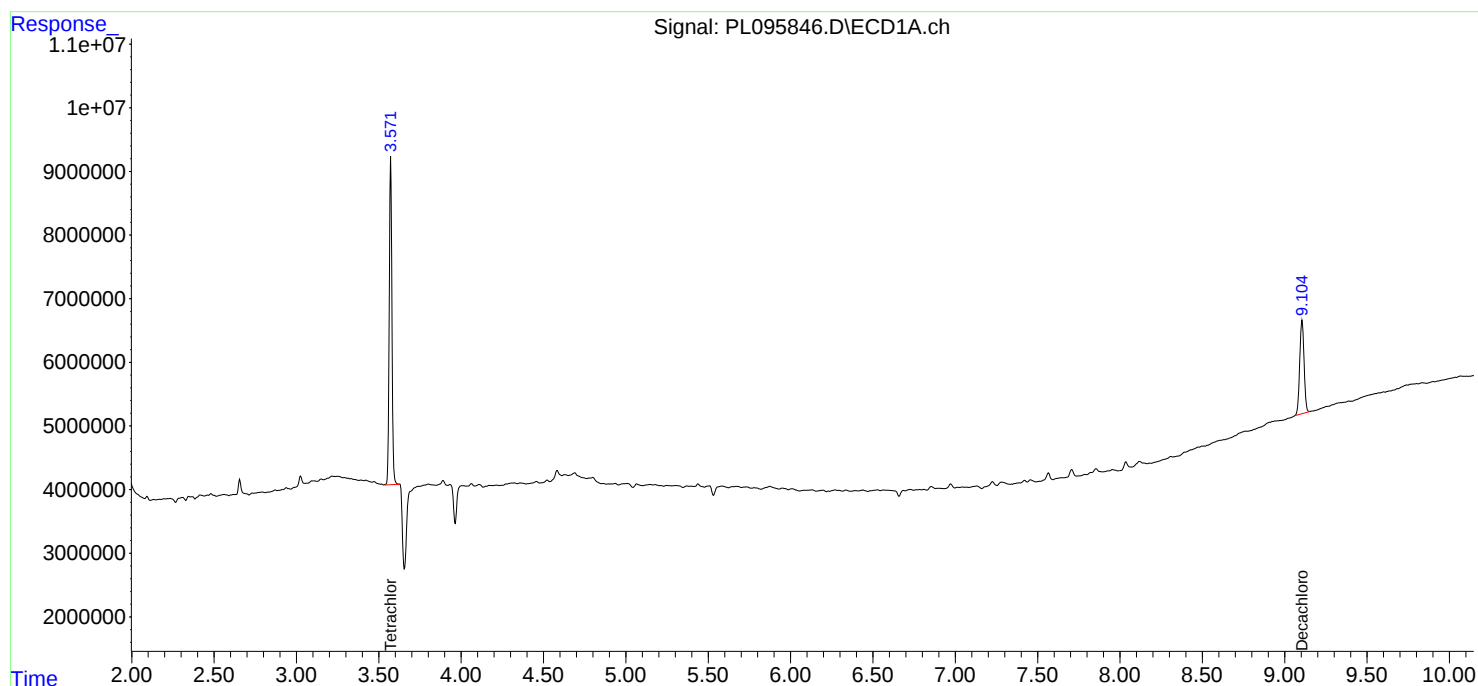
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

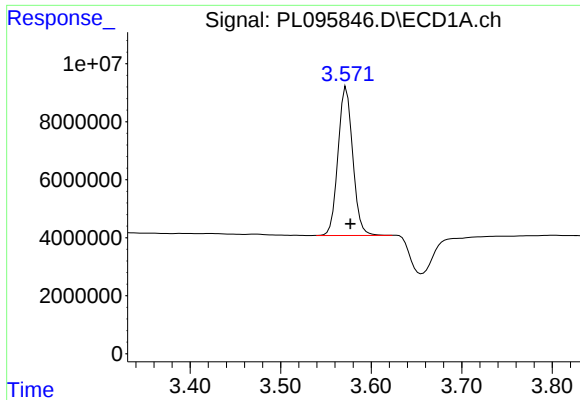
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:18
Operator : AR\AJ
Sample : Q2150-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-47

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

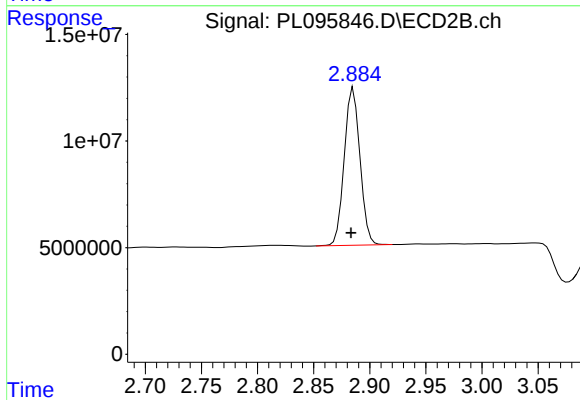




#1 Tetrachloro-m-xylene

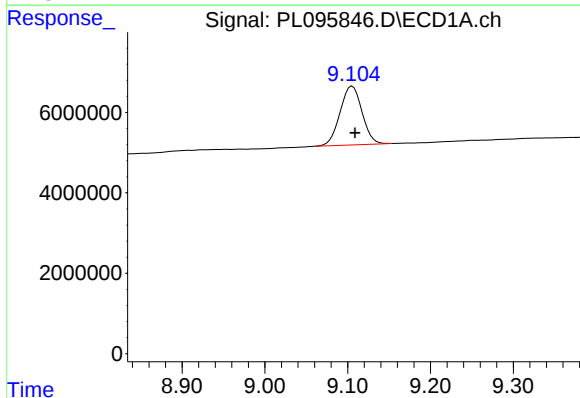
R.T.: 3.571 min
Delta R.T.: -0.006 min
Response: 57844821
Conc: 18.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-47



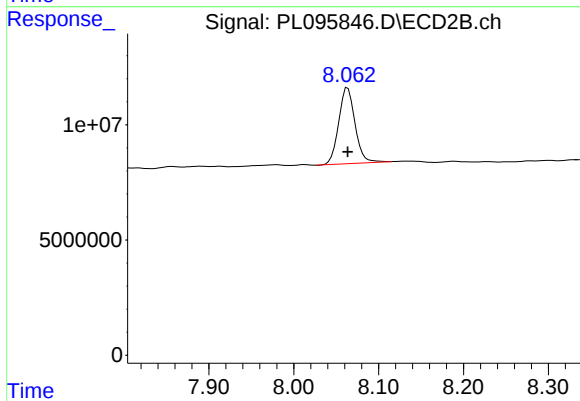
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 72074466
Conc: 18.41 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.106 min
Delta R.T.: -0.003 min
Response: 26913847
Conc: 11.42 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: 0.000 min
Response: 43943693
Conc: 10.05 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095847.D	1	05/30/25 08:50	05/30/25 14:32	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	1.40	JP	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.80	JP	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.6		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.8		19 - 148	64%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095847.D	1	05/30/25 08:50	05/30/25 14:32	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095847.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 14:32
 Operator : AR\AJ
 Sample : Q2150-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-50

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:53:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	40540572	49606538	12.849	12.674
28)	SA Decachlor...	9.106	8.063	24863221	41101885	10.552	9.396
Target Compounds							
10)	B gamma-Chl...	5.973	5.121	8055239	4855307	2.070m	0.924m#
11)	B alpha-Chl...	6.058	5.184	14270580	11106458	3.614m	2.135m#

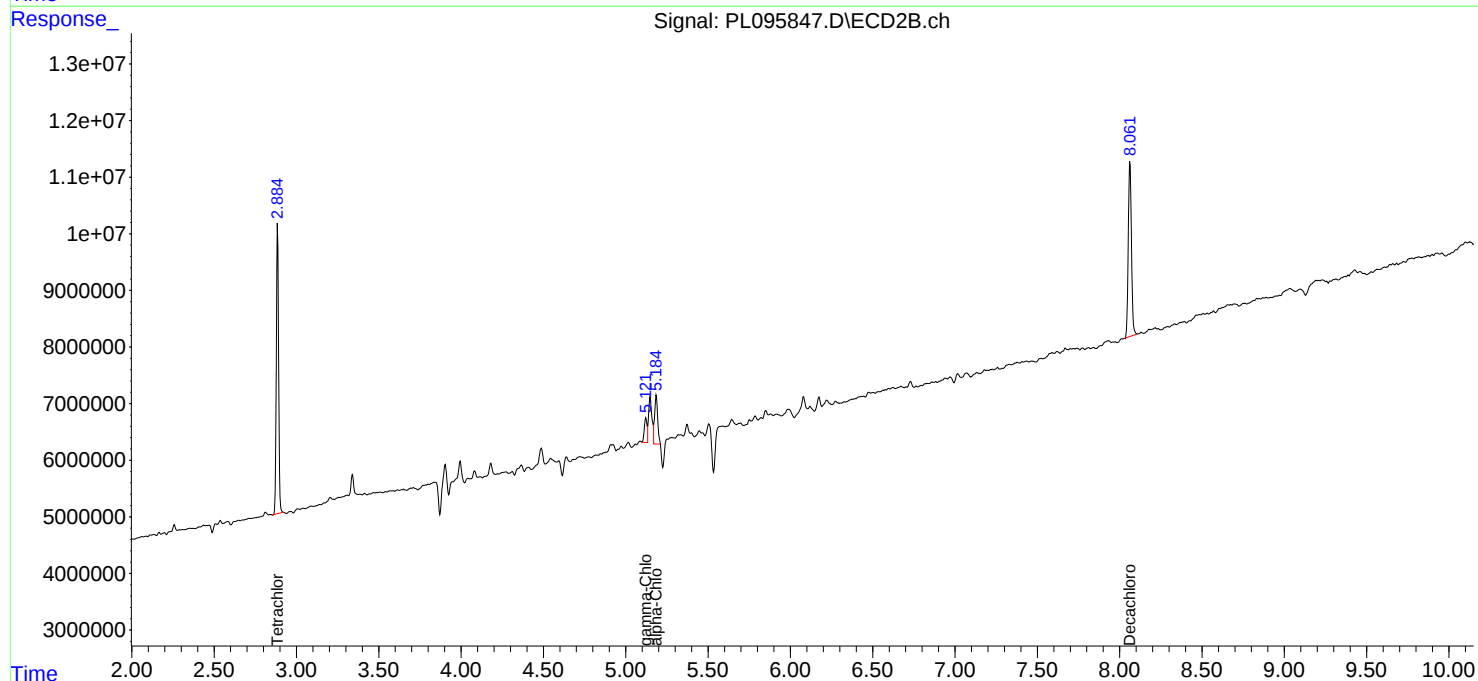
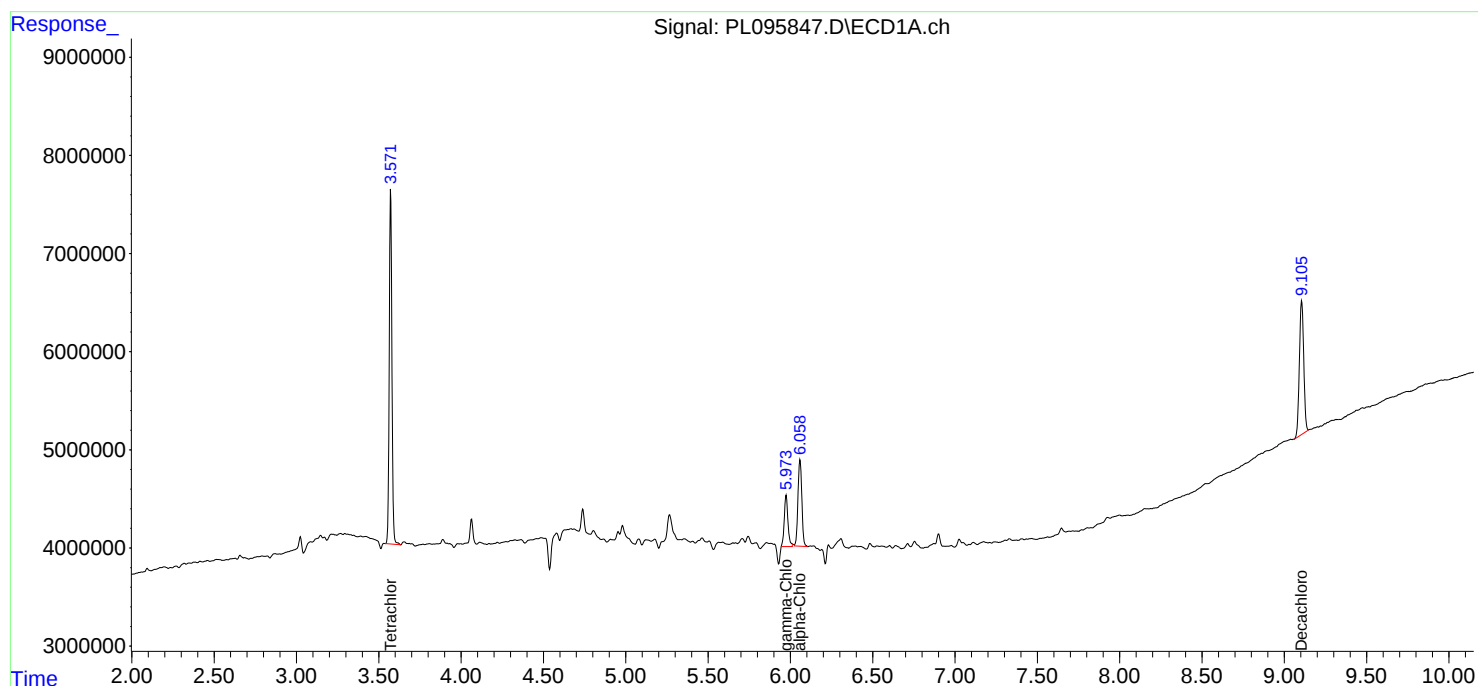
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

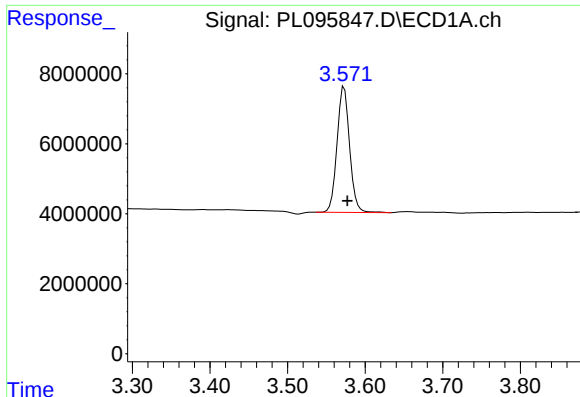
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095847.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:32
Operator : AR\AJ
Sample : Q2150-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-50

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

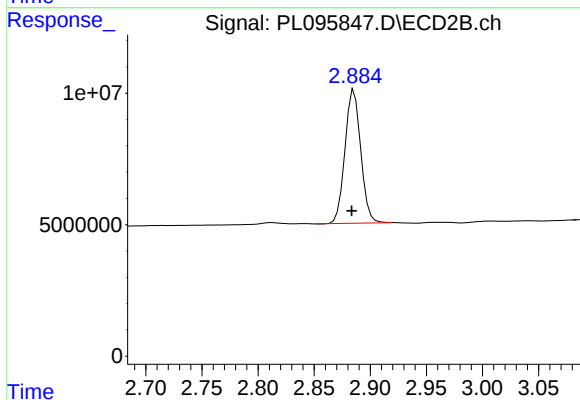




#1 Tetrachloro-m-xylene

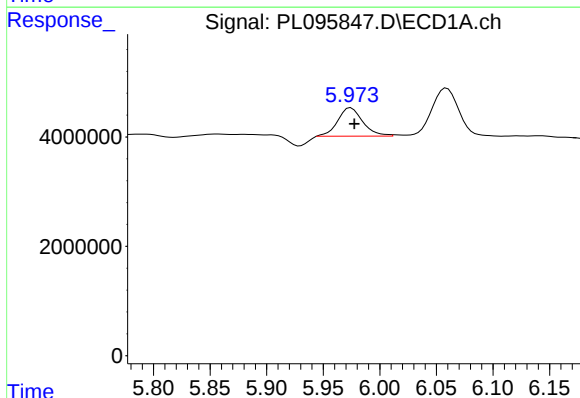
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 40540572
Conc: 12.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-50



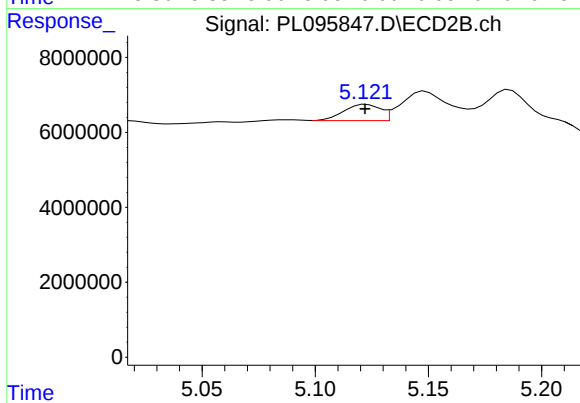
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 49606538
Conc: 12.67 ng/ml



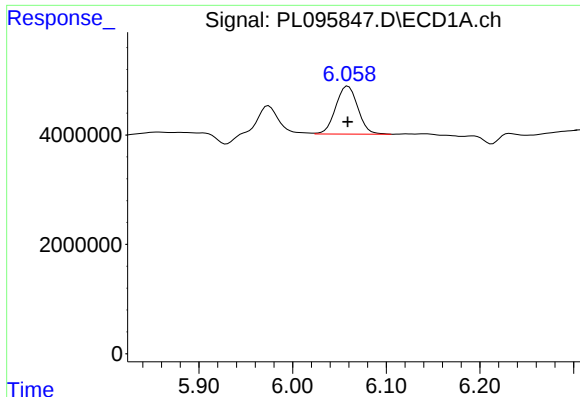
#10 gamma-Chlordane

R.T.: 5.973 min
Delta R.T.: -0.004 min
Response: 8055239
Conc: 2.07 ng/ml m



#10 gamma-Chlordane

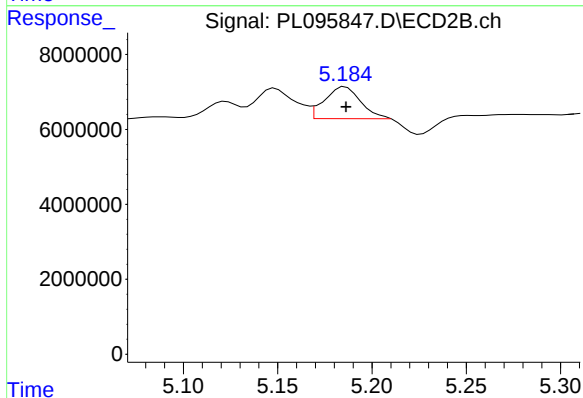
R.T.: 5.121 min
Delta R.T.: 0.000 min
Response: 4855307
Conc: 0.92 ng/ml m



#11 alpha-Chlordane

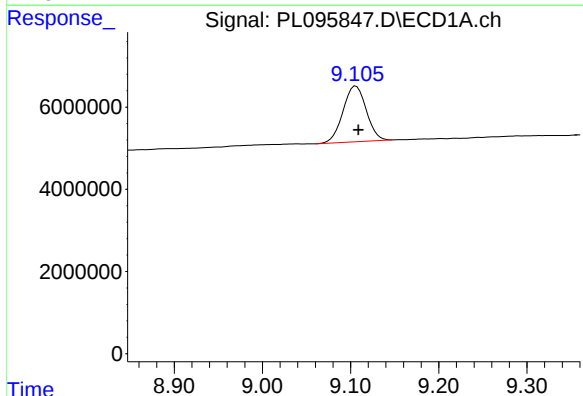
R.T.: 6.058 min
Delta R.T.: 0.000 min
Response: 14270580
Conc: 3.61 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-50



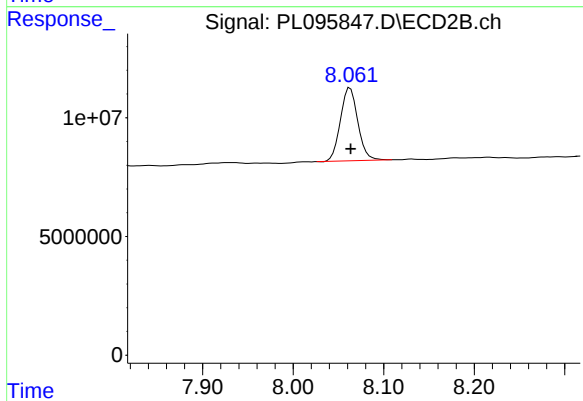
#11 alpha-Chlordane

R.T.: 5.184 min
Delta R.T.: -0.002 min
Response: 11106458
Conc: 2.13 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.106 min
Delta R.T.: -0.003 min
Response: 24863221
Conc: 10.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 41101885
Conc: 9.40 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095848.D	1	05/30/25 08:50	05/30/25 14:46	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.6		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095848.D	1	05/30/25 08:50	05/30/25 14:46	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:46
Operator : AR\AJ
Sample : Q2150-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-51

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.886	58123793	71772232	18.421m	18.338
28)	SA Decachlor...	9.104	8.063	24999736	42166068	10.610	9.639

Target Compounds

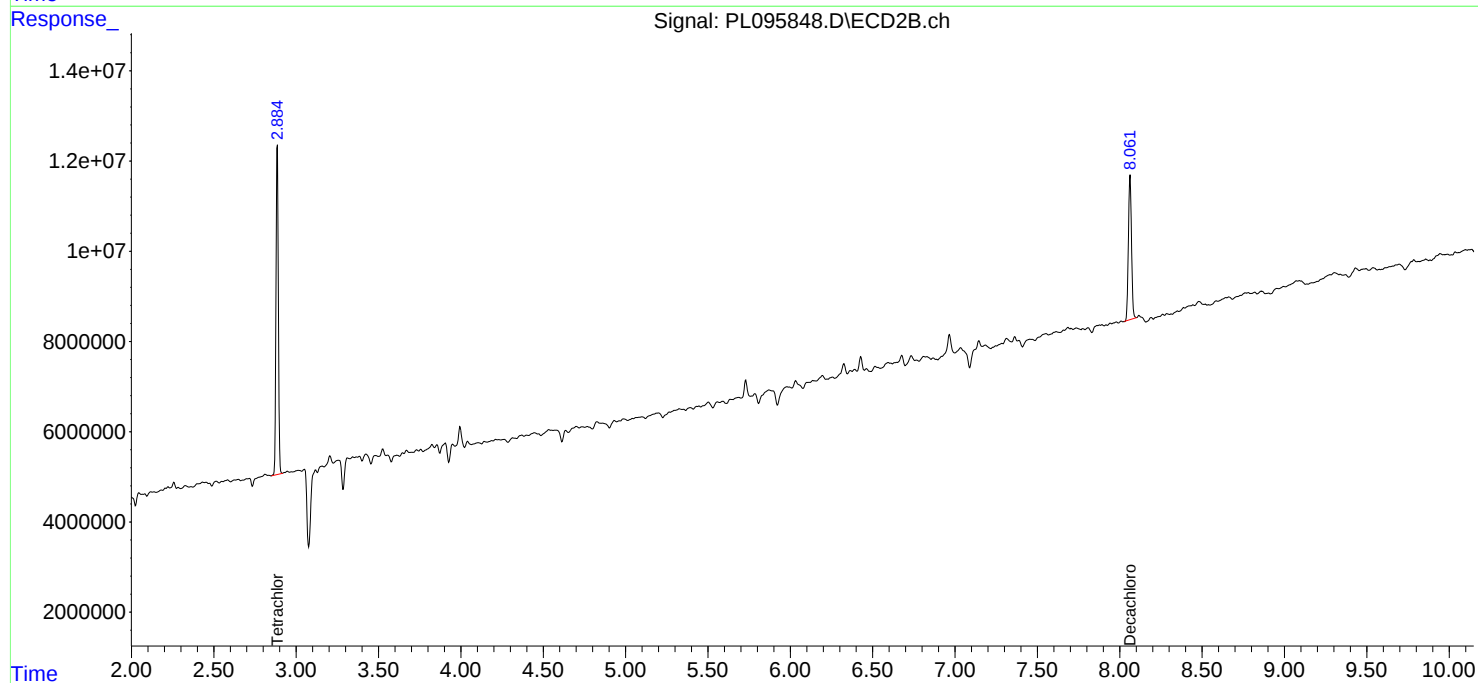
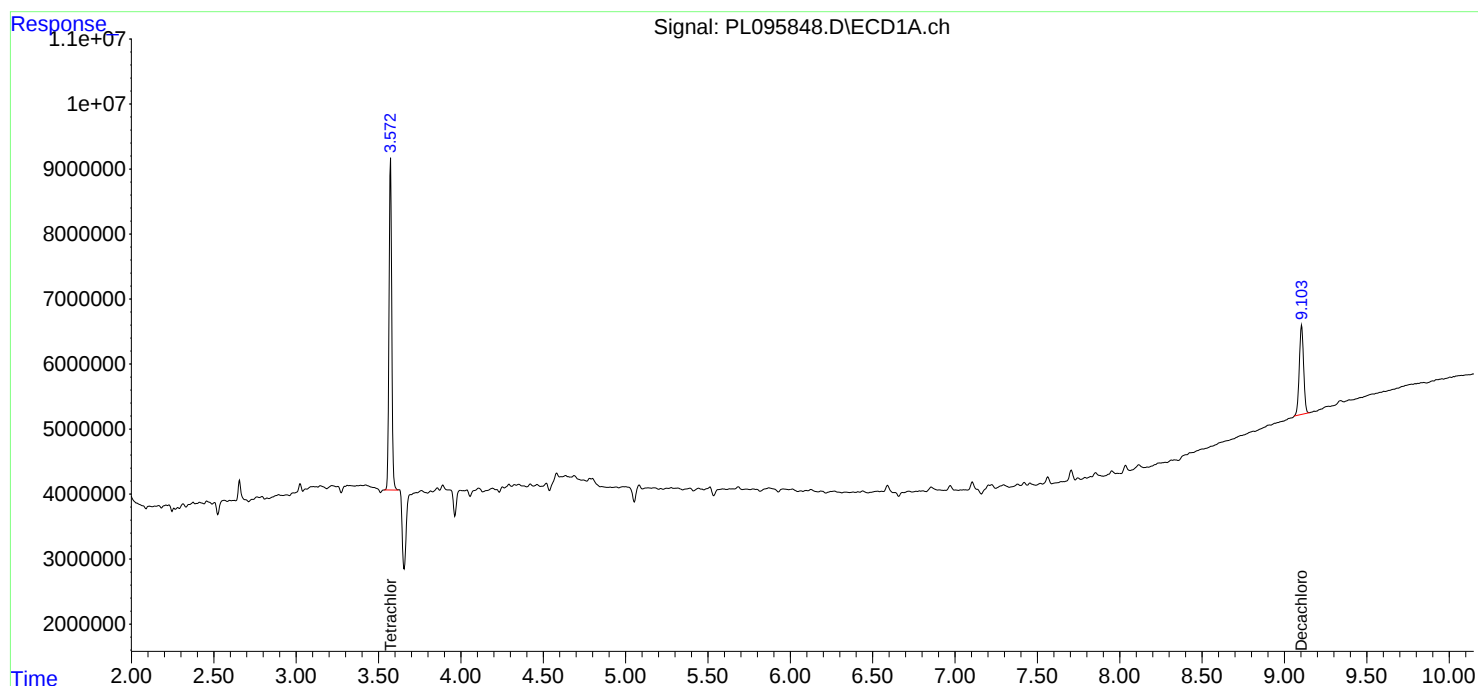
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

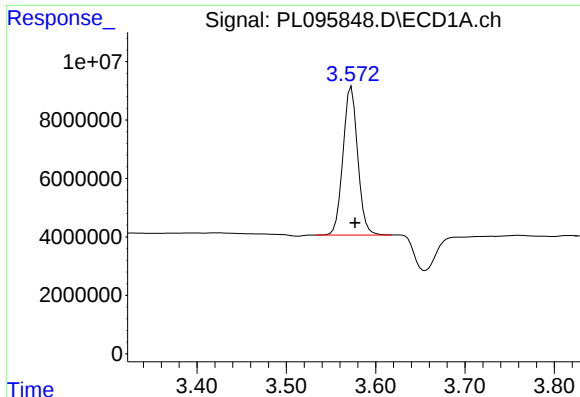
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:46
Operator : AR\AJ
Sample : Q2150-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-51

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

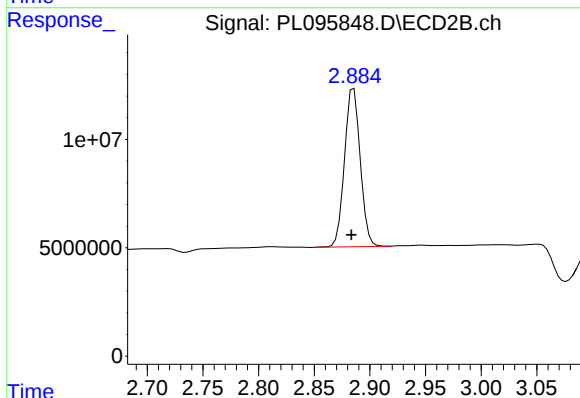




#1 Tetrachloro-m-xylene

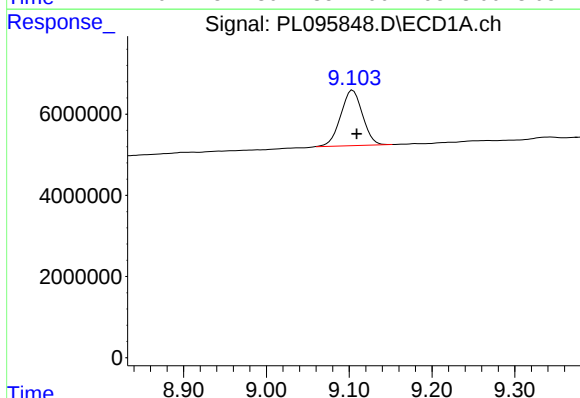
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 58123793
Conc: 18.42 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-51



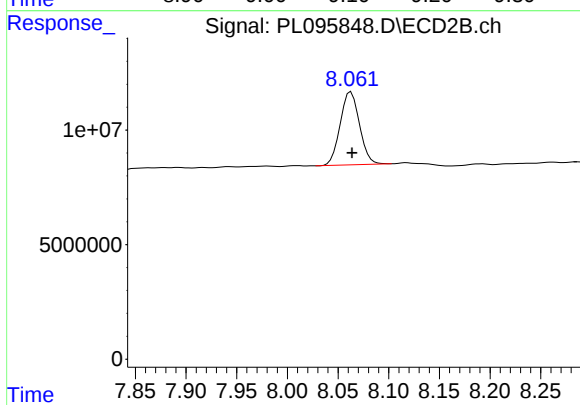
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 71772232
Conc: 18.34 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.104 min
Delta R.T.: -0.005 min
Response: 24999736
Conc: 10.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 42166068
Conc: 9.64 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095851.D	1	05/30/25 08:50	05/30/25 15:26	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	7.81		20 - 144	39%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.0		19 - 148	60%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095851.D	1	05/30/25 08:50	05/30/25 15:26	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095851.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:26
Operator : AR\AJ
Sample : Q2150-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-52

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	37853833	46452014	11.997	11.868
28)	SA Decachlor...	9.105	8.063	18413644	31707730	7.815	7.248

Target Compounds

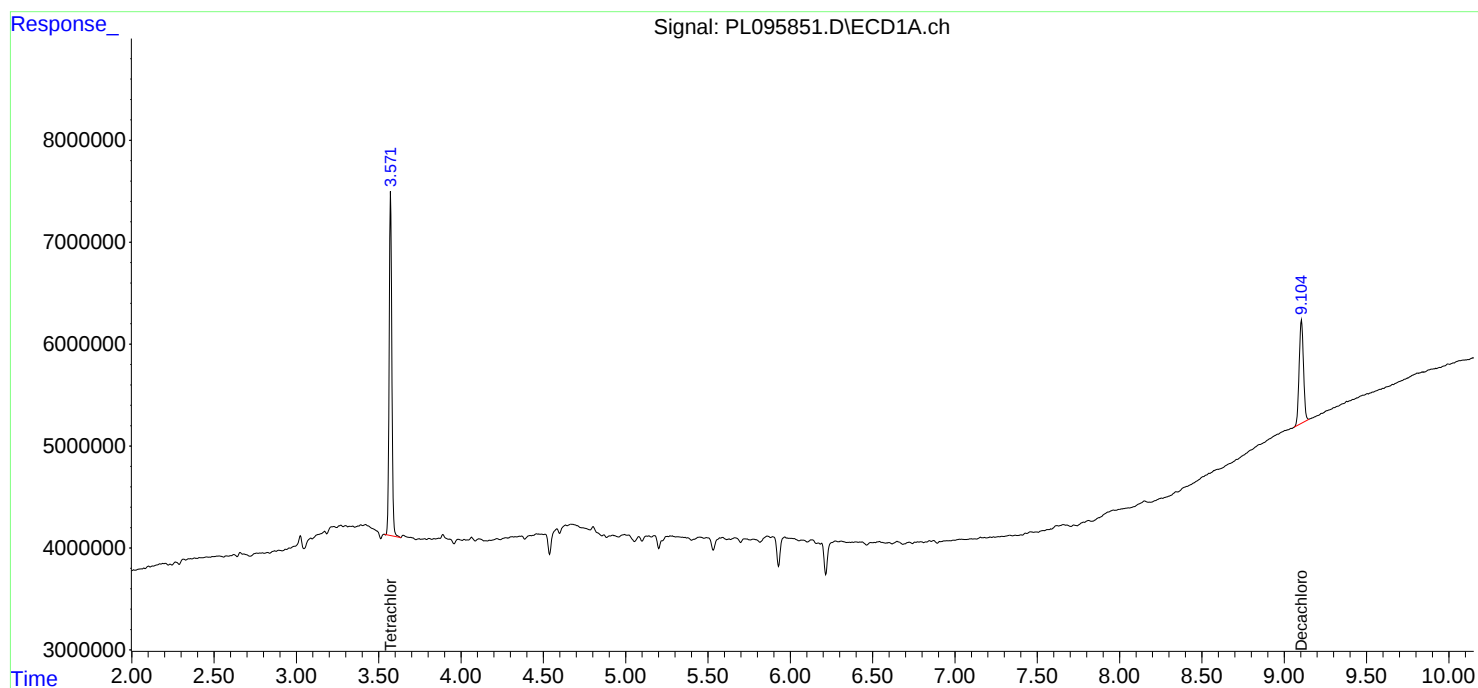
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

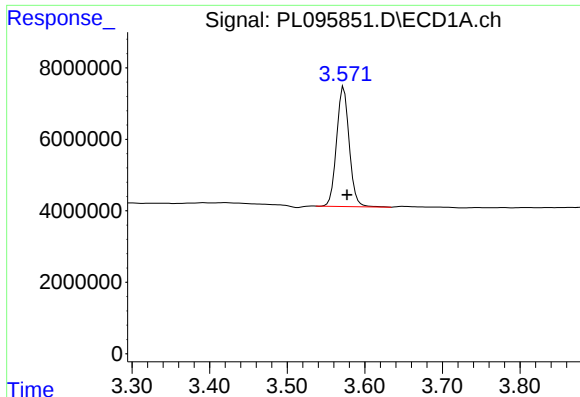
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095851.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:26
Operator : AR\AJ
Sample : Q2150-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-52

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

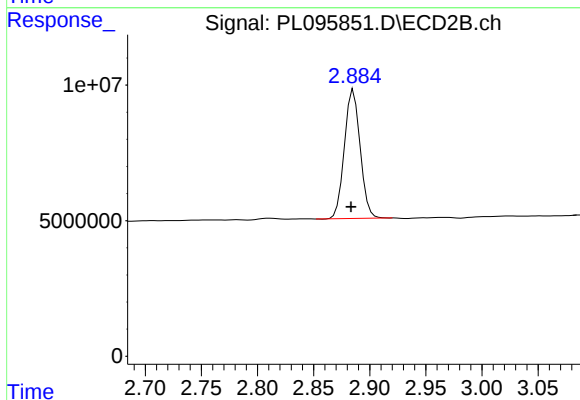




#1 Tetrachloro-m-xylene

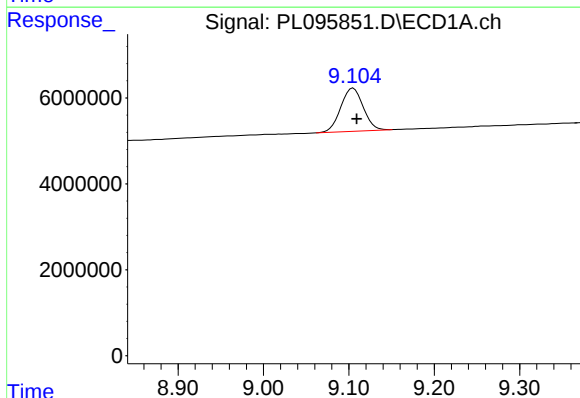
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 37853833
Conc: 12.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-52



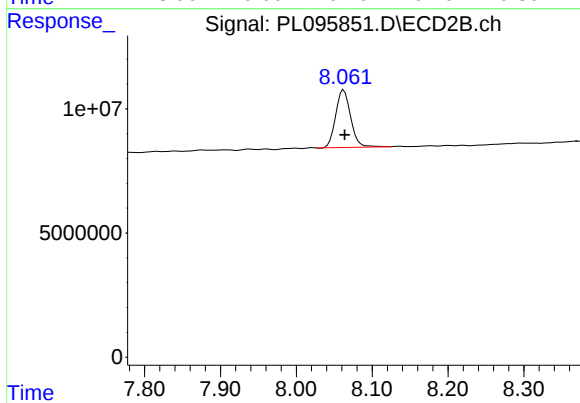
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 46452014
Conc: 11.87 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 18413644
Conc: 7.81 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: -0.001 min
Response: 31707730
Conc: 7.25 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095852.D	1	05/30/25 08:50	05/30/25 15:40	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.50	U	6.50	39.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.7		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.2		19 - 148	81%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.6
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095852.D	1	05/30/25 08:50	05/30/25 15:40	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095852.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 15:40
 Operator : AR\AJ
 Sample : Q2150-09
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-54

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:54:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.572	2.886	50754470	63501486	16.086m	16.224
28) SA Decachlor...	9.105	8.063	25211301	44804489	10.699	10.242

Target Compounds

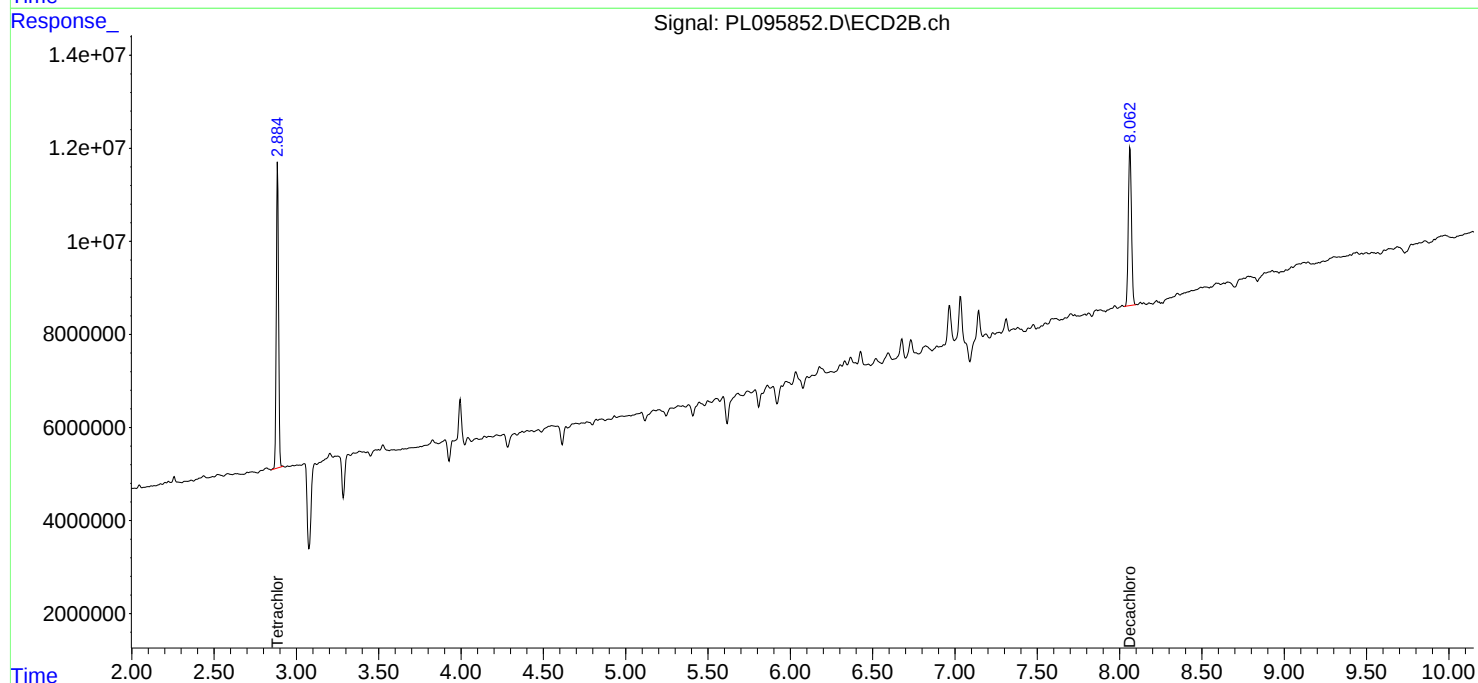
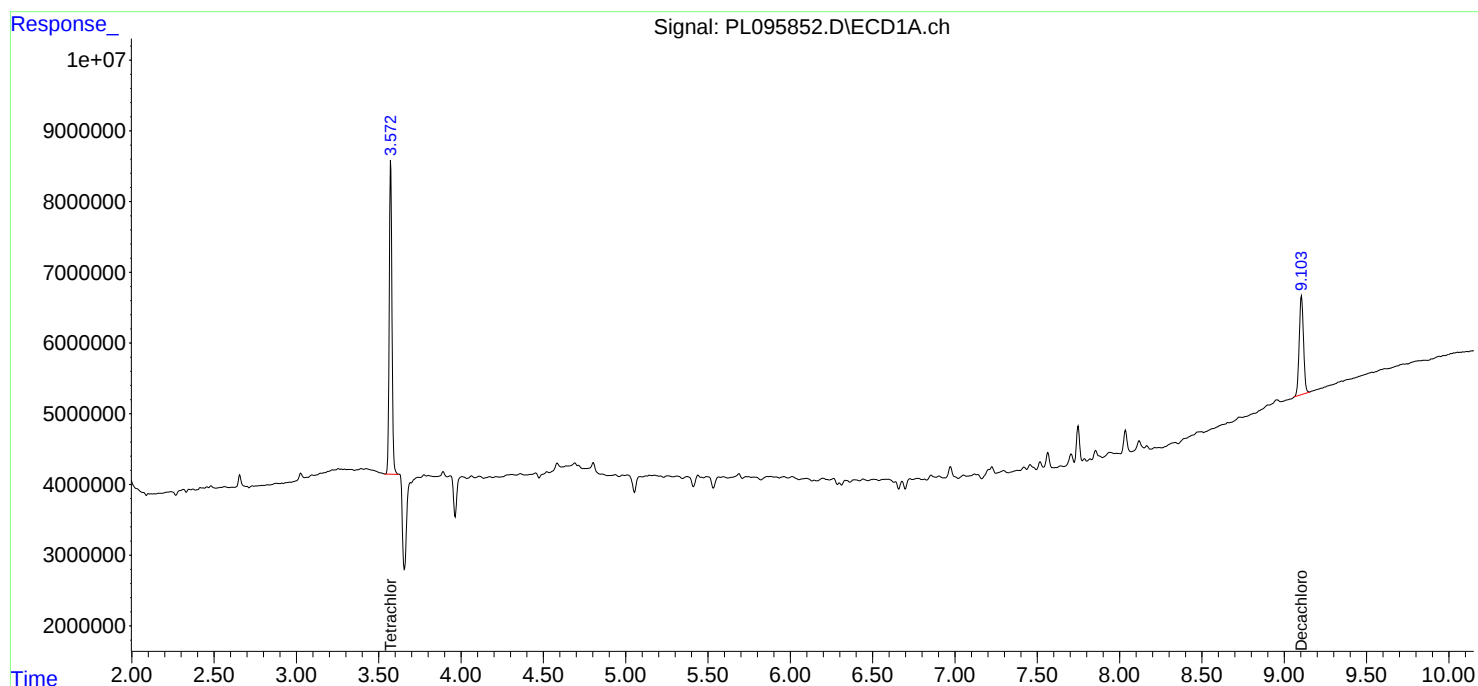
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

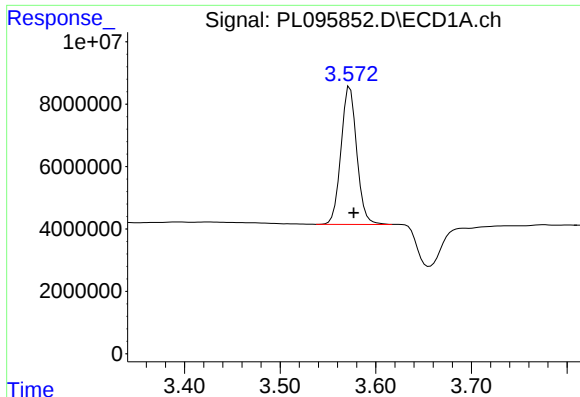
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095852.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:40
Operator : AR\AJ
Sample : Q2150-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-54

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:54:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

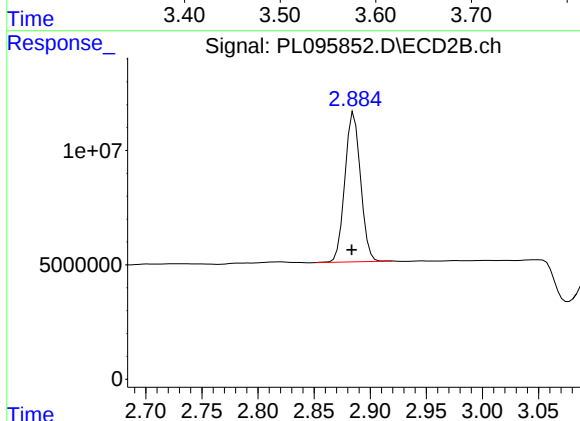




#1 Tetrachloro-m-xylene

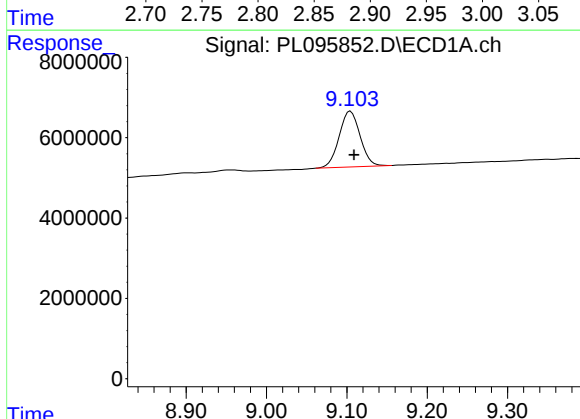
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 50754470
Conc: 16.09 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-54



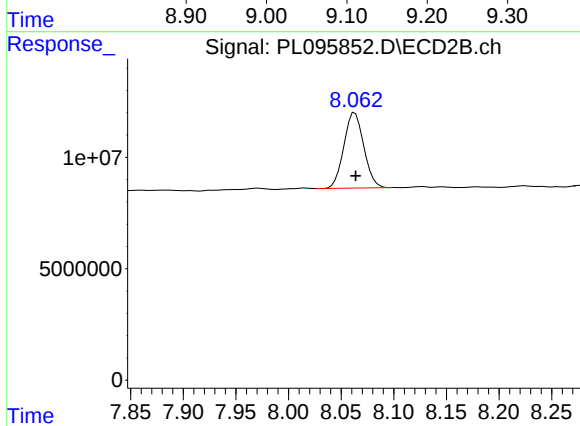
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 63501486
Conc: 16.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 25211301
Conc: 10.70 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 44804489
Conc: 10.24 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.3 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095853.D	1	05/30/25 08:50	05/30/25 15:54	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.2		20 - 144	61%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.3
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095853.D	1	05/30/25 08:50	05/30/25 15:54	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:54
Operator : AR\AJ
Sample : Q2150-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-53

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:54:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.885	57163232	72015639	18.117m	18.400
28)	SA Decachlor...	9.105	8.063	28749887	51660986	12.201	11.810

Target Compounds

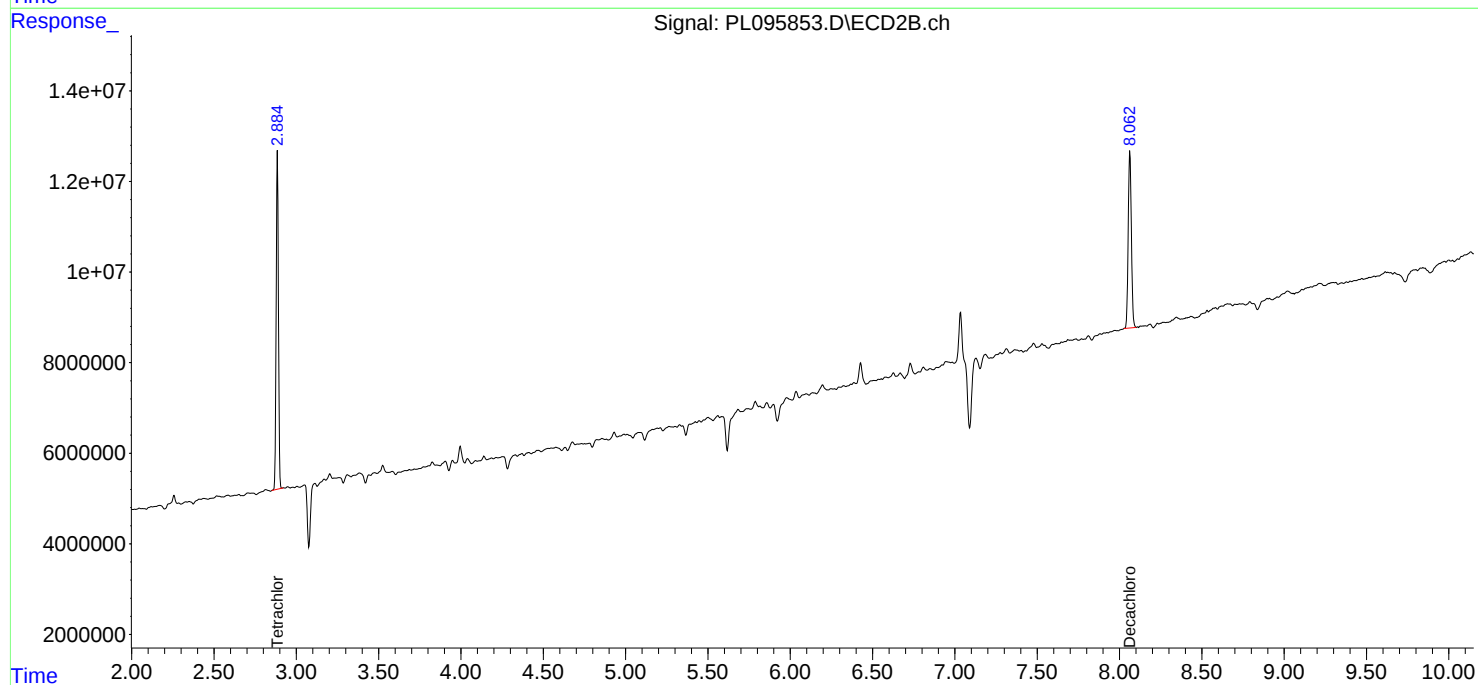
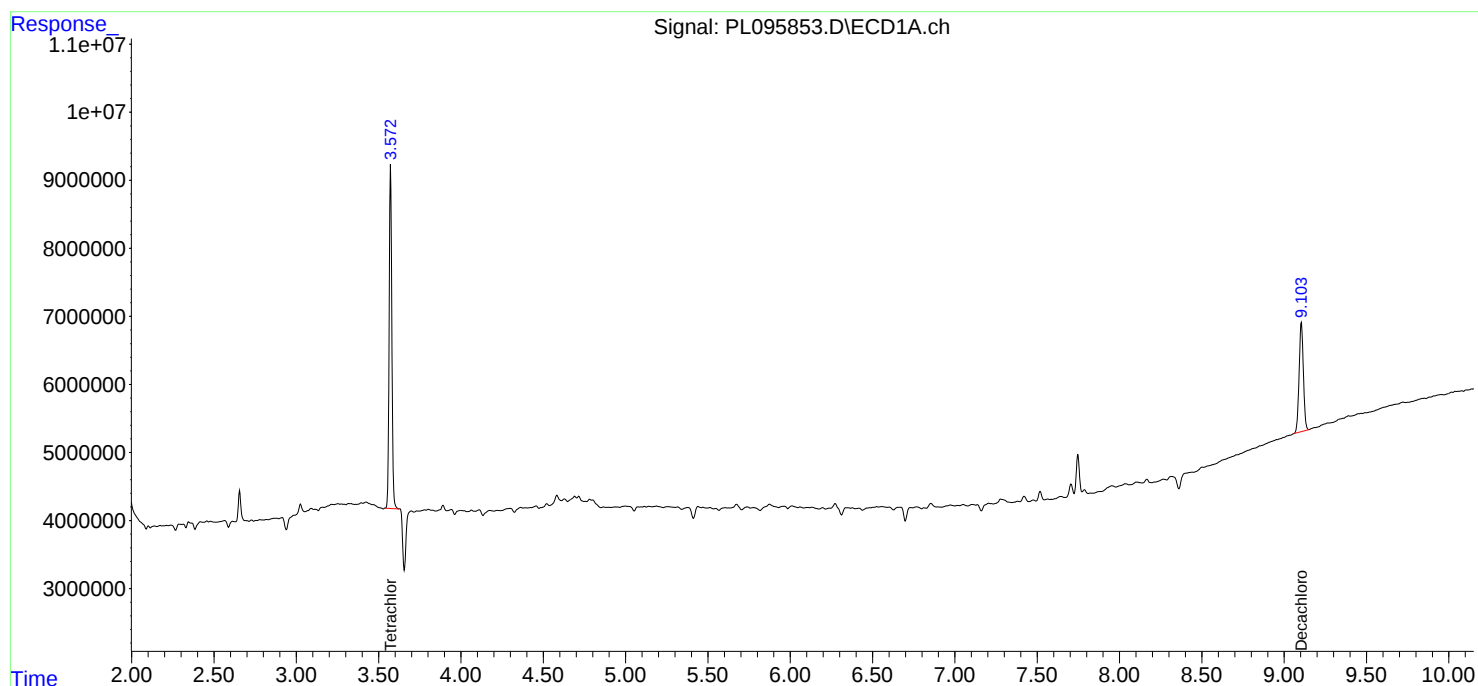
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

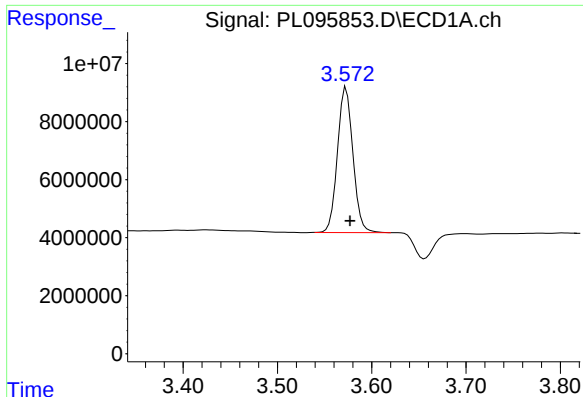
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:54
Operator : AR\AJ
Sample : Q2150-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-53

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:54:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

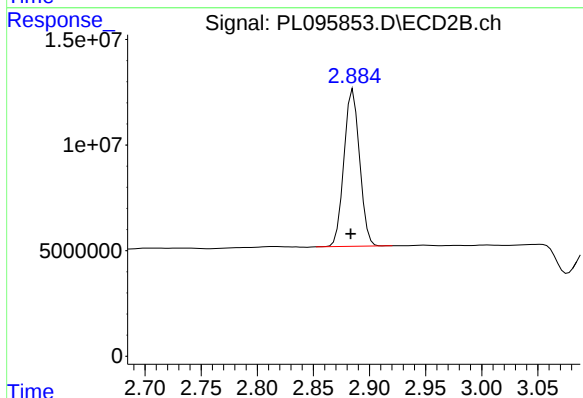




#1 Tetrachloro-m-xylene

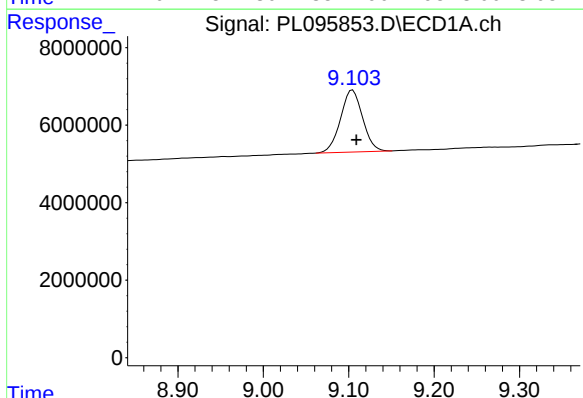
R.T.: 3.572 min
Delta R.T.: -0.005 min
Response: 57163232
Conc: 18.12 ng/ml

Instrument :
ECD_L
ClientSampleId :
TP-53



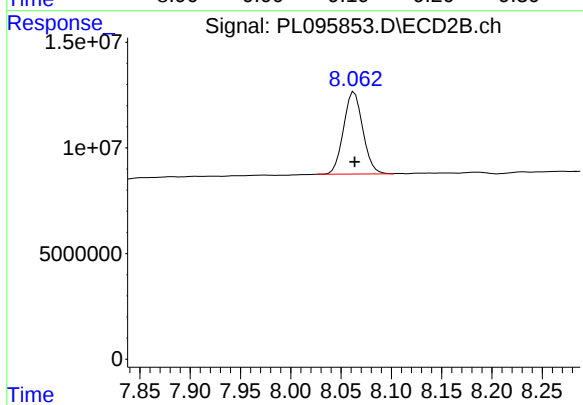
#1 Tetrachloro-m-xylene

R.T.: 2.885 min
Delta R.T.: 0.002 min
Response: 72015639
Conc: 18.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.105 min
Delta R.T.: -0.004 min
Response: 28749887
Conc: 12.20 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 51660986
Conc: 11.81 ng/ml



CALIBRATION SUMMARY

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2150 **SAS No.:** Q2150 **SDG NO.:** Q2150
Instrument ID: ECD_L
Calibration Date(s): 05/21/2025 05/21/2025
Calibration Times: 11:35 12:29
GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 100 = <u>PL095735.D</u>		CF 075 = <u>PL095736.D</u>			
CF 050 = <u>PL095737.D</u>		CF 025 = <u>PL095738.D</u>		CF 005 = <u>PL095739.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3029170000	2897950000	2890660000	2805810000	3029440000	2930610000	3
4,4'-DDE	3753620000	3658270000	3631690000	3489800000	3806130000	3667900000	3
4,4'-DDT	2712830000	2654360000	2650610000	2590070000	2917840000	2705140000	5
Aldrin	4347110000	4211420000	4211170000	4079190000	4539770000	4277730000	4
alpha-BHC	5055140000	4887150000	4799900000	4583430000	4914010000	4847930000	4
alpha-Chlordane	3936090000	3857140000	3869930000	3816090000	4261610000	3948170000	5
beta-BHC	1911140000	1892640000	1930210000	1931530000	2191310000	1971370000	6
Decachlorobiphenyl	2296450000	2273040000	2304350000	2354860000	2552990000	2356340000	5
delta-BHC	4510360000	4418490000	4383980000	4233750000	4621480000	4433610000	3
Dieldrin	3903950000	3813000000	3813820000	3708570000	4056580000	3859180000	3
Endosulfan I	3625480000	3571730000	3593970000	3550090000	3982900000	3664830000	5
Endosulfan II	3313830000	3256160000	3325550000	3384990000	3949720000	3446050000	8
Endosulfan sulfate	2925470000	2895950000	2926550000	2906380000	3280250000	2986920000	6
Endrin	3186950000	3188700000	3185310000	3116310000	3456510000	3226750000	4
Endrin aldehyde	2356490000	2323760000	2365700000	2353750000	2688400000	2417620000	6
Endrin ketone	3179290000	3121440000	3135900000	3068650000	3329290000	3166910000	3
gamma-BHC (Lindane)	4588190000	4447360000	4400770000	4245410000	4677520000	4471850000	4
gamma-Chlordane	3946420000	3852300000	3845310000	3754890000	4061530000	3892090000	3
Heptachlor	3804040000	3718580000	3721520000	3622900000	4058170000	3785040000	4
Heptachlor epoxide	3727710000	3692000000	3731080000	3682110000	4251420000	3816860000	6
Methoxychlor	1252650000	1237700000	1261470000	1251380000	1373430000	1275330000	4
Tetrachloro-m-xylene	3099670000	3048860000	3065820000	3062420000	3499570000	3155270000	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2150 **SAS No.:** Q2150 **SDG NO.:** Q2150
Instrument ID: ECD_L
Calibration Date(s): 05/21/2025 05/21/2025
Calibration Times: 11:35 12:29
GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 100 = <u>PL095735.D</u>		CF 075 = <u>PL095736.D</u>			
CF 050 = <u>PL095737.D</u>		CF 025 = <u>PL095738.D</u>		CF 005 = <u>PL095739.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	4445580000	4366880000	4404380000	4229840000	4477970000	4384930000	2
4,4'-DDE	5328200000	5286620000	5342960000	5185270000	5667730000	5362160000	3
4,4'-DDT	4834370000	4768870000	4805750000	4636730000	4867260000	4782600000	2
Aldrin	5413270000	5337420000	5359250000	5094120000	5331460000	5307100000	2
alpha-BHC	6120380000	5984780000	5956690000	5567970000	5656920000	5857350000	4
alpha-Chlordane	5212180000	5117720000	5169640000	5059150000	5455120000	5202760000	3
beta-BHC	2433740000	2431120000	2471290000	2436550000	2615060000	2477550000	3
Decachlorobiphenyl	4307130000	4293010000	4424120000	4407270000	4440750000	4374460000	2
delta-BHC	5855570000	5710500000	5700250000	5411210000	5559290000	5647370000	3
Dieldrin	5312990000	5256750000	5296490000	5103800000	5530570000	5300120000	3
Endosulfan I	4730980000	4708290000	4767730000	4668460000	4949420000	4764970000	2
Endosulfan II	4687260000	4644550000	4721900000	4610060000	5095140000	4751780000	4
Endosulfan sulfate	4396050000	4376160000	4475180000	4410280000	4816080000	4494750000	4
Endrin	4781360000	4775420000	4841120000	4733510000	5249090000	4876100000	4
Endrin aldehyde	3353000000	3342650000	3418100000	3365440000	3792270000	3454290000	6
Endrin ketone	5025560000	5055710000	5163390000	5096070000	5528620000	5173870000	4
gamma-BHC (Lindane)	5738840000	5640150000	5652210000	5354130000	5620800000	5601220000	3
gamma-Chlordane	5300820000	5202550000	5232880000	5068800000	5458400000	5252690000	3
Heptachlor	5660130000	5568750000	5611780000	5421260000	5783370000	5609060000	2
Heptachlor epoxide	4854250000	4848530000	4943810000	4810760000	5229780000	4937430000	3
Methoxychlor	2503630000	2513740000	2592490000	2627630000	2843040000	2616110000	5
Tetrachloro-m-xylene	3908270000	3796990000	3846980000	3798040000	4219390000	3913940000	5



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Instrument ID: ECD_L Date(s) Analyzed: 05/21/2025 05/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	5.88	5.78	5.98	11156600
		2	6.27	6.17	6.37	26557800
		3	7.09	6.99	7.19	93865100
		4	7.18	7.08	7.28	65544600
		5	7.96	7.86	8.06	45659000



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Instrument ID: ECD_L Date(s) Analyzed: 05/21/2025 05/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	5.15	5.05	5.25	30765000
		2	5.83	5.73	5.93	34678400
		3	6.11	6.01	6.21	36071200
		4	6.75	6.65	6.85	117492000
		5	7.19	7.09	7.29	80236600

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095735.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 11:35
 Operator : AR\AJ
 Sample : PSTDICC100
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC100

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:17:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:14:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.577	2.883	310.0E6	390.8E6	101.104	101.593
28)	SA Decachlor...	9.109	8.064	229.6E6	430.7E6	99.657	97.356
Target Compounds							
2)	A alpha-BHC	4.029	3.394	505.5E6	612.0E6	105.318	102.748
3)	MA gamma-BHC...	4.361	3.728	458.8E6	573.9E6	104.259	101.533
4)	MA Heptachlor	4.959	4.081	380.4E6	566.0E6	102.217	100.862
5)	MB Aldrin	5.302	4.366	434.7E6	541.3E6	103.228	101.008
6)	B beta-BHC	4.549	4.024	191.1E6	243.4E6	99.012	98.480
7)	B delta-BHC	4.797	4.259	451.0E6	585.6E6	102.883	102.725
8)	B Heptachlo...	5.722	4.869	372.8E6	485.4E6	99.910	98.188
9)	A Endosulfan I	6.106	5.242	362.5E6	473.1E6	100.877	99.229
10)	B gamma-Chl...	5.977	5.122	394.6E6	530.1E6	102.630	101.298
11)	B alpha-Chl...	6.059	5.186	393.6E6	521.2E6	101.710	100.823
12)	B 4,4'-DDE	6.229	5.373	375.4E6	532.8E6	103.357	99.724
13)	MA Dieldrin	6.379	5.507	390.4E6	531.3E6	102.363	100.311
14)	MA Endrin	6.607	5.782	318.7E6	478.1E6	100.051	98.766
15)	B Endosulfa...	6.820	6.073	331.4E6	468.7E6	99.648	99.267
16)	A 4,4'-DDD	6.739	5.926	302.9E6	444.6E6	104.792	100.935
17)	MA 4,4'-DDT	7.054	6.179	271.3E6	483.4E6	102.347	100.596
18)	B Endrin al...	6.949	6.251	235.6E6	335.3E6	99.611	98.095
19)	B Endosulfa...	7.183	6.474	292.5E6	439.6E6	99.963	98.232
20)	A Methoxychlor	7.528	6.750	125.3E6	250.4E6	99.301	96.572
21)	B Endrin ke...	7.664	6.979	317.9E6	502.6E6	101.384	97.331
22)	Mirex	8.145	7.173	223.9E6	385.9E6	98.516	96.713

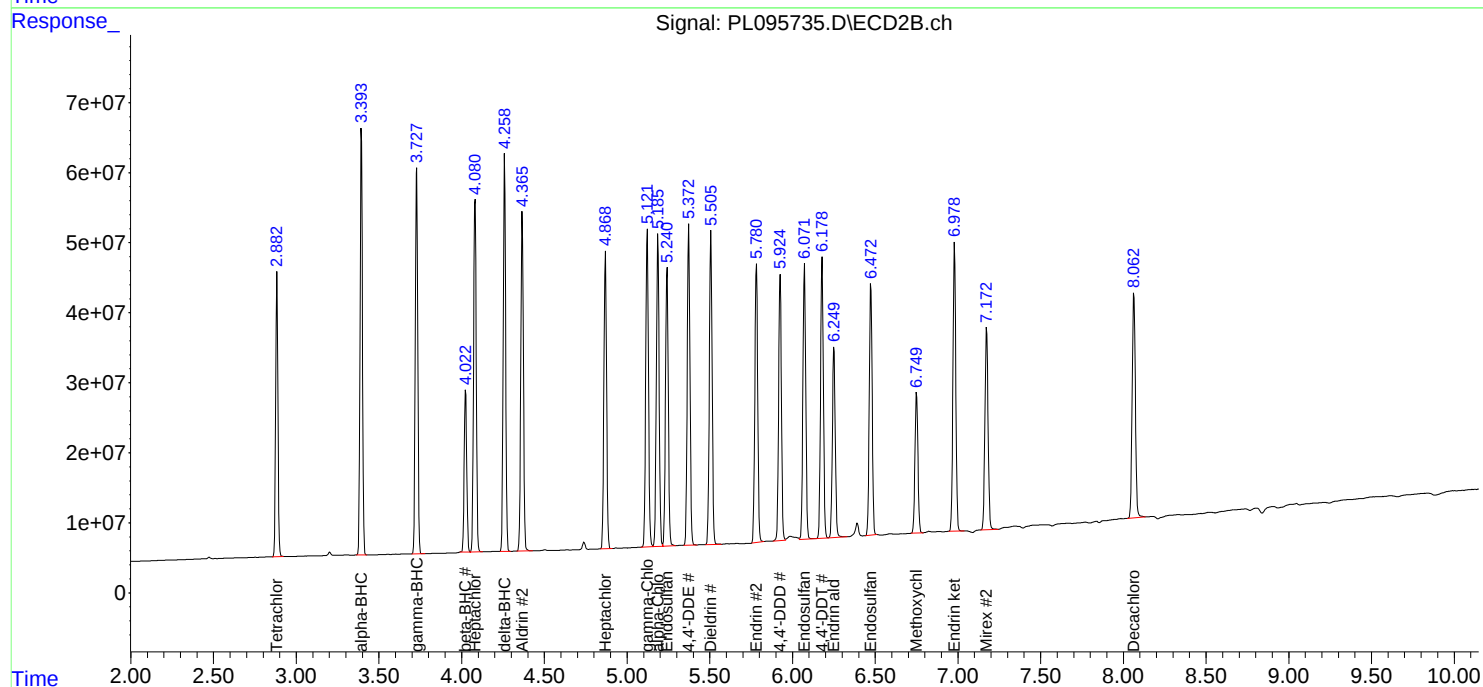
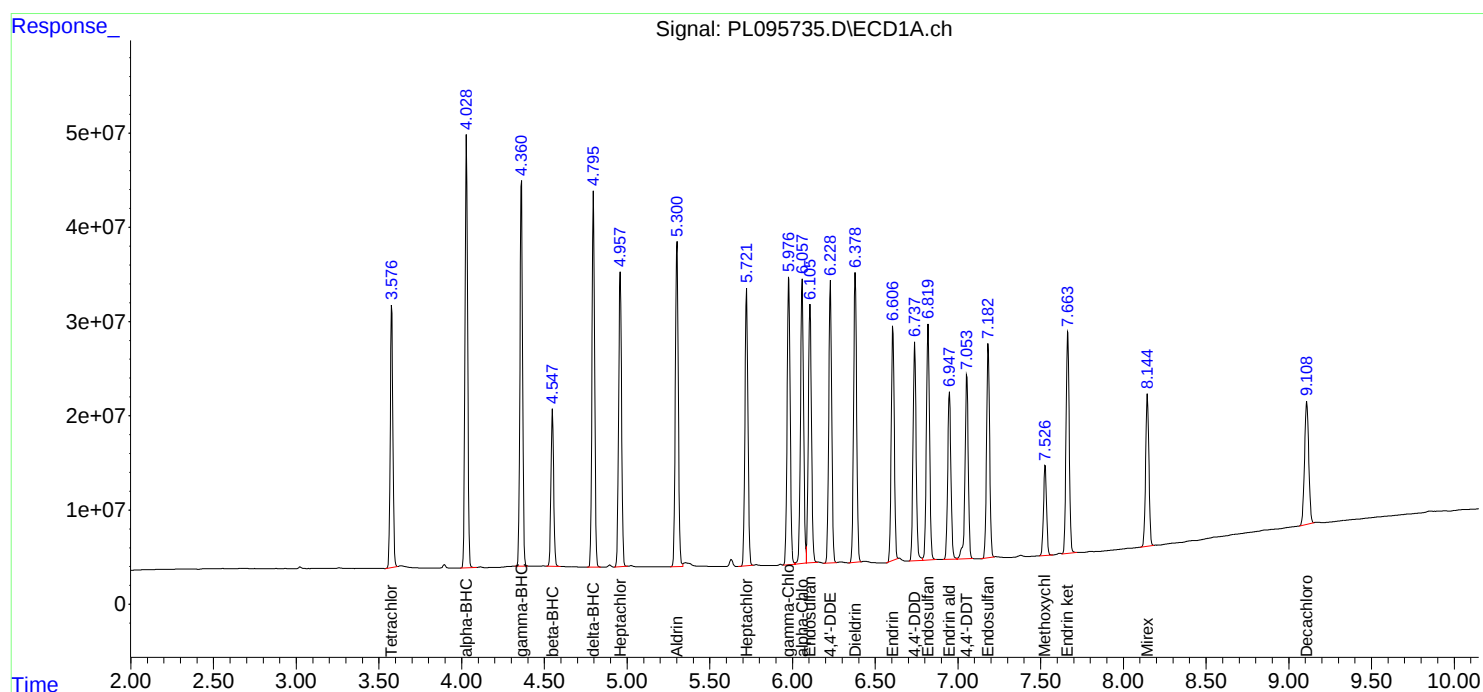
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095735.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 11:35
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:17:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:14:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095736.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 11:48
 Operator : AR\AJ
 Sample : PSTDICC075
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC075

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:17:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:14:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	228.7E6	284.8E6	74.585	74.025
28)	SA Decachlor...	9.103	8.063	170.5E6	322.0E6	73.981	72.777
Target Compounds							
2)	A alpha-BHC	4.025	3.396	366.5E6	448.9E6	76.363	75.354
3)	MA gamma-BHC...	4.356	3.730	333.6E6	423.0E6	75.794	74.840
4)	MA Heptachlor	4.954	4.083	278.9E6	417.7E6	74.941	74.425
5)	MB Aldrin	5.297	4.368	315.9E6	400.3E6	75.004	74.694
6)	B beta-BHC	4.544	4.026	141.9E6	182.3E6	73.540	73.781
7)	B delta-BHC	4.792	4.261	331.4E6	428.3E6	75.590	75.135
8)	B Heptachlo...	5.718	4.870	276.9E6	363.6E6	74.214	73.555
9)	A Endosulfan I	6.102	5.242	267.9E6	353.1E6	74.536	74.065
10)	B gamma-Chl...	5.973	5.123	288.9E6	390.2E6	75.136	74.565
11)	B alpha-Chl...	6.054	5.187	289.3E6	383.8E6	74.752	74.247
12)	B 4,4'-DDE	6.224	5.374	274.4E6	396.5E6	75.549	74.209
13)	MA Dieldrin	6.375	5.507	286.0E6	394.3E6	74.984	74.437
14)	MA Endrin	6.603	5.782	239.2E6	358.2E6	75.080	73.982
15)	B Endosulfa...	6.815	6.073	244.2E6	348.3E6	73.435	73.771
16)	A 4,4'-DDD	6.735	5.926	217.3E6	327.5E6	75.189	74.362
17)	MA 4,4'-DDT	7.050	6.179	199.1E6	357.7E6	75.106	74.424
18)	B Endrin al...	6.944	6.251	174.3E6	250.7E6	73.671	73.344
19)	B Endosulfa...	7.178	6.474	217.2E6	328.2E6	74.216	73.341
20)	A Methoxychlor	7.523	6.750	92827353	188.5E6	73.587	72.722
21)	B Endrin ke...	7.660	6.979	234.1E6	379.2E6	74.654	73.436
22)	Mirex	8.142	7.173	168.2E6	284.9E6	74.011	71.417

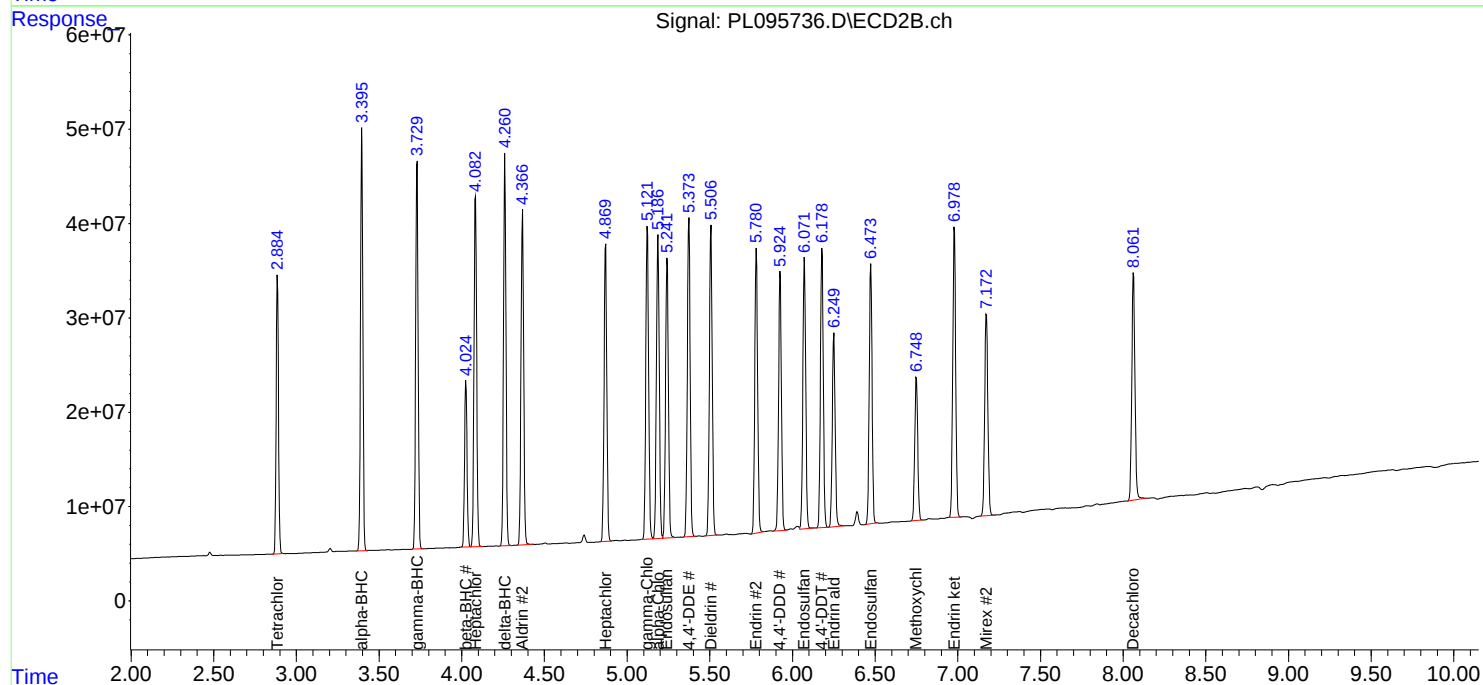
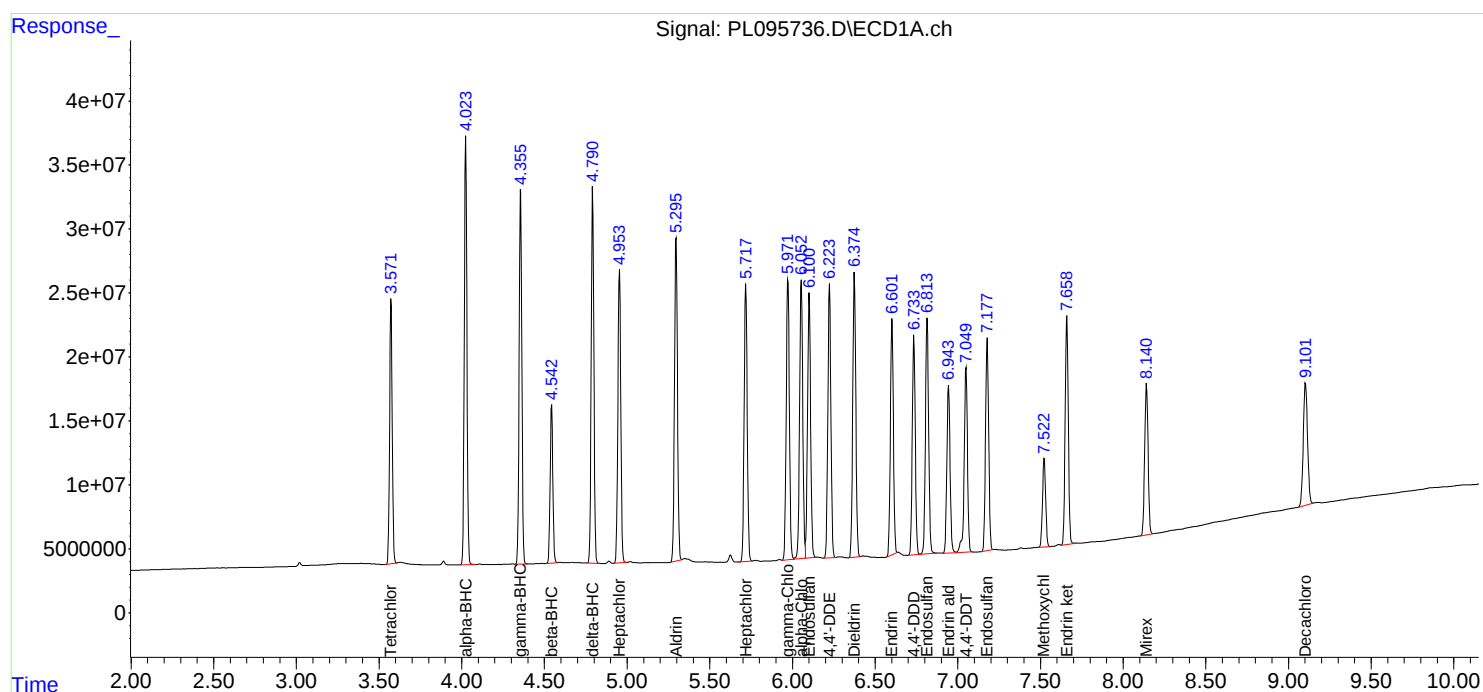
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095736.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 11:48
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:17:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:14:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095737.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 12:02
 Operator : AR\AJ
 Sample : PSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:17:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:14:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	153.3E6	192.3E6	50.000	50.000
28)	SA Decachlor...	9.103	8.064	115.2E6	221.2E6	50.000	50.000
Target Compounds							
2)	A alpha-BHC	4.025	3.396	240.0E6	297.8E6	50.000	50.000
3)	MA gamma-BHC...	4.357	3.730	220.0E6	282.6E6	50.000	50.000
4)	MA Heptachlor	4.955	4.083	186.1E6	280.6E6	50.000	50.000
5)	MB Aldrin	5.297	4.368	210.6E6	268.0E6	50.000	50.000
6)	B beta-BHC	4.544	4.026	96510671	123.6E6	50.000	50.000
7)	B delta-BHC	4.792	4.261	219.2E6	285.0E6	50.000	50.000
8)	B Heptachlo...	5.718	4.871	186.6E6	247.2E6	50.000	50.000
9)	A Endosulfan I	6.102	5.243	179.7E6	238.4E6	50.000	50.000
10)	B gamma-Chl...	5.973	5.123	192.3E6	261.6E6	50.000	50.000
11)	B alpha-Chl...	6.054	5.187	193.5E6	258.5E6	50.000	50.000
12)	B 4,4'-DDE	6.224	5.374	181.6E6	267.1E6	50.000	50.000
13)	MA Dieldrin	6.375	5.508	190.7E6	264.8E6	50.000	50.000
14)	MA Endrin	6.602	5.783	159.3E6	242.1E6	50.000	50.000
15)	B Endosulfa...	6.815	6.073	166.3E6	236.1E6	50.000	50.000
16)	A 4,4'-DDD	6.734	5.926	144.5E6	220.2E6	50.000	50.000
17)	MA 4,4'-DDT	7.050	6.180	132.5E6	240.3E6	50.000	50.000
18)	B Endrin al...	6.944	6.251	118.3E6	170.9E6	50.000	50.000
19)	B Endosulfa...	7.178	6.475	146.3E6	223.8E6	50.000	50.000
20)	A Methoxychlor	7.523	6.751	63073290	129.6E6	50.000	50.000
21)	B Endrin ke...	7.660	6.980	156.8E6	258.2E6	50.000	50.000
22)	Mirex	8.142	7.174	113.6E6	199.5E6	50.000	50.000

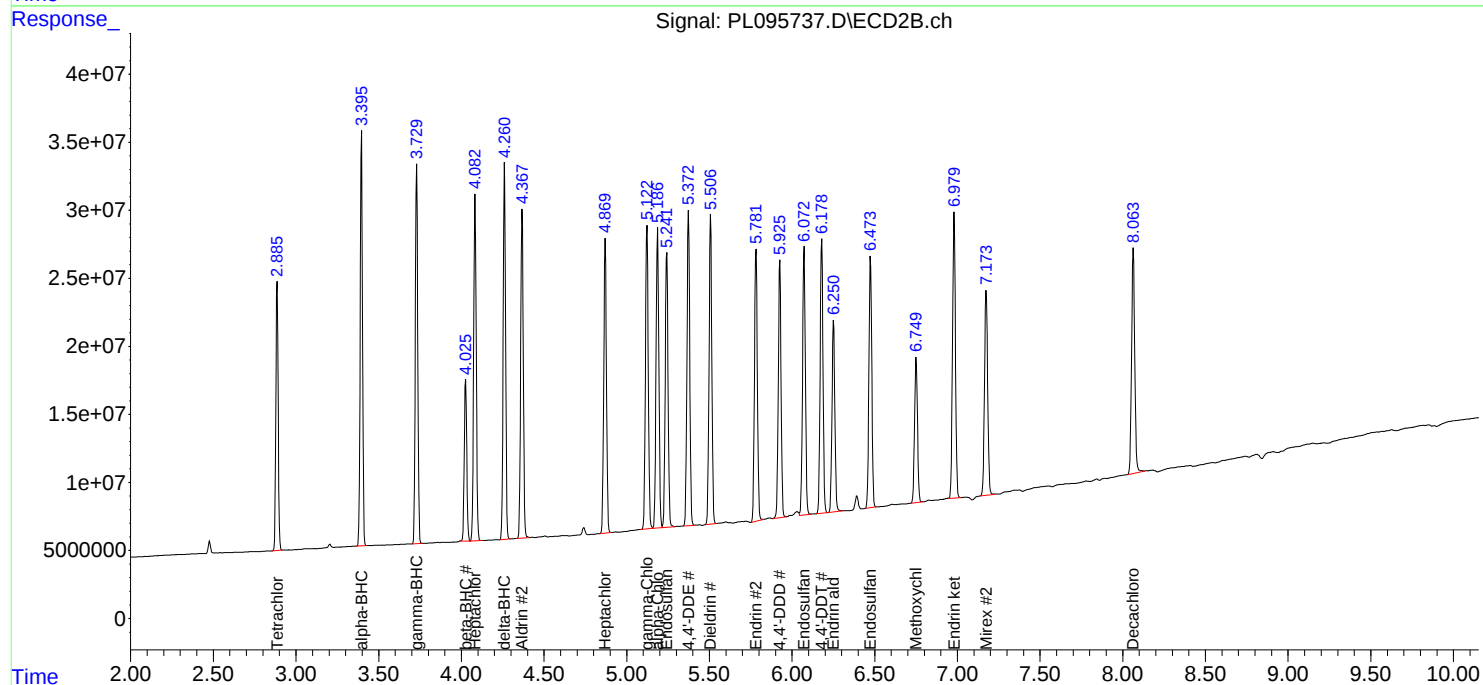
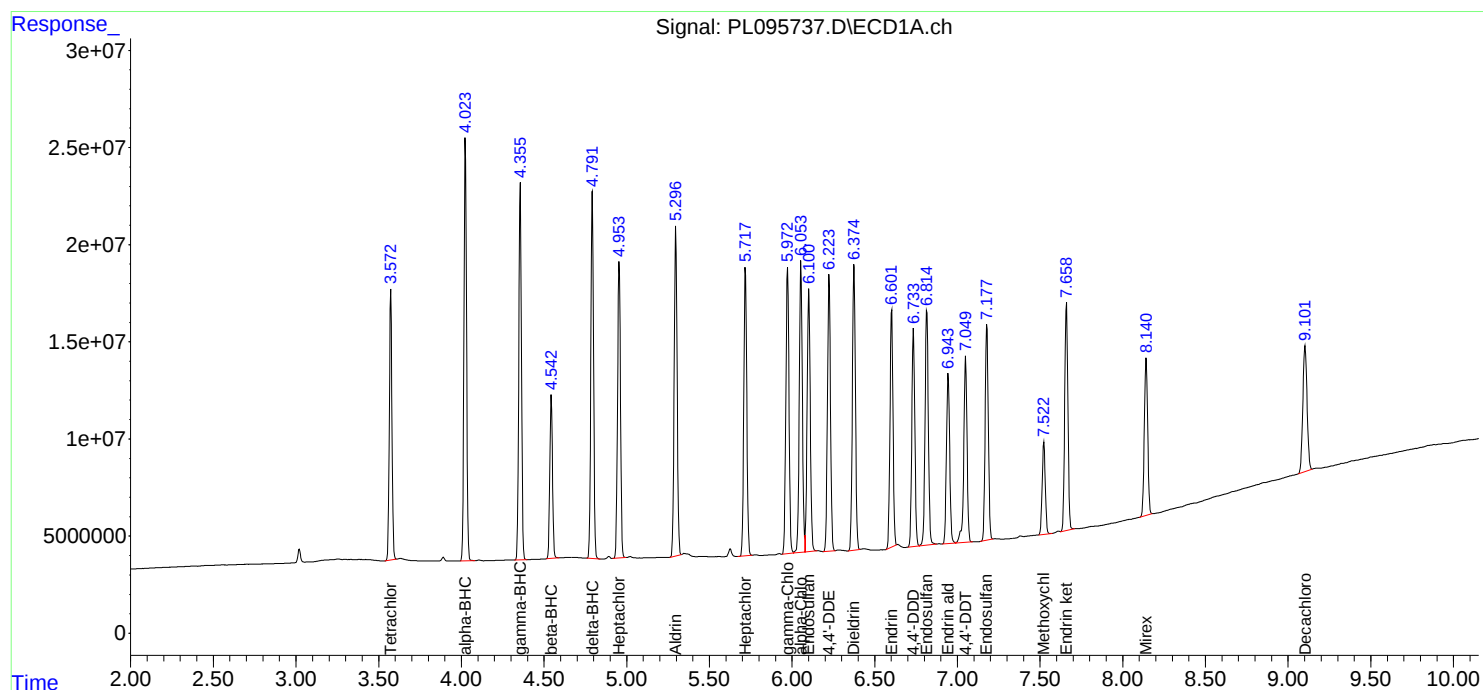
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095737.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 12:02
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:17:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:14:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095738.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 12:15
 Operator : AR\AJ
 Sample : PSTDICC025
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC025

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:18:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:14:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.572	2.886	76560586	94950949	24.972	24.682
28) SA Decachlor...	9.102	8.063	58871383	110.2E6	25.548	24.905
Target Compounds						
2) A alpha-BHC	4.024	3.396	114.6E6	139.2E6	23.873	23.369
3) MA gamma-BHC...	4.356	3.730	106.1E6	133.9E6	24.117	23.682
4) MA Heptachlor	4.954	4.083	90572384	135.5E6	24.337	24.151
5) MB Aldrin	5.297	4.368	102.0E6	127.4E6	24.216	23.763
6) B beta-BHC	4.543	4.026	48288222	60913646	25.017	24.648
7) B delta-BHC	4.791	4.261	105.8E6	135.3E6	24.143	23.732
8) B Heptachlo...	5.718	4.871	92052683	120.3E6	24.672	24.327
9) A Endosulfan I	6.101	5.243	88752148	116.7E6	24.695	24.479
10) B gamma-Chl...	5.973	5.123	93872153	126.7E6	24.412	24.216
11) B alpha-Chl...	6.053	5.187	95402335	126.5E6	24.652	24.466
12) B 4,4'-DDE	6.224	5.374	87244934	129.6E6	24.023	24.262
13) MA Dieldrin	6.374	5.508	92714141	127.6E6	24.310	24.090
14) MA Endrin	6.602	5.783	77907657	118.3E6	24.458	24.444
15) B Endosulfa...	6.814	6.073	84624751	115.3E6	25.447	24.408
16) A 4,4'-DDD	6.733	5.926	70145317	105.7E6	24.266	24.009
17) MA 4,4'-DDT	7.049	6.180	64751863	115.9E6	24.429	24.121
18) B Endrin al...	6.943	6.251	58843793	84135949	24.874	24.615
19) B Endosulfa...	7.177	6.475	72659491	110.3E6	24.828	24.637
20) A Methoxychlor	7.521	6.750	31284485	65690870	24.800	25.339
21) B Endrin ke...	7.658	6.980	76716187	127.4E6	24.464m	24.674
22) Mirex	8.140	7.174	57020908	100.8E6	25.094	25.271

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095738.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 12:15
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC025

Manual Integrations

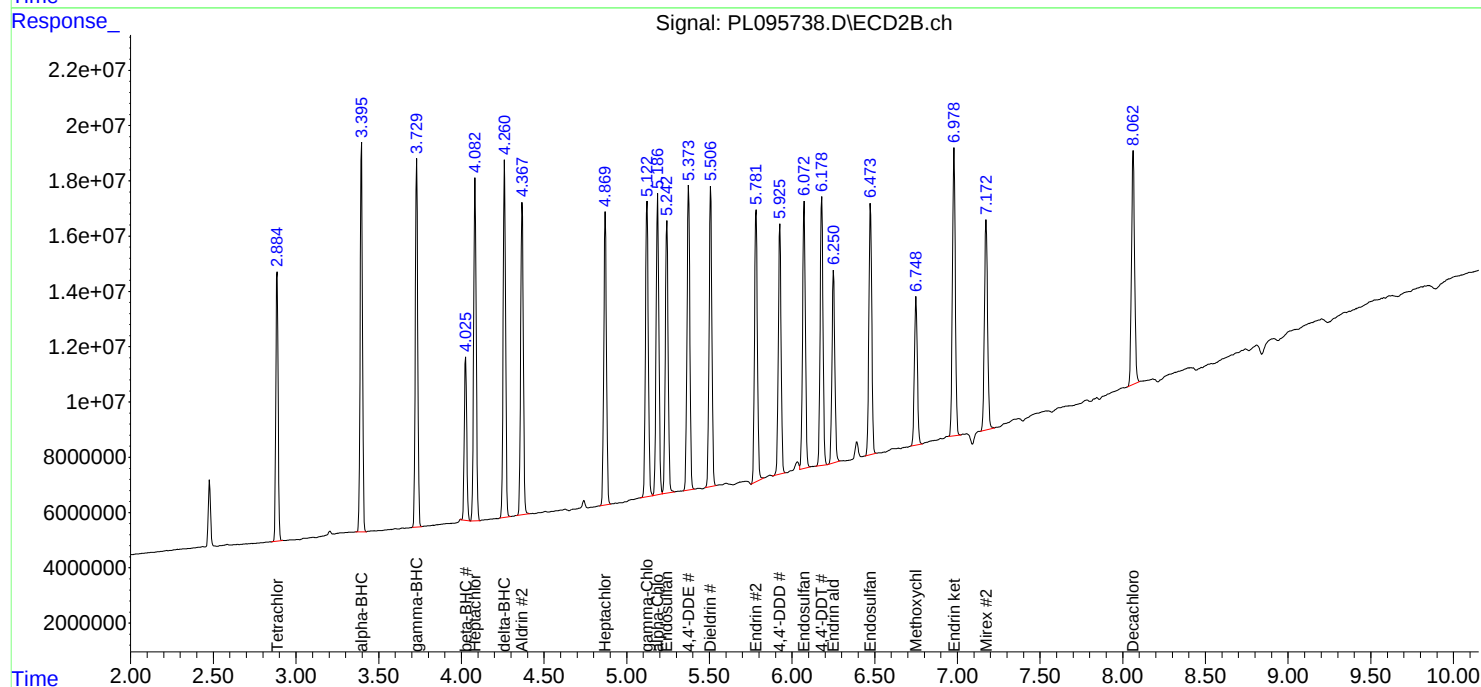
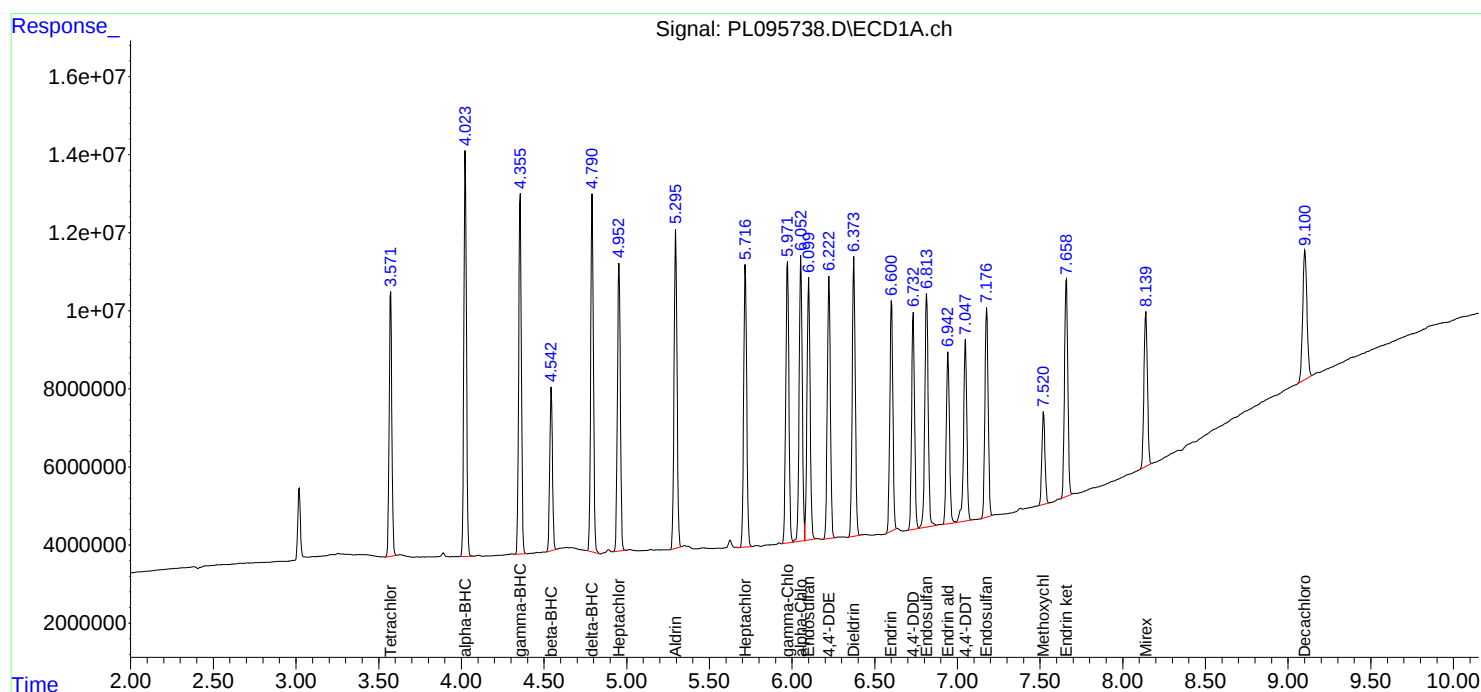
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:18:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:14:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095739.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 12:29
 Operator : AR\AJ
 Sample : PSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:18:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:14:04 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.572	2.886	17497825	21096940	5.707	5.484
28) SA Decachlor...	9.103	8.063	12764965	22203751	5.540	5.019
Target Compounds						
2) A alpha-BHC	4.024	3.396	24570031	28284612	5.119	4.748
3) MA gamma-BHC...	4.356	3.730	23387598	28103979	5.314	4.972
4) MA Heptachlor	4.954	4.083	20290863	28916844	5.452	5.153
5) MB Aldrin	5.297	4.367	22698872	26657290	5.390	4.974
6) B beta-BHC	4.543	4.024	10956530	13075300	5.676	5.291m
7) B delta-BHC	4.791	4.260	23107421	27796466	5.271	4.876
8) B Heptachlo...	5.718	4.870	21257105	26148919	5.697	5.289
9) A Endosulfan I	6.101	5.242	19914506	24747084	5.541	5.191
10) B gamma-Chl...	5.972	5.122	20307663	27292023	5.281	5.215
11) B alpha-Chl...	6.054	5.187	21308053	27275610	5.506	5.276
12) B 4,4'-DDE	6.224	5.373	19030626	28338631	5.240	5.304
13) MA Dieldrin	6.374	5.507	20282884	27652826	5.318	5.221
14) MA Endrin	6.601	5.782	17282532	26245470	5.426	5.421
15) B Endosulfa...	6.813	6.072	19748605	25475691	5.938m	5.395
16) A 4,4'-DDD	6.734	5.926	15147186	22389854	5.240	5.084
17) MA 4,4'-DDT	7.049	6.178	14589187	24336314	5.504	5.064
18) B Endrin al...	6.944	6.251	13442001	18961374	5.682	5.547
19) B Endosulfa...	7.178	6.474	16401273	24080379	5.604	5.381
20) A Methoxychlor	7.522	6.750	6867163	14215195	5.444	5.483
21) B Endrin ke...	7.657	6.979	16646440	27643113	5.308m	5.354
22) Mirex	8.140	7.173	12674224	23112456	5.578	5.793

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095739.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 12:29
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

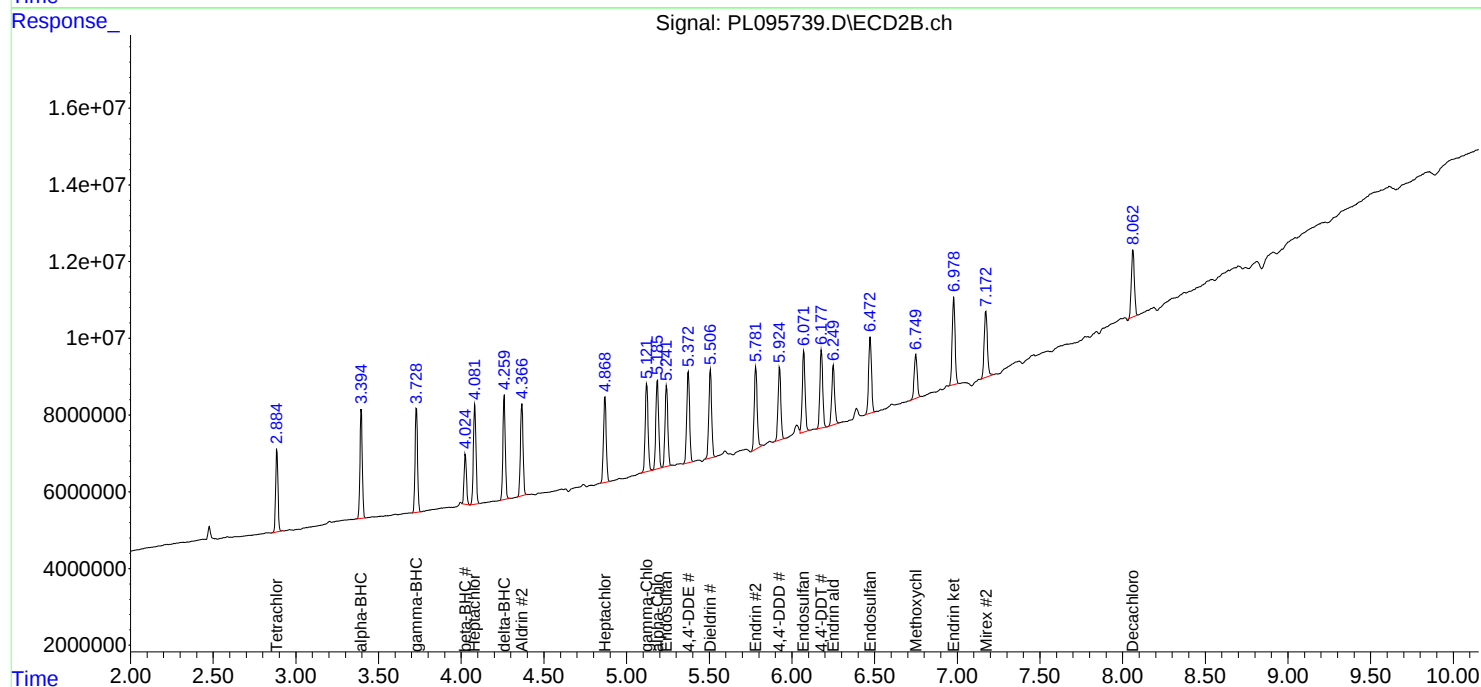
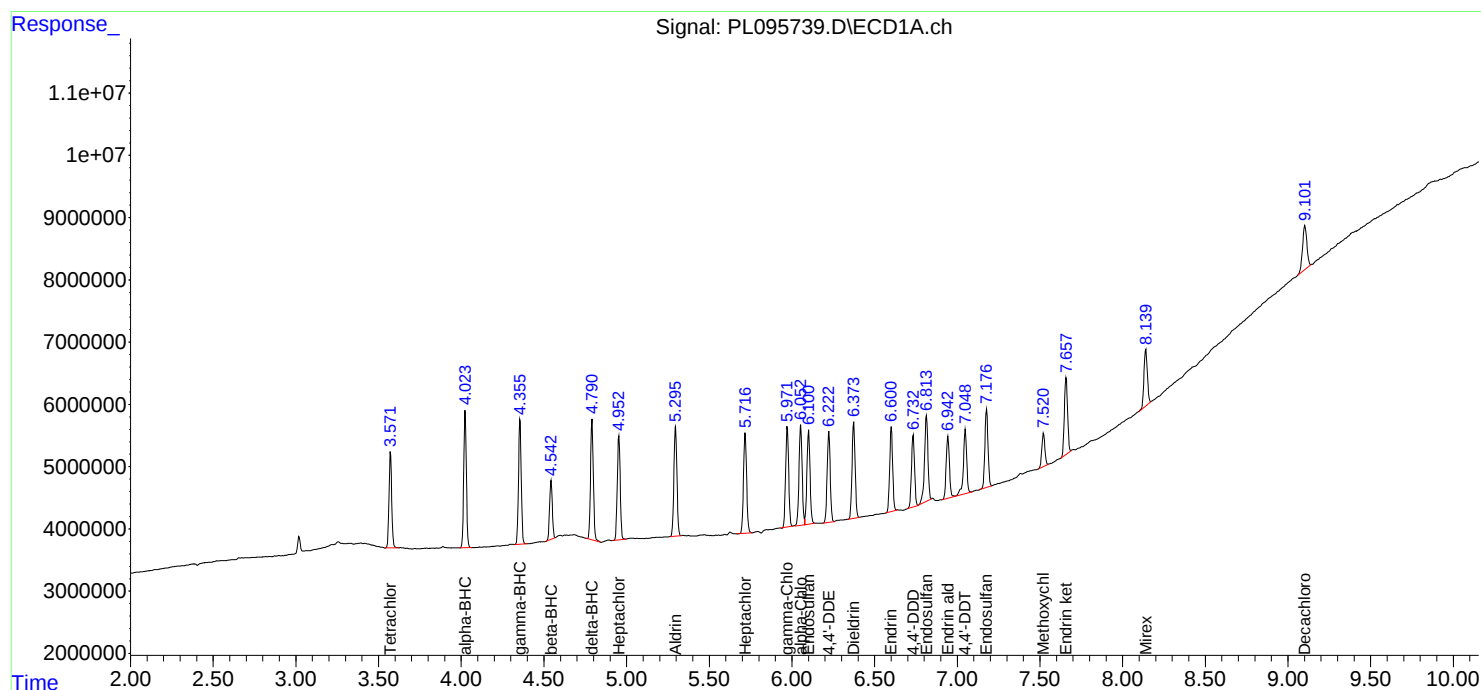
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:18:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:14:04 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095742.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 13:10
 Operator : AR\AJ
 Sample : PCHLORICC500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:53:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 05:52:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.885	151.3E6	249.3E6	50.000	50.000
28) SA Decachlor...	9.104	8.063	112.9E6	221.5E6	50.000	50.000
Target Compounds						
23) Chlordane-1	4.739	3.906	87581330	95105811	500.000	500.000
24) Chlordane-2	5.267	4.487	93352484	108.4E6	500.000	500.000
25) Chlordane-3	5.973	5.123	364.7E6	326.3E6	500.000	500.000
26) Chlordane-4	6.058	5.187	443.9E6	282.5E6	500.000	500.000
27) Chlordane-5	6.899	6.082	66738900	124.7E6	500.000	500.000

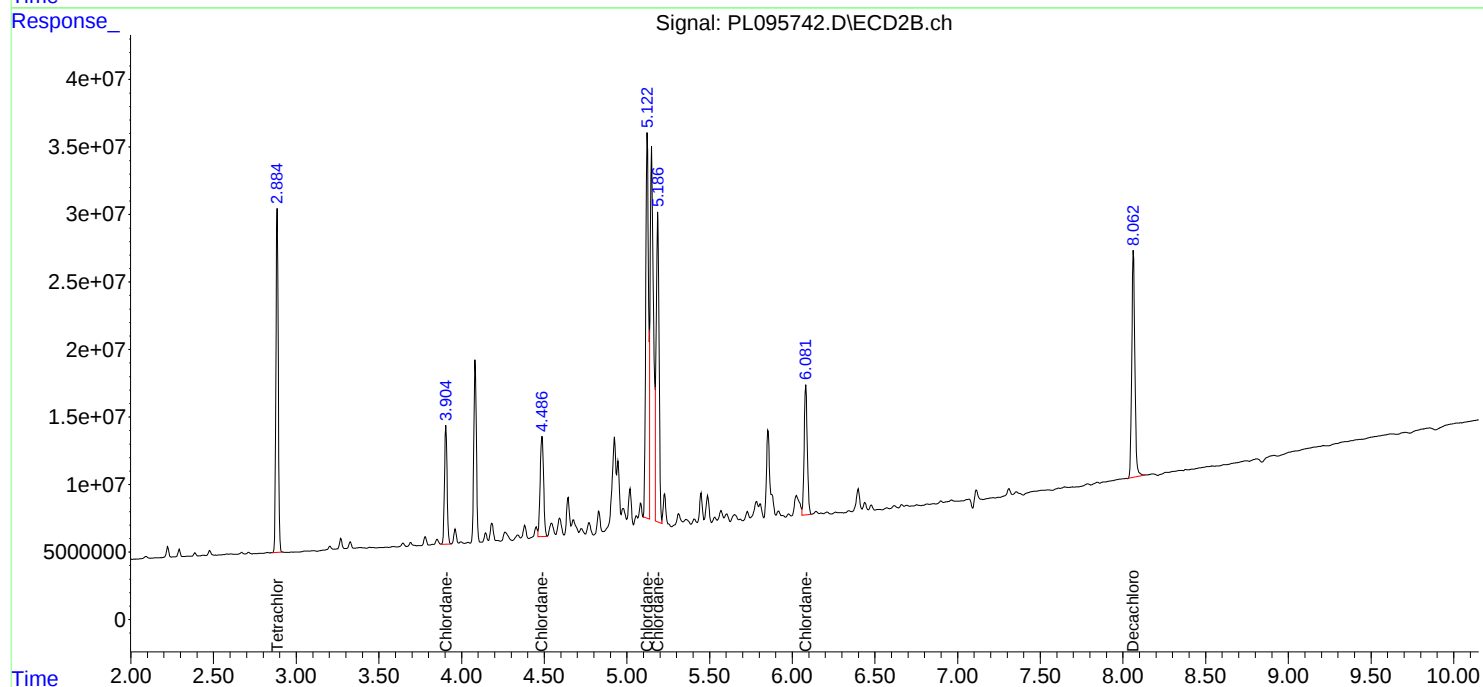
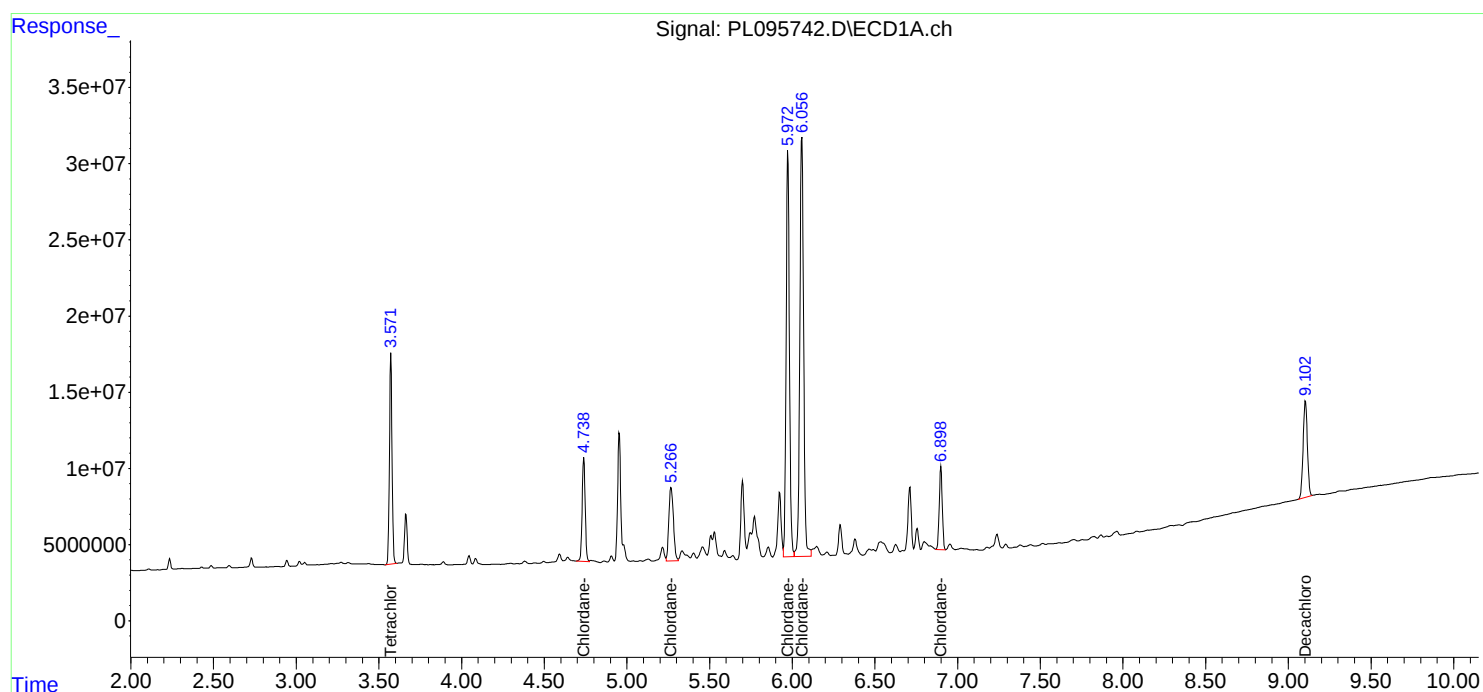
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095742.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 13:10
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:53:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 05:52:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095747.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 14:18
 Operator : AR\AJ
 Sample : PTOXICC500
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PTOXICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:28:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 05:27:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.886	160.4E6	200.5E6	50.000	50.000
7) SA Decachlor...	9.104	8.064	119.9E6	241.7E6	50.000	50.000
Target Compounds						
2) Toxaphene-1	5.881	5.145	5578296	15382494	500.000	500.000
3) Toxaphene-2	6.270	5.832	13278890	17339178	500.000	500.000
4) Toxaphene-3	7.085	6.111	46932535	18035582	500.000	500.000
5) Toxaphene-4	7.176	6.747	32772322	58746221	500.000	500.000
6) Toxaphene-5	7.958	7.187	22829500	40118304	500.000	500.000

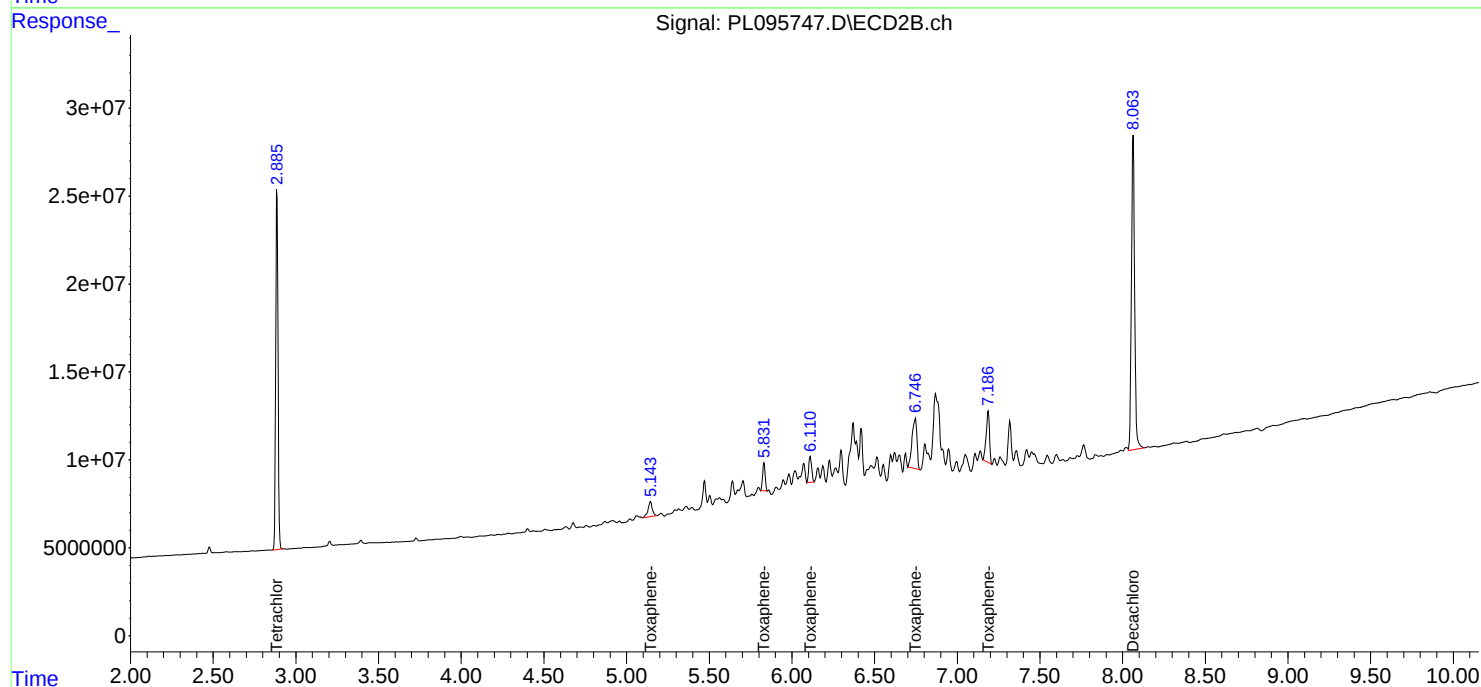
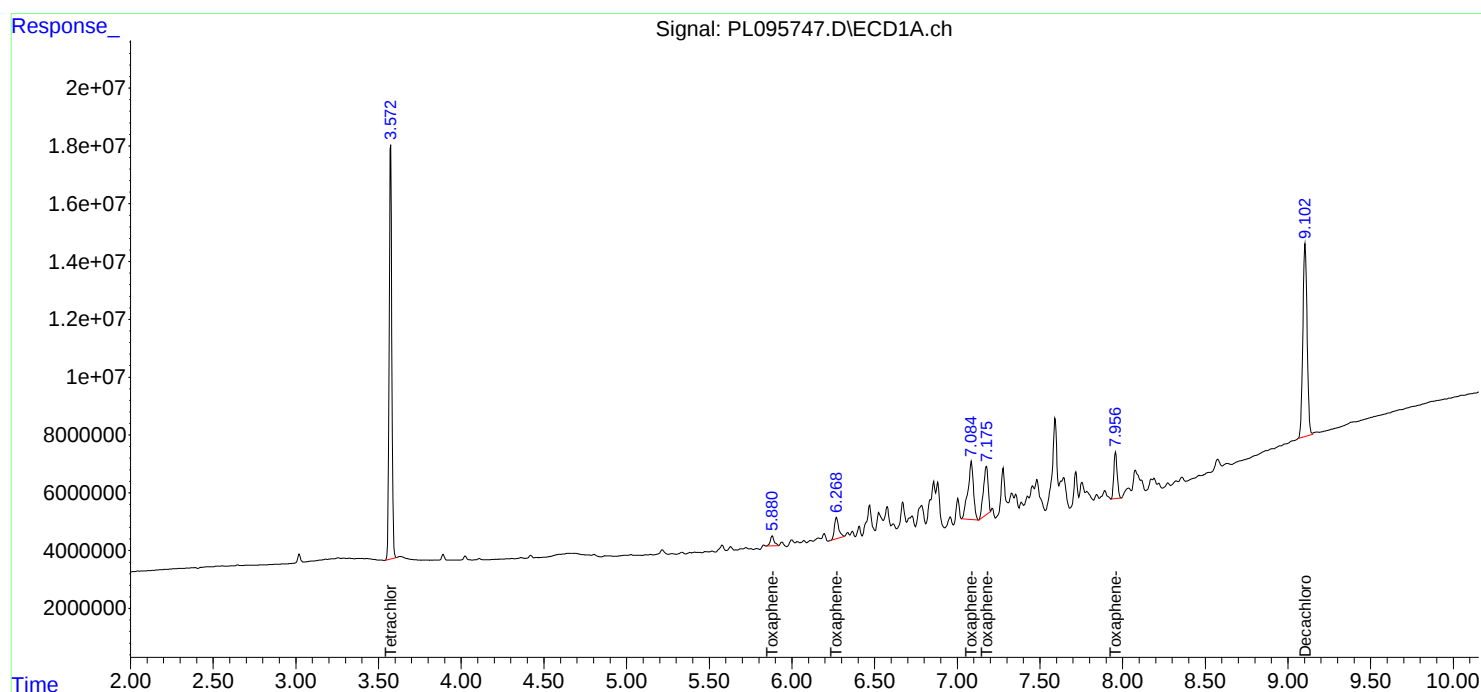
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095747.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 14:18
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:28:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 05:27:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x 0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095750.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 14:58
 Operator : AR\AJ
 Sample : PSTDICV050
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL052125

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:32:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.886	157.8E6	194.4E6	49.998	49.666
28) SA Decachlor...	9.104	8.064	117.3E6	229.7E6	49.773	52.517
Target Compounds						
2) A alpha-BHC	4.025	3.396	246.5E6	298.2E6	50.846	50.918
3) MA gamma-BHC...	4.356	3.730	225.5E6	283.9E6	50.436	50.692
4) MA Heptachlor	4.954	4.084	190.9E6	280.4E6	50.441	49.990
5) MB Aldrin	5.297	4.368	215.7E6	267.1E6	50.429	50.333
6) B beta-BHC	4.544	4.026	98119427	124.2E6	49.772	50.128
7) B delta-BHC	4.792	4.262	223.3E6	285.8E6	50.363	50.613
8) B Heptachlo...	5.719	4.871	191.4E6	247.0E6	50.151	50.018
9) A Endosulfan I	6.102	5.243	183.6E6	238.9E6	50.100	50.143
10) B gamma-Chl...	5.973	5.123	197.6E6	262.0E6	50.773	49.889
11) B alpha-Chl...	6.055	5.188	198.1E6	258.8E6	50.179	49.745
12) B 4,4'-DDE	6.225	5.375	184.6E6	266.3E6	50.319	49.663
13) MA Dieldrin	6.375	5.508	194.5E6	264.7E6	50.411	49.945
14) MA Endrin	6.602	5.783	161.3E6	242.4E6	49.992	49.715
15) B Endosulfa...	6.816	6.074	166.5E6	238.0E6	48.309	50.078
16) A 4,4'-DDD	6.735	5.927	147.1E6	220.8E6	50.200	50.353
17) MA 4,4'-DDT	7.050	6.180	133.9E6	240.9E6	49.505	50.363
18) B Endrin al...	6.945	6.252	121.6E6	173.9E6	50.281	50.352
19) B Endosulfa...	7.180	6.475	147.8E6	225.6E6	49.481	50.184
20) A Methoxychlor	7.523	6.751	63820349	130.4E6	50.042	49.860
21) B Endrin ke...	7.660	6.981	160.1E6	263.5E6	50.540	50.930
22) Mirex	8.142	7.175	115.1E6	202.3E6	49.744	49.832

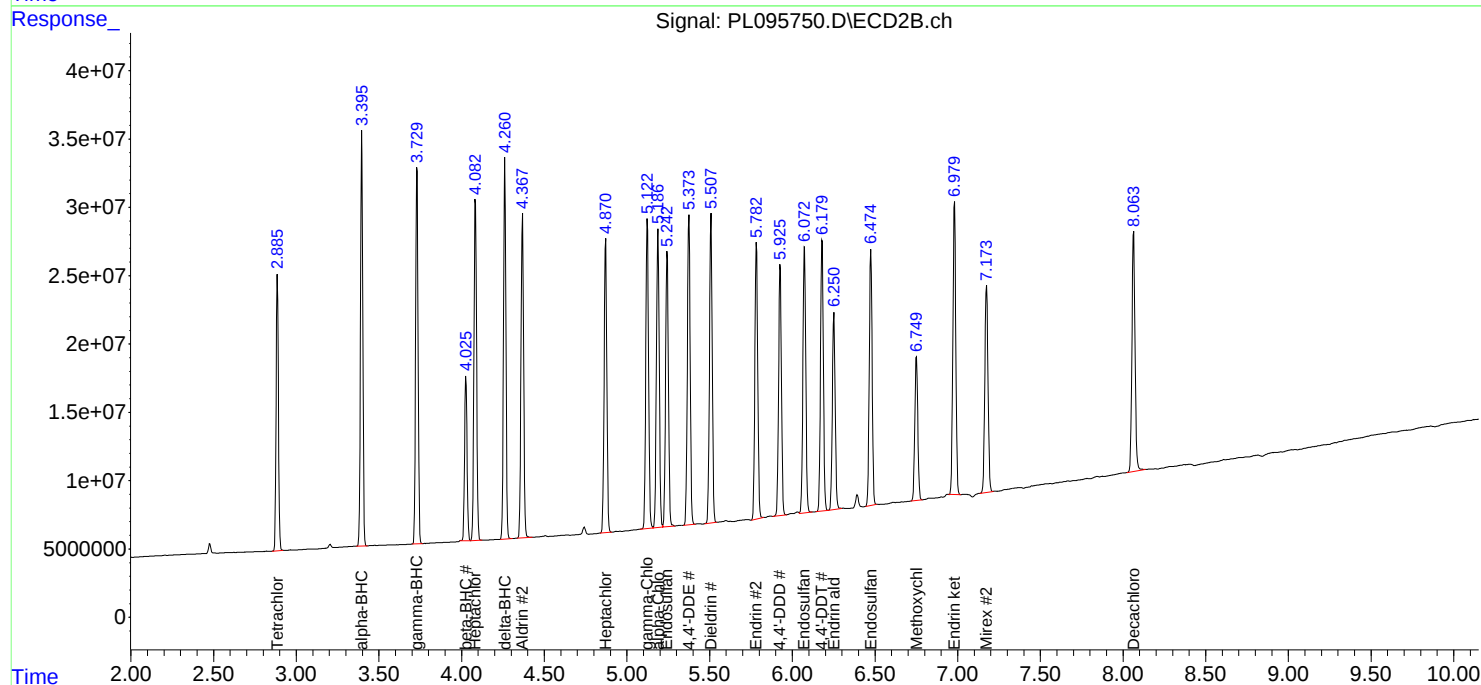
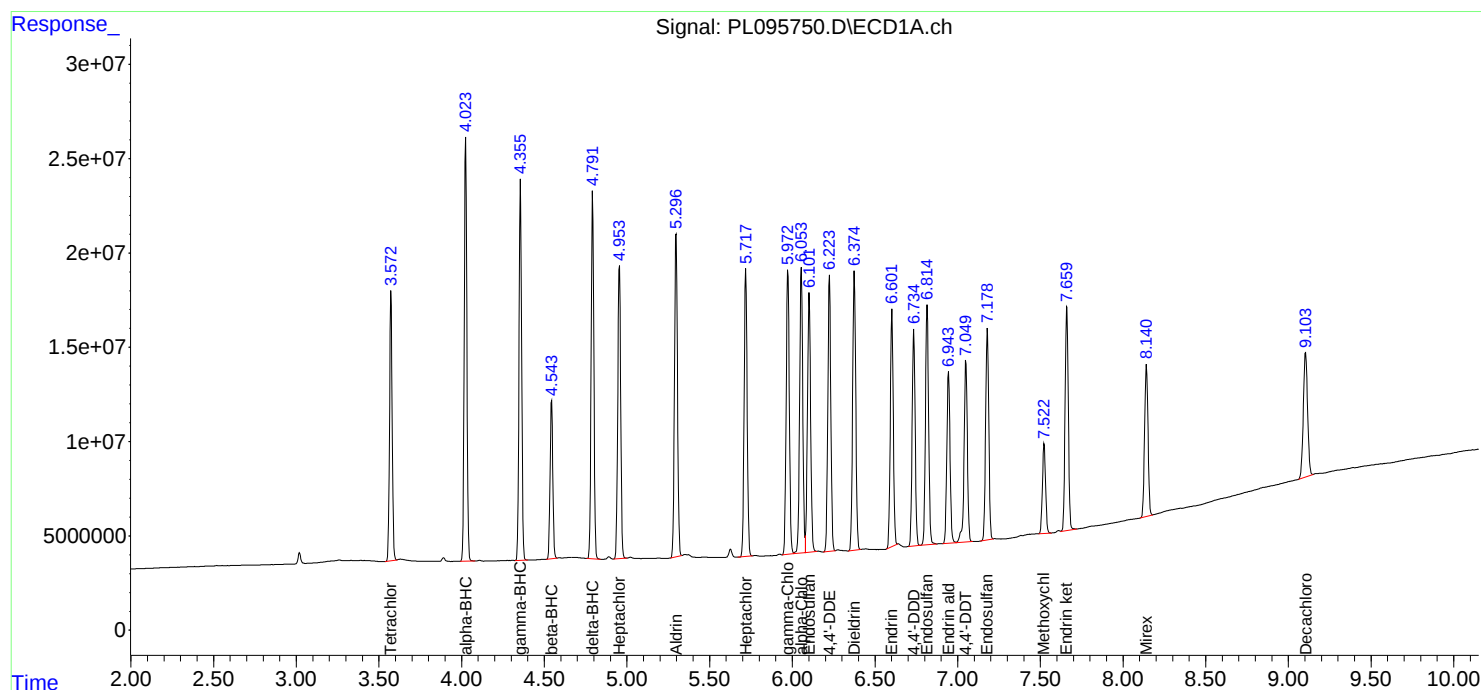
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095750.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 14:58
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL052125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:32:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095751.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 15:12
 Operator : AR\AJ
 Sample : PCHLORICV500
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL052125CHLOR

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:59:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 05:59:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.885	156.9E6	252.7E6	50.100	49.840
28) SA Decachlor...	9.104	8.064	115.9E6	229.0E6	50.010	51.351
Target Compounds						
23) Chlordane-1	4.740	3.906	88597152	96171041	497.300	493.232
24) Chlordane-2	5.268	4.488	96121246	109.3E6	500.182	490.592
25) Chlordane-3	5.974	5.124	377.3E6	331.4E6	510.592	502.970
26) Chlordane-4	6.059	5.187	457.2E6	287.0E6	508.677	502.673
27) Chlordane-5	6.900	6.082	69143587	126.8E6	504.904	497.202

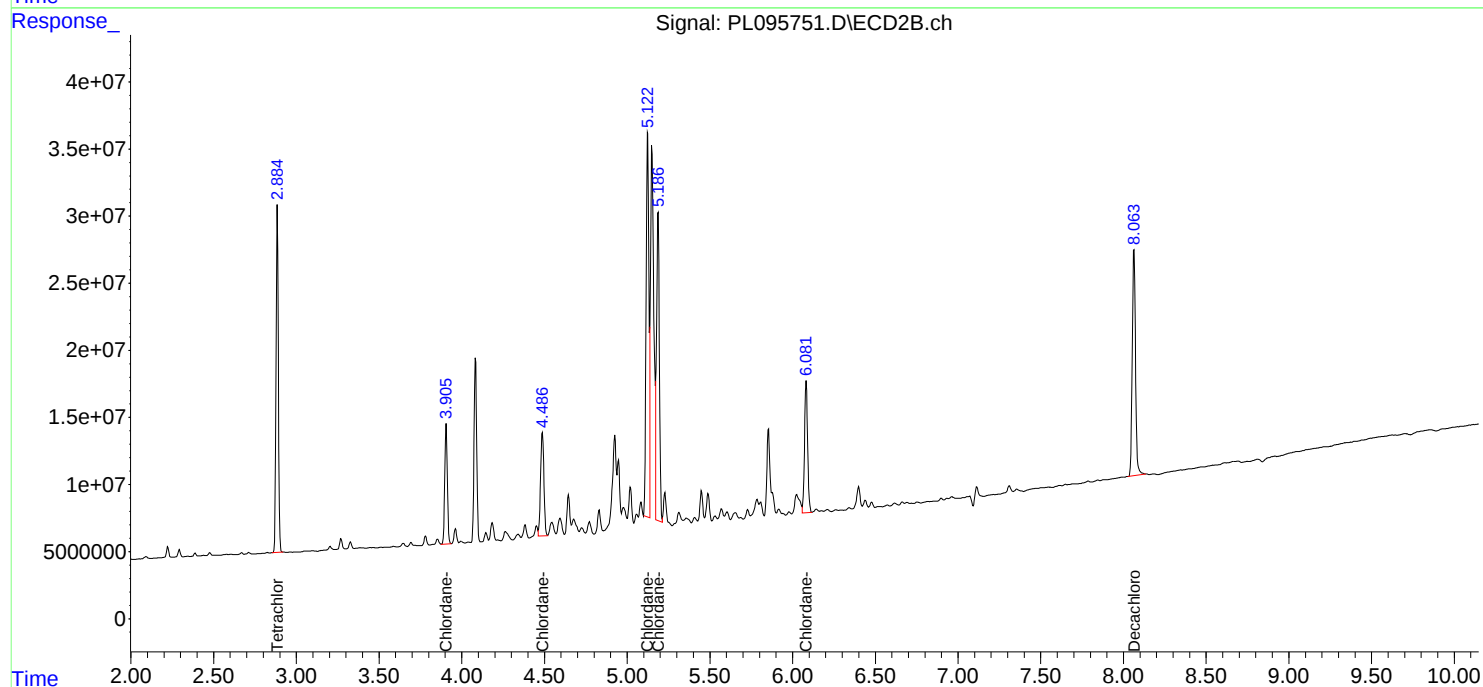
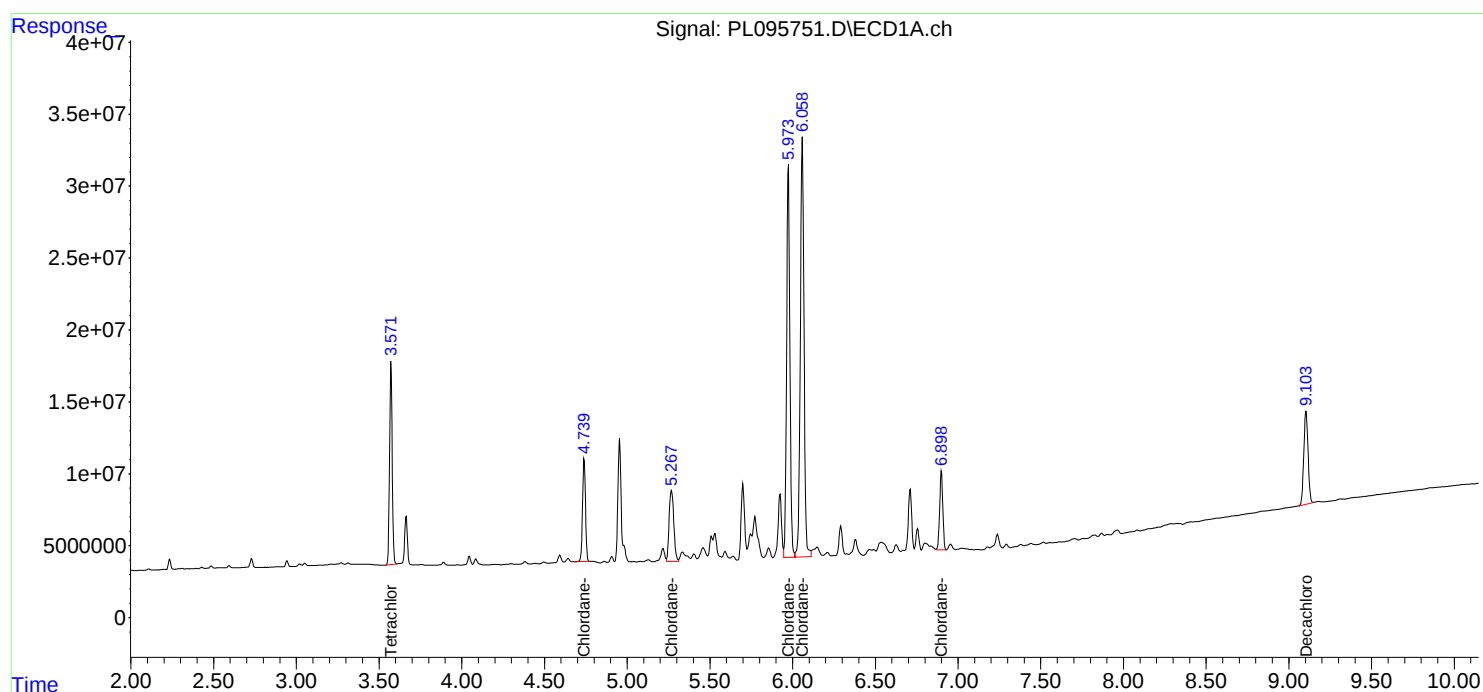
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095751.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 15:12
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL052125CHLOR

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:59:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 05:59:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095752.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 15:26
 Operator : AR\AJ
 Sample : PTOXICV500
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL052125TOX

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:35:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 05:34:43 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.886	163.7E6	202.4E6	49.982	49.895
7) SA Decachlor...	9.104	8.064	124.0E6	247.6E6	50.372	51.064
Target Compounds						
2) Toxaphene-1	5.882	5.144	5739363	15408948	501.878	517.652
3) Toxaphene-2	6.271	5.832	14155370	17364106	513.663	497.470
4) Toxaphene-3	7.086	6.112	48247186	18382533	514.399	502.461
5) Toxaphene-4	7.177	6.748	33135236	58920327	505.295	500.417
6) Toxaphene-5	7.958	7.188	23485148	39543084	507.540	484.747

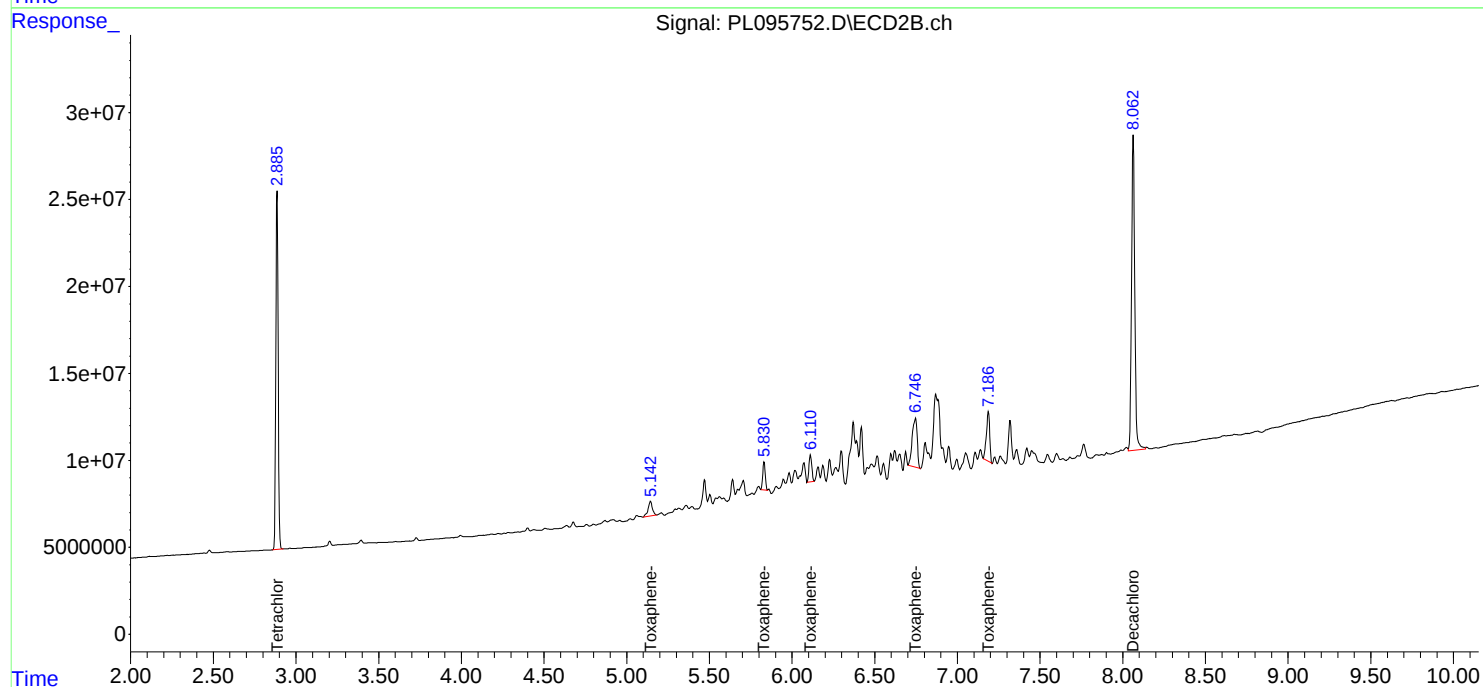
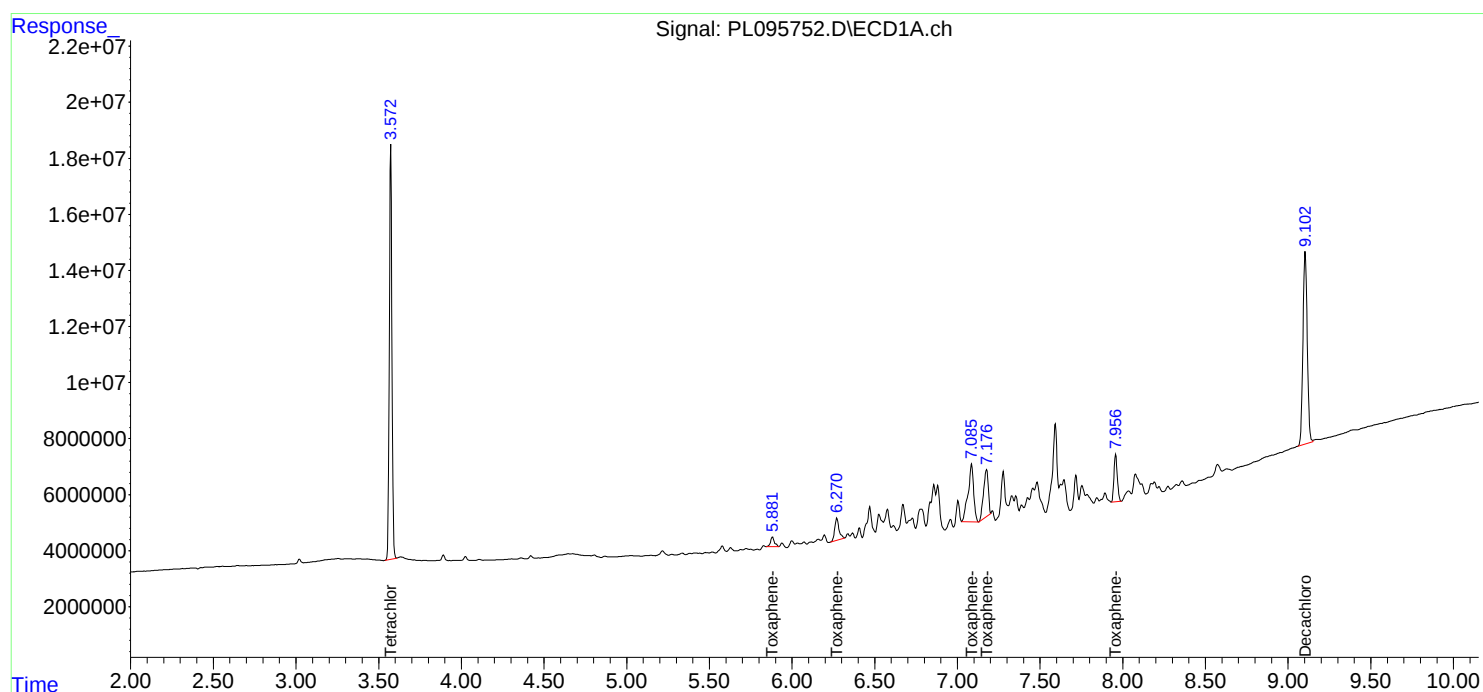
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095752.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 15:26
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL052125TOX

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:35:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 05:34:43 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x 0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Continuing Calib Date: 05/30/2025 Initial Calibration Date(s): 05/21/2025 05/21/2025

Continuing Calib Time: 12:40 Initial Calibration Time(s): 11:35 12:29

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.11	9.10	9.00	9.20	-0.01
Tetrachloro-m-xylene	3.58	3.57	3.47	3.67	-0.01
alpha-BHC	4.03	4.03	3.93	4.13	0.00
beta-BHC	4.55	4.54	4.44	4.64	-0.01
delta-BHC	4.80	4.79	4.69	4.89	-0.01
gamma-BHC (Lindane)	4.36	4.36	4.26	4.46	0.00
Heptachlor	4.96	4.96	4.86	5.06	0.00
Aldrin	5.30	5.30	5.20	5.40	0.00
Heptachlor epoxide	5.72	5.72	5.62	5.82	0.00
Endosulfan I	6.11	6.10	6.00	6.20	-0.01
Dieldrin	6.38	6.38	6.28	6.48	0.00
4,4'-DDE	6.23	6.22	6.12	6.32	-0.01
Endrin	6.61	6.60	6.50	6.70	-0.01
Endosulfan II	6.82	6.82	6.72	6.92	0.00
4,4'-DDD	6.74	6.73	6.63	6.83	-0.01
Endosulfan sulfate	7.19	7.18	7.08	7.28	-0.01
4,4'-DDT	7.06	7.05	6.95	7.15	-0.01
Methoxychlor	7.53	7.52	7.42	7.62	-0.01
Endrin ketone	7.67	7.66	7.56	7.76	-0.01
Endrin aldehyde	6.95	6.94	6.84	7.04	-0.01
alpha-Chlordane	6.06	6.05	5.95	6.15	-0.01
gamma-Chlordane	5.98	5.97	5.87	6.07	-0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Continuing Calib Date: 05/30/2025 Initial Calibration Date(s): 05/21/2025 05/21/2025

Continuing Calib Time: 12:40 Initial Calibration Time(s): 11:35 12:29

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	8.06	8.06	7.96	8.16	0.00
Tetrachloro-m-xylene	2.88	2.89	2.79	2.99	0.01
alpha-BHC	3.39	3.40	3.30	3.50	0.01
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.01
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.36	4.37	4.27	4.47	0.01
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.24	5.24	5.14	5.34	0.00
Dieldrin	5.50	5.51	5.41	5.61	0.01
4,4'-DDE	5.37	5.37	5.27	5.47	0.00
Endrin	5.78	5.78	5.68	5.88	0.00
Endosulfan II	6.07	6.07	5.97	6.17	0.00
4,4'-DDD	5.92	5.93	5.83	6.03	0.01
Endosulfan sulfate	6.47	6.48	6.38	6.58	0.01
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.75	6.65	6.85	0.00
Endrin ketone	6.98	6.98	6.88	7.08	0.00
Endrin aldehyde	6.25	6.25	6.15	6.35	0.00
alpha-Chlordane	5.18	5.19	5.09	5.29	0.01
gamma-Chlordane	5.12	5.12	5.02	5.22	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No.: CCAL01 Date Analyzed: 05/30/2025

Lab Sample No.: PSTDCCC050 Data File : PL095839.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.742	6.634	6.834	52.630	50.000	5.3
4,4'-DDE	6.232	6.124	6.324	48.800	50.000	-2.4
4,4'-DDT	7.058	6.950	7.150	43.650	50.000	-12.7
Aldrin	5.304	5.197	5.397	54.070	50.000	8.1
alpha-BHC	4.031	3.925	4.125	56.630	50.000	13.3
alpha-Chlordane	6.061	5.954	6.154	52.450	50.000	4.9
beta-BHC	4.550	4.444	4.644	54.950	50.000	9.9
Decachlorobiphenyl	9.114	9.003	9.203	46.650	50.000	-6.7
delta-BHC	4.798	4.692	4.892	55.280	50.000	10.6
Dieldrin	6.382	6.275	6.475	51.990	50.000	4.0
Endosulfan I	6.109	6.002	6.202	52.340	50.000	4.7
Endosulfan II	6.823	6.715	6.915	49.290	50.000	-1.4
Endosulfan sulfate	7.186	7.078	7.278	49.150	50.000	-1.7
Endrin	6.610	6.502	6.702	45.300	50.000	-9.4
Endrin aldehyde	6.952	6.844	7.044	48.220	50.000	-3.6
Endrin ketone	7.667	7.560	7.760	50.720	50.000	1.4
gamma-BHC (Lindane)	4.362	4.257	4.457	56.780	50.000	13.6
gamma-Chlordane	5.980	5.873	6.073	53.770	50.000	7.5
Heptachlor	4.961	4.855	5.055	50.260	50.000	0.5
Heptachlor epoxide	5.724	5.618	5.818	50.040	50.000	0.1
Methoxychlor	7.531	7.423	7.623	43.480	50.000	-13.0
Tetrachloro-m-xylene	3.578	3.473	3.673	56.560	50.000	13.1



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No.: CCAL01 Date Analyzed: 05/30/2025

Lab Sample No.: PSTDCCC050 Data File : PL095839.D Time Analyzed: 12:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.923	5.826	6.026	55.200	50.000	10.4
4,4'-DDE	5.371	5.274	5.474	47.740	50.000	-4.5
4,4'-DDT	6.178	6.080	6.280	41.880	50.000	-16.2
Aldrin	4.363	4.268	4.468	56.630	50.000	13.3
alpha-BHC	3.391	3.296	3.496	57.910	50.000	15.8
alpha-Chlordane	5.184	5.087	5.287	54.420	50.000	8.8
beta-BHC	4.021	3.926	4.126	55.690	50.000	11.4
Decachlorobiphenyl	8.062	7.964	8.164	43.500	50.000	-13.0
delta-BHC	4.257	4.161	4.361	55.940	50.000	11.9
Dieldrin	5.504	5.408	5.608	53.480	50.000	7.0
Endosulfan I	5.239	5.143	5.343	54.970	50.000	9.9
Endosulfan II	6.071	5.973	6.173	53.480	50.000	7.0
Endosulfan sulfate	6.472	6.375	6.575	51.060	50.000	2.1
Endrin	5.780	5.683	5.883	43.470	50.000	-13.1
Endrin aldehyde	6.249	6.151	6.351	51.400	50.000	2.8
Endrin ketone	6.978	6.880	7.080	50.750	50.000	1.5
gamma-BHC (Lindane)	3.725	3.630	3.830	56.550	50.000	13.1
gamma-Chlordane	5.119	5.023	5.223	55.410	50.000	10.8
Heptachlor	4.078	3.983	4.183	52.900	50.000	5.8
Heptachlor epoxide	4.866	4.771	4.971	57.090	50.000	14.2
Methoxychlor	6.748	6.651	6.851	41.270	50.000	-17.5
Tetrachloro-m-xylene	2.881	2.786	2.986	56.350	50.000	12.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095839.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 12:40
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDCCC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:51:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.578	2.881	178.4E6	220.5E6	56.556	56.346
2)	SA Decachlor...	9.114	8.062	109.9E6	190.3E6	46.651	43.497
Target Compounds							
2)	A alpha-BHC	4.031	3.391	274.5E6	339.2E6	56.630	57.912
3)	MA gamma-BHC...	4.362	3.725	253.9E6	316.7E6	56.777	56.546
4)	MA Heptachlor	4.961	4.078	190.2E6	296.7E6	50.257	52.904
5)	MB Aldrin	5.304	4.363	231.3E6	300.5E6	54.073	56.627
6)	B beta-BHC	4.550	4.021	108.3E6	138.0E6	54.952	55.685
7)	B delta-BHC	4.798	4.257	245.1E6	315.9E6	55.276	55.945
8)	B Heptachlo...	5.724	4.866	191.0E6	281.9E6	50.043	57.090
9)	A Endosulfan I	6.109	5.239	191.8E6	261.9E6	52.341	54.966
10)	B gamma-Chl...	5.980	5.119	209.3E6	291.1E6	53.773	55.412
11)	B alpha-Chl...	6.061	5.184	207.1E6	283.1E6	52.451	54.421
12)	B 4,4'-DDE	6.232	5.371	179.0E6	256.0E6	48.799	47.736
13)	MA Dieldrin	6.382	5.504	200.7E6	283.4E6	51.995	53.477
14)	MA Endrin	6.610	5.780	146.2E6	211.9E6	45.297	43.467
15)	B Endosulfa...	6.823	6.071	169.8E6	254.1E6	49.288	53.484
16)	A 4,4'-DDD	6.742	5.923	154.3E6	242.0E6	52.634	55.196
17)	MA 4,4'-DDT	7.058	6.178	118.1E6	200.3E6	43.653	41.876
18)	B Endrin al...	6.952	6.249	116.6E6	177.6E6	48.217	51.404
19)	B Endosulfa...	7.186	6.472	146.8E6	229.5E6	49.146	51.065
20)	A Methoxychlor	7.531	6.748	55453596	108.0E6	43.482	41.270
21)	B Endrin ke...	7.667	6.978	160.6E6	262.6E6	50.723	50.754
22)	Mirex	8.149	7.172	110.7E6	195.9E6	47.830	48.244

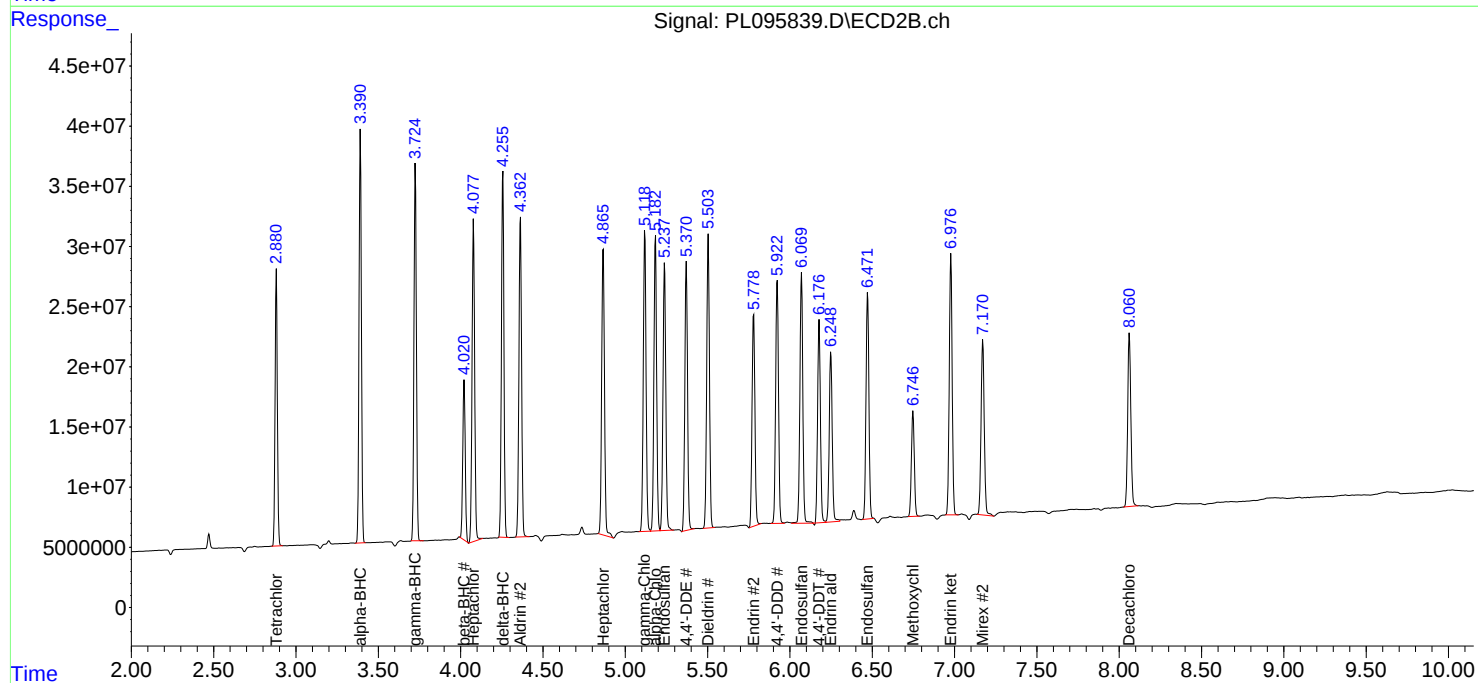
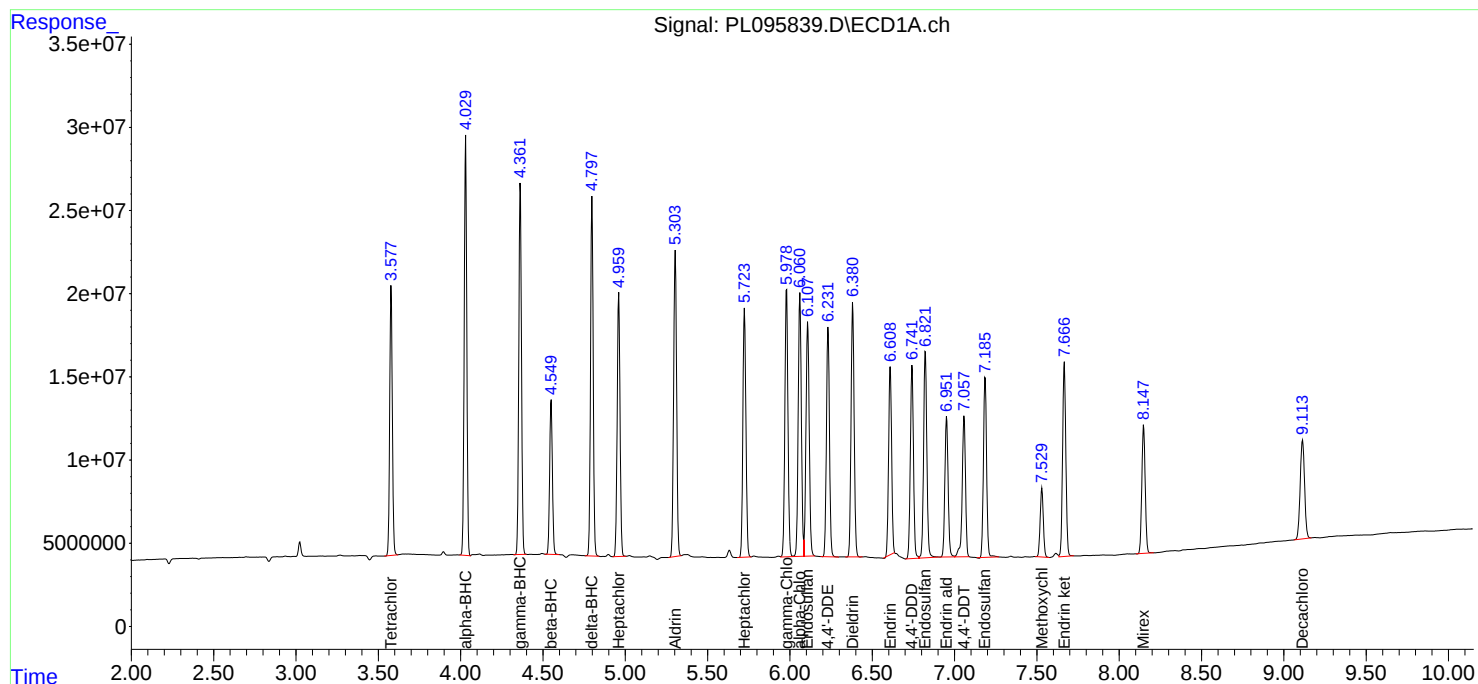
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 12:40
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:51:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Continuing Calib Date: 05/30/2025 Initial Calibration Date(s): 05/21/2025 05/21/2025

Continuing Calib Time: 18:33 Initial Calibration Time(s): 11:35 12:29

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.10	9.10	9.00	9.20	0.00
Tetrachloro-m-xylene	3.57	3.57	3.47	3.67	0.00
alpha-BHC	4.03	4.03	3.93	4.13	0.00
beta-BHC	4.54	4.54	4.44	4.64	0.00
delta-BHC	4.79	4.79	4.69	4.89	0.00
gamma-BHC (Lindane)	4.36	4.36	4.26	4.46	0.00
Heptachlor	4.96	4.96	4.86	5.06	0.01
Aldrin	5.30	5.30	5.20	5.40	0.00
Heptachlor epoxide	5.72	5.72	5.62	5.82	0.00
Endosulfan I	6.10	6.10	6.00	6.20	0.00
Dieldrin	6.38	6.38	6.28	6.48	0.00
4,4'-DDE	6.23	6.22	6.12	6.32	0.00
Endrin	6.60	6.60	6.50	6.70	0.00
Endosulfan II	6.82	6.82	6.72	6.92	0.00
4,4'-DDD	6.74	6.73	6.63	6.83	-0.01
Endosulfan sulfate	7.18	7.18	7.08	7.28	0.00
4,4'-DDT	7.05	7.05	6.95	7.15	0.00
Methoxychlor	7.52	7.52	7.42	7.62	0.00
Endrin ketone	7.66	7.66	7.56	7.76	0.00
Endrin aldehyde	6.95	6.94	6.84	7.04	-0.01
alpha-Chlordane	6.06	6.05	5.95	6.15	0.00
gamma-Chlordane	5.97	5.97	5.87	6.07	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Continuing Calib Date: 05/30/2025 Initial Calibration Date(s): 05/21/2025 05/21/2025

Continuing Calib Time: 18:33 Initial Calibration Time(s): 11:35 12:29

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	8.06	8.06	7.96	8.16	0.00
Tetrachloro-m-xylene	2.89	2.89	2.79	2.99	0.01
alpha-BHC	3.40	3.40	3.30	3.50	0.01
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.24	5.24	5.14	5.34	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.37	5.27	5.47	0.00
Endrin	5.78	5.78	5.68	5.88	0.00
Endosulfan II	6.07	6.07	5.97	6.17	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.47	6.48	6.38	6.58	0.01
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.75	6.65	6.85	0.00
Endrin ketone	6.98	6.98	6.88	7.08	0.00
Endrin aldehyde	6.25	6.25	6.15	6.35	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.12	5.02	5.22	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No.: CCAL02 Date Analyzed: 05/30/2025

Lab Sample No.: PSTDCCC050 Data File : PL095859.D Time Analyzed: 18:33

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.735	6.634	6.834	50.550	50.000	1.1
4,4'-DDE	6.225	6.124	6.324	51.080	50.000	2.2
4,4'-DDT	7.050	6.950	7.150	53.550	50.000	7.1
Aldrin	5.297	5.197	5.397	51.670	50.000	3.3
alpha-BHC	4.025	3.925	4.125	54.220	50.000	8.4
alpha-Chlordane	6.055	5.954	6.154	50.700	50.000	1.4
beta-BHC	4.544	4.444	4.644	52.730	50.000	5.5
Decachlorobiphenyl	9.103	9.003	9.203	51.680	50.000	3.4
delta-BHC	4.792	4.692	4.892	48.340	50.000	-3.3
Dieldrin	6.375	6.275	6.475	51.390	50.000	2.8
Endosulfan I	6.102	6.002	6.202	50.990	50.000	2.0
Endosulfan II	6.816	6.715	6.915	54.940	50.000	9.9
Endosulfan sulfate	7.179	7.078	7.278	51.290	50.000	2.6
Endrin	6.603	6.502	6.702	51.420	50.000	2.8
Endrin aldehyde	6.945	6.844	7.044	51.330	50.000	2.7
Endrin ketone	7.660	7.560	7.760	51.090	50.000	2.2
gamma-BHC (Lindane)	4.356	4.257	4.457	54.370	50.000	8.7
gamma-Chlordane	5.973	5.873	6.073	50.760	50.000	1.5
Heptachlor	4.955	4.855	5.055	52.490	50.000	5.0
Heptachlor epoxide	5.719	5.618	5.818	49.240	50.000	-1.5
Methoxychlor	7.523	7.423	7.623	54.700	50.000	9.4
Tetrachloro-m-xylene	3.572	3.473	3.673	53.520	50.000	7.0



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No.: CCAL02 Date Analyzed: 05/30/2025

Lab Sample No.: PSTDCCC050 Data File : PL095859.D Time Analyzed: 18:33

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.925	5.826	6.026	49.660	50.000	-0.7
4,4'-DDE	5.373	5.274	5.474	50.560	50.000	1.1
4,4'-DDT	6.179	6.080	6.280	48.750	50.000	-2.5
Aldrin	4.366	4.268	4.468	53.760	50.000	7.5
alpha-BHC	3.395	3.296	3.496	54.870	50.000	9.7
alpha-Chlordane	5.186	5.087	5.287	51.750	50.000	3.5
beta-BHC	4.024	3.926	4.126	52.720	50.000	5.4
Decachlorobiphenyl	8.063	7.964	8.164	46.490	50.000	-7.0
delta-BHC	4.260	4.161	4.361	53.340	50.000	6.7
Dieldrin	5.507	5.408	5.608	50.790	50.000	1.6
Endosulfan I	5.242	5.143	5.343	51.710	50.000	3.4
Endosulfan II	6.072	5.973	6.173	49.930	50.000	-0.1
Endosulfan sulfate	6.474	6.375	6.575	48.620	50.000	-2.8
Endrin	5.782	5.683	5.883	51.010	50.000	2.0
Endrin aldehyde	6.250	6.151	6.351	49.370	50.000	-1.3
Endrin ketone	6.979	6.880	7.080	45.180	50.000	-9.6
gamma-BHC (Lindane)	3.728	3.630	3.830	53.950	50.000	7.9
gamma-Chlordane	5.122	5.023	5.223	51.880	50.000	3.8
Heptachlor	4.081	3.983	4.183	53.780	50.000	7.6
Heptachlor epoxide	4.869	4.771	4.971	52.620	50.000	5.2
Methoxychlor	6.750	6.651	6.851	47.570	50.000	-4.9
Tetrachloro-m-xylene	2.885	2.786	2.986	53.470	50.000	6.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095859.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 18:33
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDCCC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:55:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.885	168.9E6	209.3E6	53.520	53.470
28)	SA Decachlor...	9.103	8.063	121.8E6	203.3E6	51.676	46.486
Target Compounds							
2)	A alpha-BHC	4.025	3.395	262.9E6	321.4E6	54.224	54.867
3)	MA gamma-BHC...	4.356	3.728	243.1E6	302.2E6	54.368	53.951
4)	MA Heptachlor	4.955	4.081	198.7E6	301.6E6	52.488	53.775
5)	MB Aldrin	5.297	4.366	221.0E6	285.3E6	51.672	53.758
6)	B beta-BHC	4.544	4.024	103.9E6	130.6E6	52.726	52.720
7)	B delta-BHC	4.792	4.260	214.3E6	301.2E6	48.343	53.336
8)	B Heptachlo...	5.719	4.869	187.9E6	259.8E6	49.235	52.625
9)	A Endosulfan I	6.102	5.242	186.9E6	246.4E6	50.989	51.705
10)	B gamma-Chl...	5.973	5.122	197.6E6	272.5E6	50.762	51.876
11)	B alpha-Chl...	6.055	5.186	200.2E6	269.3E6	50.699	51.753
12)	B 4,4'-DDE	6.225	5.373	187.3E6	271.1E6	51.077	50.564
13)	MA Dieldrin	6.375	5.507	198.3E6	269.2E6	51.391	50.785
14)	MA Endrin	6.603	5.782	165.9E6	248.7E6	51.419	51.011
15)	B Endosulfa...	6.816	6.072	189.3E6	237.3E6	54.938	49.929
16)	A 4,4'-DDD	6.735	5.925	148.1E6	217.8E6	50.548	49.665
17)	MA 4,4'-DDT	7.050	6.179	144.9E6	233.2E6	53.555	48.754
18)	B Endrin al...	6.945	6.250	124.1E6	170.5E6	51.328	49.367
19)	B Endosulfa...	7.179	6.474	153.2E6	218.5E6	51.288	48.617
20)	A Methoxychlor	7.523	6.750	69758355	124.5E6	54.698	47.574
21)	B Endrin ke...	7.660	6.979	161.8E6	233.8E6	51.088	45.180
22)	Mirex	8.142	7.173	119.3E6	175.2E6	51.563	43.142

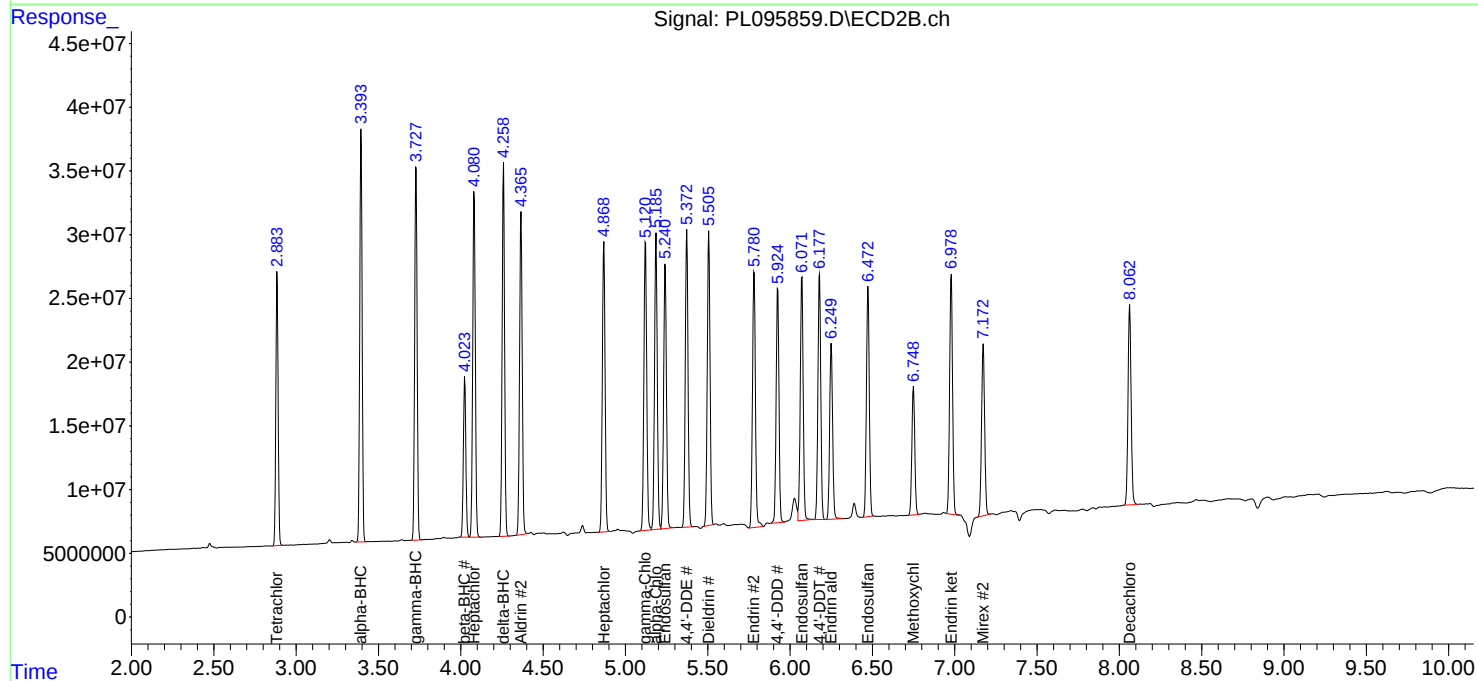
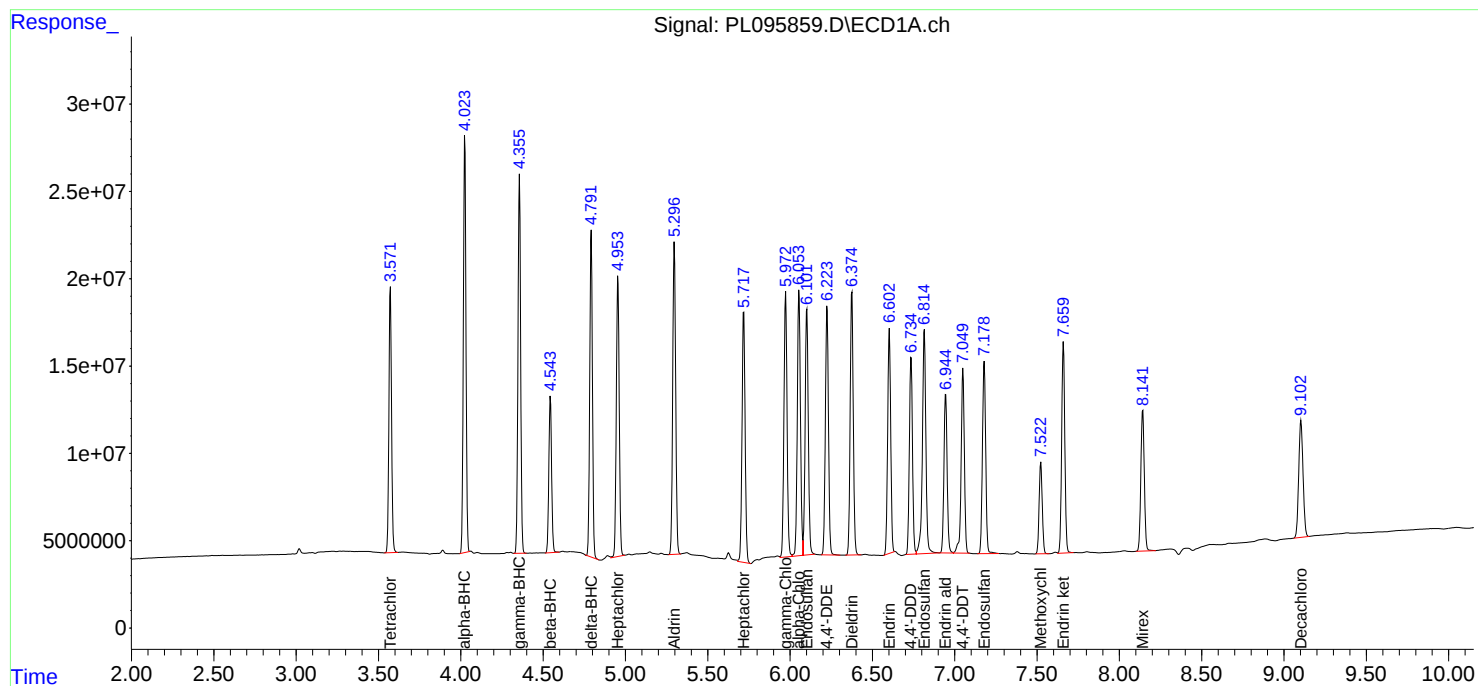
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095859.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 18:33
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:55:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No. (PEM): PEM - PL095733.D Date Analyzed: 05/21/2025

Lab Sample No.(PEM): PEM Time Analyzed: 11:01

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.103	9.000	9.200	21.750	20.000	8.8
Tetrachloro-m-xylene	3.573	3.520	3.620	20.300	20.000	1.5
alpha-BHC	4.025	3.970	4.080	9.870	10.000	-1.3
beta-BHC	4.544	4.490	4.590	10.330	10.000	3.3
gamma-BHC (Lindane)	4.356	4.310	4.410	10.120	10.000	1.2
Endrin	6.602	6.530	6.670	51.510	50.000	3.0
4,4'-DDT	7.049	6.980	7.120	98.360	100.000	-1.6
Methoxychlor	7.523	7.450	7.590	249.140	250.000	-0.3

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No. (PEM): PEM - PL095733.D Date Analyzed: 05/21/2025

Lab Sample No.(PEM): PEM Time Analyzed: 11:01

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.063	7.960	8.160	20.860	20.000	4.3
Tetrachloro-m-xylene	2.886	2.840	2.940	19.970	20.000	-0.2
alpha-BHC	3.396	3.350	3.450	9.630	10.000	-3.7
beta-BHC	4.024	3.970	4.070	10.010	10.000	0.1
gamma-BHC (Lindane)	3.730	3.680	3.780	9.770	10.000	-2.3
Endrin	5.782	5.710	5.850	51.350	50.000	2.7
4,4'-DDT	6.179	6.110	6.250	105.590	100.000	5.6
Methoxychlor	6.750	6.680	6.820	232.680	250.000	-6.9

PEM
 Data File: PL095733.D Date Acquired 5/21/2025 11:01
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.60	166199539.1	167521772.4	1322233.35	Down 0.79
Endrin aldehyde	6.96	311326.919			
Endrin ketone	7.66	1010906.429			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.78	250406859.3	255154793.7	4747934.39	1.86
Endrin aldehyde #2	6.25	2401094.749			
Endrin ketone #2	6.98	2346839.636			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.05	266081984.2	266752820.2	670836.009	0.25
4,4'-DDE	0.00	0			
4,4'-DDD	6.73	670836.009			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.18	505004527.9	506096836.4	1092308.49	0.22
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	1092308.494			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095733.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 11:01
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/22/2025
 Supervised By : mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:31:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	64039504	78171856	20.296	19.973
28)	SA Decachlor...	9.103	8.063	51250615	91261143	21.750	20.862
Target Compounds							
2)	A alpha-BHC	4.025	3.396	47867188	56433599	9.874	9.635
3)	MA gamma-BHC...	4.356	3.730	45268364	54712345	10.123	9.768
6)	B beta-BHC	4.544	4.024	20364485	24808902	10.330	10.013m
14)	MA Endrin	6.602	5.782	166.2E6	250.4E6	51.507	51.354
16)	A 4,4'-DDD	6.734	5.926	670836	1092308	0.229m	0.249m
17)	MA 4,4'-DDT	7.049	6.179	266.1E6	505.0E6	98.362	105.592
18)	B Endrin al...	6.959	6.254	311327	2401095	0.129m	0.695m#
20)	A Methoxychlor	7.523	6.750	317.7E6	608.7E6	249.137	232.677
21)	B Endrin ke...	7.659	6.979	1010906	2346840	0.319m	0.454m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095733.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 11:01
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

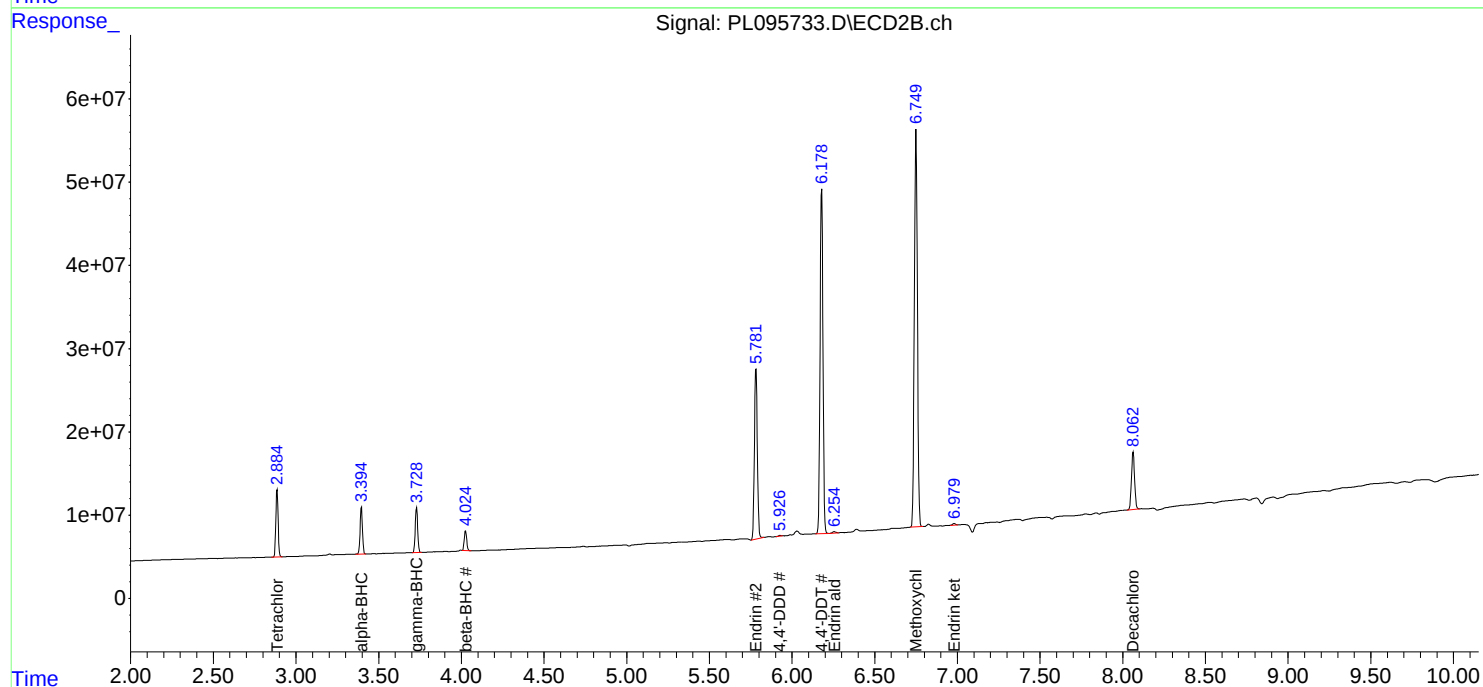
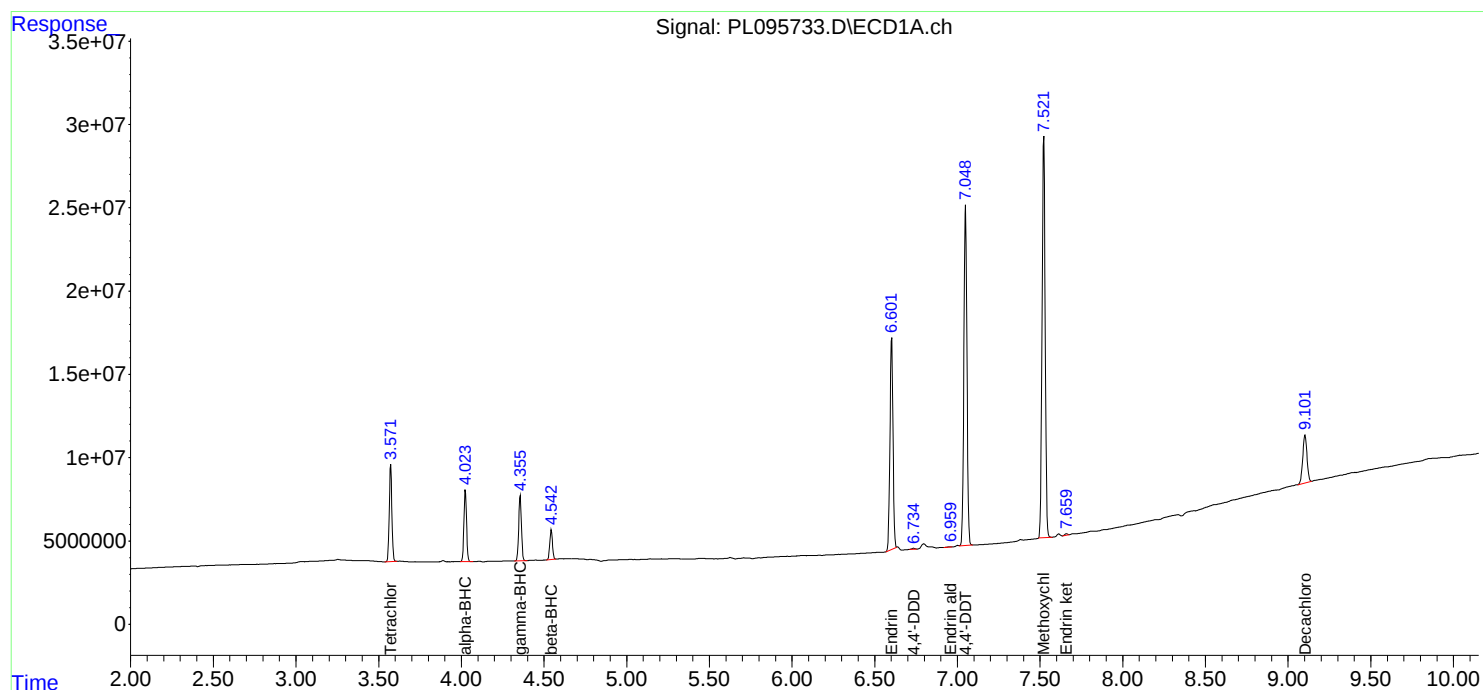
Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/22/2025
Supervised By : mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:31:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No. (PEM): PEM - PL095835.D Date Analyzed: 05/30/2025

Lab Sample No.(PEM): PEM Time Analyzed: 09:10

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.105	9.000	9.210	21.880	20.000	9.4
Tetrachloro-m-xylene	3.573	3.520	3.620	23.720	20.000	18.6
alpha-BHC	4.025	3.970	4.080	11.500	10.000	15.0
beta-BHC	4.545	4.490	4.600	11.780	10.000	17.8
gamma-BHC (Lindane)	4.357	4.310	4.410	11.730	10.000	17.3
Endrin	6.603	6.530	6.670	52.970	50.000	5.9
4,4'-DDT	7.051	6.980	7.120	97.310	100.000	-2.7
Methoxychlor	7.524	7.450	7.590	238.170	250.000	-4.7

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/21/2025 05/21/2025

Client Sample No. (PEM): PEM - PL095835.D Date Analyzed: 05/30/2025

Lab Sample No.(PEM): PEM Time Analyzed: 09:10

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.063	7.960	8.160	21.510	20.000	7.6
Tetrachloro-m-xylene	2.886	2.840	2.940	23.260	20.000	16.3
alpha-BHC	3.396	3.350	3.450	11.320	10.000	13.2
beta-BHC	4.024	3.970	4.070	11.850	10.000	18.5
gamma-BHC (Lindane)	3.729	3.680	3.780	11.360	10.000	13.6
Endrin	5.782	5.710	5.850	54.050	50.000	8.1
4,4'-DDT	6.179	6.110	6.250	105.040	100.000	5.0
Methoxychlor	6.750	6.680	6.820	221.430	250.000	-11.4

PEM
 Data File: PL095835.D Date Acquired 5/30/2025 9:10
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.60	170914986.3	181523493.5	10608507.2	Down 5.84
Endrin aldehyde	6.94	1731764.384			
Endrin ketone	7.66	8876742.825			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.78	263529134	283821571.6	20292437.6	7.15
Endrin aldehyde #2	6.25	4245245.372			
Endrin ketone #2	6.98	16047192.24			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.05	263242802.7	280656113.2	17413310.5	6.20
4,4'-DDE	6.22	436919.336			
4,4'-DDD	6.74	16976391.2			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.18	502349522.1	527467637.6	25118115.6	4.76
4,4'-DDE #2	5.38	749910.34			
4,4'-DDD #2	5.93	24368205.21			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095835.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 09:10
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:50:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.573	2.886	74840605	91025202	23.719	23.257
28)	SA Decachlor...	9.105	8.063	51564008	94095375	21.883	21.510
Target Compounds							
2)	A alpha-BHC	4.025	3.396	55751018	66295552	11.500	11.318
3)	MA gamma-BHC...	4.357	3.729	52437837	63640134	11.726	11.362
6)	B beta-BHC	4.545	4.024	23226794	29359227	11.782	11.850m
12)	B 4,4'-DDE	6.224	5.376	436919	749910	0.119m	0.140m
14)	MA Endrin	6.603	5.782	170.9E6	263.5E6	52.968	54.045
16)	A 4,4'-DDD	6.735	5.926	16976391	24368205	5.793	5.557
17)	MA 4,4'-DDT	7.051	6.179	263.2E6	502.3E6	97.312	105.037
18)	B Endrin al...	6.944	6.251	1731764	4245245	0.716m	1.229m#
20)	A Methoxychlor	7.524	6.750	303.7E6	579.3E6	238.172	221.432
21)	B Endrin ke...	7.661	6.979	8876743	16047192	2.803	3.102

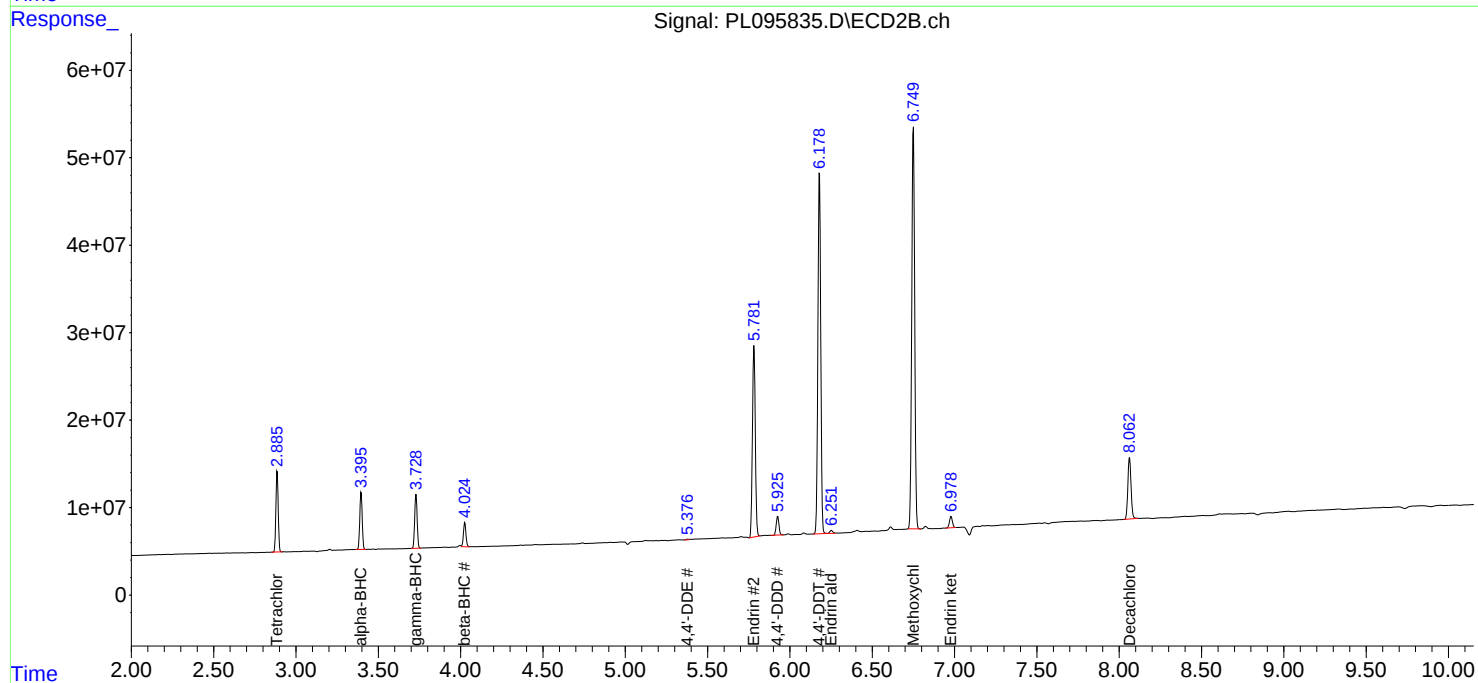
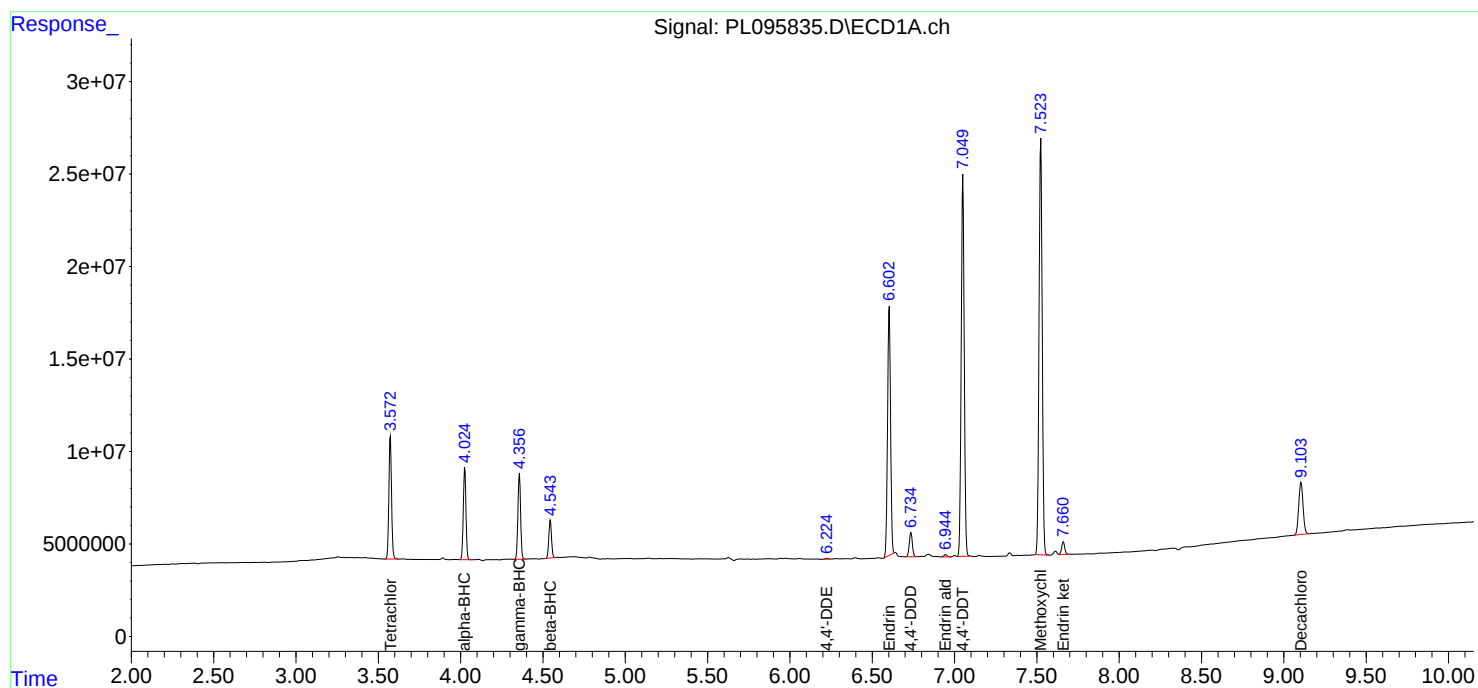
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 09:10
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:50:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095734.D
Acq On : 21 May 2025 11:14
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

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

Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Title : GC Extractables
Last Update : Thu May 22 06:29:30 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.573	5.972	100.00%
5.972	6.101	100.00%
6.101	6.224	100.00%
6.224	6.374	100.00%
6.374	7.178	100.00%
7.178	7.522	100.00%
7.522	7.659	100.00%
7.659	9.103	100.00%

Signal #2

2.886	5.123	100.00%
5.123	5.243	100.00%
5.243	5.374	100.00%
5.374	5.508	100.00%
5.508	6.475	100.00%
6.475	6.751	100.00%
6.751	6.980	100.00%
6.980	8.064	100.00%

PL052125.M Thu May 22 06:45:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095734.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 11:14
 Operator : AR\AJ
 Sample : RESCHK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 RESCHK

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/22/2025
 Supervised By : mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:32:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.886	60022861	73415307	19.023	18.757
28) SA Decachlor...	9.103	8.064	45572921	81946227	19.341	18.733
Target Compounds						
9) A Endosulfan I	6.101	5.241	31518593	40595374	8.600	8.520m
10) B gamma-Chl...	5.972	5.123	35297875	47615649	9.069	9.065
12) B 4,4'-DDE	6.224	5.374	68142524	100.3E6	18.578	18.705
13) MA Dieldrin	6.374	5.508	70647803	96307968	18.306	18.171
19) B Endosulfa...	7.178	6.475	56140155	83285792	18.795	18.530
20) A Methoxychlor	7.522	6.751	116.9E6	235.1E6	91.656	89.874
21) B Endrin ke...	7.658	6.980	58357832	95098278	18.427m	18.380

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095734.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 11:14
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

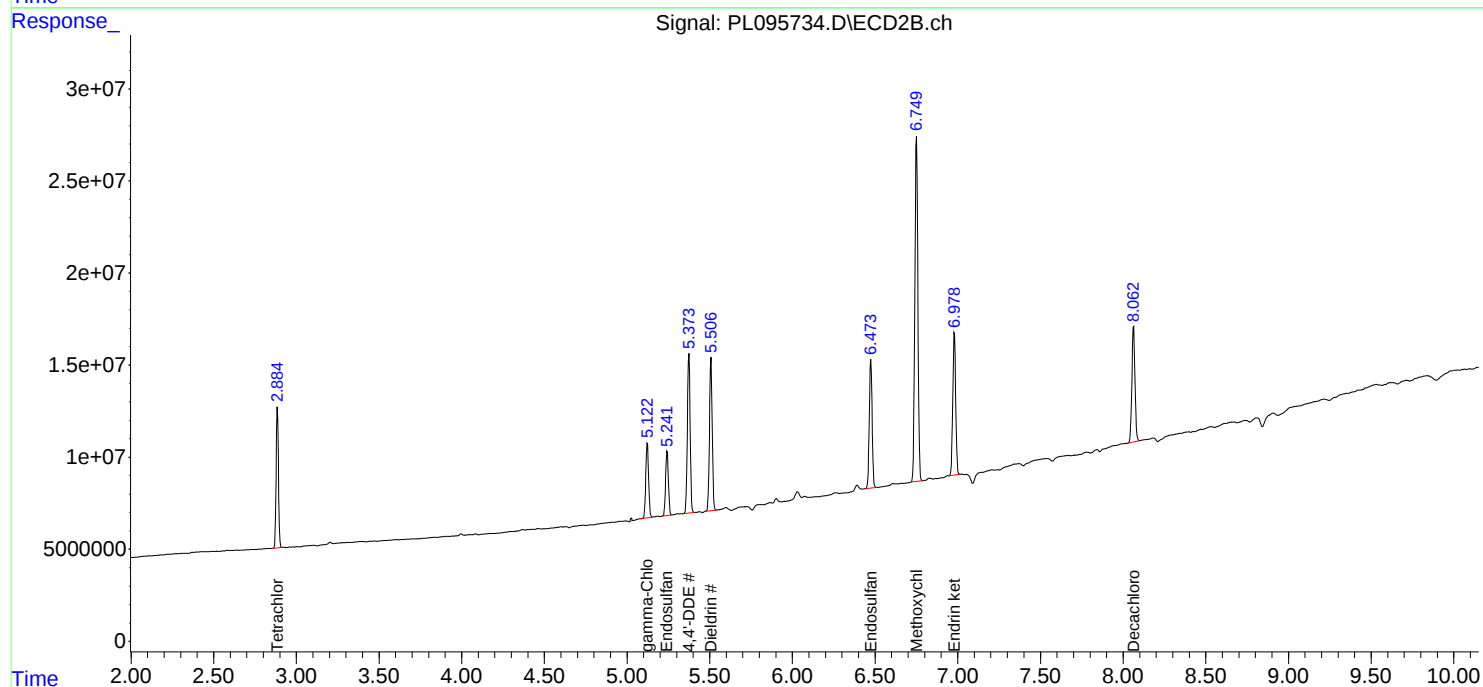
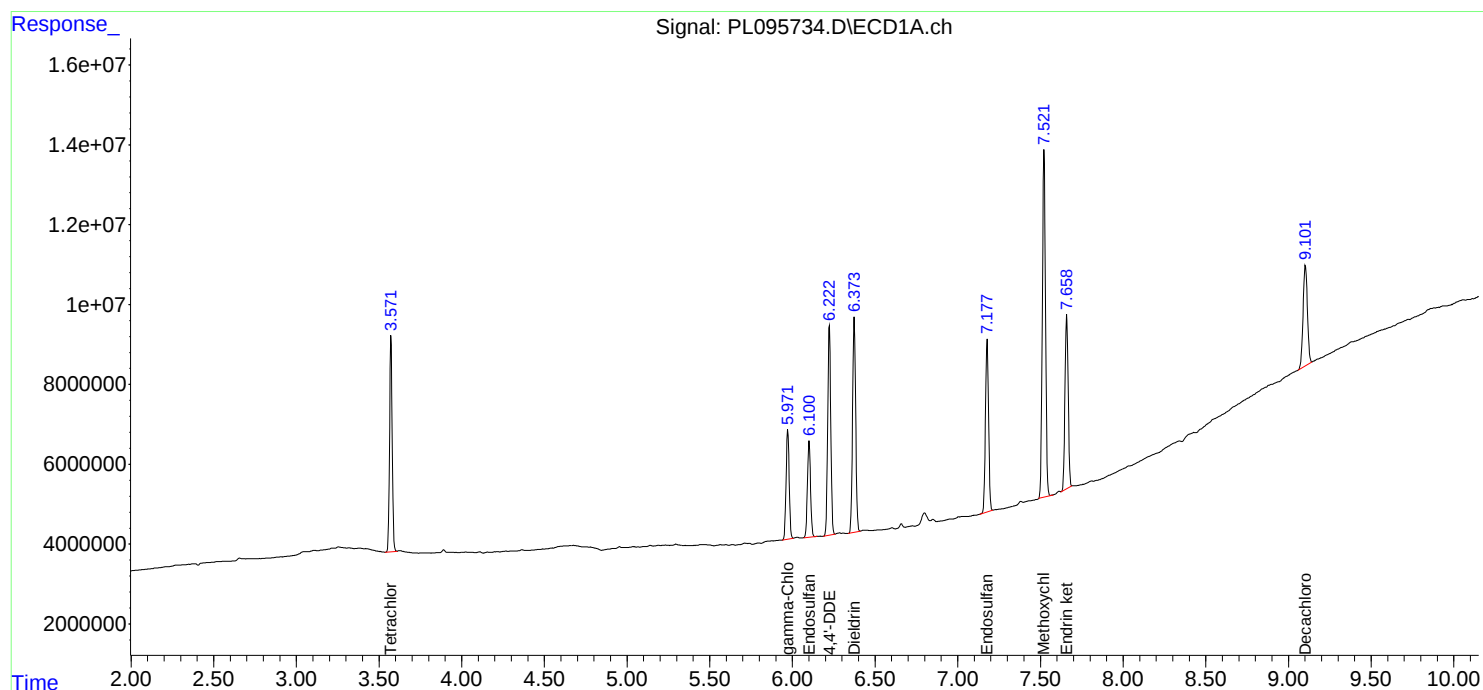
Instrument :
ECD_L
ClientSampleId :
RESCHK

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/22/2025
Supervised By : mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:32:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Analytical Sequence

Client: CDM Smith

SDG No.: Q2150

Project: South River WM Replacement

Instrument ID: ECD_L

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 05/21/2025

05/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
LBLK	LBLK	05/21/2025	10:47	PL095732.D	9.10	3.57
PEM	PEM	05/21/2025	11:01	PL095733.D	9.10	3.57
RESCHK	RESCHK	05/21/2025	11:14	PL095734.D	9.10	3.57
PSTDICC100	PSTDICC100	05/21/2025	11:35	PL095735.D	9.11	3.58
PSTDICC075	PSTDICC075	05/21/2025	11:48	PL095736.D	9.10	3.57
PSTDICC050	PSTDICC050	05/21/2025	12:02	PL095737.D	9.10	3.57
PSTDICC025	PSTDICC025	05/21/2025	12:15	PL095738.D	9.10	3.57
PSTDICC005	PSTDICC005	05/21/2025	12:29	PL095739.D	9.10	3.57
PCHLORICC500	PCHLORICC500	05/21/2025	13:10	PL095742.D	9.10	3.57
PTOXICC500	PTOXICC500	05/21/2025	14:18	PL095747.D	9.10	3.57
PEM	PEM	05/30/2025	09:10	PL095835.D	9.11	3.57
LBLK	LBLK	05/30/2025	11:17	PL095838.D	9.11	3.58
PSTDCCC050	PSTDCCC050	05/30/2025	12:40	PL095839.D	9.11	3.58
PB168209BL	PB168209BL	05/30/2025	12:57	PL095840.D	9.11	3.58
TP-44	Q2150-01	05/30/2025	13:24	PL095842.D	9.11	3.57
TP-42	Q2150-02	05/30/2025	13:38	PL095843.D	9.11	3.57
TP-39	Q2150-03	05/30/2025	13:51	PL095844.D	9.11	3.57
TP-48	Q2150-04	05/30/2025	14:05	PL095845.D	9.11	3.57
TP-47	Q2150-05	05/30/2025	14:18	PL095846.D	9.11	3.57
TP-50	Q2150-06	05/30/2025	14:32	PL095847.D	9.11	3.57
TP-51	Q2150-07	05/30/2025	14:46	PL095848.D	9.10	3.57
TP-51MS	Q2150-07MS	05/30/2025	14:59	PL095849.D	9.10	3.57
TP-51MSD	Q2150-07MSD	05/30/2025	15:13	PL095850.D	9.11	3.57
TP-52	Q2150-08	05/30/2025	15:26	PL095851.D	9.11	3.57
TP-54	Q2150-09	05/30/2025	15:40	PL095852.D	9.11	3.57
TP-53	Q2150-10	05/30/2025	15:54	PL095853.D	9.11	3.57
PB168209BS	PB168209BS	05/30/2025	16:07	PL095854.D	9.11	3.57
LBLK	LBLK	05/30/2025	18:19	PL095858.D	9.11	3.58
PSTDCCC050	PSTDCCC050	05/30/2025	18:33	PL095859.D	9.10	3.57

Analytical Sequence

Client: CDM Smith	SDG No.: Q2150
Project: South River WM Replacement	Instrument ID: ECD_L
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 05/21/2025 05/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	05/21/2025	10:47	PL095732.D	8.06	2.89
PEM	PEM	05/21/2025	11:01	PL095733.D	8.06	2.89
RESCHK	RESCHK	05/21/2025	11:14	PL095734.D	8.06	2.89
PSTDICC100	PSTDICC100	05/21/2025	11:35	PL095735.D	8.06	2.88
PSTDICC075	PSTDICC075	05/21/2025	11:48	PL095736.D	8.06	2.89
PSTDICC050	PSTDICC050	05/21/2025	12:02	PL095737.D	8.06	2.89
PSTDICC025	PSTDICC025	05/21/2025	12:15	PL095738.D	8.06	2.89
PSTDICC005	PSTDICC005	05/21/2025	12:29	PL095739.D	8.06	2.89
PCHLORICC500	PCHLORICC500	05/21/2025	13:10	PL095742.D	8.06	2.89
PTOXICC500	PTOXICC500	05/21/2025	14:18	PL095747.D	8.06	2.89
PEM	PEM	05/30/2025	09:10	PL095835.D	8.06	2.89
IBLK	IBLK	05/30/2025	11:17	PL095838.D	8.06	2.88
PSTDCCC050	PSTDCCC050	05/30/2025	12:40	PL095839.D	8.06	2.88
PB168209BL	PB168209BL	05/30/2025	12:57	PL095840.D	8.06	2.88
TP-44	Q2150-01	05/30/2025	13:24	PL095842.D	8.06	2.89
TP-42	Q2150-02	05/30/2025	13:38	PL095843.D	8.06	2.89
TP-39	Q2150-03	05/30/2025	13:51	PL095844.D	8.06	2.89
TP-48	Q2150-04	05/30/2025	14:05	PL095845.D	8.06	2.89
TP-47	Q2150-05	05/30/2025	14:18	PL095846.D	8.06	2.89
TP-50	Q2150-06	05/30/2025	14:32	PL095847.D	8.06	2.89
TP-51	Q2150-07	05/30/2025	14:46	PL095848.D	8.06	2.89
TP-51MS	Q2150-07MS	05/30/2025	14:59	PL095849.D	8.06	2.89
TP-51MSD	Q2150-07MSD	05/30/2025	15:13	PL095850.D	8.06	2.89
TP-52	Q2150-08	05/30/2025	15:26	PL095851.D	8.06	2.89
TP-54	Q2150-09	05/30/2025	15:40	PL095852.D	8.06	2.89
TP-53	Q2150-10	05/30/2025	15:54	PL095853.D	8.06	2.89
PB168209BS	PB168209BS	05/30/2025	16:07	PL095854.D	8.06	2.89
IBLK	IBLK	05/30/2025	18:19	PL095858.D	8.06	2.88
PSTDCCC050	PSTDCCC050	05/30/2025	18:33	PL095859.D	8.06	2.89

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168209BS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: PB168209BS

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.74	6.69	6.79	17.1	5.1
	2	5.93	5.88	5.98	18.0	
4,4'-DDT	1	7.05	7.00	7.10	13.8	2.9
	2	6.18	6.13	6.23	14.2	
alpha-BHC	1	4.03	3.98	4.08	17.2	4.5
	2	3.40	3.35	3.45	18.0	
Aldrin	1	5.30	5.25	5.35	17.0	5.7
	2	4.37	4.32	4.42	18.0	
beta-BHC	1	4.54	4.49	4.59	16.8	3
	2	4.03	3.98	4.08	16.3	
alpha-Chlordane	1	6.05	6.00	6.10	16.6	4.7
	2	5.19	5.14	5.24	17.4	
4,4'-DDE	1	6.22	6.17	6.27	16.2	5.4
	2	5.37	5.32	5.42	17.1	
Endosulfan II	1	6.82	6.77	6.87	15.6	8.6
	2	6.07	6.02	6.12	17.0	
Endrin aldehyde	1	6.95	6.90	7.00	16.0	6.1
	2	6.25	6.20	6.30	17.0	
Endosulfan sulfate	1	7.18	7.13	7.23	15.6	4.4
	2	6.47	6.42	6.52	16.3	
Methoxychlor	1	7.52	7.47	7.57	13.7	3
	2	6.75	6.70	6.80	13.3	
Endrin ketone	1	7.66	7.61	7.71	16.5	2.4
	2	6.98	6.93	7.03	16.9	
gamma-BHC (Lindane)	1	4.36	4.31	4.41	17.3	3.4
	2	3.73	3.68	3.78	17.9	
Heptachlor	1	4.95	4.90	5.00	16.2	4.2
	2	4.08	4.03	4.13	16.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168209BS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: PB168209BS

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.79	4.74	4.84	16.0	4.3
	2	4.26	4.21	4.31	16.7	
Heptachlor epoxide	1	5.72	5.67	5.77	17.0	4
	2	4.87	4.82	4.92	17.7	
Endosulfan I	1	6.10	6.05	6.15	16.6	1.2
	2	5.24	5.19	5.29	16.8	
gamma-Chlordane	1	5.97	5.92	6.02	16.9	4.6
	2	5.12	5.07	5.17	17.7	
Dieldrin	1	6.38	6.33	6.43	16.6	5.3
	2	5.51	5.46	5.56	17.5	
Endrin	1	6.60	6.55	6.65	14.6	7.3
	2	5.78	5.73	5.83	15.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-44

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: Q2150-01 Date(s) Analyzed: 05/30/2025 05/30/2025

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
gamma-Chlordane	1	5.97	5.92	6.02	0.30	23.3
	2	5.12	5.07	5.17	0.24	
alpha-Chlordane	1	6.06	6.01	6.11	0.76	39.7
	2	5.19	5.14	5.24	0.51	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-50

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2150 **SAS No.:** Q2150 **SDG NO.:** Q2150

Lab Sample ID: Q2150-06 **Date(s) Analyzed:** 05/30/2025 05/30/2025

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
gamma-Chlordane	1	5.97	5.92	6.02	0.80	76.9
	2	5.12	5.07	5.17	0.36	
alpha-Chlordane	1	6.06	6.01	6.11	1.40	51.7
	2	5.18	5.13	5.23	0.83	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-51MS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: Q2150-07MS

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.74	6.69	6.79	18.8	0.5
	2	5.93	5.88	5.98	18.7	
4,4'-DDT	1	7.05	7.00	7.10	15.2	3.9
	2	6.18	6.13	6.23	15.8	
alpha-BHC	1	4.02	3.97	4.07	19.7	3.5
	2	3.40	3.35	3.45	20.4	
Aldrin	1	5.30	5.25	5.35	19.2	4.1
	2	4.37	4.32	4.42	20.0	
beta-BHC	1	4.54	4.49	4.59	18.8	0.5
	2	4.03	3.98	4.08	18.9	
delta-BHC	1	4.79	4.74	4.84	19.3	3.1
	2	4.26	4.21	4.31	19.9	
alpha-Chlordane	1	6.06	6.01	6.11	18.4	5.3
	2	5.19	5.14	5.24	19.4	
4,4'-DDE	1	6.23	6.18	6.28	18.2	3.8
	2	5.37	5.32	5.42	18.9	
Endosulfan II	1	6.82	6.77	6.87	17.1	7.9
	2	6.07	6.02	6.12	18.5	
Endrin aldehyde	1	6.95	6.90	7.00	18.2	3.8
	2	6.25	6.20	6.30	18.9	
Endosulfan sulfate	1	7.18	7.13	7.23	16.9	5.2
	2	6.47	6.42	6.52	17.8	
Methoxychlor	1	7.52	7.47	7.57	15.4	1.3
	2	6.75	6.70	6.80	15.2	
Endrin ketone	1	7.66	7.61	7.71	17.8	3.3
	2	6.98	6.93	7.03	18.4	
gamma-BHC (Lindane)	1	4.36	4.31	4.41	19.6	3.5
	2	3.73	3.68	3.78	20.3	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-51MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2150

SAS No.: Q2150 **SDG NO.:** Q2150

Lab Sample ID: Q2150-07MS

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Heptachlor	1	4.96	4.91	5.01	18.1	5.4
	2	4.08	4.03	4.13	19.1	
Heptachlor epoxide	1	5.72	5.67	5.77	19.1	3.1
	2	4.87	4.82	4.92	19.7	
Endosulfan I	1	6.10	6.05	6.15	18.6	2.7
	2	5.24	5.19	5.29	19.1	
gamma-Chlordane	1	5.97	5.92	6.02	18.9	3.1
	2	5.12	5.07	5.17	19.5	
Dieldrin	1	6.38	6.33	6.43	18.4	3.2
	2	5.51	5.46	5.56	19.0	
Endrin	1	6.60	6.55	6.65	16.9	4.1
	2	5.78	5.73	5.83	17.6	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-51MSD

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150 SDG NO.: Q2150

Lab Sample ID: Q2150-07MSD

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.82	6.77	6.87	17.2	7.8
	2	6.07	6.02	6.12	18.6	
4,4'-DDD	1	6.74	6.69	6.79	18.9	0.5
	2	5.93	5.88	5.98	19.0	
4,4'-DDT	1	7.05	7.00	7.10	15.3	5.7
	2	6.18	6.13	6.23	16.2	
Endrin aldehyde	1	6.95	6.90	7.00	18.2	4.8
	2	6.25	6.20	6.30	19.1	
Endosulfan sulfate	1	7.18	7.13	7.23	17.6	3.4
	2	6.47	6.42	6.52	18.2	
Methoxychlor	1	7.52	7.47	7.57	15.9	3.2
	2	6.75	6.70	6.80	15.4	
Endrin ketone	1	7.66	7.61	7.71	17.9	5.4
	2	6.98	6.93	7.03	18.9	
alpha-BHC	1	4.03	3.98	4.08	19.8	3.5
	2	3.40	3.35	3.45	20.5	
gamma-BHC (Lindane)	1	4.36	4.31	4.41	19.7	3.5
	2	3.73	3.68	3.78	20.4	
Heptachlor	1	4.96	4.91	5.01	18.2	4.3
	2	4.08	4.03	4.13	19.0	
Aldrin	1	5.30	5.25	5.35	19.3	4.6
	2	4.37	4.32	4.42	20.2	
beta-BHC	1	4.55	4.50	4.60	18.8	0
	2	4.03	3.98	4.08	18.8	
delta-BHC	1	4.79	4.74	4.84	19.4	3.5
	2	4.26	4.21	4.31	20.1	
Heptachlor epoxide	1	5.72	5.67	5.77	19.2	3.6
	2	4.87	4.82	4.92	19.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-51MSD

Contract: CAMP02

Lab Code: CHEM Case No.: Q2150

SAS No.: Q2150

SDG NO.: Q2150

Lab Sample ID: Q2150-07MSD

Date(s) Analyzed: 05/30/2025 05/30/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.10	6.05	6.15	18.7	3.7
	2	5.24	5.19	5.29	19.4	
gamma-Chlordane	1	5.97	5.92	6.02	19.0	3.1
	2	5.12	5.07	5.17	19.6	
alpha-Chlordane	1	6.06	6.01	6.11	18.5	5.8
	2	5.19	5.14	5.24	19.6	
4,4'-DDE	1	6.23	6.18	6.28	18.3	4.3
	2	5.37	5.32	5.42	19.1	
Dieldrin	1	6.38	6.33	6.43	18.5	3.7
	2	5.51	5.46	5.56	19.2	
Endrin	1	6.60	6.55	6.65	17.0	5.2
	2	5.78	5.73	5.83	17.9	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168209BL	SDG No.:	Q2150
Lab Sample ID:	PB168209BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095840.D	1	05/30/25 08:50	05/30/25 12:57	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.1		20 - 144	90%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		19 - 148	103%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168209BL		SDG No.:	Q2150	
Lab Sample ID:	PB168209BL		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095840.D	1	05/30/25 08:50	05/30/25 12:57	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 12:57
Operator : AR\AJ
Sample : PB168209BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB168209BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:51:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.576	2.883	64933194	80350436	20.579	20.529
28)	SA Decachlor...	9.110	8.063	42520177	74723483	18.045	17.082

Target Compounds

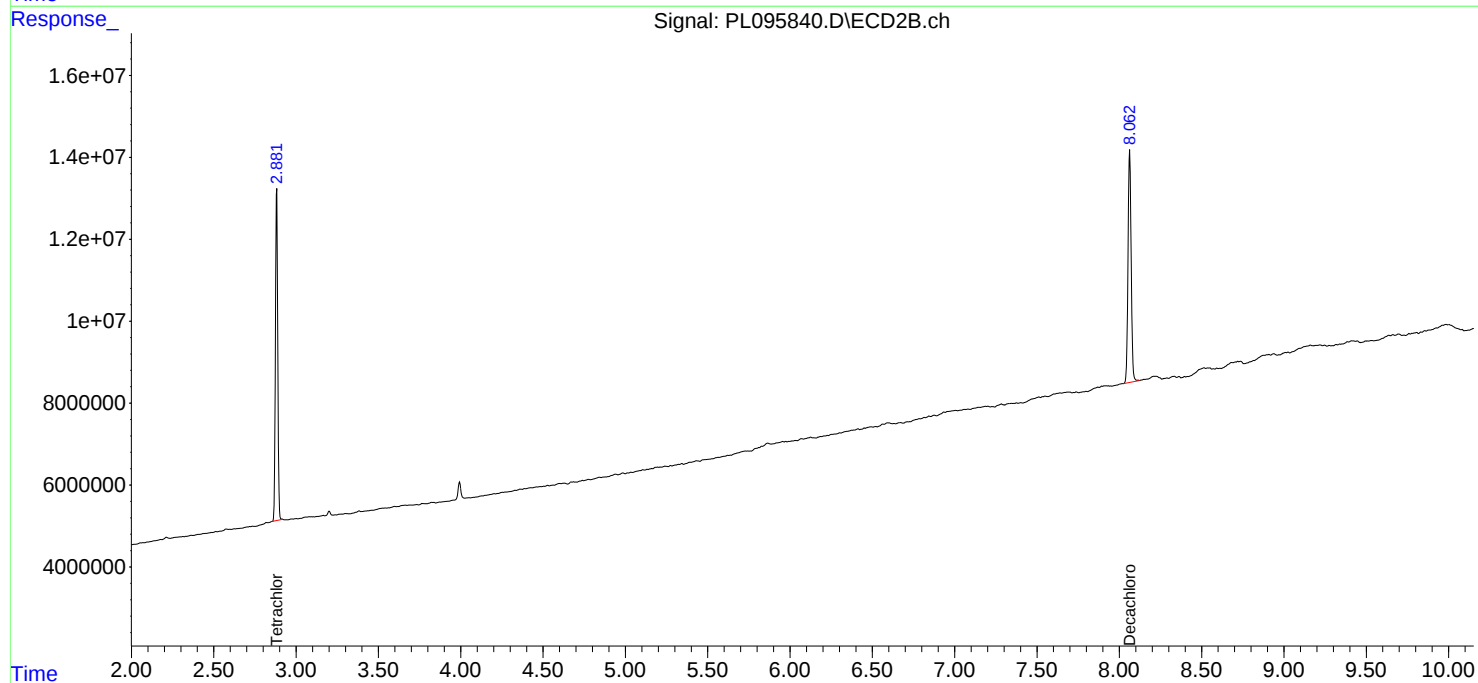
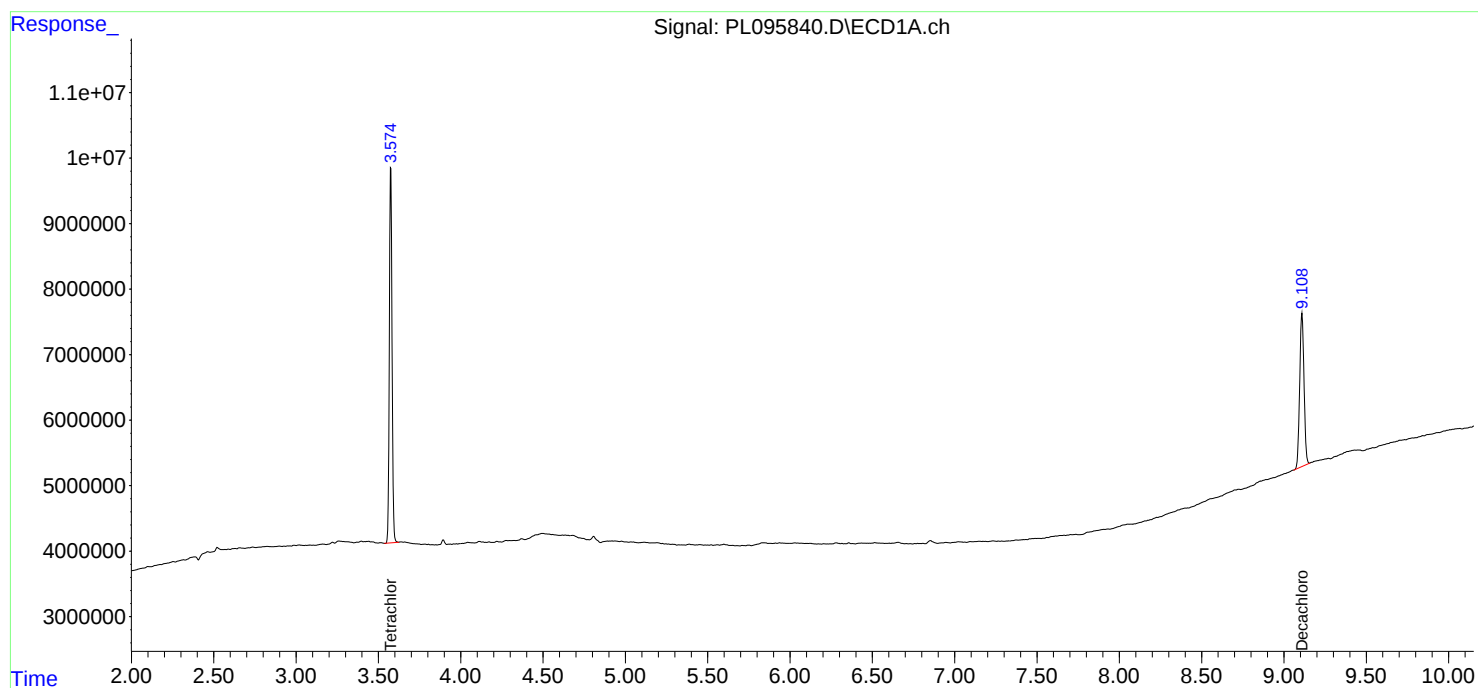
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 12:57
Operator : AR\AJ
Sample : PB168209BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

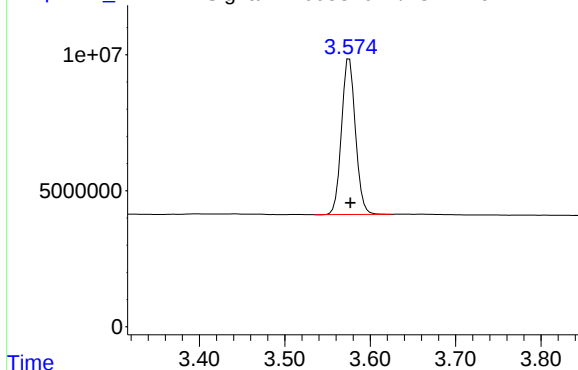
Instrument :
ECD_L
ClientSampleId :
PB168209BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:51:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Response_ Signal: PL095840.D\ECD1A.ch

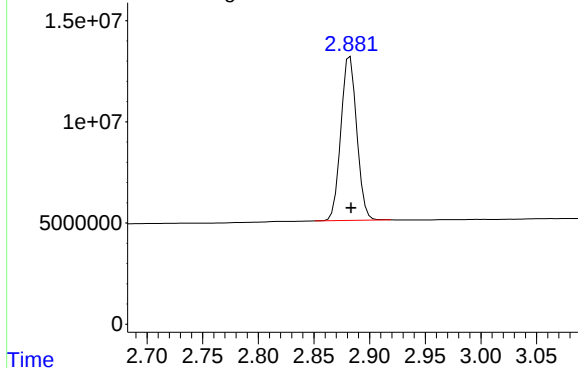


#1 Tetrachloro-m-xylene

R.T.: 3.576 min
Delta R.T.: -0.001 min
Response: 64933194
Conc: 20.58 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB168209BL

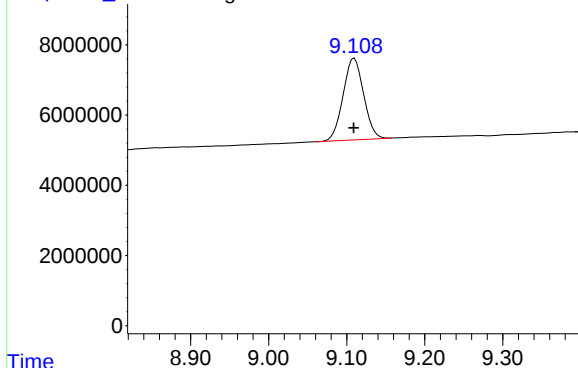
Time Response_ Signal: PL095840.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 80350436
Conc: 20.53 ng/ml

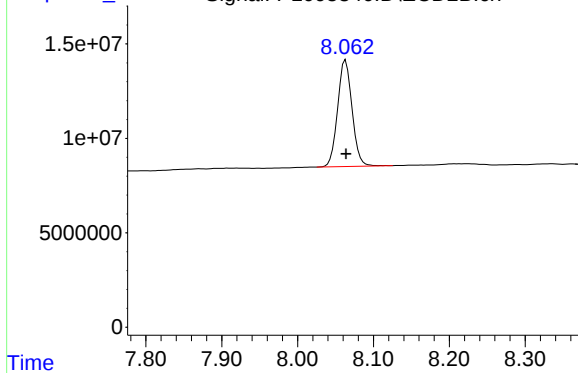
Time Response_ Signal: PL095840.D\ECD1A.ch



#28 Decachlorobiphenyl

R.T.: 9.110 min
Delta R.T.: 0.000 min
Response: 42520177
Conc: 18.05 ng/ml

Time Response_ Signal: PL095840.D\ECD2B.ch



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 74723483
Conc: 17.08 ng/ml

Report of Analysis

Client:	CDM Smith			Date Collected:	05/21/25	
Project:	South River WM Replacement			Date Received:	05/21/25	
Client Sample ID:	PIBLK-PL095732.D			SDG No.:	Q2150	
Lab Sample ID:	I.BLK-PL095732.D			Matrix:	WATER	
Analytical Method:	8081B			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	Pesticide-TCL	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				
Prep Method :	3510C					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095732.D	1		05/21/25	PL052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.2		43 - 140	91%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.4		77 - 126	82%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	05/21/25	
Project:	South River WM Replacement		Date Received:	05/21/25	
Client Sample ID:	PIBLK-PL095732.D		SDG No.:	Q2150	
Lab Sample ID:	I.BLK-PL095732.D		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095732.D	1		05/21/25	PL052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
 Data File : PL095732.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 10:47
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:31:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.573	2.886	51602531	62467417	16.354	15.960
28) SA Decachlor...	9.102	8.063	42816238	76669642	18.171	17.527

Target Compounds

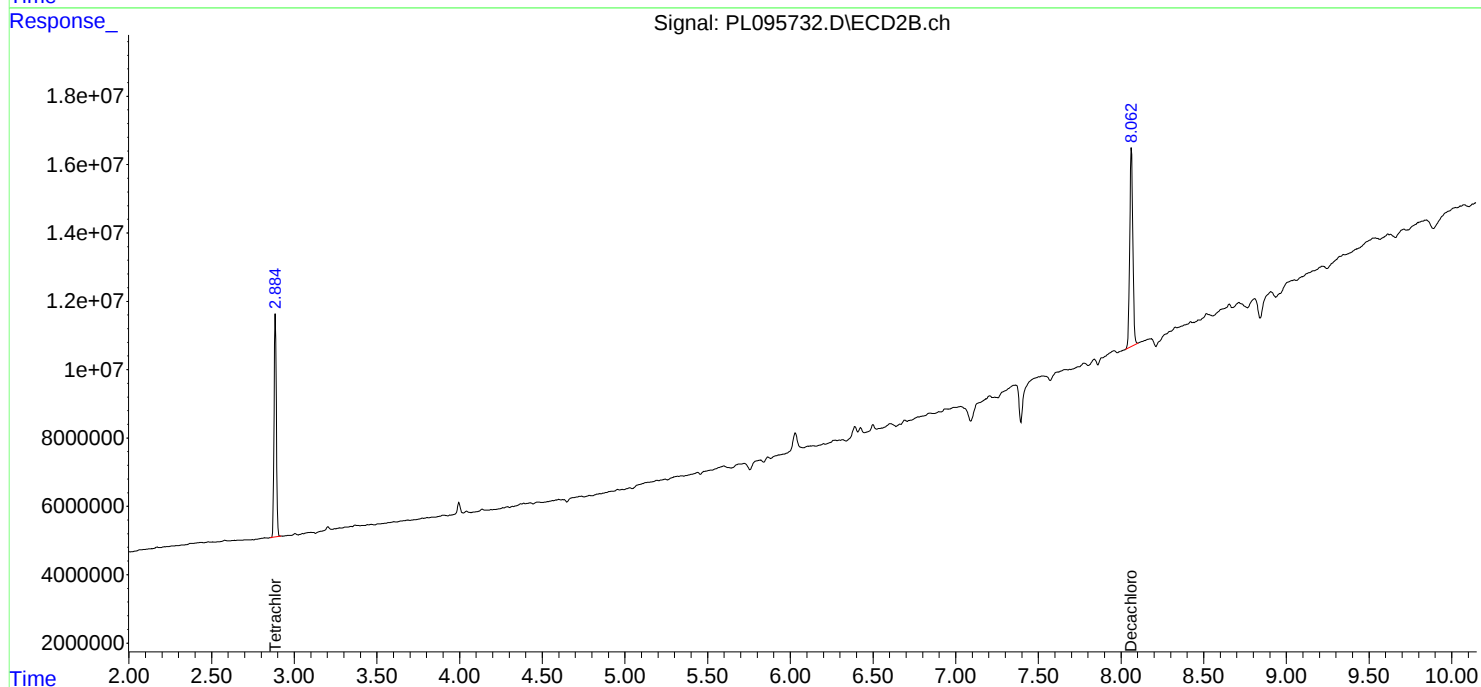
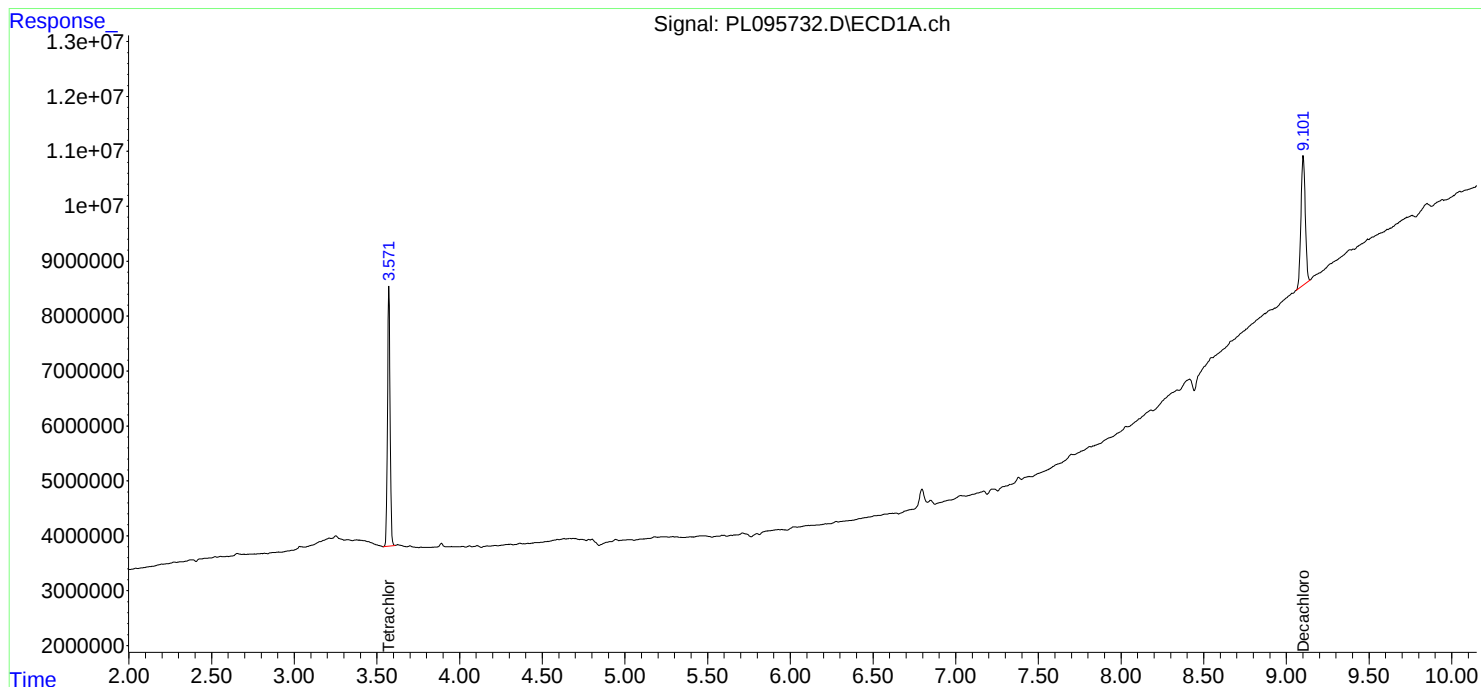
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

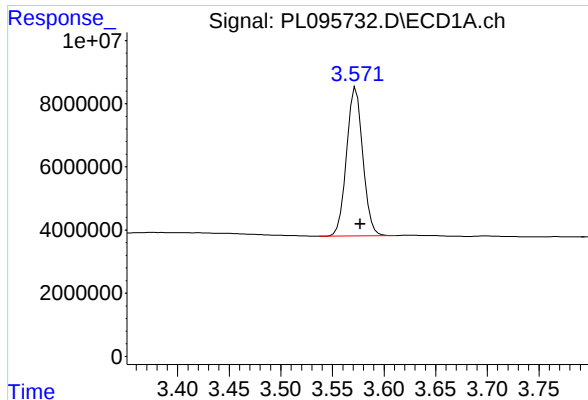
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL052125\
Data File : PL095732.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 10:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:31:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

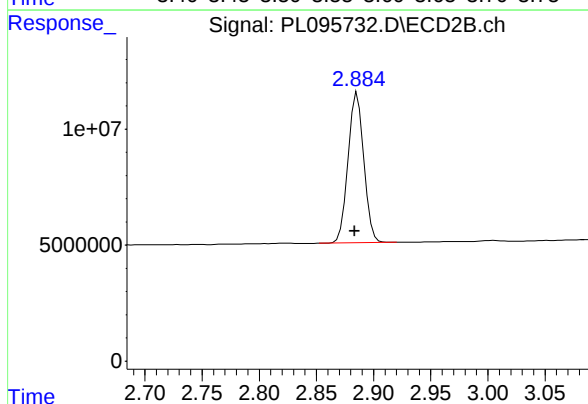




#1 Tetrachloro-m-xylene

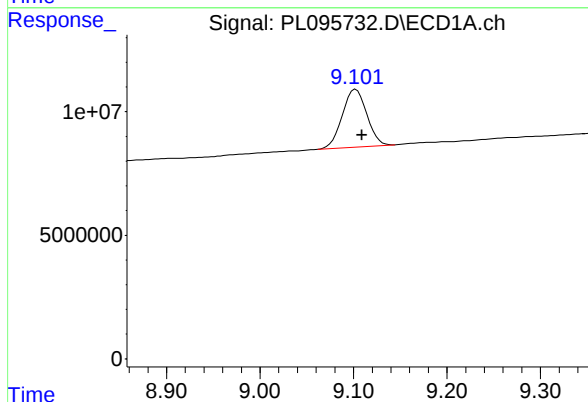
R.T.: 3.573 min
Delta R.T.: -0.004 min
Response: 51602531
Conc: 16.35 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



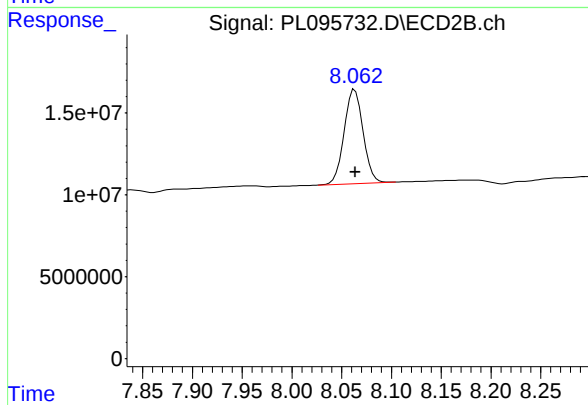
#1 Tetrachloro-m-xylene

R.T.: 2.886 min
Delta R.T.: 0.002 min
Response: 62467417
Conc: 15.96 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.102 min
Delta R.T.: -0.006 min
Response: 42816238
Conc: 18.17 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 76669642
Conc: 17.53 ng/ml

Report of Analysis

Client:	CDM Smith		Date Collected:	05/30/25	
Project:	South River WM Replacement		Date Received:	05/30/25	
Client Sample ID:	PIBLK-PL095838.D		SDG No.:	Q2150	
Lab Sample ID:	I.BLK-PL095838.D		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095838.D	1		05/30/25	pl053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.9		43 - 140	89%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		77 - 126	114%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	PIBLK-PL095838.D	SDG No.:	Q2150
Lab Sample ID:	I.BLK-PL095838.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095838.D	1		05/30/25	p1053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 11:17
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:51:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.578	2.881	71750021	88224053	22.740	22.541
28)	SA Decachlor...	9.112	8.063	42123515	74441417	17.877	17.017

Target Compounds

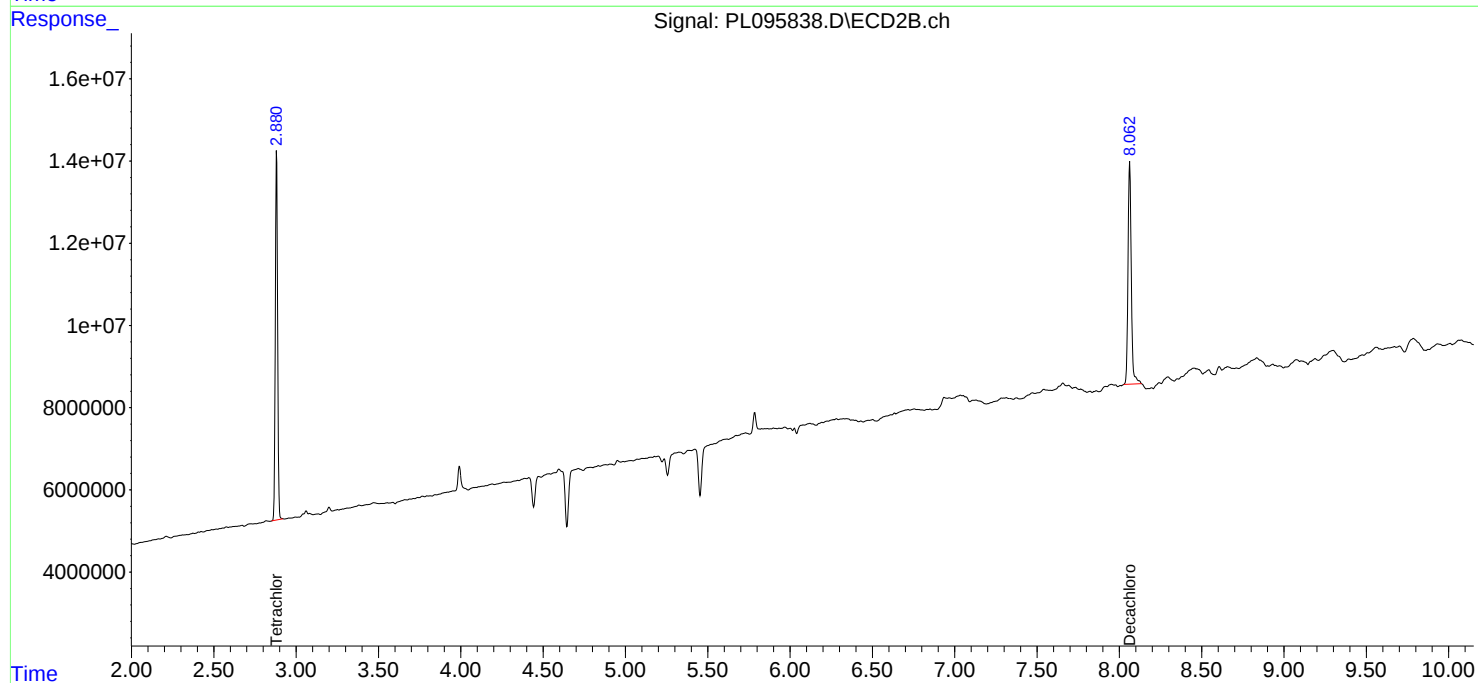
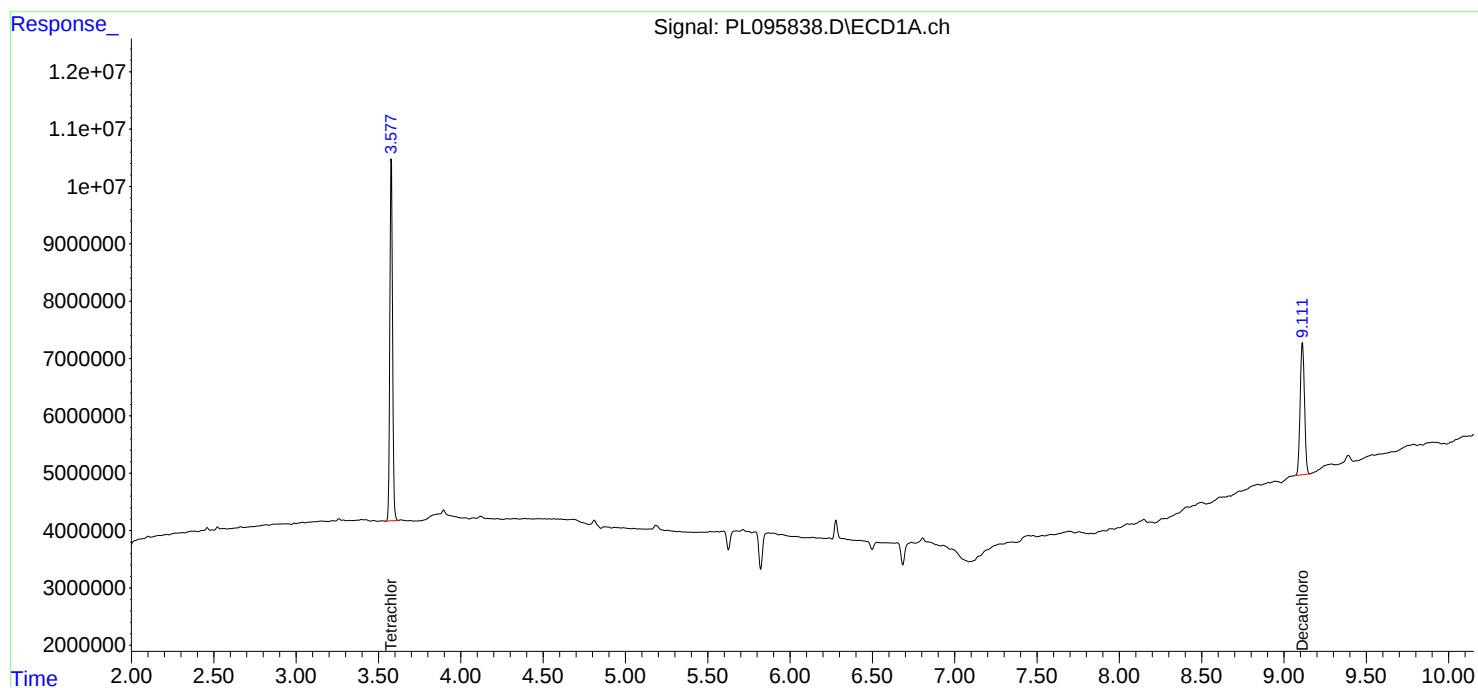
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 11:17
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

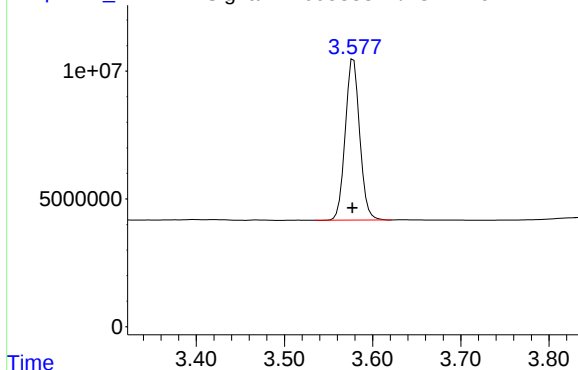
Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:51:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Response_ Signal: PL095838.D\ECD1A.ch

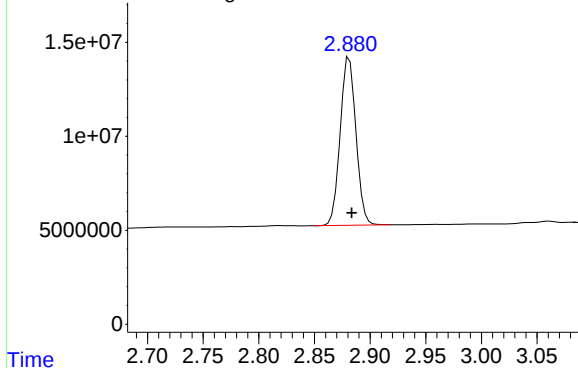


#1 Tetrachloro-m-xylene

R.T.: 3.578 min
Delta R.T.: 0.001 min
Response: 71750021
Conc: 22.74 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK

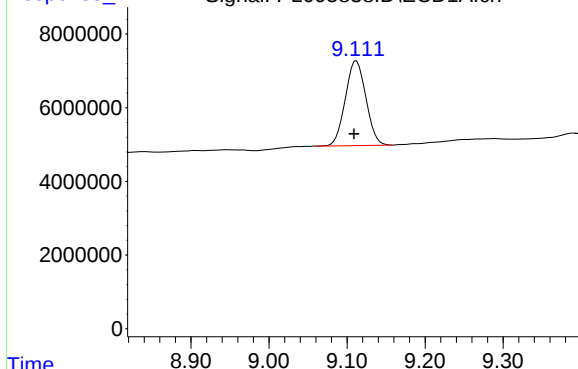
Response_ Signal: PL095838.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 88224053
Conc: 22.54 ng/ml

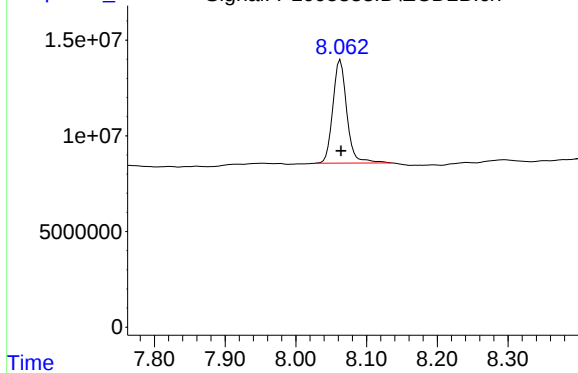
Response_ Signal: PL095838.D\ECD1A.ch



#28 Decachlorobiphenyl

R.T.: 9.112 min
Delta R.T.: 0.003 min
Response: 42123515
Conc: 17.88 ng/ml

Response_ Signal: PL095838.D\ECD2B.ch



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 74441417
Conc: 17.02 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	PIBLK-PL095858.D	SDG No.:	Q2150
Lab Sample ID:	I.BLK-PL095858.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095858.D	1		05/30/25	pl053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.7		43 - 140	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		77 - 126	113%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/30/25
Project:	South River WM Replacement	Date Received:	05/30/25
Client Sample ID:	PIBLK-PL095858.D	SDG No.:	Q2150
Lab Sample ID:	I.BLK-PL095858.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095858.D	1		05/30/25	p1053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095858.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 18:19
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:55:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.576	2.883	71533379	86878758	22.671	22.197
28)	SA Decachlor...	9.108	8.063	55827837	88271079	23.693	20.179

Target Compounds

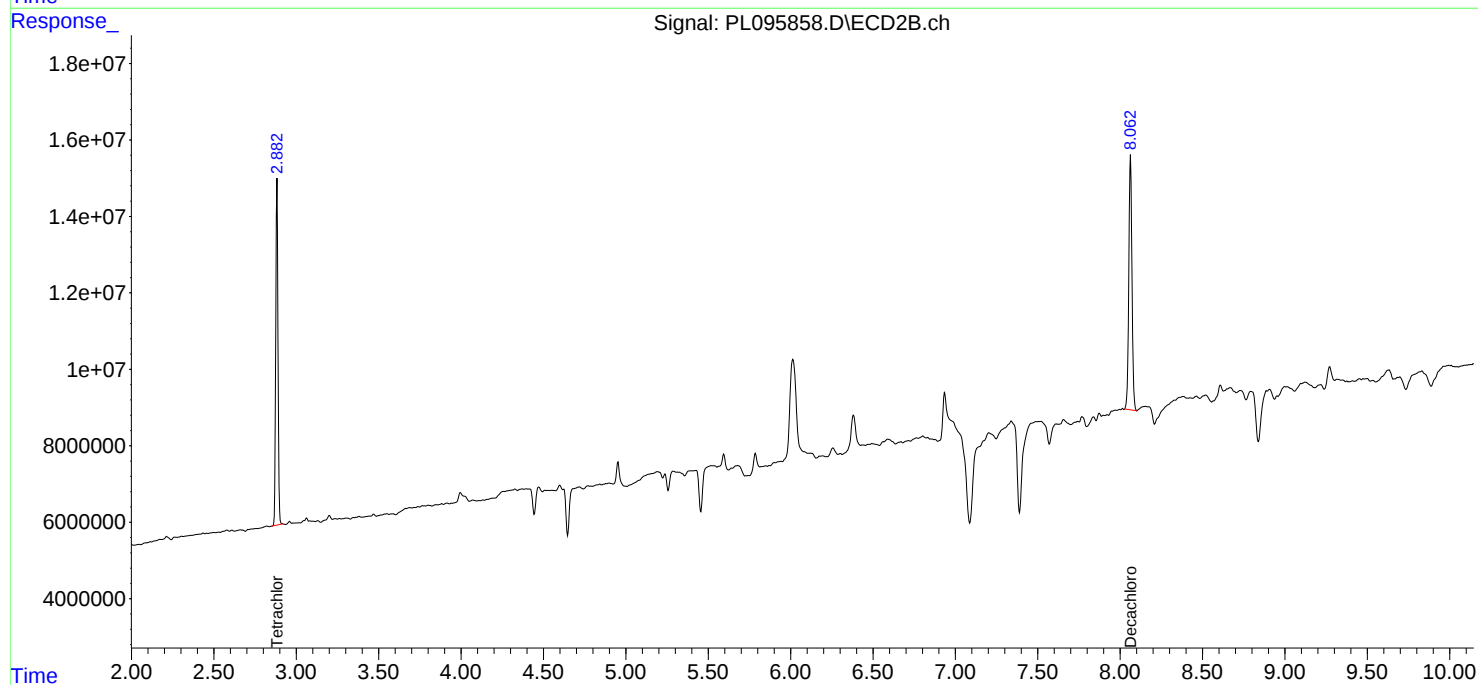
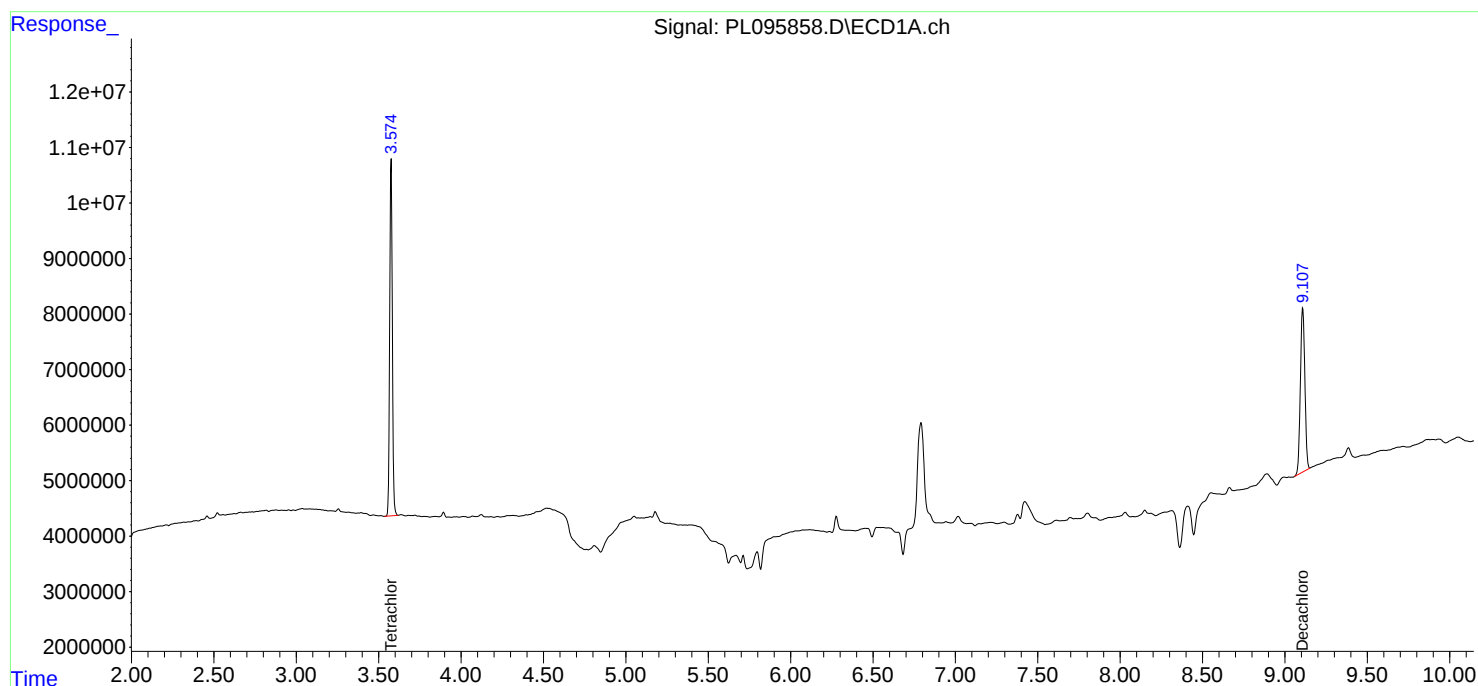
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

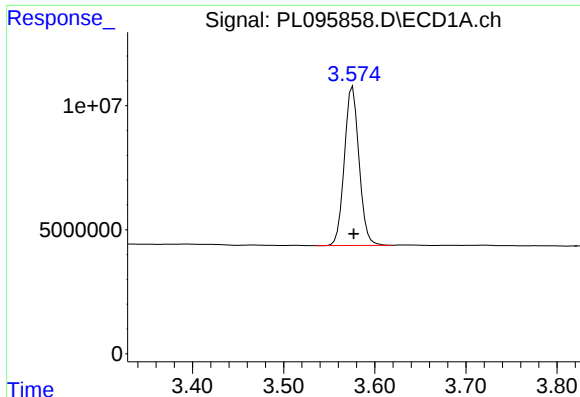
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095858.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 18:19
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:55:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

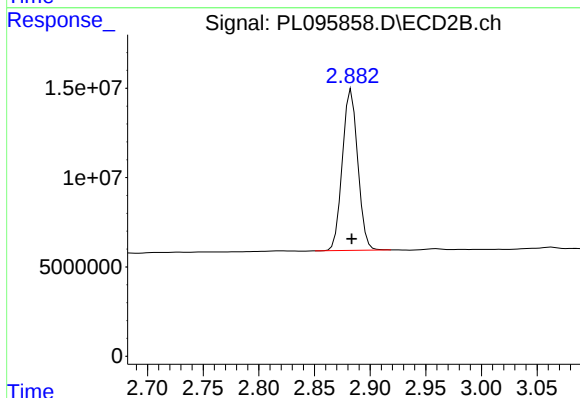




#1 Tetrachloro-m-xylene

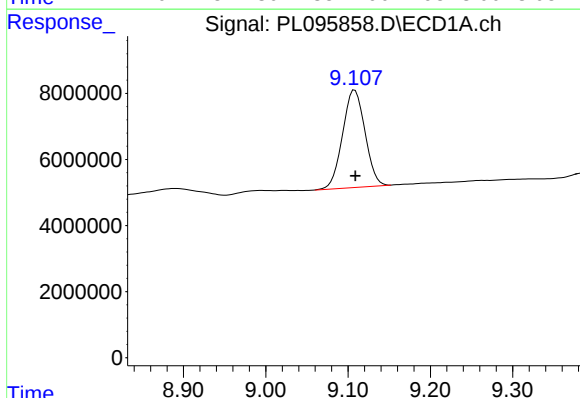
R.T.: 3.576 min
Delta R.T.: -0.001 min
Response: 71533379
Conc: 22.67 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



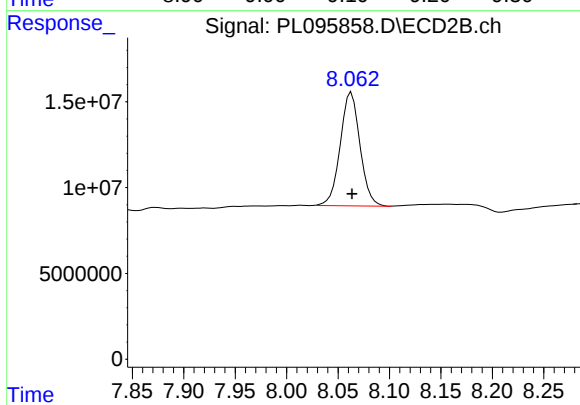
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 86878758
Conc: 22.20 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.108 min
Delta R.T.: 0.000 min
Response: 55827837
Conc: 23.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: 0.000 min
Response: 88271079
Conc: 20.18 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168209BS	SDG No.:	Q2150
Lab Sample ID:	PB168209BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095854.D	1	05/30/25 08:50	05/30/25 16:07	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.0		0.13	1.70	ug/kg
319-85-7	beta-BHC	16.8		0.18	1.70	ug/kg
319-86-8	delta-BHC	16.7		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	17.9		0.14	1.70	ug/kg
76-44-8	Heptachlor	16.9		0.12	1.70	ug/kg
309-00-2	Aldrin	18.0		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.7		0.19	1.70	ug/kg
959-98-8	Endosulfan I	16.8		0.14	1.70	ug/kg
60-57-1	Dieldrin	17.5		0.14	1.70	ug/kg
72-55-9	4,4-DDE	17.1		0.14	1.70	ug/kg
72-20-8	Endrin	15.7		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	17.0		0.29	1.70	ug/kg
72-54-8	4,4-DDD	18.0		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.3		0.13	1.70	ug/kg
50-29-3	4,4-DDT	14.2		0.14	1.70	ug/kg
72-43-5	Methoxychlor	13.7		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	16.9		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	17.0		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	17.4		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	17.7		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		20 - 144	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		19 - 148	110%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168209BS		SDG No.:	Q2150	
Lab Sample ID:	PB168209BS		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095854.D	1	05/30/25 08:50	05/30/25 16:07	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095854.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 16:07
 Operator : AR\AJ
 Sample : PB168209BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PB168209BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:54:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.886	68956154	85970625	21.854	21.965
28)	SA Decachlor...	9.105	8.064	45513665	84079413	19.315	19.221
Target Compounds							
2)	A alpha-BHC	4.025	3.396	250.9E6	317.2E6	51.754	54.161
3)	MA gamma-BHC...	4.356	3.729	231.8E6	300.4E6	51.845	53.627
4)	MA Heptachlor	4.954	4.082	183.9E6	284.5E6	48.576	50.717
5)	MB Aldrin	5.297	4.367	218.4E6	287.2E6	51.056	54.118
6)	B beta-BHC	4.544	4.025	99486083	121.4E6	50.466	49.002
7)	B delta-BHC	4.792	4.260	213.2E6	283.6E6	48.087	50.213
8)	B Heptachlo...	5.718	4.870	194.7E6	262.5E6	51.007	53.160
9)	A Endosulfan I	6.102	5.242	183.1E6	240.8E6	49.952	50.536
10)	B gamma-Chl...	5.972	5.122	197.7E6	278.6E6	50.802m	53.031
11)	B alpha-Chl...	6.054	5.186	196.8E6	272.3E6	49.852	52.340
12)	B 4,4'-DDE	6.224	5.374	178.7E6	275.1E6	48.712	51.313
13)	MA Dieldrin	6.375	5.507	192.5E6	278.5E6	49.878	52.555
14)	MA Endrin	6.603	5.782	141.4E6	229.9E6	43.836	47.141
15)	B Endosulfa...	6.816	6.073	161.5E6	242.5E6	46.858	51.025
16)	A 4,4'-DDD	6.735	5.925	150.3E6	236.8E6	51.299	54.008
17)	MA 4,4'-DDT	7.051	6.179	112.3E6	203.6E6	41.512	42.563
18)	B Endrin al...	6.945	6.250	115.9E6	176.6E6	47.945	51.121
19)	B Endosulfa...	7.179	6.474	139.7E6	220.2E6	46.754	48.999
20)	A Methoxychlor	7.523	6.749	52401262	104.2E6	41.089	39.827
21)	B Endrin ke...	7.661	6.980	157.1E6	261.8E6	49.610	50.609
22)	Mirex	8.142	7.173	108.1E6	186.6E6	46.706	45.958

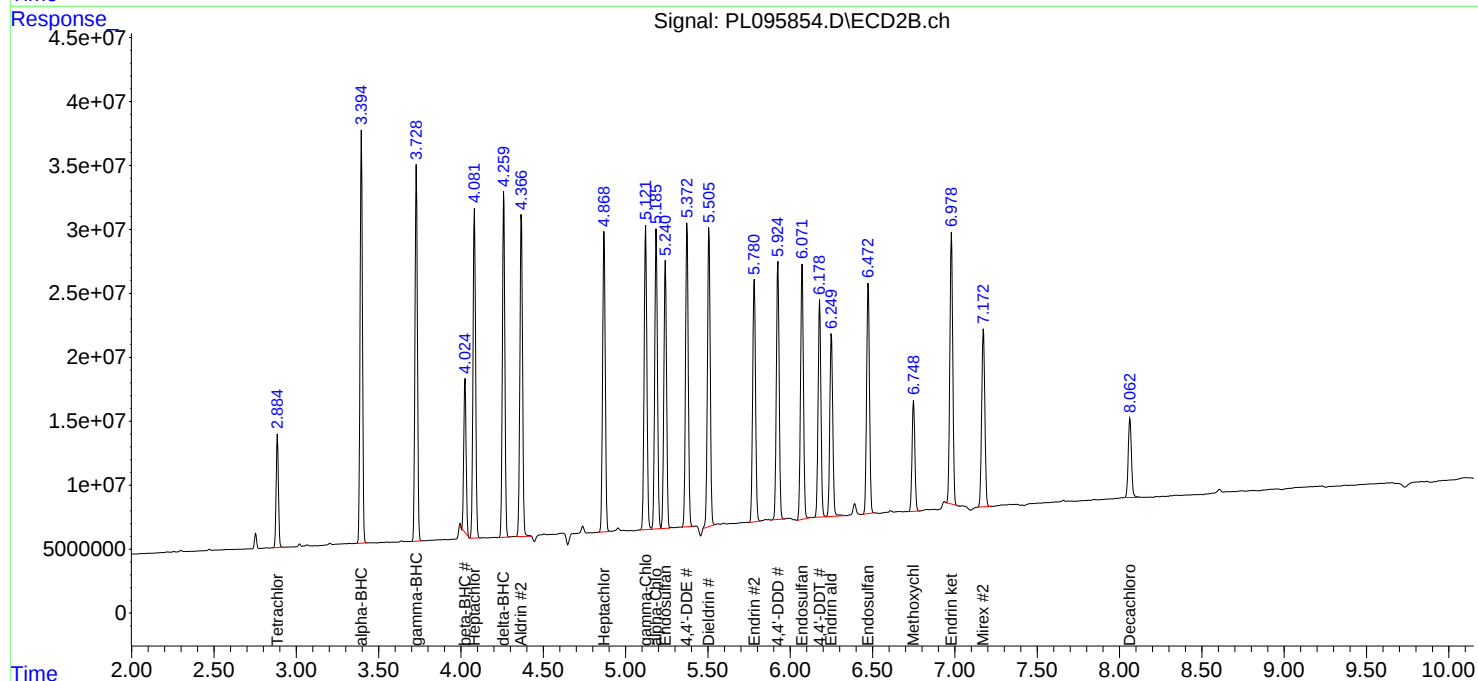
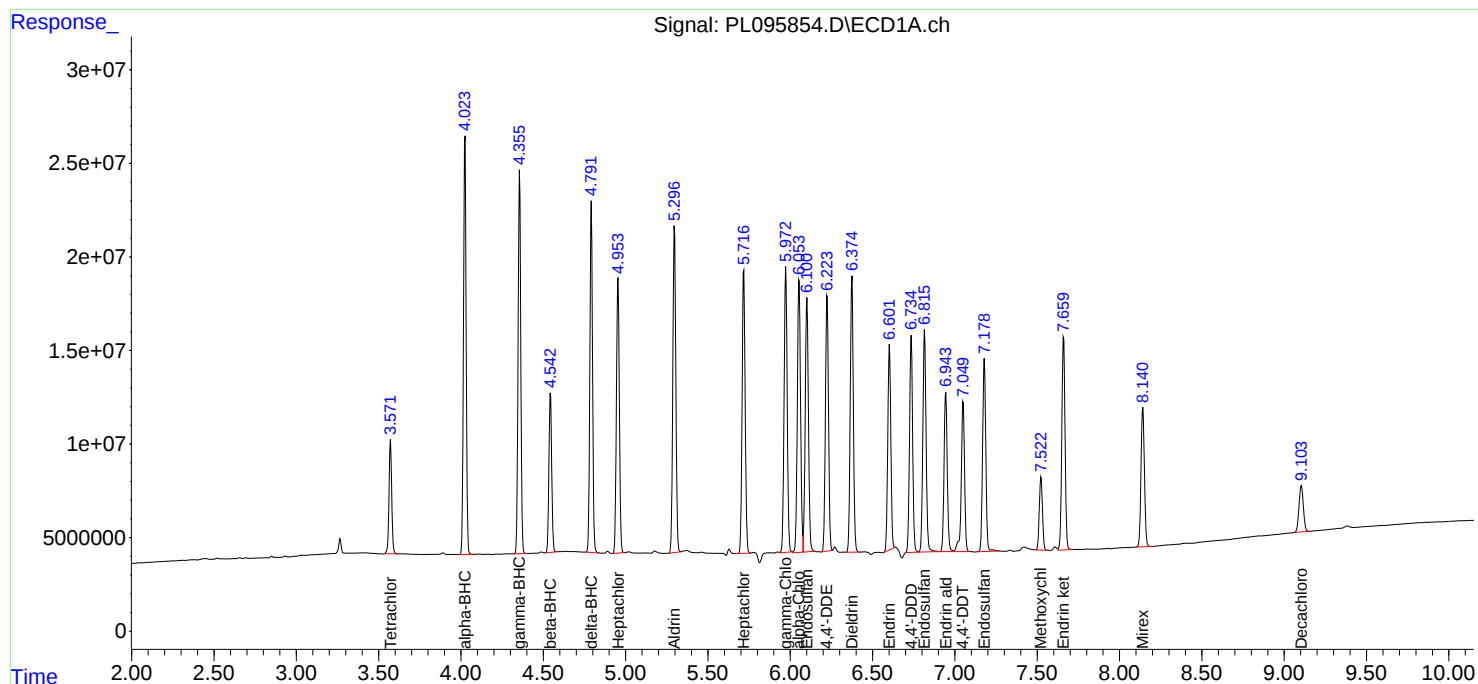
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095854.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 16:07
Operator : AR\AJ
Sample : PB168209BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB168209BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:54:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51MS	SDG No.:	Q2150
Lab Sample ID:	Q2150-07MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095849.D	1	05/30/25 08:50	05/30/25 14:59	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	20.4		0.15	2.00	ug/kg
319-85-7	beta-BHC	18.9		0.21	2.00	ug/kg
319-86-8	delta-BHC	19.9		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	20.3		0.17	2.00	ug/kg
76-44-8	Heptachlor	19.1		0.14	2.00	ug/kg
309-00-2	Aldrin	20.0		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	19.7		0.23	2.00	ug/kg
959-98-8	Endosulfan I	19.1		0.17	2.00	ug/kg
60-57-1	Dieldrin	19.0		0.17	2.00	ug/kg
72-55-9	4,4-DDE	18.9		0.17	2.00	ug/kg
72-20-8	Endrin	17.6		0.17	2.00	ug/kg
33213-65-9	Endosulfan II	18.5		0.35	2.00	ug/kg
72-54-8	4,4-DDD	18.8		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	17.8		0.15	2.00	ug/kg
50-29-3	4,4-DDT	15.8		0.17	2.00	ug/kg
72-43-5	Methoxychlor	15.4		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	18.4		0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	18.9		0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	19.4		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	19.5		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.47		20 - 144	42%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.6		19 - 148	73%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51MS	SDG No.:	Q2150
Lab Sample ID:	Q2150-07MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095849.D	1	05/30/25 08:50	05/30/25 14:59	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095849.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 14:59
 Operator : AR\AJ
 Sample : Q2150-07MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-51MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:53:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.571	2.886	46026539	56802519	14.587m	14.513
2)	SA Decachlor...	9.104	8.063	19956949	35065244	8.469	8.016
Target Compounds							
2)	A alpha-BHC	4.024	3.396	240.3E6	300.1E6	49.576	51.241
3)	MA gamma-BHC...	4.356	3.729	220.6E6	285.8E6	49.328	51.023
4)	MA Heptachlor	4.955	4.082	172.3E6	269.3E6	45.525	48.005
5)	MB Aldrin	5.298	4.367	206.9E6	267.5E6	48.364	50.405
6)	B beta-BHC	4.544	4.025	93065263	117.8E6	47.209	47.528
7)	B delta-BHC	4.792	4.260	215.9E6	283.1E6	48.699	50.133
8)	B Heptachlo...	5.719	4.869	183.3E6	245.4E6	48.032	49.697
9)	A Endosulfan I	6.102	5.242	171.4E6	229.7E6	46.766	48.197
10)	B gamma-Chl...	5.974	5.121	185.6E6	257.2E6	47.683	48.967
11)	B alpha-Chl...	6.055	5.186	182.8E6	254.6E6	46.307	48.937
12)	B 4,4'-DDE	6.225	5.372	168.0E6	254.8E6	45.802	47.516
13)	MA Dieldrin	6.376	5.507	179.2E6	253.8E6	46.432	47.882
14)	MA Endrin	6.603	5.781	137.6E6	216.3E6	42.653	44.362
15)	B Endosulfa...	6.816	6.072	148.6E6	221.4E6	43.135	46.583
16)	A 4,4'-DDD	6.735	5.925	138.7E6	206.0E6	47.314	46.979
17)	MA 4,4'-DDT	7.051	6.178	103.5E6	190.8E6	38.265	39.897
18)	B Endrin al...	6.945	6.250	111.1E6	164.6E6	45.934	47.657
19)	B Endosulfa...	7.179	6.474	127.4E6	202.0E6	42.666	44.937
20)	A Methoxychlor	7.524	6.749	49499322	100.1E6	38.813	38.257
21)	B Endrin ke...	7.660	6.979	141.9E6	239.8E6	44.813	46.347
22)	Mirex	8.143	7.173	100.9E6	174.0E6	43.630	42.846

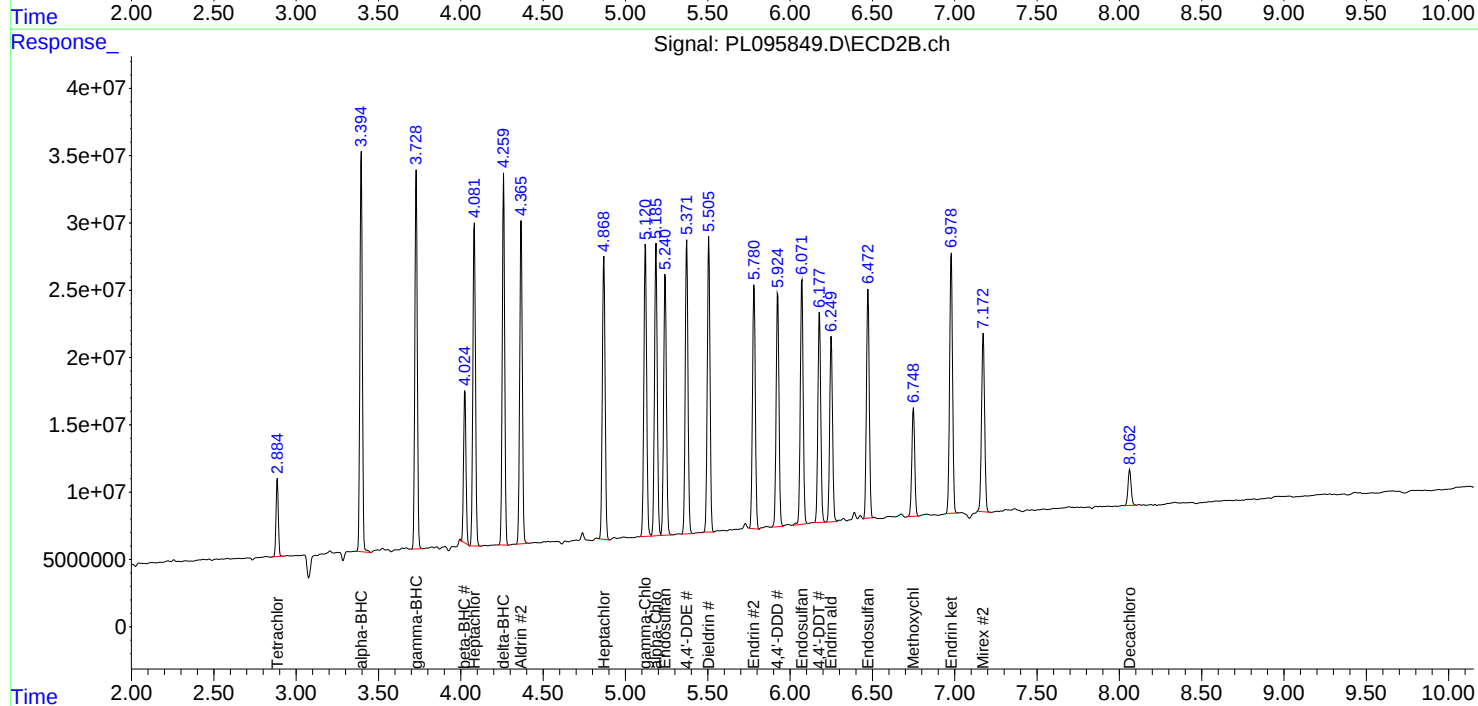
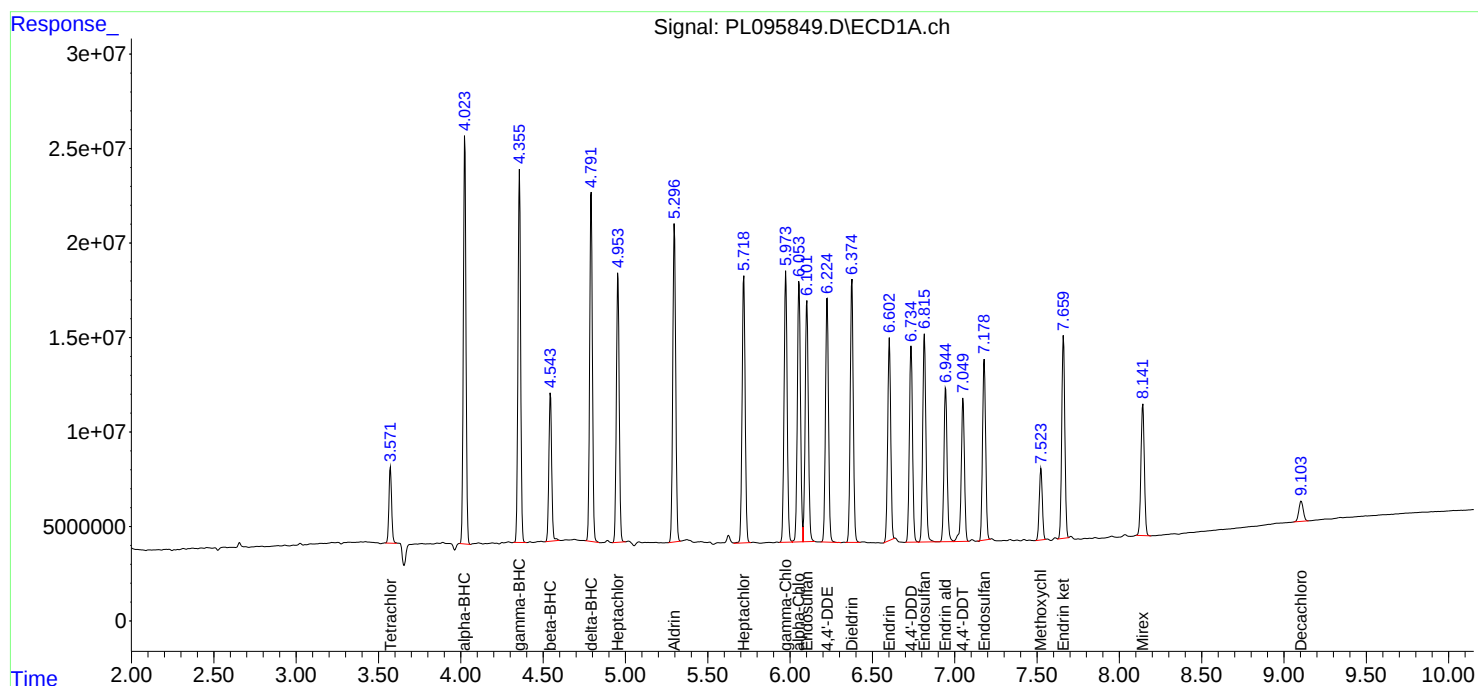
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095849.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 14:59
Operator : AR\AJ
Sample : Q2150-07MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-51MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51MSD	SDG No.:	Q2150
Lab Sample ID:	Q2150-07MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095850.D	1	05/30/25 08:50	05/30/25 15:13	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	20.5		0.16	2.00	ug/kg
319-85-7	beta-BHC	18.8		0.21	2.00	ug/kg
319-86-8	delta-BHC	20.1		0.47	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	20.4		0.17	2.00	ug/kg
76-44-8	Heptachlor	19.0		0.14	2.00	ug/kg
309-00-2	Aldrin	20.2		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	19.9		0.23	2.00	ug/kg
959-98-8	Endosulfan I	19.4		0.17	2.00	ug/kg
60-57-1	Dieldrin	19.2		0.17	2.00	ug/kg
72-55-9	4,4-DDE	19.1		0.17	2.00	ug/kg
72-20-8	Endrin	17.9		0.17	2.00	ug/kg
33213-65-9	Endosulfan II	18.6		0.35	2.00	ug/kg
72-54-8	4,4-DDD	19.0		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	18.2		0.16	2.00	ug/kg
50-29-3	4,4-DDT	16.2		0.17	2.00	ug/kg
72-43-5	Methoxychlor	15.9		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	18.9		0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	19.1		0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	19.6		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	19.6		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.50	U	6.50	39.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.48		20 - 144	42%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.6		19 - 148	73%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51MSD	SDG No.:	Q2150
Lab Sample ID:	Q2150-07MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095850.D	1	05/30/25 08:50	05/30/25 15:13	PB168209

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
 Data File : PL095850.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 May 2025 15:13
 Operator : AR\AJ
 Sample : Q2150-07MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 TP-51MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 30 22:53:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
 Quant Title : GC Extractables
 QLast Update : Thu May 22 06:29:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.572	2.885	46002112	57167551	14.579m	14.606
28)	SA Decachlor...	9.105	8.063	19993273	36343270	8.485	8.308
Target Compounds							
2)	A alpha-BHC	4.025	3.395	240.8E6	301.5E6	49.675	51.470
3)	MA gamma-BHC...	4.357	3.729	221.8E6	286.9E6	49.594	51.224
4)	MA Heptachlor	4.955	4.082	173.2E6	268.2E6	45.746	47.811
5)	MB Aldrin	5.297	4.367	207.3E6	270.3E6	48.465	50.932
6)	B beta-BHC	4.545	4.025	93409250	117.4E6	47.383	47.369
7)	B delta-BHC	4.793	4.260	216.4E6	285.8E6	48.817	50.601
8)	B Heptachlo...	5.719	4.869	184.1E6	247.4E6	48.246	50.098
9)	A Endosulfan I	6.103	5.241	172.2E6	232.4E6	46.985	48.778
10)	B gamma-Chl...	5.973	5.121	186.1E6	259.4E6	47.818m	49.394
11)	B alpha-Chl...	6.055	5.186	183.7E6	257.1E6	46.535	49.424
12)	B 4,4'-DDE	6.225	5.372	168.7E6	257.4E6	45.987	47.999
13)	MA Dieldrin	6.376	5.506	179.8E6	256.2E6	46.595	48.341
14)	MA Endrin	6.603	5.781	138.2E6	219.1E6	42.825	44.938
15)	B Endosulfa...	6.816	6.072	149.3E6	222.3E6	43.334	46.773
16)	A 4,4'-DDD	6.735	5.925	139.5E6	209.7E6	47.603	47.828
17)	MA 4,4'-DDT	7.051	6.178	103.8E6	194.5E6	38.360	40.669
18)	B Endrin al...	6.946	6.250	110.5E6	166.1E6	45.701	48.095
19)	B Endosulfa...	7.179	6.473	132.1E6	206.3E6	44.233	45.900
20)	A Methoxychlor	7.523	6.749	50869306	101.4E6	39.887	38.757
21)	B Endrin ke...	7.661	6.979	142.3E6	246.1E6	44.924	47.575
22)	Mirex	8.143	7.173	101.8E6	175.6E6	43.982	43.238

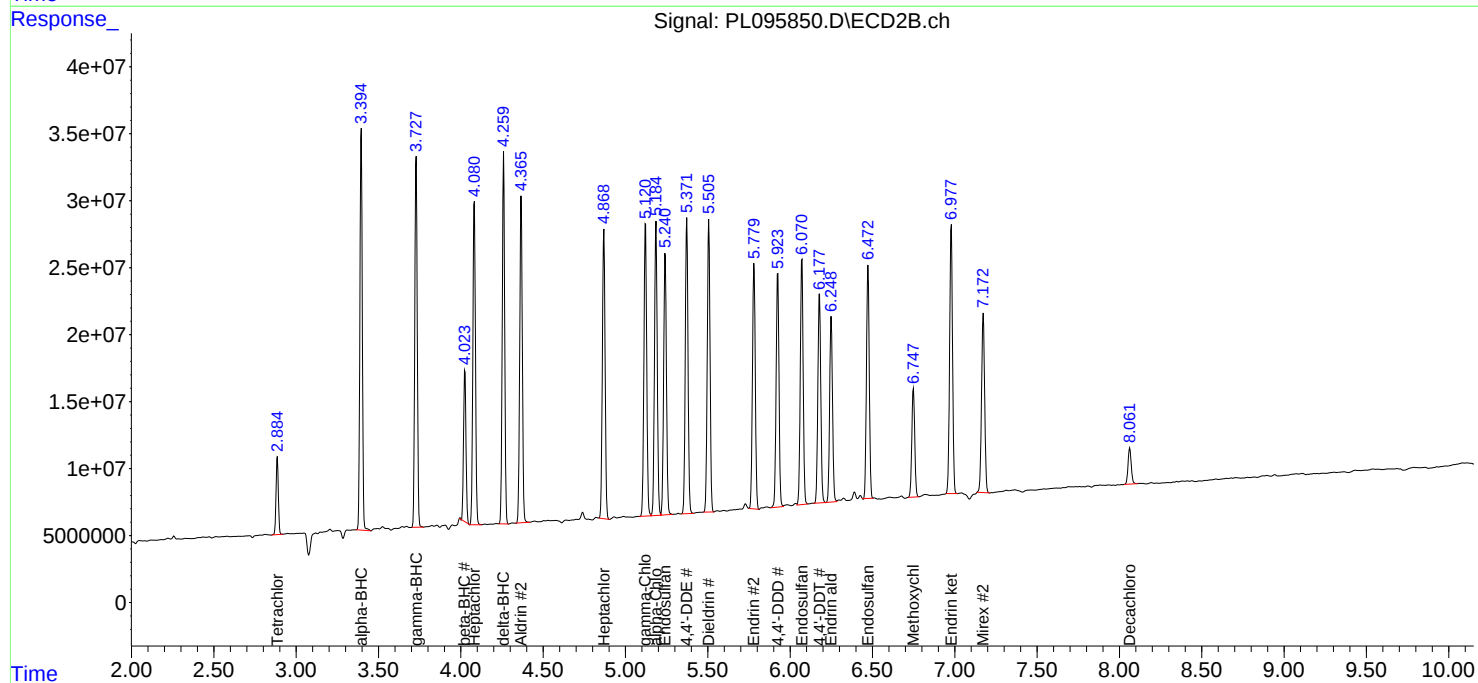
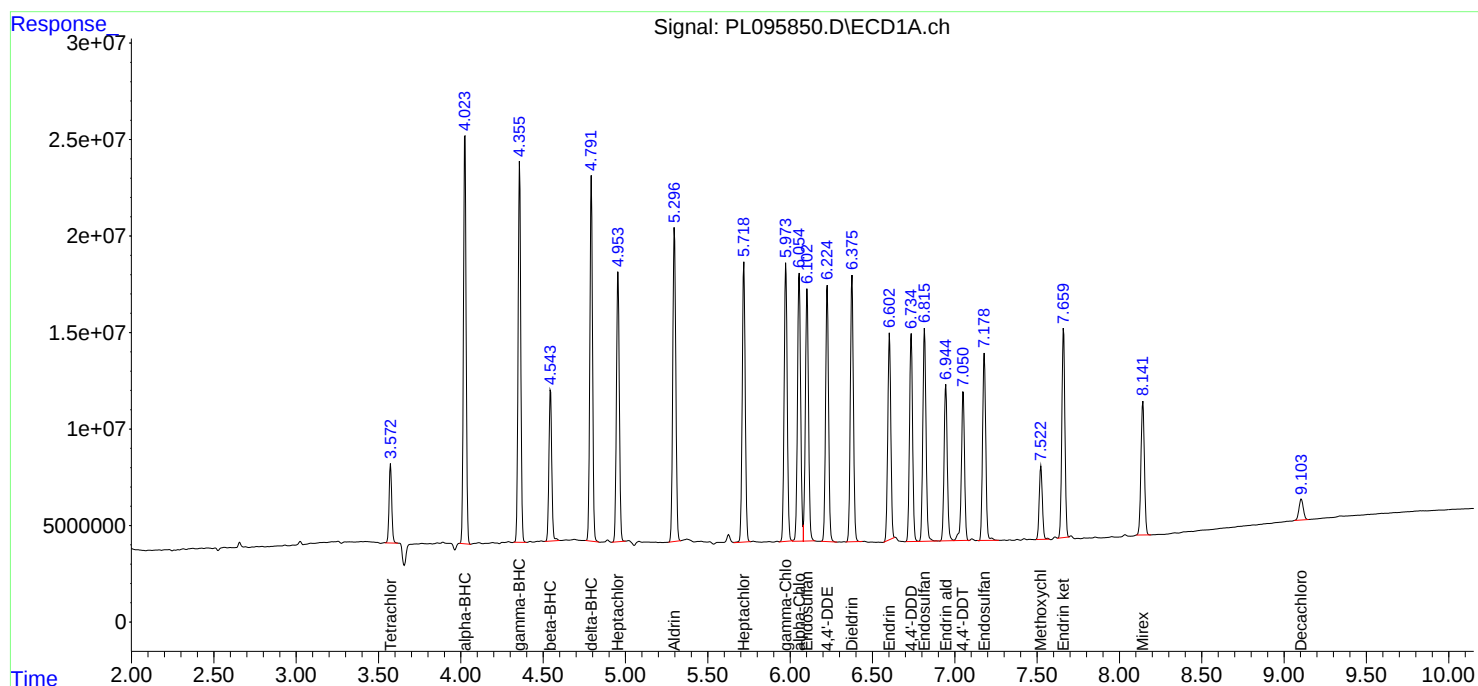
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL053025\
Data File : PL095850.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 May 2025 15:13
Operator : AR\AJ
Sample : Q2150-07MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TP-51MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 30 22:53:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL052125.M
Quant Title : GC Extractables
QLast Update : Thu May 22 06:29:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Manual Integration Report

Sequence:	PL052125	Instrument	ECD_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095733.D	4,4"-DDD	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	4,4"-DDD #2	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	beta-BHC #2	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	Endrin aldehyde	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	Endrin aldehyde #2	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	Endrin ketone	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PEM	PL095733.D	Endrin ketone #2	Abdul	5/22/2025 8:03:45 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
RESCHK	PL095734.D	Endosulfan I #2	Abdul	5/22/2025 8:03:50 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
RESCHK	PL095734.D	Endrin ketone	Abdul	5/22/2025 8:03:50 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PSTDICC025	PL095738.D	Endrin ketone	Abdul	5/22/2025 8:03:56 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PSTDICC005	PL095739.D	beta-BHC #2	Abdul	5/22/2025 8:04:00 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PSTDICC005	PL095739.D	Endosulfan II	Abdul	5/22/2025 8:04:00 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software
PSTDICC005	PL095739.D	Endrin ketone	Abdul	5/22/2025 8:04:00 AM	mohammad	5/23/2025 5:17:22	Peak Integrated by Software



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

Manual Integration Report

Sequence:

PL052125

Instrument

ECD_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	pl053025	Instrument	ECD_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095835.D	4,4"-DDE	Abdul	6/2/2025 8:50:36 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
PEM	PL095835.D	4,4"-DDE #2	Abdul	6/2/2025 8:50:36 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
PEM	PL095835.D	beta-BHC #2	Abdul	6/2/2025 8:50:36 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
PEM	PL095835.D	Endrin aldehyde	Abdul	6/2/2025 8:50:36 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
PEM	PL095835.D	Endrin aldehyde #2	Abdul	6/2/2025 8:50:36 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-01	PL095842.D	alpha-Chlordane #2	Abdul	6/2/2025 8:50:42 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-01	PL095842.D	gamma-Chlordane	Abdul	6/2/2025 8:50:42 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-01	PL095842.D	gamma-Chlordane #2	Abdul	6/2/2025 8:50:42 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-03	PL095844.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:50:46 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-05	PL095846.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:50:50 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-06	PL095847.D	alpha-Chlordane	Abdul	6/2/2025 8:50:54 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-06	PL095847.D	alpha-Chlordane #2	Abdul	6/2/2025 8:50:54 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-06	PL095847.D	gamma-Chlordane	Abdul	6/2/2025 8:50:54 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software

Manual Integration Report

Sequence:

pl053025

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2150-06	PL095847.D	gamma-Chlordane #2	Abdul	6/2/2025 8:50:54 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-07	PL095848.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:50:58 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-07MS	PL095849.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:51:03 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-07MSD	PL095850.D	gamma-Chlordane	Abdul	6/2/2025 8:51:07 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-07MSD	PL095850.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:51:07 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-09	PL095852.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:51:11 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
Q2150-10	PL095853.D	Tetrachloro-m-xylene	Abdul	6/2/2025 8:51:15 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software
PB168209BS	PL095854.D	gamma-Chlordane	Abdul	6/2/2025 8:51:19 AM	mohammad	6/3/2025 2:04:07	Peak Integrated by Software

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL052125

Review By	Abdul	Review On	5/22/2025 8:04:32 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:22 AM
SubDirectory	PL052125	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095731.D	21 May 2025 10:33	AR\AJ	Ok
2	I.BLK	PL095732.D	21 May 2025 10:47	AR\AJ	Ok
3	PEM	PL095733.D	21 May 2025 11:01	AR\AJ	Ok,M
4	RESCHK	PL095734.D	21 May 2025 11:14	AR\AJ	Ok,M
5	PSTDICC100	PL095735.D	21 May 2025 11:35	AR\AJ	Ok
6	PSTDICC075	PL095736.D	21 May 2025 11:48	AR\AJ	Ok
7	PSTDICC050	PL095737.D	21 May 2025 12:02	AR\AJ	Ok
8	PSTDICC025	PL095738.D	21 May 2025 12:15	AR\AJ	Ok,M
9	PSTDICC005	PL095739.D	21 May 2025 12:29	AR\AJ	Ok,M
10	PCHLORICC1000	PL095740.D	21 May 2025 12:42	AR\AJ	Ok
11	PCHLORICC750	PL095741.D	21 May 2025 12:56	AR\AJ	Ok
12	PCHLORICC500	PL095742.D	21 May 2025 13:10	AR\AJ	Ok
13	PCHLORICC250	PL095743.D	21 May 2025 13:23	AR\AJ	Ok
14	PCHLORICC050	PL095744.D	21 May 2025 13:37	AR\AJ	Ok,M
15	PTOXICC1000	PL095745.D	21 May 2025 13:50	AR\AJ	Ok
16	PTOXICC750	PL095746.D	21 May 2025 14:04	AR\AJ	Ok
17	PTOXICC500	PL095747.D	21 May 2025 14:18	AR\AJ	Ok
18	PTOXICC250	PL095748.D	21 May 2025 14:31	AR\AJ	Ok
19	PTOXICC100	PL095749.D	21 May 2025 14:45	AR\AJ	Ok,M
20	PSTDICV050	PL095750.D	21 May 2025 14:58	AR\AJ	Ok
21	PCHLORICV500	PL095751.D	21 May 2025 15:12	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL052125

Review By	Abdul	Review On	5/22/2025 8:04:32 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:22 AM
SubDirectory	PL052125	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PL095752.D	21 May 2025 15:26	AR\AJ	Ok
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M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL053025

Review By	Abdul	Review On	6/2/2025 8:51:47 AM
Supervise By	mohammad	Supervise On	6/3/2025 2:04:07 AM
SubDirectory	PL053025	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095833.D	30 May 2025 08:16	AR\AJ	Ok
2	I.BLK	PL095834.D	30 May 2025 08:30	AR\AJ	Ok
3	PEM	PL095835.D	30 May 2025 09:10	AR\AJ	Ok,M
4	PSTDCCC050	PL095836.D	30 May 2025 09:24	AR\AJ	Ok
5	Q2137-01DL	PL095837.D	30 May 2025 09:39	AR\AJ	Ok,M
6	I.BLK	PL095838.D	30 May 2025 11:17	AR\AJ	Ok
7	PSTDCCC050	PL095839.D	30 May 2025 12:40	AR\AJ	Ok
8	PB168209BL	PL095840.D	30 May 2025 12:57	AR\AJ	Ok
9	PB168209BS	PL095841.D	30 May 2025 13:10	AR\AJ	Not Ok
10	Q2150-01	PL095842.D	30 May 2025 13:24	AR\AJ	Ok,M
11	Q2150-02	PL095843.D	30 May 2025 13:38	AR\AJ	Ok
12	Q2150-03	PL095844.D	30 May 2025 13:51	AR\AJ	Ok,M
13	Q2150-04	PL095845.D	30 May 2025 14:05	AR\AJ	Ok
14	Q2150-05	PL095846.D	30 May 2025 14:18	AR\AJ	Ok,M
15	Q2150-06	PL095847.D	30 May 2025 14:32	AR\AJ	Ok,M
16	Q2150-07	PL095848.D	30 May 2025 14:46	AR\AJ	Ok,M
17	Q2150-07MS	PL095849.D	30 May 2025 14:59	AR\AJ	Ok,M
18	Q2150-07MSD	PL095850.D	30 May 2025 15:13	AR\AJ	Ok,M
19	Q2150-08	PL095851.D	30 May 2025 15:26	AR\AJ	Ok
20	Q2150-09	PL095852.D	30 May 2025 15:40	AR\AJ	Ok,M
21	Q2150-10	PL095853.D	30 May 2025 15:54	AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL053025

Review By	Abdul	Review On	6/2/2025 8:51:47 AM
Supervise By	mohammad	Supervise On	6/3/2025 2:04:07 AM
SubDirectory	PL053025	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB168209BS	PL095854.D	30 May 2025 16:07	AR\AJ	Ok,M
23	Q2151-01	PL095855.D	30 May 2025 16:21	AR\AJ	Ok,M
24	Q2152-01	PL095856.D	30 May 2025 16:35	AR\AJ	Ok,M
25	Q2153-01	PL095857.D	30 May 2025 16:48	AR\AJ	Ok
26	I.BLK	PL095858.D	30 May 2025 18:19	AR\AJ	Ok
27	PSTDCCC050	PL095859.D	30 May 2025 18:33	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL052125

Review By	Abdul	Review On	5/22/2025 8:04:32 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:22 AM
SubDirectory	PL052125	HP Acquire Method	HP Processing Method pl052125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095731.D	21 May 2025 10:33		AR\AJ	Ok
2	I.BLK	I.BLK	PL095732.D	21 May 2025 10:47		AR\AJ	Ok
3	PEM	PEM	PL095733.D	21 May 2025 11:01		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL095734.D	21 May 2025 11:14		AR\AJ	Ok,M
5	PSTDICC100	PSTDICC100	PL095735.D	21 May 2025 11:35		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL095736.D	21 May 2025 11:48		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL095737.D	21 May 2025 12:02		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL095738.D	21 May 2025 12:15		AR\AJ	Ok,M
9	PSTDICC005	PSTDICC005	PL095739.D	21 May 2025 12:29		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL095740.D	21 May 2025 12:42		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL095741.D	21 May 2025 12:56		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL095742.D	21 May 2025 13:10		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL095743.D	21 May 2025 13:23		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL095744.D	21 May 2025 13:37		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL095745.D	21 May 2025 13:50		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL095746.D	21 May 2025 14:04		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL095747.D	21 May 2025 14:18		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL095748.D	21 May 2025 14:31		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL052125

Review By	Abdul	Review On	5/22/2025 8:04:32 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:22 AM
SubDirectory	PL052125	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	PL095749.D	21 May 2025 14:45		AR\AJ	Ok,M
20	PSTDICV050	ICVPL052125	PL095750.D	21 May 2025 14:58		AR\AJ	Ok
21	PCHLORICV500	ICVPL052125CHLOR	PL095751.D	21 May 2025 15:12		AR\AJ	Ok
22	PTOXICV500	ICVPL052125TOX	PL095752.D	21 May 2025 15:26		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL053025

Review By	Abdul	Review On	6/2/2025 8:51:47 AM
Supervise By	mohammad	Supervise On	6/3/2025 2:04:07 AM
SubDirectory	PL053025	HP Acquire Method	HP Processing Method pl052125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095833.D	30 May 2025 08:16		AR\AJ	Ok
2	I.BLK	I.BLK	PL095834.D	30 May 2025 08:30		AR\AJ	Ok
3	PEM	PEM	PL095835.D	30 May 2025 09:10		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL095836.D	30 May 2025 09:24		AR\AJ	Ok
5	Q2137-01DL	MOO-25-0151DL	PL095837.D	30 May 2025 09:39	TCMX high in both column	AR\AJ	Ok,M
6	I.BLK	I.BLK	PL095838.D	30 May 2025 11:17		AR\AJ	Ok
7	PSTDCCC050	PSTDCCC050	PL095839.D	30 May 2025 12:40		AR\AJ	Ok
8	PB168209BL	PB168209BL	PL095840.D	30 May 2025 12:57		AR\AJ	Ok
9	PB168209BS	PB168209BS	PL095841.D	30 May 2025 13:10	alpha-BHC recovery fail	AR\AJ	Not Ok
10	Q2150-01	TP-44	PL095842.D	30 May 2025 13:24		AR\AJ	Ok,M
11	Q2150-02	TP-42	PL095843.D	30 May 2025 13:38		AR\AJ	Ok
12	Q2150-03	TP-39	PL095844.D	30 May 2025 13:51		AR\AJ	Ok,M
13	Q2150-04	TP-48	PL095845.D	30 May 2025 14:05		AR\AJ	Ok
14	Q2150-05	TP-47	PL095846.D	30 May 2025 14:18		AR\AJ	Ok,M
15	Q2150-06	TP-50	PL095847.D	30 May 2025 14:32		AR\AJ	Ok,M
16	Q2150-07	TP-51	PL095848.D	30 May 2025 14:46		AR\AJ	Ok,M
17	Q2150-07MS	TP-51MS	PL095849.D	30 May 2025 14:59		AR\AJ	Ok,M
18	Q2150-07MSD	TP-51MSD	PL095850.D	30 May 2025 15:13		AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL053025

Review By	Abdul	Review On	6/2/2025 8:51:47 AM
Supervise By	mohammad	Supervise On	6/3/2025 2:04:07 AM
SubDirectory	PL053025	HP Acquire Method	HP Processing Method pl052125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2150-08	TP-52	PL095851.D	30 May 2025 15:26		AR\AJ	Ok
20	Q2150-09	TP-54	PL095852.D	30 May 2025 15:40		AR\AJ	Ok,M
21	Q2150-10	TP-53	PL095853.D	30 May 2025 15:54		AR\AJ	Ok,M
22	PB168209BS	PB168209BS	PL095854.D	30 May 2025 16:07		AR\AJ	Ok,M
23	Q2151-01	WC-1	PL095855.D	30 May 2025 16:21		AR\AJ	Ok,M
24	Q2152-01	OK-02-05292025	PL095856.D	30 May 2025 16:35		AR\AJ	Ok,M
25	Q2153-01	TR-04-0592025	PL095857.D	30 May 2025 16:48		AR\AJ	Ok
26	I.BLK	I.BLK	PL095858.D	30 May 2025 18:19		AR\AJ	Ok
27	PSTDCCC050	PSTDCCC050	PL095859.D	30 May 2025 18:33		AR\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 05/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135945

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2150-01	TP-44	1	1.15	10.30	11.45	9.28	78.9	
Q2150-02	TP-42	2	1.13	10.45	11.58	10.14	86.2	
Q2150-03	TP-39	3	1.14	10.46	11.6	9.89	83.7	
Q2150-04	TP-48	4	1.18	10.44	11.62	9.6	80.7	
Q2150-05	TP-47	5	1.17	10.18	11.35	9.42	81.0	
Q2150-06	TP-50	6	1.18	10.70	11.88	10.38	86.0	
Q2150-07	TP-51	7	1.17	10.74	11.91	10.16	83.7	
Q2150-08	TP-52	8	1.16	10.61	11.77	10.25	85.7	
Q2150-09	TP-54	9	1.16	10.50	11.66	9.94	83.6	
Q2150-10	TP-53	10	1.12	10.56	11.68	10.13	85.3	
Q2151-01	WC-1	11	1.15	10.02	11.17	9.71	85.4	
Q2151-02	WC-1-EPH	12	1.17	10.23	11.4	9.99	86.2	
Q2151-03	WC-1-VOC	13	1.19	10.41	11.6	9.98	84.4	
Q2152-01	OK-02-05292025	31	1.18	10.25	11.43	10.2	88.0	
Q2152-02	OK-02-05292025-E2	32	1.13	10.47	11.6	10.54	89.9	
Q2153-01	TR-04-0592025	33	1.15	10.40	11.55	10.54	90.3	
Q2153-02	TR-04-0592025-E2	34	1.17	10.39	11.56	10.6	90.8	
Q2154-01	BC271336-1-1	14	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-02	BC271336-1-2	15	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-03	BC271336-2-1	16	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-04	BC271336-2-2	17	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-05	BC278406-1-1	18	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-06	BC278406-1-2	19	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-07	BC278406-2-1	20	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-08	BC278406-2-2	21	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-09	BC22682C-1-1	22	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-10	BC22682C-1-2	23	1.00	1.00	2.00	2.00	100.0	oilc
Q2154-11	GHA409H-1-1	24	1.00	1.00	2.00	2.00	100.0	oilc



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 05/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135945

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q2154-12	GHA409H-1-2	25	1.00	1.00	2.00	2.00	100.0	oilc
Q2155-01	446	26	1.18	10.02	11.2	10.42	92.2	
Q2155-02	447-SOLID	27	1.13	10.35	11.48	6.13	48.3	
Q2156-01	KZZ331H-1-1	28	1.00	1.00	2.00	2.00	100.0	oilc
Q2156-02	KZZ331H-1-2	29	1.00	1.00	2.00	2.00	100.0	oilc
Q2157-01	291	30	1.00	1.00	2.00	2.00	100.0	debris

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

WORKLIST(Hardcopy Internal Chain)

W 135945

WorkList Name : %1-052925

WorkList ID : 189801

Department : Wet-Chemistry

Date : 05-29-2025 08:14:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2150-01	TP-44	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-02	TP-42	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-03	TP-39	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-04	TP-48	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-05	TP-47	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-06	TP-50	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-07	TP-51	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-08	TP-52	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/27/2025	Chemtech -SO
Q2150-09	TP-54	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/28/2025	Chemtech -SO
Q2150-10	TP-53	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/28/2025	Chemtech -SO
Q2151-01	WC-1	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/28/2025	Chemtech -SO
Q2151-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/29/2025	Chemtech -SO
Q2151-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/29/2025	Chemtech -SO
Q2152-01	OK-02-05292025	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/29/2025	Chemtech -SO
Q2152-02	OK-02-05292025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/29/2025	Chemtech -SO
Q2153-01	TR-04-0592025	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/29/2025	Chemtech -SO
Q2153-02	TR-04-0592025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/29/2025	Chemtech -SO
Q2154-01	BC271336-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-02	BC271336-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-03	BC271336-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-04	BC271336-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO

Date/Time 05/29/25 16:15

Raw Sample Received by: R CWC1

Raw Sample Relinquished by: R.C. (Sm)

Date/Time 05/29/25

Raw Sample Received by: R.C. (Sm)

Raw Sample Relinquished by: R.C. (Sm)

WORKLIST(Hardcopy Internal Chain)

135945

WorkList Name : %1-052925

WorkList ID : 189801

Department : Wet-Chemistry

Date : 05-29-2025 08:14:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2154-05	BC278406-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-06	BC278406-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-07	BC278406-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-08	BC278406-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-09	BC22682C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-10	BC22682C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-11	GHA409H-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2154-12	GHA409H-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2155-01	446	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2155-02	447-SOLID	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2156-01	KZZ331H-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2156-02	KZZ331H-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO
Q2157-01	291	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/29/2025	Chemtech -SO

Date/Time 05/29/25 16:15
 Raw Sample Received by: EWG
 Raw Sample Relinquished by: L.C. (son)

Date/Time 05/29/25 17:30
 Raw Sample Received by: L.C. (son)
 Raw Sample Relinquished by: SC 2000

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Florisil

Extraction Start Date : 05/30/2025

Matrix : Solid

Extraction Start Time : 08:50

Welgh By: EH

Extraction By: RJ

Extraction End Date : 05/30/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 11:50

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continious Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	2.0ML	1000 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24597
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2613
Baked Na2SO4	N/A	EP2614
Sand	N/A	E2865
Hexane	N/A	E3938
Florisil	N/A	E3927
9:1 Hexane:Acetone Mixture	N/A	EP2596
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40ML Vial Lot # 03-40BTS723.

KD Bath ID: N/A

Envap ID: NEVAP-02

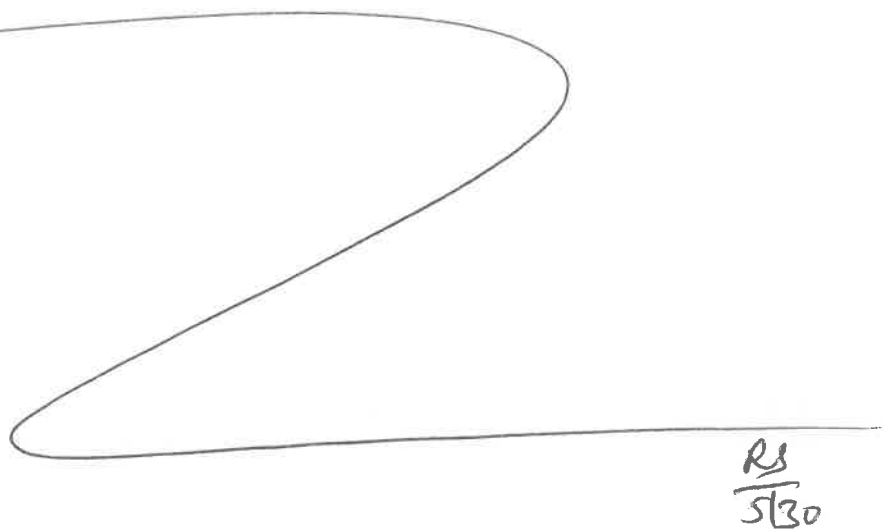
KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/30/25	RS (Ext Lab)	RS - P&S / PCB Lab
11:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14
Concentration Date: 05/30/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168209BL	PBLK209	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			U1-1
PB168209BS	PLCS209	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10			2
Q2150-01	TP-44	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		3
Q2150-02	TP-42	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		4
Q2150-03	TP-39	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		5
Q2150-04	TP-48	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		6
Q2150-05	TP-47	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		U2-1
Q2150-06	TP-50	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		2
Q2150-07	TP-51	Pesticide-TCL	30.07	N/A	ritesh	Evelyn	10	E		3
Q2150-07MS	TP-51MS	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		4
Q2150-07MS D	TP-51MSD	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		5
Q2150-08	TP-52	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		6
Q2150-09	TP-54	Pesticide-TCL	30.09	N/A	ritesh	Evelyn	10	E		U3-1
Q2150-10	TP-53	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		2
Q2151-01	WC-1	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		3
Q2152-01	OK-02-05292025	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		4
Q2153-01	TR-04-0592025	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		5



168205
25:8

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2150P WorkList ID : 189837 Department : Extraction Date : 05-30-2025 08:30:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2150-01	TP-44	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-02	TP-42	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-03	TP-39	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-04	TP-48	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-05	TP-47	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-06	TP-50	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-07	TP-51	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-08	TP-52	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/27/2025	8081B
Q2150-09	TP-54	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/28/2025	8081B
Q2150-10	TP-53	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/28/2025	8081B
Q2151-01	WC-1	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/29/2025	8081B
Q2152-01	OK-02-05292025	Solid	Pesticide-TCL	Cool 4 deg C	PSEG05	L21	05/29/2025	8081B
Q2153-01	TR-04-0592025	Solid	Pesticide-TCL	Cool 4 deg C	PSEG05	L31	05/29/2025	8081B

Date/Time 05/30/25 8:45
Raw Sample Received by: RJ LEE-Lab
Raw Sample Relinquished by: QJL SH

Date/Time 05/30/25 9:10
Raw Sample Received by: QJL SH
Raw Sample Relinquished by: RJ LEE-Lab

Prep Standard - Chemical Standard Summary

Order ID : Q2150

Test : Pesticide-TCL

Prepbatch ID : PB168209,

Sequence ID/Qc Batch ID: pl053025,

Standard ID :

EP2613,EP2614,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24597,

Chemical ID :

E2865,E3551,E3847,E3876,E3877,E3914,E3927,E3932,E3933,E3938,P12603,P12611,P13037,P13040,P13195,P13245,P13356,P13357,P13405,P13785,P13861,P9052,W3177,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
230	1:1ACETONE/HEXANE	EP2613	05/09/2025	11/05/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
05/09/2025								

FROM 4000.00000ml of E3932 + 4000.00000ml of E3933 = Final Quantity: 8000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2614	05/19/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
05/19/2025								

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4027	Pesticide resolution Check Mixture 8081	PP24095	12/23/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani
								12/30/2024

FROM 1.00000ml of P13245 + 99.00000ml of E3847 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP24255	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13785 + 9.00000ml of E3877 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP24256	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13040 + 9.00000ml of E3877 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1472	20 PPM Pest Stock Solution 2nd Source	PP24257	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13037 + 9.00000ml of E3877 = Final Quantity: 10.000 ml



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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
386	1000/100 PPB Chlordane STD (Restek)	PP24262	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P12603 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP24266	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P12611 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
383	1000/100 PPB Toxaphene STD (Restek)	PP24267	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P13405 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP24268	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P13861 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3631	75 PPB ICAL PEST STD(RESTEK)	PP24269	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = 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>
3632	50 PPB ICAL PEST STD(RESTEK)	PP24270	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24260 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3633	25 PPB ICAL PEST STD(RESTEK)	PP24271	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = 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>
3634	5 PPB ICAL PEST STD(RESTEK)	PP24272	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24270 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3988	50 PPB PEST ICV STD(RESTEK)	PP24273	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24261 = 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>
528	CHLOR 750 PPB STD	PP24274	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24262 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
529	CHLOR 500 PPB STD	PP24275	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24262 = 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>
530	CHLOR 250 PPB STD	PP24277	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24262 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3408	CHLOR 50 PPB STD	PP24278	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24275 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
532	CHLOR 500 PPB ICV STD	PP24279	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24266 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
533	TOX 750 PPB STD	PP24280	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24267 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
534	TOX 500 PPB STD	PP24281	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24267 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
535	TOX 250 PPB STD	PP24282	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24267 = 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>
2217	TOX 100 PPB STD	PP24283	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24267 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3670	TOX 500 PPB ICV std (RESTEK)	PP24284	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24268 = 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>
79	500 PPB Pesticide Spike Solution	PP24285	03/12/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 95.00000ml of E3876 + 2.50000ml of PP24257 + 2.50000ml of PP24259 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
518	Pest/PCB I.BLK 20 PPB	PP24433	03/31/2025	08/22/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 99.90000ml of E3914 + 0.10000ml of PP24329 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
465	200 PPB Pest/PCB Surrogate Spike	PP24597	05/20/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel 05/22/2025
<u>FROM</u>	1.00000ml of P13357 + 999.00000ml of E3932 = 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 #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	FS0006 / Cleanert SPE Silica, 1000 mg/6ml	Z0830QB1	04/18/2026	05/30/2025 / RUPESH	03/13/2025 / RUPESH	E3927

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	25C0362005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3933

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)	25C0362005	04/30/2026	/	05/14/2025 / RUPESH	E3938

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	09/11/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	09/09/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12611

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	09/10/2025	03/10/2025 / Abdul	01/17/2024 / Abdul	P13195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	06/23/2025	12/23/2024 / Abdul	02/09/2024 / Abdul	P13245

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	11/20/2025	05/20/2025 / Abdul	04/22/2024 / Abdul	P13357

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	09/09/2025	03/10/2025 / Abdul	05/15/2024 / Abdul	P13405

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	A0214495	09/10/2025	03/10/2025 / Abdul	11/19/2024 / Ankita	P13785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	09/10/2025	03/10/2025 / Abdul	12/09/2024 / Abdul	P13861

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	09/10/2025	03/10/2025 / Abdul	11/01/2019 / Stephen	P9052

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

Sand
Purified
Washed and Ignited



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

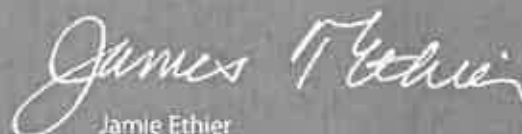
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

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

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

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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

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

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 12/13/24

E3847



Jamie Croak
Director Quality Operations, Bioscience Production

Certificate of Analysis

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

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

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

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

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

Recd. by RP on 2/12/25

 E3877

Harout Sahagian - Quality Control Manager - Fair Lawn

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

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

*Based on suggested storage condition.

Certificate of Analysis

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

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

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

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

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

Recd by RS on 3/14/25



E3914

Harout Sahagian - Quality Control Manager - Fair Lawn

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

*Based on suggested storage condition.

Cleanert Florisil

1g/6ml 30/pkg

LOT#: Z0830QB1

MFG#: G01256

CAT# FS0006



Made in China

Agela Technologies

固相萃取产品

E3927



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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

 **avantors**TM



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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

 **avantors**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

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

E3938



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

RESTEK

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32021 **Lot No.:** A0193299
Description : Chlordane Standard
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2029 **Storage:** 10°C or colder
Ship: Ambient

P12616
↓
P12615
Five
7/3/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	—%	1,010.0 µg/mL	+/- 56.0475

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

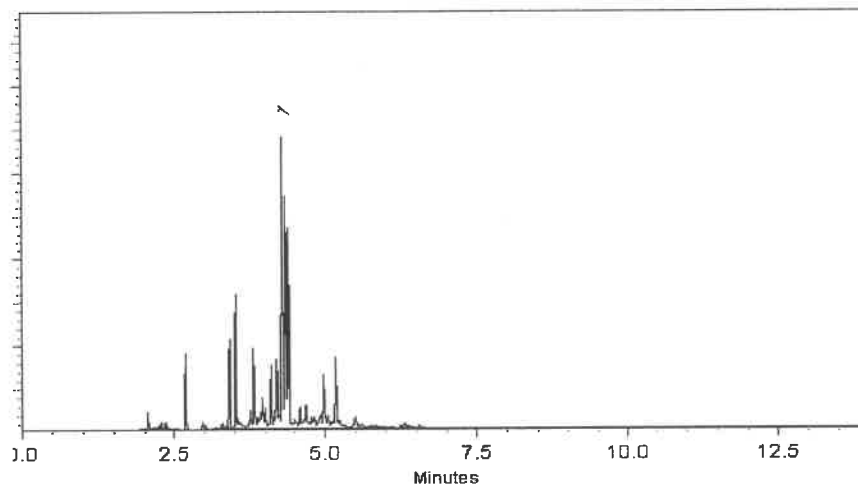
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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

Bryan Snyder
Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023

Balance Serial # B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

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

CRm
P12611
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P12615 } (5) *Fin*

CRout
7/3/2023



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32291 Lot No.: A0199099

Description : Organochlorine Pesticide Mix AB #1

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

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : June 30, 2027 Storage: 10°C or colder

Ship: Ambient

P130397 5
↓
P13043 1
✓
12-26-2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.0 µg/mL	+/- 8.9732
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	200.1 µg/mL	+/- 8.9762
3	beta-BHC	319-85-7	BCCC6425	99%	200.3 µg/mL	+/- 8.9844
4	delta-BHC	319-86-8	14450800	98%	200.0 µg/mL	+/- 8.9740
5	Heptachlor	76-44-8	813251	99%	200.1 µg/mL	+/- 8.9754
6	Aldrin	309-00-2	14389400	98%	200.0 µg/mL	+/- 8.9718
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.1 µg/mL	+/- 8.9754
8	trans-Chlordane	5103-74-2	32943	98%	199.9 µg/mL	+/- 8.9696
9	cis-Chlordane	5103-71-9	31766	98%	200.1 µg/mL	+/- 8.9762
10	Endosulfan I	959-98-8	BCCF4060	99%	200.1 µg/mL	+/- 8.9754
11	4,4'-DDE	72-55-9	GHYQG	99%	200.1 µg/mL	+/- 8.9777
12	Dieldrin	60-57-1	11129900	98%	200.0 µg/mL	+/- 8.9718
13	Endrin	72-20-8	14123200	98%	199.9 µg/mL	+/- 8.9696
14	4,4'-DDD	72-54-8	HAN02	99%	200.1 µg/mL	+/- 8.9777
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	200.0 µg/mL	+/- 8.9718

17	Endrin aldehyde	7421-93-4	30720	98%	200.1	µg/mL	+/- 8.9784
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.0	µg/mL	+/- 8.9732
19	Methoxychlor	72-43-5	13668200	99%	200.1	µg/mL	+/- 8.9777
20	Endrin ketone	53494-70-5	1-ABS-16-7	98%	200.0	µg/mL	+/- 8.9740

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

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

P13039
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 P13043
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 1
 JAW
 12/26/23

Quality Confirmation Test

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

Carrier Gas:
 helium-constant pressure 20 psi.

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

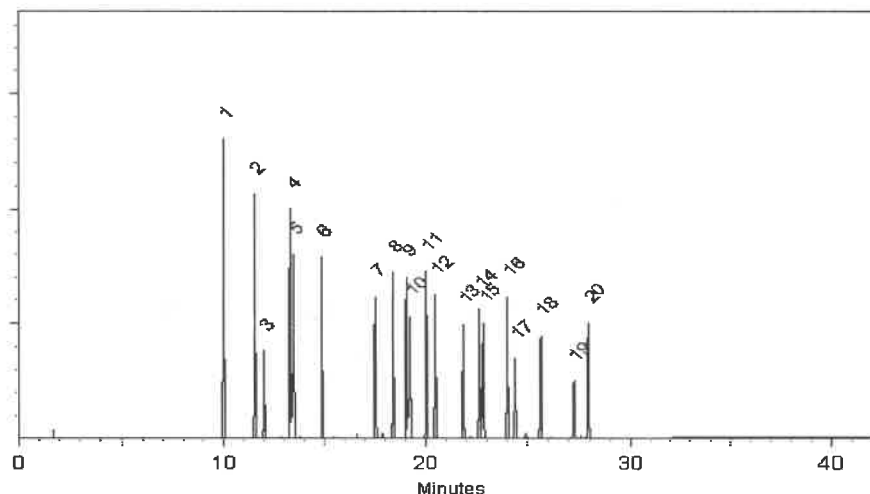
Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD

Split Vent:
 Split ratio 50:1

Inj. Vol
 1µl



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

Josh McCloskey
 Josh McCloskey - Operations Technician I

Date Mixed: 19-Jun-2023

Balance Serial # 1128360905

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

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

**CERTIFIED WEIGHT REPORT**

Part Number:	<u>79136</u>
Lot Number:	<u>042022</u>
Description:	Milrex

Solvent(s):	Lot#
Acetone	81025

Expiration Date: 04/20/27

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration ($\mu\text{g/mL}$):

NIST Test ID#:

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

5E-05	Balance Uncertainty
0.006	Flask Uncertainty

Formulated By:	 Prashant Chauhan	042022
Reviewed By:	 Pedro L. Rentias	042022

Reviewed By:

Pedro L. Rentas

DATE _____

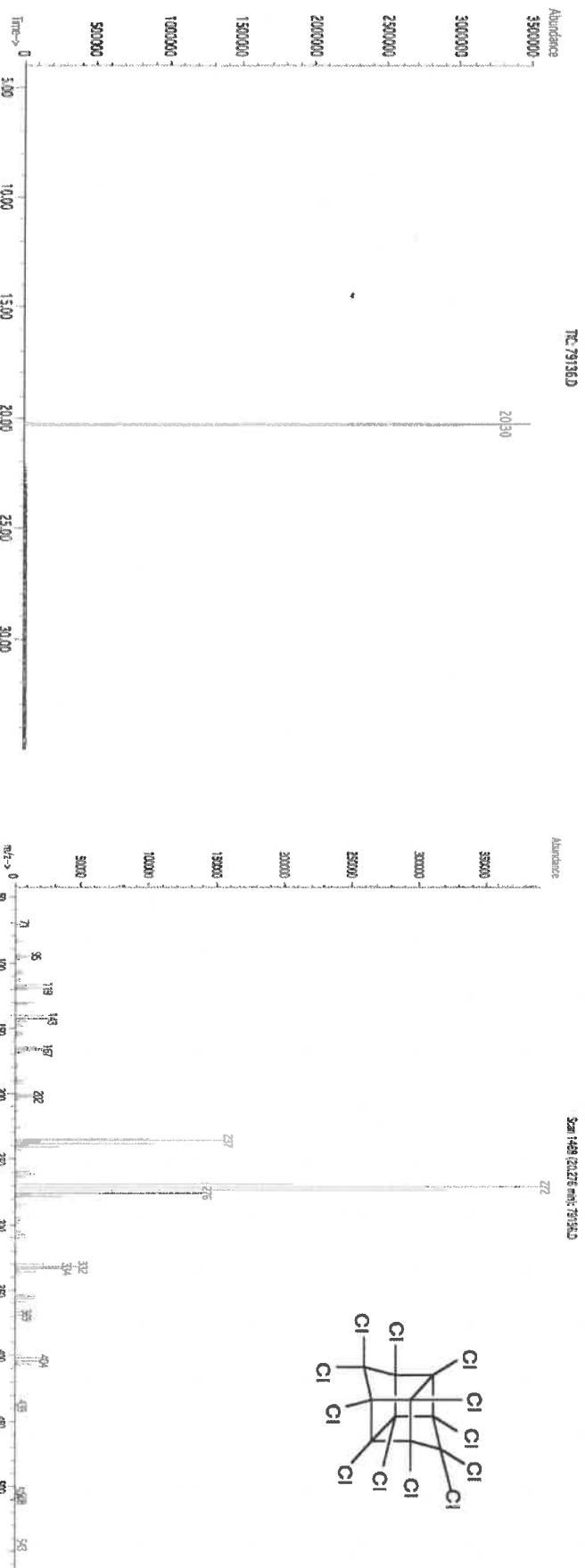
SDS Information

[illegible]

050

	off-raid	306nm/km
N/A	2385-85.5	10.3
1.001.1	0.05040	0.5
99.4	1000	9492400
437	Mitrex	

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B = 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified $\pm 0.5\%$ of the stated value, unless otherwise stated.

- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.

- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result,"

NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

$P_{13,195}$
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 $P_{13,199}$
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 $\textcircled{5}$
 $\downarrow$

01/17/2024
JALIN

Handwritten diagram showing a curved arrow pointing from a circled '5' to the text 'D/C 1/3/5'.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32021 Lot No.: A0197993
Description : Chlordane Standard
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2029 Storage: 10°C or colder
Ship: Ambient

P 12603
↓
P 12605
3
Kauf
7/3/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	----%	1,005.0 µg/mL	+/- 55.7700

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

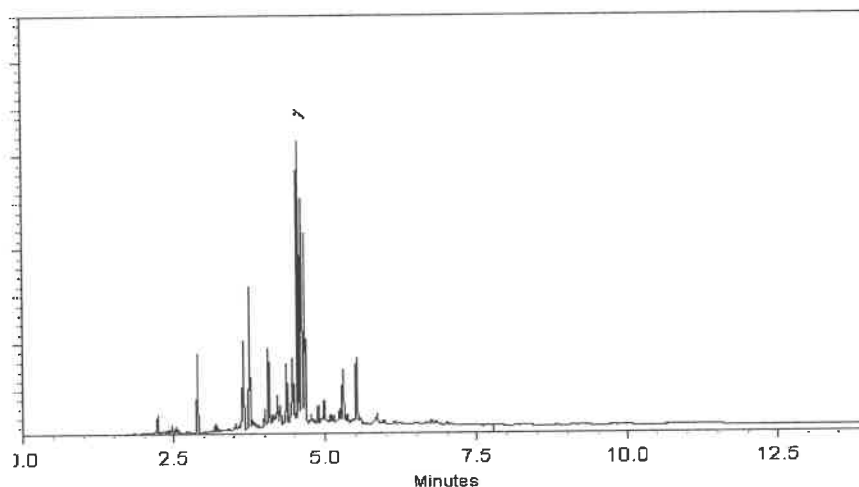
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Morgan Craighead - Mix Technician

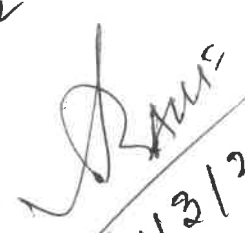
Date Mixed: 11-May-2023

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-May-2023

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

P 12603 } (3)
↓
P 12605

7/3/2023



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Organochlorine Pesticide Mix AB #1

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

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

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

Ship: Ambient

P 13034
↓
P 13038
12.26.2023

CERTIFIED VALUES

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

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

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

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

P13034
P13038
1
5
12/26/2023

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

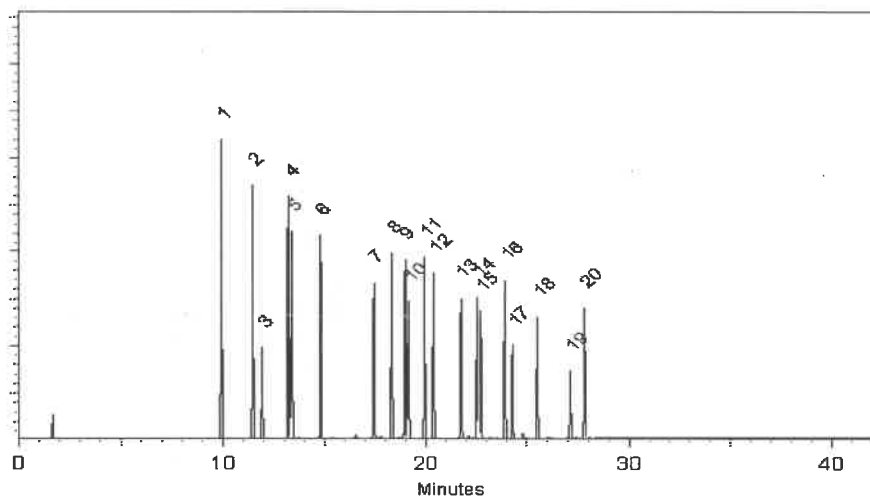
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023

Balance Serial # B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

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



CERTIFIED WEIGHT REPORT

Part Number:	19161
Lot Number:	013124
Description:	CLP Pesticides & PCBs Resolution Check Standard
Expiration Date:	9 components
Recommended Storage:	013129
Nominal Concentration (µg/mL):	Varied
NIST Test ID#:	6UTB
Volume(s) shown below were combined and diluted to (mL):	100.0
Balance Uncertainty:	5E-05
Pipet Uncertainty:	0.021
Solvent(s):	Hexane
Lot#	273615
Refrigerate (4 °C)	28508
(50%)	(50%)
Formulated By:	Lawrence Barry
DATE	013124
Reviewed By:	Pedro L. Rentes
DATE	013124

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (±) µg/mL	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	5103-74-2	0.5mg/m3 (skin)	or-rat 500mg/kg
2. Endosulfan I	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	959-98-8	0.1mg/m3 (skin)	or-rat 18mg/kg
3. 4,4'-DDE	19361	013124	0.010	1.00	0.004	201.6	2.0	0.03	72-55-9	N/A	or-rat 880mg/kg
4. Dieldrin	19361	013124	0.010	1.00	0.004	202.8	2.0	0.03	60-57-1	0.25mg/m3 (skin)	or-rat 36300µg/kg
5. Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	or-rat 18mg/kg
6. Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
7. 4,4-Methoxychlor	19361	013124	0.010	1.00	0.004	1000.7	10.0	0.09	72-43-5	10mg/m3	or-rat 6000mg/kg
8. 2,4,5,6-Tetrachloro-m-xylene	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	877-09-8	N/A	N/A
9. Decachlorobiphenyl (209)	19361	013124	0.010	1.00	0.004	202.0	2.0	0.03	2051-24-3	N/A	N/A

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0206810

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

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

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

P13348
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P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

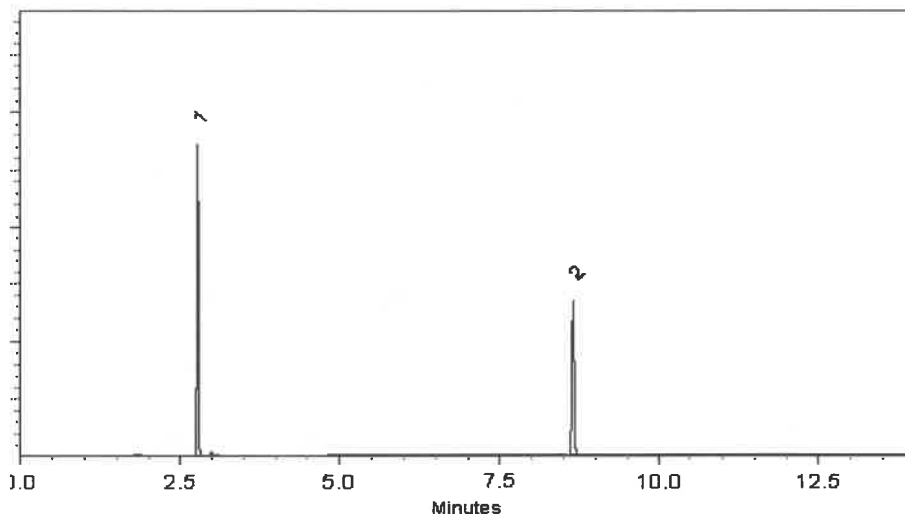
ECD

Split Vent:

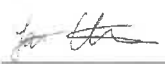
10 ml/min.

Inj. Vol

1µl

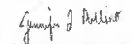


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

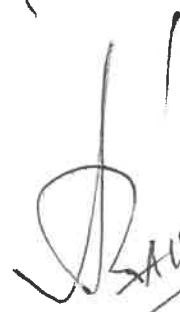
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
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P 13357
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04/25/2025



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Catalog No. : 32000 **Lot No.:** A0206810

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

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

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

P13348
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DAUF
04/25/2024

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

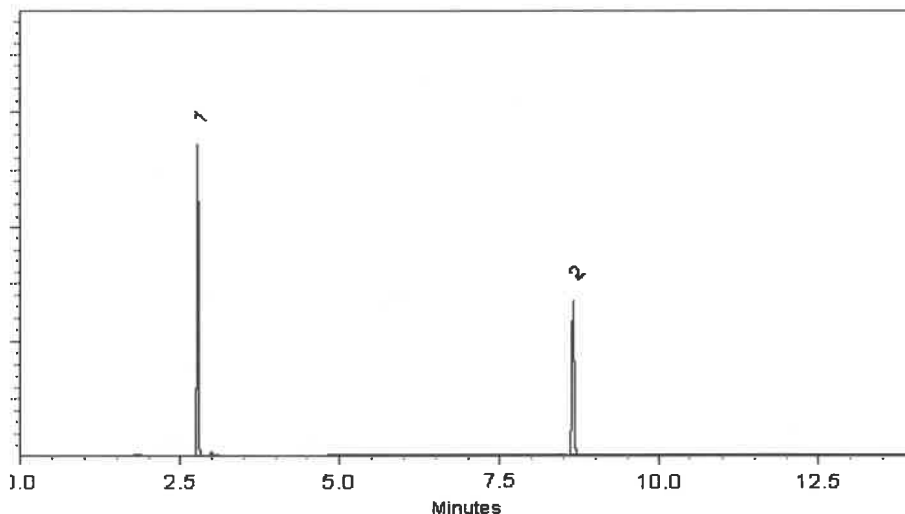
ECD

Split Vent:

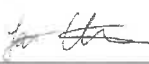
10 ml/min.

Inj. Vol

1µl

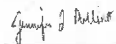


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

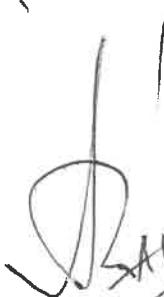
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015
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P 13348
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10


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

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

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

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

P13402
P13406
5/22/2024

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

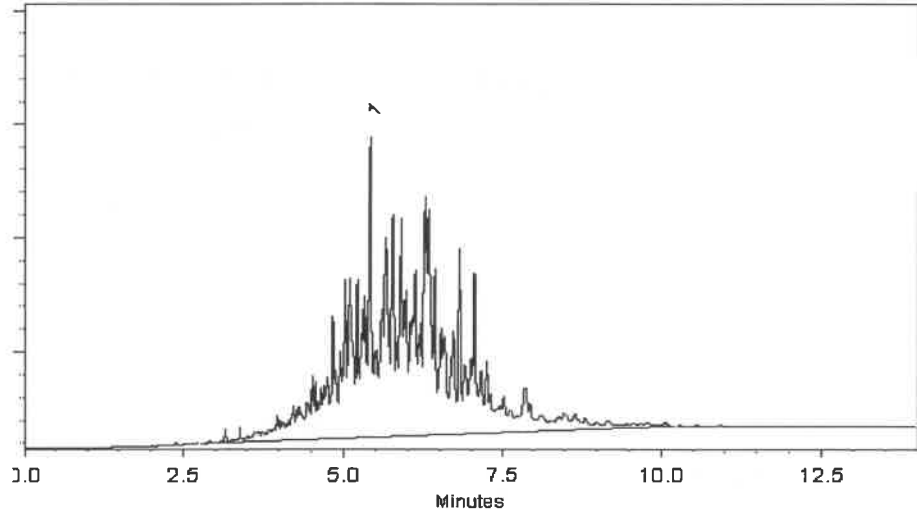
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl

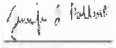


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

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5/22/2024



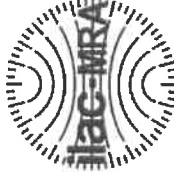
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Catalog No. : 32000 **Lot No.:** A0214495

Description : Pesticide Surrogate Mix

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

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

Expiration Date : October 31, 2030 **Storage:** 10°C or colder

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

P19785
AJ
11/19/24
P19789

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

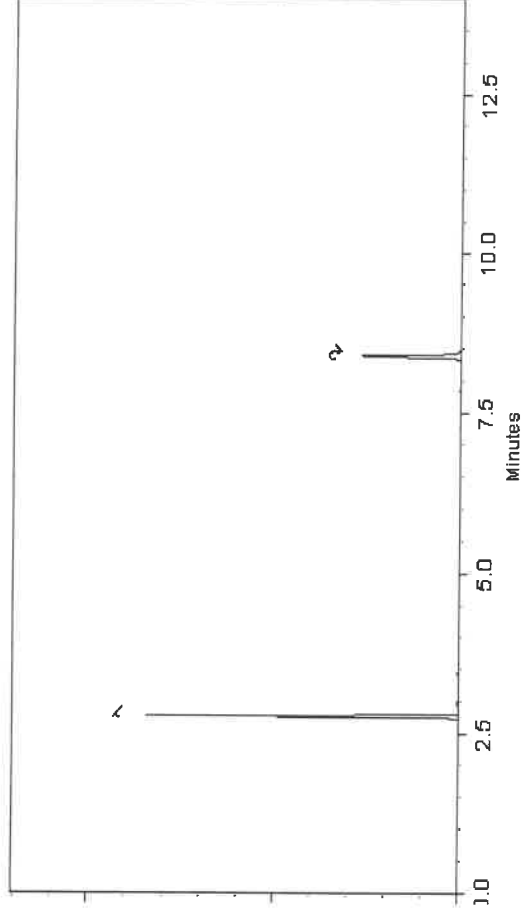
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

A. O. P.
Aaron Enyart - Operations Tech I

Date Mixed: 29-Jul-2024 **Balance Serial #** B345965662

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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



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

Catalog No. : 32005 **Lot No.:** A0210240
Description : Toxaphene Standard
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.3 µg/mL	+/- 56.0105

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

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

P13861
P13862

12/9/2024

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

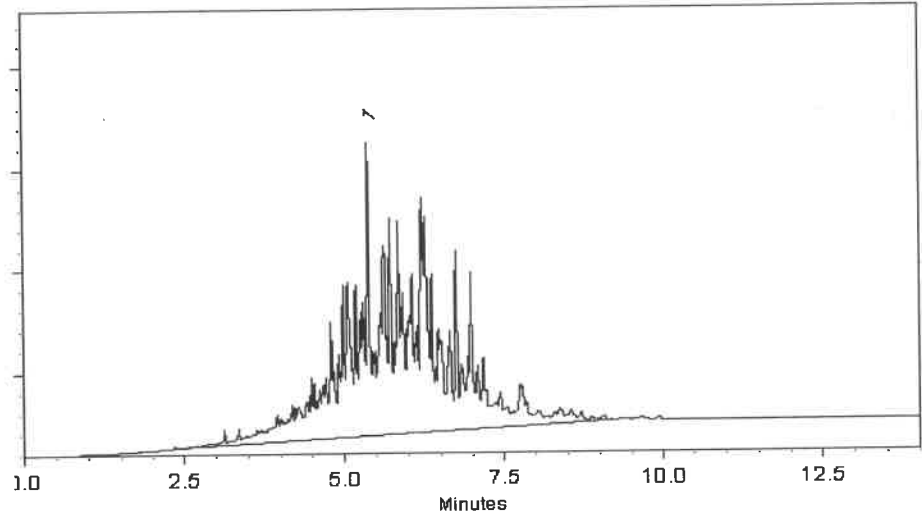
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Amanda Miller - Operations Tech III - ARM QC

Date Mixed: 11-Apr-2024

Balance Serial # B442140311

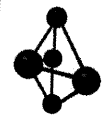

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 26-Apr-2024

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

P13861 } ②
P13862 }


12/9/2024



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **112018**
Description: **n-Tetracosane-d50**

Expiration Date: **112028**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **2684186**

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

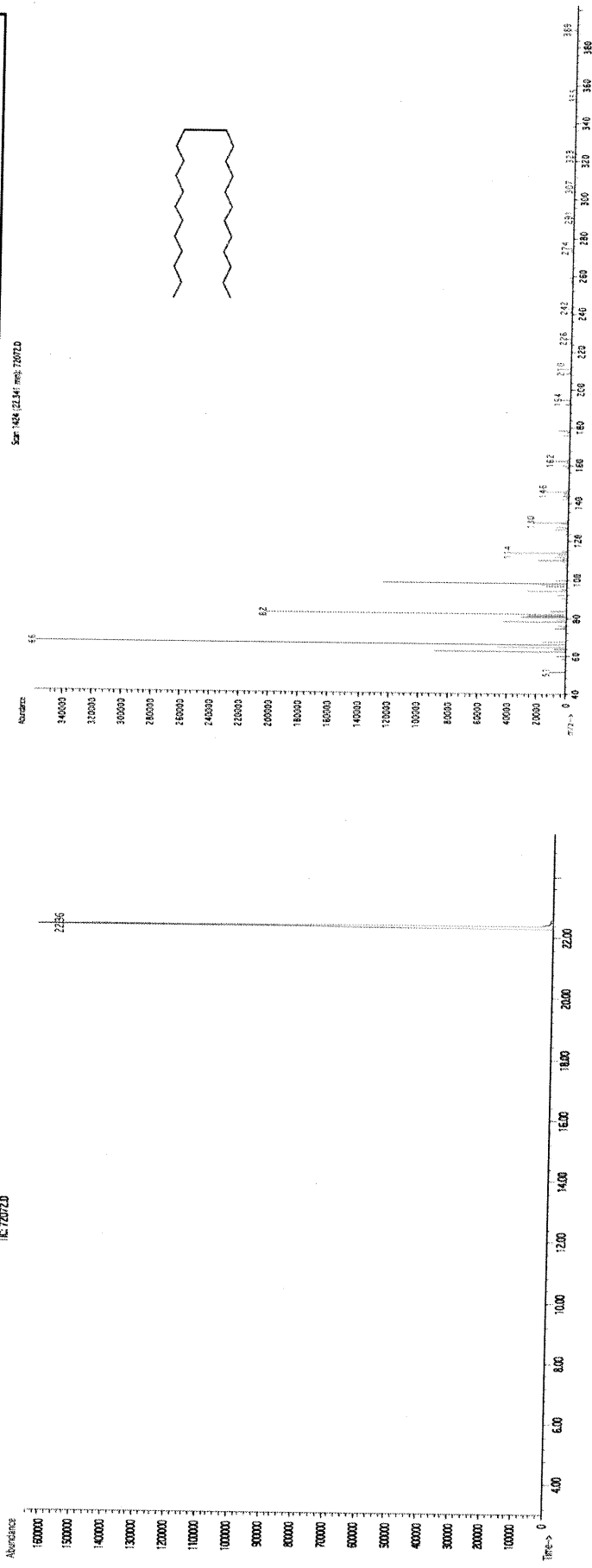
Solvent(s): **Methylene chloride**
Lot# **102669**

Received by
SG on 11/11/19
p9044-p9053
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

<i>Prashant Chauhan</i>	
Formulated By:	Prashant Chauhan
DATE	112018
<i>Pedro Rentas</i>	
Reviewed By:	Pedro Rentas
DATE	112018

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. n-Tetracosane-d50	2072	PR-17753/09216TC1	1000	98	0.2	0.20411	0.20415	1000.2	4.2	18416-32-3 N/A
Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.										

TC 720720



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



Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.

Created: Thu, Nov 22, 2018 at 7:23:18 AM.

Sampled: Sequence "112018-GC4M1", Method "GC4-M1".

Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier

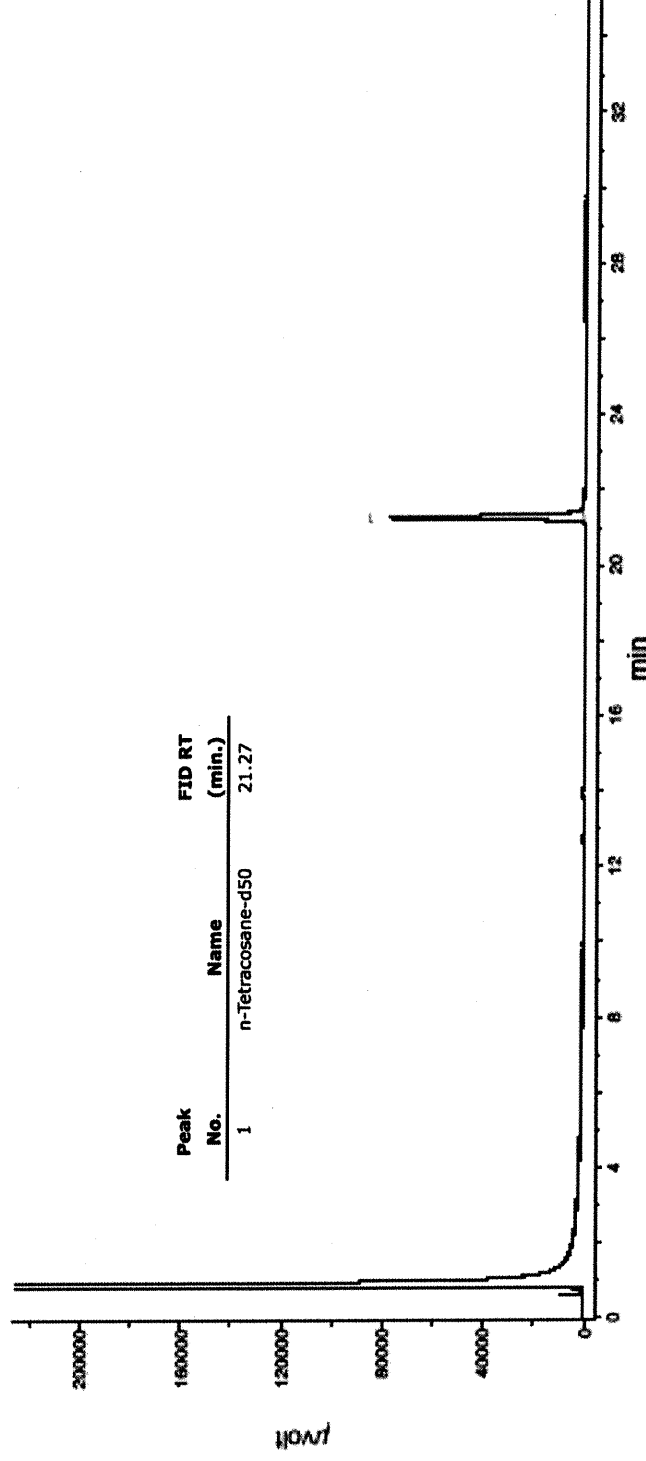
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5µm Film Thickness

Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) = 360 mL

Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.

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

Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 3



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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

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

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CDM SMITH
ADDRESS: 110 FIELDREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPAIRMENT
PROJECT NO. 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 732-590-4679

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

1. TCL VOC 2. TCL SVOC 3. METALS 4. PCB 5. PESTICIDE 6. HERBICIDE 7. DRO/GRO

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	TP-44	SOIL		X	5/27/25	0820	6	X	X	X	X	X	X	X			E	
2.	TP-42	SOIL		X	5/27/25	0915	6	X	X	X	X	X	X	X			E	
3.	TP-39	SOIL		X	5/27/25	0950	6	X	X	X	X	X	X	X			E	
4.	TP-48	SOIL		X	5/27/25	1220	6	X	X	X	X	X	X	X			E	
5.	TP-47	SOIL		X	5/27/25	1120	6	X	X	X	X	X	X	X			E	
6.	TP-50	SOIL		X	5/27/25	1330	6	X	X	X	X	X	X	X			E	
7.	TP-51	SOIL		X	5/27/25	1505	6	X	X	X	X	X	X	X			E	
8.	TP-52	SOIL		X	5/28/25	0850	6	X	X	X	X	X	X	X			E	
9.	TP-54	SOIL		X	5/28/25	1145	6	X	X	X	X	X	X	X			E	
10.	TP-53	SOIL		X	5/28/25	1425	6	X	X	X	X	X	X	X			F	

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>5/28/25 1350</u>	RECEIVED BY: 1. <u>[Signature]</u> <u>1550</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.5</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u>5-28-25</u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: _____
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>5-28-25</u>	RECEIVED BY: 3. <u>[Signature]</u>	Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2150	CAMP02	Order Date : 5/28/2025 3:53:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/28/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 18:45	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2150-01	TP-44	Solid	05/27/2025	08:20	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-02	TP-42	Solid	05/27/2025	09:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-03	TP-39	Solid	05/27/2025	09:50	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-04	TP-48	Solid	05/27/2025	12:20	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-05	TP-47	Solid	05/27/2025	11:20	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-06	TP-50	Solid	05/27/2025	13:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-07	TP-51	Solid	05/27/2025	15:05	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-08	TP-52	Solid	05/28/2025	08:50					

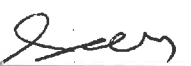
LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2150	CAMP02	Order Date : 5/28/2025 3:53:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/28/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 16:45	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2150-09	TP-54	Solid	05/28/2025	11:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2150-10	TP-53	Solid	05/28/2025	14:25	VOC-TCLVOA-10		8260D		10 Bus. Days
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : 

Date / Time : 5/29/25 0950

Received By : 

Date / Time : 5/29/25 0950

Storage Area : VOA Refridgerator Room

Ng # 6
fs 2