

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:	Q1370	OrderDate:	2/14/2025 9:17:00 AM
Client:	Chemtech Consulting Group	Project:	Weekly Storage Blanks
Contact:	QA Officer	Location:	D11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1370-11	PEST-GPC2-BLANK	SOIL	Pesticide-TCL	SFAM_PEST	02/14/25	02/17/25	03/03/25	02/14/25
Q1370-12	PEST-GPC2-BLANK-SP IKE	SOIL	Pesticide-TCL	SFAM_PEST	02/14/25	02/17/25	03/03/25	02/14/25
Q1370-13	PCB-GPC2-BLANK	SOIL	PCB	SFAM_PCB	02/14/25	02/17/25	02/24/25	02/14/25
Q1370-14	PCB-GPC2-BLANK-SPI KE	SOIL	PCB	SFAM_PCB	02/14/25	02/17/25	02/24/25	02/14/25

Hit Summary Sheet
SW-846

SDG No.: Q1370

Order ID: Q1370

Client: Chemtech Consulting Group

Project ID: Weekly Storage Blanks

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PEST-GPC2-BLANK-SPIKE								
Q1370-12	PEST-GPC2-BLANK· SOIL		gamma-BHC (Lindane)	17.0		0.48	5.10	ug/kg
Q1370-12	PEST-GPC2-BLANK· SOIL		Heptachlor	17.0		0.57	5.10	ug/kg
Q1370-12	PEST-GPC2-BLANK· SOIL		Aldrin	17.0		0.39	5.10	ug/kg
Q1370-12	PEST-GPC2-BLANK· SOIL		Dieldrin	35.0		0.45	9.90	ug/kg
Q1370-12	PEST-GPC2-BLANK· SOIL		Endrin	35.0		0.63	9.90	ug/kg
Q1370-12	PEST-GPC2-BLANK· SOIL		4,4-DDT	36.0		0.63	9.90	ug/kg
Total Concentration:				157.000				



QC SUMMARY

Surrogate Summary

SDG No.: Q1370

Client: Chemtech Consulting Group

Analytical Method: SFAM_PEST

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD087906.D	PIBLK-PD087906.D	TCX	1	20	0.23	113		30	150
		DCB	1	40	0.35	87		30	150
		TCX	2	20	0.23	113		30	150
		DCB	2	40	0.34	84		30	150
I.BLK-PD087932.D	PIBLK-PD087932.D	TCX	1	20	0.20	102		30	150
		DCB	1	40	0.31	77		30	150
		TCX	2	20	0.25	125		30	150
		DCB	2	40	0.34	86		30	150
Q1370-11	PEST-GPC2-BLANK	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
Q1370-12	PEST-GPC2-BLANK-SPIKE	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
I.BLK-PD087938.D	PIBLK-PD087938.D	TCX	1	20	0.21	103		30	150
		DCB	1	40	0.32	81		30	150
		TCX	2	20	0.24	122		30	150
		DCB	2	40	0.36	89		30	150



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1370
Lab Sample ID:	Q1370-11	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087934.D	1	02/17/25 10:32	03/03/25 13:46	PB166745

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.39	U	0.39	5.10	ug/kg
319-85-7	beta-BHC	0.39	U	0.39	5.10	ug/kg
319-86-8	delta-BHC	1.40	U	1.40	5.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.48	U	0.48	5.10	ug/kg
76-44-8	Heptachlor	0.57	U	0.57	5.10	ug/kg
309-00-2	Aldrin	0.39	U	0.39	5.10	ug/kg
1024-57-3	Heptachlor epoxide	0.42	U	0.42	5.10	ug/kg
959-98-8	Endosulfan I	0.39	U	0.39	5.10	ug/kg
60-57-1	Dieldrin	0.45	U	0.45	9.90	ug/kg
72-55-9	4,4-DDE	0.48	U	0.48	9.90	ug/kg
72-20-8	Endrin	0.63	U	0.63	9.90	ug/kg
33213-65-9	Endosulfan II	0.57	U	0.57	9.90	ug/kg
72-54-8	4,4-DDD	0.57	U	0.57	9.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.60	U	0.60	9.90	ug/kg
50-29-3	4,4-DDT	0.63	U	0.63	9.90	ug/kg
72-43-5	Methoxychlor	0.75	U	0.75	51.0	ug/kg
53494-70-5	Endrin ketone	0.45	U	0.45	9.90	ug/kg
7421-93-4	Endrin Aldehyde	0.54	U	0.54	9.90	ug/kg
5103-71-9	cis-Chlordane	0.39	U	0.39	5.10	ug/kg
5103-74-2	trans-Chlordane	0.39	U	0.39	5.10	ug/kg
8001-35-2	Toxaphene	24.0	U	24.0	510	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PEST-GPC2-BLANK	SDG No.:	Q1370
Lab Sample ID:	Q1370-11	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087934.D	1	02/17/25 10:32	03/03/25 13:46	PB166745

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_D\Data\PD030325\
Data File : PD087934.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 13:46
Operator : AR\AJ
Sample : Q1370-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEST-GPC2-BLANK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 14:36:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

Target Compounds

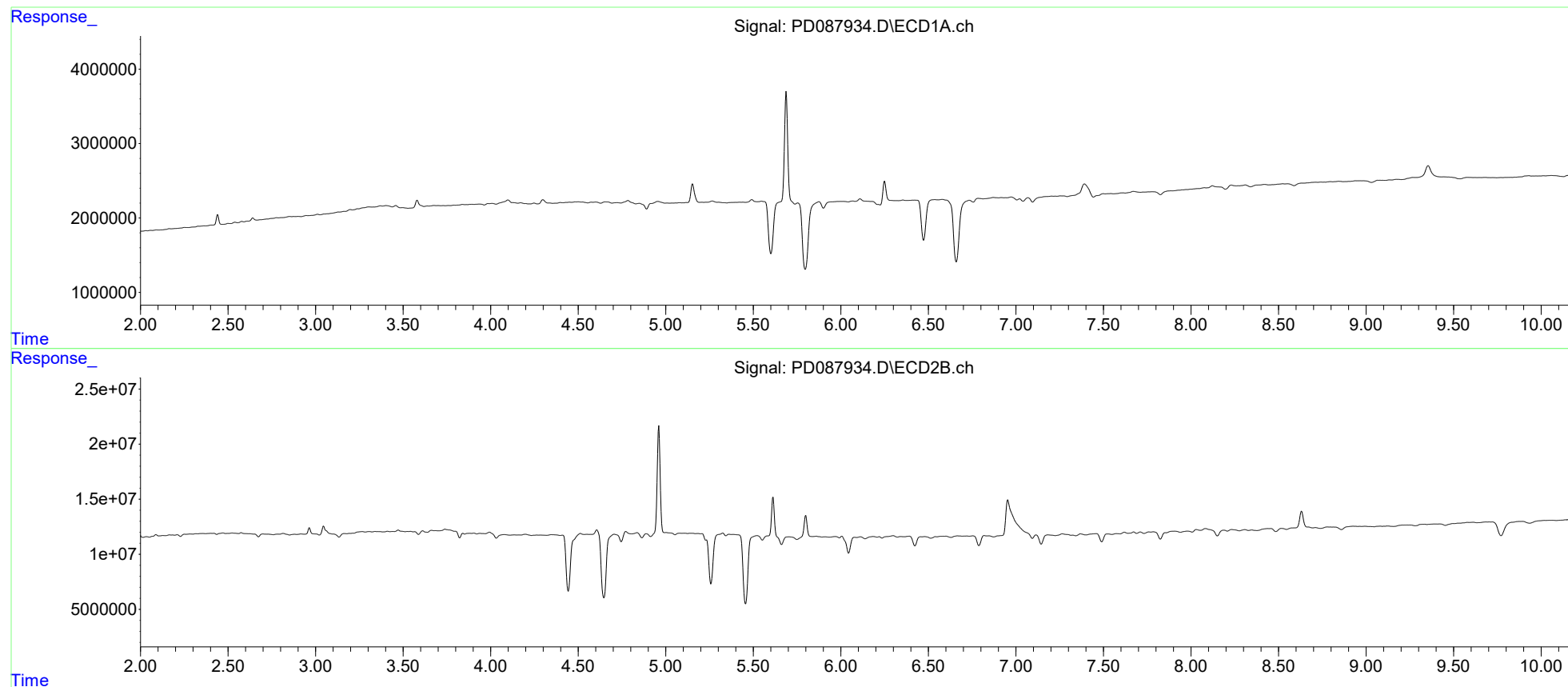
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087934.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 13:46
Operator : AR\AJ
Sample : Q1370-11
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampled :
PEST-GPC2-BLANK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 14:36:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1370
Lab Sample ID:	Q1370-12	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087935.D	1	02/17/25 10:32	03/03/25 14:41	PB166745

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.39	U	0.39	5.10	ug/kg
319-85-7	beta-BHC	0.39	U	0.39	5.10	ug/kg
319-86-8	delta-BHC	1.40	U	1.40	5.10	ug/kg
58-89-9	gamma-BHC (Lindane)	17.0		0.48	5.10	ug/kg
76-44-8	Heptachlor	17.0		0.57	5.10	ug/kg
309-00-2	Aldrin	17.0		0.39	5.10	ug/kg
1024-57-3	Heptachlor epoxide	0.42	U	0.42	5.10	ug/kg
959-98-8	Endosulfan I	0.39	U	0.39	5.10	ug/kg
60-57-1	Dieldrin	35.0		0.45	9.90	ug/kg
72-55-9	4,4-DDE	0.48	U	0.48	9.90	ug/kg
72-20-8	Endrin	35.0		0.63	9.90	ug/kg
33213-65-9	Endosulfan II	0.57	U	0.57	9.90	ug/kg
72-54-8	4,4-DDD	0.57	U	0.57	9.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.60	U	0.60	9.90	ug/kg
50-29-3	4,4-DDT	36.0		0.63	9.90	ug/kg
72-43-5	Methoxychlor	0.75	U	0.75	51.0	ug/kg
53494-70-5	Endrin ketone	0.45	U	0.45	9.90	ug/kg
7421-93-4	Endrin Aldehyde	0.54	U	0.54	9.90	ug/kg
5103-71-9	cis-Chlordane	0.39	U	0.39	5.10	ug/kg
5103-74-2	trans-Chlordane	0.39	U	0.39	5.10	ug/kg
8001-35-2	Toxaphene	24.0	U	24.0	510	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PEST-GPC2-BLANK-SPIKE	SDG No.:	Q1370
Lab Sample ID:	Q1370-12	Matrix:	SOIL
Analytical Method:	SFAM_PEST	% Solid:	100
Sample Wt/Vol:	10 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	2.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087935.D	1	02/17/25 10:32	03/03/25 14:41	PB166745

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_D\Data\PD030325\
 Data File : PD087935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 14:41
 Operator : AR\AJ
 Sample : Q1370-12
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEST-GPC2-BLANK-SPIKE

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 15:03:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

Target Compounds

3) MA	gamma-BHC...	4.341	3.734	70211626	389.6E6	17.119	20.232
4) MA	Heptachlor	4.941	4.088	68564358	382.4E6	17.034	19.246
5) MB	Aldrin	5.283	4.374	67466103	399.0E6	16.926	20.344
13) MA	Dieldrin	6.359	5.519	126.4E6	696.9E6	34.682	38.918
14) MA	Endrin	6.586	5.795	106.7E6	618.4E6	35.231	38.685
17) MA	4,4'-DDT	7.033	6.191	95617513	602.1E6	35.870	41.121

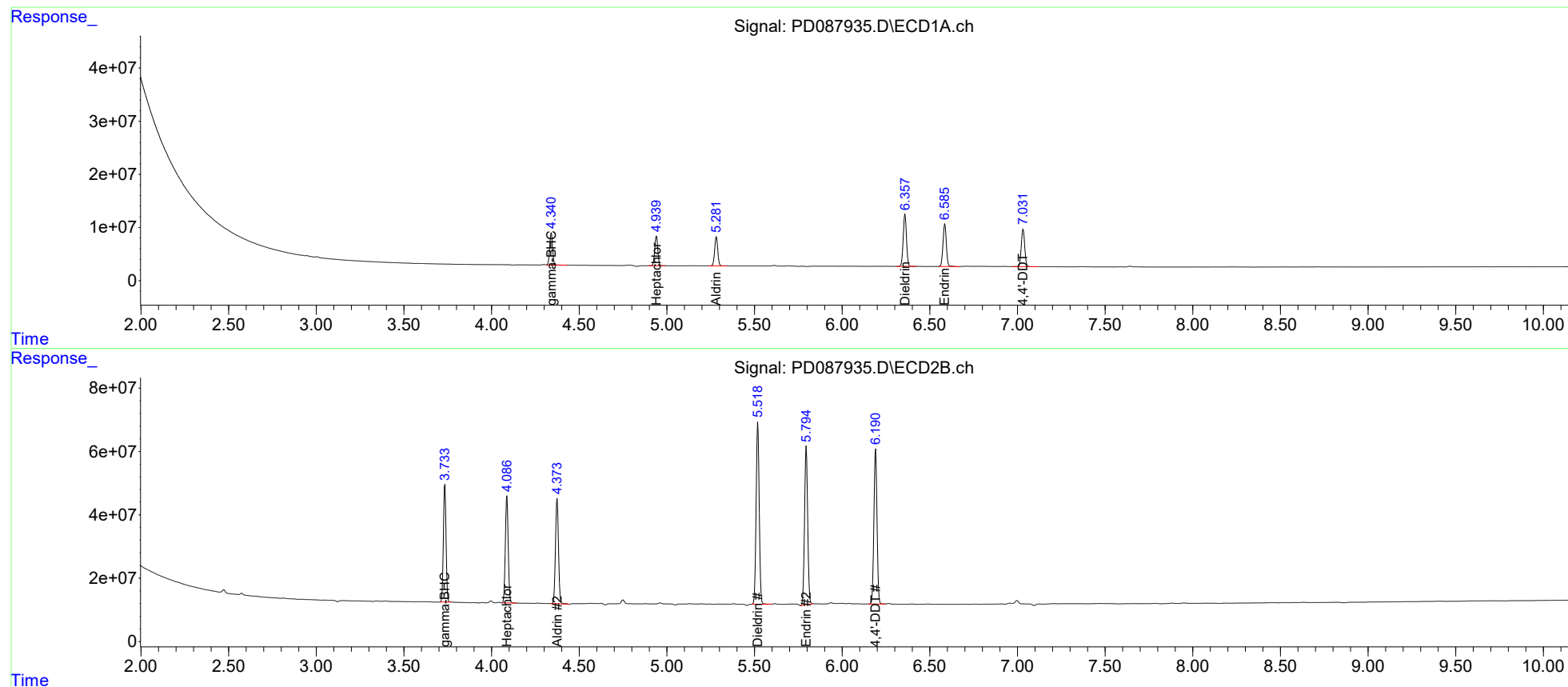
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087935.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 14:41
Operator : AR\AJ
Sample : Q1370-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampled :
PEST-GPC2-BLANK-SPIKE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 15:03:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm





CALIBRATION SUMMARY



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No.: CCAL01 Date Analyzed: 03/03/2025

Lab Sample No.: INDA318 Data File : PD087939.D Time Analyzed: 15:51

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.708	6.638	6.778	2568240.000	2257750.000	-12.1
4,4'-DDT	7.025	6.955	7.095	2665660.000	2348810.000	-11.9
alpha-BHC	4.002	3.952	4.052	4131350.000	3549620.000	-14.1
DCB	9.079	8.979	9.179	3294960.000	2949140.000	-10.5
Dieldrin	6.351	6.281	6.421	3644250.000	3257670.000	-10.6
Endosulfan I	6.078	6.008	6.148	3360700.000	2961680.000	-11.9
Endrin	6.578	6.508	6.648	3028440.000	2685380.000	-11.3
gamma-BHC (Lindane)	4.333	4.283	4.383	4101440.000	3510460.000	-14.4
Heptachlor	4.933	4.883	4.983	4025040.000	3528480.000	-12.3
Methoxychlor	7.497	7.427	7.567	1464130.000	1311540.000	-10.4
TCX	3.553	3.503	3.603	2086660.000	1760820.000	-15.6



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No.: CCAL01 Date Analyzed: 03/03/2025

Lab Sample No.: INDA318 Data File : PD087939.D Time Analyzed: 15:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.934	5.864	6.004	14429100.000	14262200.000	-1.2
4,4'-DDT	6.189	6.119	6.259	14643200.000	15008800.000	2.5
alpha-BHC	3.397	3.347	3.447	21057100.000	21319200.000	1.2
DCB	8.079	7.979	8.179	15809900.000	15636700.000	-1.1
Dieldrin	5.518	5.448	5.588	17907700.000	17982300.000	0.4
Endosulfan I	5.252	5.182	5.322	16918600.000	17017000.000	0.6
Endrin	5.794	5.724	5.864	15984600.000	15944300.000	-0.3
gamma-BHC (Lindane)	3.733	3.683	3.783	19255900.000	19680900.000	2.2
Heptachlor	4.087	4.037	4.137	19870200.000	19946500.000	0.4
Methoxychlor	6.759	6.689	6.829	6618460.000	6314390.000	-4.6
TCX	2.884	2.834	2.934	13450900.000	13572800.000	0.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
 Data File : PD087939.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 15:51
 Operator : AR\AJ
 Sample : INDA318
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 INDA3230

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 16:06:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.553	2.884	35216341	271.5E6	16.877	20.181
27)	SA Decachlor...	9.079	8.079	118.0E6	625.5E6	35.802	39.562
Target Compounds							
2)	A alpha-BHC	4.002	3.397	70992321	426.4E6	17.184	20.249
3)	MA gamma-BHC...	4.333	3.733	70209184	393.6E6	17.118	20.441
4)	MA Heptachlor	4.933	4.087	70569571	398.9E6	17.533	20.077
9)	A Endosulfan I	6.078	5.252	59233590	340.3E6	17.625	20.116
13)	MA Dieldrin	6.351	5.518	130.3E6	719.3E6	35.757	40.167
14)	MA Endrin	6.578	5.794	107.4E6	637.8E6	35.469	39.899
16)	A 4,4'-DDD	6.708	5.934	90309935	570.5E6	35.164	39.537
17)	MA 4,4'-DDT	7.025	6.189	93952407	600.4E6	35.245	40.999
20)	A Methoxychlor	7.497	6.759	262.3E6	1262.9E6	179.157	190.812

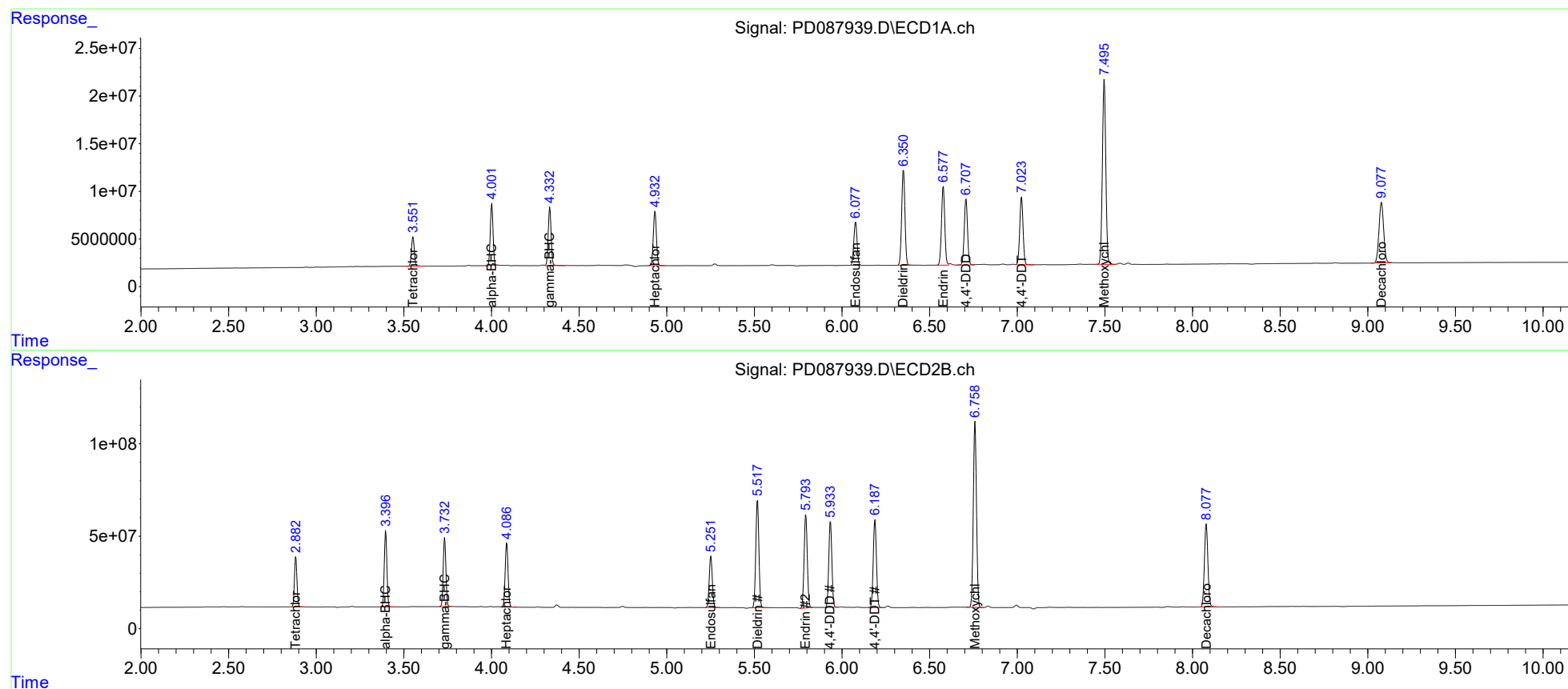
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087939.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 15:51
Operator : AR\AJ
Sample : INDA318
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
ECD_D
Client Sampled :
INDA3230

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 16:06:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No.: CCAL02 Date Analyzed: 03/03/2025

Lab Sample No.: INDB318 Data File : PD087940.D Time Analyzed: 16:05

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	6.200	6.130	6.270	3406110.000	3112640.000	-8.6
Aldrin	5.276	5.226	5.326	3985850.000	3561110.000	-10.7
beta-BHC	4.518	4.468	4.568	1752110.000	1586120.000	-9.5
cis-Chlordane	6.031	5.961	6.101	3644450.000	3303630.000	-9.4
DCB	9.079	8.979	9.179	3294960.000	3094270.000	-6.1
delta-BHC	4.766	4.716	4.816	4084440.000	3680140.000	-9.9
Endosulfan II	6.790	6.720	6.860	3152050.000	2901300.000	-8.0
Endosulfan sulfate	7.153	7.083	7.223	2912810.000	2676610.000	-8.1
Endrin aldehyde	6.919	6.849	6.989	2372520.000	2209090.000	-6.9
Endrin ketone	7.634	7.564	7.704	3198110.000	2970630.000	-7.1
Heptachlor epoxide	5.695	5.625	5.765	3686560.000	3388980.000	-8.1
TCX	3.553	3.503	3.603	2086660.000	1906010.000	-8.7
trans-Chlordane	5.950	5.880	6.020	3633010.000	3236650.000	-10.9



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No.: CCAL02 Date Analyzed: 03/03/2025

Lab Sample No.: INDB318 Data File : PD087940.D Time Analyzed: 16:05

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDE	5.381	5.311	5.451	17748400.000	18439500.000	3.9
Aldrin	4.374	4.324	4.424	19611500.000	20776200.000	5.9
beta-BHC	4.030	3.980	4.080	8910290.000	9497160.000	6.6
cis-Chlordane	5.196	5.126	5.266	18492300.000	19513000.000	5.5
DCB	8.080	7.980	8.180	15809900.000	16372400.000	3.6
delta-BHC	4.266	4.216	4.316	20135400.000	21151100.000	5.0
Endosulfan II	6.086	6.016	6.156	15828700.000	16607100.000	4.9
Endosulfan sulfate	6.488	6.418	6.558	15611500.000	16227100.000	3.9
Endrin aldehyde	6.264	6.194	6.334	12445700.000	13003800.000	4.5
Endrin ketone	6.997	6.927	7.067	16825800.000	17655300.000	4.9
Heptachlor epoxide	4.878	4.808	4.948	18226400.000	19068400.000	4.6
TCX	2.884	2.834	2.934	13450900.000	14739100.000	9.6
trans-Chlordane	5.131	5.061	5.201	19167800.000	20169700.000	5.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
 Data File : PD087940.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 16:05
 Operator : AR\AJ
 Sample : INDB318
 Misc :
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 INDB3231

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 16:17:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.553	2.884	38120158	294.8E6	18.269	21.915
2)	SA Decachlor...	9.079	8.080	123.8E6	654.9E6	37.564	41.423
Target Compounds							
5)	MB Aldrin	5.276	4.374	71222218	415.5E6	17.869	21.188
6)	B beta-BHC	4.518	4.030	31722305	189.9E6	18.105	21.317
7)	B delta-BHC	4.766	4.266	73602887	423.0E6	18.020	21.009
8)	B Heptachlo...	5.695	4.878	67779591	381.4E6	18.386	20.924
10)	B trans-Chl...	5.950	5.131	64732996	403.4E6	17.818	21.045
11)	B cis-Chlor...	6.031	5.196	66072572	390.3E6	18.130	21.104
12)	B 4,4'-DDE	6.200	5.381	124.5E6	737.6E6	36.554	41.558
15)	B Endosulfa...	6.790	6.086	116.1E6	664.3E6	36.818	41.967
18)	B Endrin al...	6.919	6.264	88363532	520.2E6	37.245	41.794
19)	B Endosulfa...	7.153	6.488	107.1E6	649.1E6	36.756	41.577
21)	B Endrin ke...	7.634	6.997	118.8E6	706.2E6	37.155	41.972

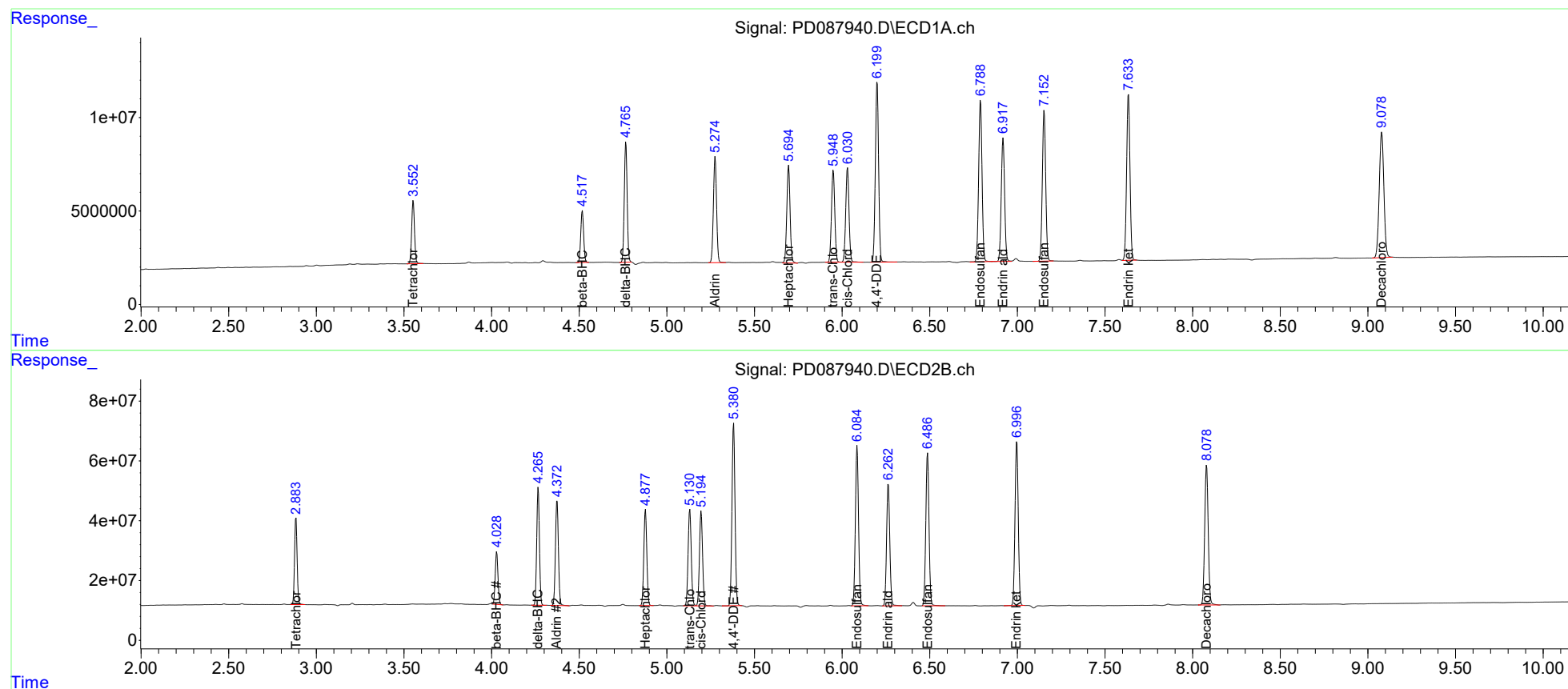
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087940.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 16:05
Operator : AR\AJ
Sample : INDB318
Misc :
ALS Vial : 100 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
INDB3231

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 16:17:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087890.D Date Analyzed: 02/18/2025

Lab Sample No.(PEM): PEM067 Time Analyzed: 09:42

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	4.001	3.950	4.050	9.930	10.000	-0.7
beta-BHC	4.518	4.470	4.570	10.040	10.000	0.4
gamma-BHC (Lindane)	4.334	4.280	4.380	10.050	10.000	0.5
Endrin	6.579	6.510	6.650	47.780	50.000	-4.4
4,4'-DDT	7.025	6.950	7.100	106.420	100.000	6.4
Methoxychlor	7.497	7.430	7.570	252.270	250.000	0.9
TCX	3.553	3.500	3.600	20.720	20.000	3.6
DCB	9.079	8.980	9.180	21.400	20.000	7.0

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087890.D Date Analyzed: 02/18/2025

Lab Sample No.(PEM): PEM067 Time Analyzed: 09:42

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	3.398	3.350	3.450	10.790	10.000	7.9
beta-BHC	4.030	3.980	4.080	10.600	10.000	6.0
gamma-BHC (Lindane)	3.734	3.680	3.780	10.690	10.000	6.9
Endrin	5.795	5.720	5.870	46.650	50.000	-6.7
4,4'-DDT	6.190	6.120	6.260	97.300	100.000	-2.7
Methoxychlor	6.761	6.690	6.830	237.570	250.000	-5.0
TCX	2.884	2.830	2.930	20.880	20.000	4.4
DCB	8.081	7.980	8.180	21.870	20.000	9.4

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087907.D Date Analyzed: 02/18/2025

Lab Sample No.(PEM): PEM068 Time Analyzed: 13:34

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	4.001	3.950	4.050	10.460	10.000	4.6
beta-BHC	4.518	4.470	4.570	10.670	10.000	6.7
gamma-BHC (Lindane)	4.334	4.280	4.380	10.630	10.000	6.3
Endrin	6.579	6.510	6.650	50.870	50.000	1.7
4,4'-DDT	7.025	6.950	7.100	112.420	100.000	12.4
Methoxychlor	7.497	7.430	7.570	265.780	250.000	6.3
TCX	3.553	3.500	3.600	21.760	20.000	8.8
DCB	9.079	8.980	9.180	22.820	20.000	14.1

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087907.D Date Analyzed: 02/18/2025

Lab Sample No.(PEM): PEM068 Time Analyzed: 13:34

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
alpha-BHC	3.397	3.350	3.450	11.320	10.000	13.2
beta-BHC	4.029	3.980	4.080	11.070	10.000	10.7
gamma-BHC (Lindane)	3.734	3.680	3.780	11.200	10.000	12.0
Endrin	5.795	5.720	5.870	49.770	50.000	-0.5
4,4'-DDT	6.190	6.120	6.260	103.160	100.000	3.2
Methoxychlor	6.761	6.690	6.830	262.130	250.000	4.9
TCX	2.884	2.830	2.930	21.720	20.000	8.6
DCB	8.080	7.980	8.180	22.860	20.000	14.3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087933.D Date Analyzed: 03/03/2025

Lab Sample No.(PEM): PEM071 Time Analyzed: 13:30

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
alpha-BHC	4.001	3.950	4.050	8.530	10.000	-14.7
beta-BHC	4.517	4.470	4.570	8.860	10.000	-11.4
gamma-BHC (Lindane)	4.332	4.280	4.380	8.810	10.000	-11.9
Endrin	6.577	6.510	6.650	42.980	50.000	-14.0
4,4'-DDT	7.024	6.950	7.090	95.750	100.000	-4.3
Methoxychlor	7.496	7.430	7.570	223.830	250.000	-10.5
TCX	3.552	3.500	3.600	17.600	20.000	-12.0
DCB	9.077	8.980	9.180	18.590	20.000	-7.1

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/18/2025 02/18/2025

Client Sample No. (PEM): PEM - PD087933.D Date Analyzed: 03/03/2025

Lab Sample No.(PEM): PEM071 Time Analyzed: 13:30

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
alpha-BHC	3.396	3.350	3.450	11.200	10.000	12.0
beta-BHC	4.028	3.980	4.080	10.960	10.000	9.6
gamma-BHC (Lindane)	3.732	3.680	3.780	11.120	10.000	11.2
Endrin	5.793	5.720	5.860	46.600	50.000	-6.8
4,4'-DDT	6.188	6.120	6.260	96.690	100.000	-3.3
Methoxychlor	6.759	6.690	6.830	215.630	250.000	-13.7
TCX	2.883	2.830	2.930	21.460	20.000	7.3
DCB	8.078	7.980	8.180	21.750	20.000	8.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
 Data File : PD087933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 13:30
 Operator : AR\AJ
 Sample : PEM071
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM054

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 14:16:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	36720898	288.7E6	17.598	21.462
2)	SA Decachlor...	9.077	8.078	61248828	343.8E6	18.589	21.745
Target Compounds							
2)	A alpha-BHC	4.001	3.396	35247324	235.9E6	8.532	11.202 #
3)	MA gamma-BHC...	4.332	3.732	36121791	214.2E6	8.807	11.121 #
6)	B beta-BHC	4.517	4.028	15525112	97681671	8.861	10.963
14)	MA Endrin	6.577	5.793	130.2E6	744.8E6	42.981	46.596
16)	A 4,4'-DDD	6.708	5.935	2264032	9030054	0.882	0.626 #
17)	MA 4,4'-DDT	7.024	6.188	255.2E6	1415.8E6	95.747	96.686
18)	B Endrin al...	6.918	6.262	3234012	25706304	1.363	2.065 #
20)	A Methoxychlor	7.496	6.759	327.7E6	1427.1E6	223.829	215.628
21)	B Endrin ke...	7.633	6.995	5595702	45073577	1.750	2.679 #

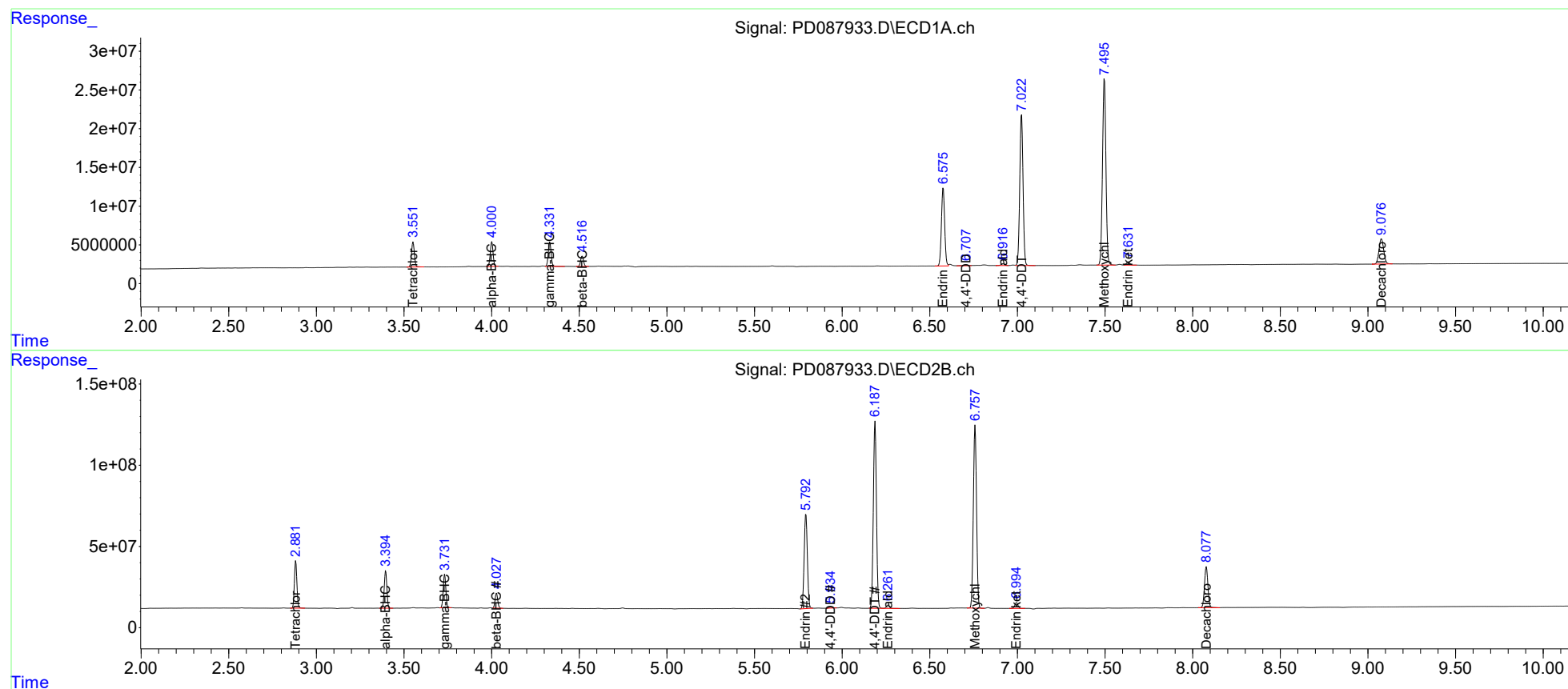
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087933.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 13:30
Operator : AR\AJ
Sample : PEM071
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM054

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 14:16:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm



Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: Q1370

Project: Weekly Storage Blanks

Instrument ID: ECD_D

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/18/2025 02/18/2025

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 #
RESC013	RESC058	02/18/2025	09:29	PD087889.D	9.08	3.55
PEM052	PEM067	02/18/2025	09:42	PD087890.D	9.08	3.55
PIBLK486	PIBLK134	02/18/2025	13:20	PD087906.D	9.08	3.55
PEM053	PEM068	02/18/2025	13:34	PD087907.D	9.08	3.55
PIBLK487	PIBLK136	03/03/2025	13:16	PD087932.D	9.08	3.55
PEM054	PEM071	03/03/2025	13:30	PD087933.D	9.08	3.55
PEST-GPC2-BLANK	Q1370-11	03/03/2025	13:46	PD087934.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1370-12	03/03/2025	14:41	PD087935.D	0.00	0.00
PIBLK488	PIBLK137	03/03/2025	15:38	PD087938.D	9.08	3.55
CCAL01	INDA318	03/03/2025	15:51	PD087939.D	9.08	3.55
CCAL01	INDB318	03/03/2025	16:05	PD087940.D	9.08	3.55

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: Q1370

Project: Weekly Storage Blanks

Instrument ID: ECD_D

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/18/2025 02/18/2025

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 #
RESC013	RESC058	02/18/2025	09:29	PD087889.D	8.08	2.88
PEM052	PEM067	02/18/2025	09:42	PD087890.D	8.08	2.88
PIBLK486	PIBLK134	02/18/2025	13:20	PD087906.D	8.08	2.88
PEM053	PEM068	02/18/2025	13:34	PD087907.D	8.08	2.88
PIBLK487	PIBLK136	03/03/2025	13:16	PD087932.D	8.08	2.88
PEM054	PEM071	03/03/2025	13:30	PD087933.D	8.08	2.88
PEST-GPC2-BLANK	Q1370-11	03/03/2025	13:46	PD087934.D	0.00	0.00
PEST-GPC2-BLANK-SPIKE	Q1370-12	03/03/2025	14:41	PD087935.D	0.00	0.00
PIBLK488	PIBLK137	03/03/2025	15:38	PD087938.D	8.08	2.88
CCAL01	INDA318	03/03/2025	15:51	PD087939.D	8.08	2.88
CCAL01	INDB318	03/03/2025	16:05	PD087940.D	8.08	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PEST-GPC2-BLANK-SPIKE

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370

SAS No.: Q1370 SDG NO.: Q1370

Lab Sample ID: Q1370-12

Date(s) Analyzed: 03/03/2025 03/03/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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'-DDT	1	7.03	6.98	7.08	36.0	14.6
	2	6.19	6.14	6.24	41.0	
Aldrin	1	5.28	5.23	5.33	17.0	20.1
	2	4.37	4.32	4.42	20.0	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	17.0	18.2
	2	3.73	3.68	3.78	20.0	
Heptachlor	1	4.94	4.89	4.99	17.0	13
	2	4.09	4.04	4.14	19.0	
Dieldrin	1	6.36	6.31	6.41	35.0	12.2
	2	5.52	5.47	5.57	39.0	
Endrin	1	6.59	6.54	6.64	35.0	9.8
	2	5.80	5.75	5.85	39.0	



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	03/03/25
Project:	Weekly Storage Blanks	Date Received:	03/03/25
Client Sample ID:	PIBLK-PD087932.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PD087932.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% 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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087932.D	1		03/03/25	PD030325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0055	U	0.0055	0.050	ug/L
319-85-7	beta-BHC	0.0054	U	0.0054	0.050	ug/L
319-86-8	delta-BHC	0.0099	U	0.0099	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0059	U	0.0059	0.050	ug/L
76-44-8	Heptachlor	0.0053	U	0.0053	0.050	ug/L
309-00-2	Aldrin	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0053	U	0.0053	0.050	ug/L
959-98-8	Endosulfan I	0.0058	U	0.0058	0.050	ug/L
60-57-1	Dieldrin	0.0056	U	0.0056	0.10	ug/L
72-55-9	4,4-DDE	0.0061	U	0.0061	0.10	ug/L
72-20-8	Endrin	0.0066	U	0.0066	0.10	ug/L
33213-65-9	Endosulfan II	0.0069	U	0.0069	0.10	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.10	ug/L
1031-07-8	Endosulfan Sulfate	0.0060	U	0.0060	0.10	ug/L
50-29-3	4,4-DDT	0.0057	U	0.0057	0.10	ug/L
72-43-5	Methoxychlor	0.0069	U	0.0069	0.50	ug/L
53494-70-5	Endrin ketone	0.0061	U	0.0061	0.10	ug/L
7421-93-4	Endrin Aldehyde	0.0064	U	0.0064	0.10	ug/L
5103-71-9	cis-Chlordane	0.0059	U	0.0059	0.050	ug/L
5103-74-2	trans-Chlordane	0.0054	U	0.0054	0.050	ug/L
8001-35-2	Toxaphene	0.23	U	0.23	5.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.20		30 - 150	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.31		30 - 150	77%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	03/03/25
Project:	Weekly Storage Blanks	Date Received:	03/03/25
Client Sample ID:	PIBLK-PD087932.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PD087932.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087932.D	1		03/03/25	PD030325

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_D\Data\PD030325\
 Data File : PD087932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 13:16
 Operator : AR\AJ
 Sample : PIBLK136
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PIBLK487

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 14:15:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.552	2.883	42716693	335.2E6	20.471	24.920
27) SA Decachlor...	9.078	8.078	101.5E6	541.7E6	30.793	34.264

Target Compounds

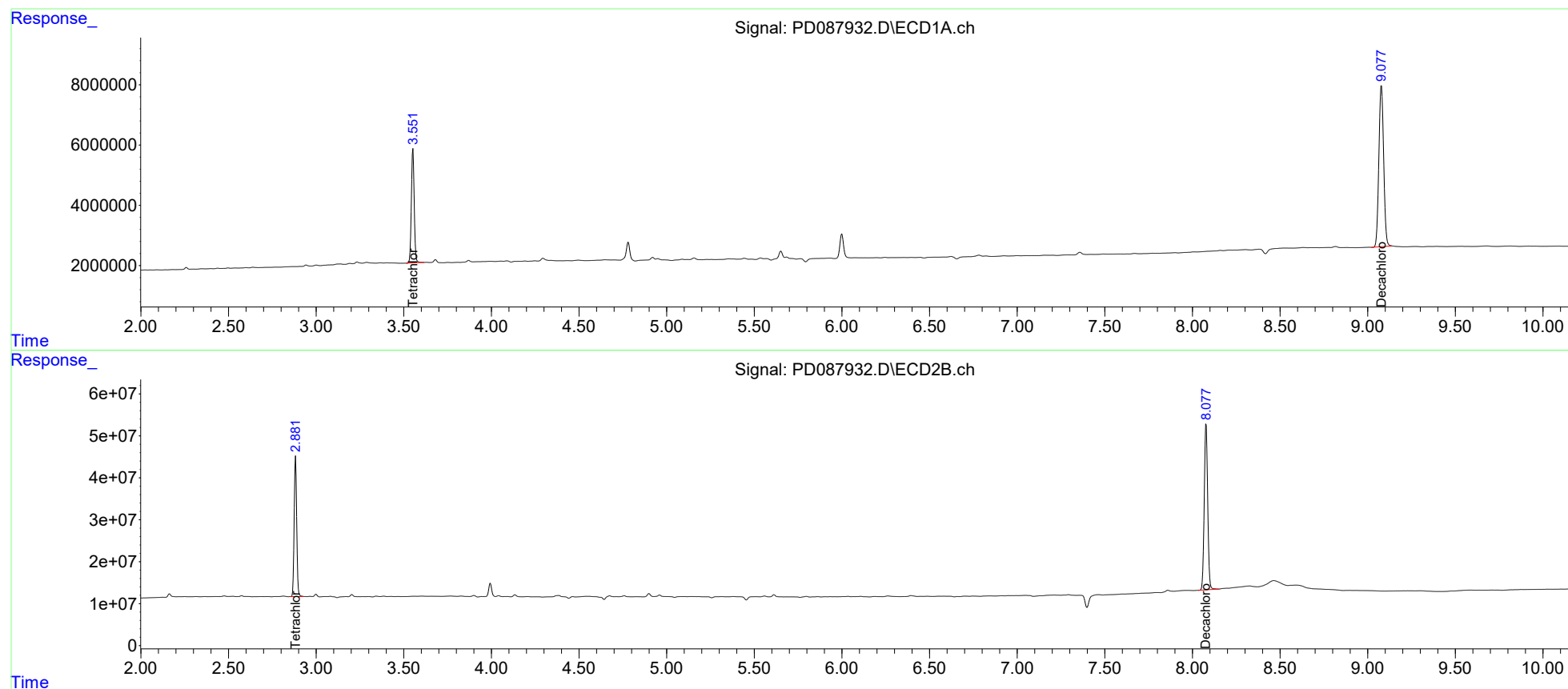
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087932.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 13:16
Operator : AR\AJ
Sample : PIBLK136
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PIBLK487

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 14:15:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	03/03/25	
Project:	Weekly Storage Blanks			Date Received:	03/03/25	
Client Sample ID:	PIBLK-PD087938.D			SDG No.:	Q1370	
Lab Sample ID:	I.BLK-PD087938.D			Matrix:	WATER	
Analytical Method:	SFAM_PEST			% 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 :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087938.D	1		03/03/25	PD030325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0055	U	0.0055	0.050	ug/L
319-85-7	beta-BHC	0.0054	U	0.0054	0.050	ug/L
319-86-8	delta-BHC	0.0099	U	0.0099	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0059	U	0.0059	0.050	ug/L
76-44-8	Heptachlor	0.0053	U	0.0053	0.050	ug/L
309-00-2	Aldrin	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0053	U	0.0053	0.050	ug/L
959-98-8	Endosulfan I	0.0058	U	0.0058	0.050	ug/L
60-57-1	Dieldrin	0.0056	U	0.0056	0.10	ug/L
72-55-9	4,4-DDE	0.0061	U	0.0061	0.10	ug/L
72-20-8	Endrin	0.0066	U	0.0066	0.10	ug/L
33213-65-9	Endosulfan II	0.0069	U	0.0069	0.10	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.10	ug/L
1031-07-8	Endosulfan Sulfate	0.0060	U	0.0060	0.10	ug/L
50-29-3	4,4-DDT	0.0057	U	0.0057	0.10	ug/L
72-43-5	Methoxychlor	0.0069	U	0.0069	0.50	ug/L
53494-70-5	Endrin ketone	0.0061	U	0.0061	0.10	ug/L
7421-93-4	Endrin Aldehyde	0.0064	U	0.0064	0.10	ug/L
5103-71-9	cis-Chlordane	0.0059	U	0.0059	0.050	ug/L
5103-74-2	trans-Chlordane	0.0054	U	0.0054	0.050	ug/L
8001-35-2	Toxaphene	0.23	U	0.23	5.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.21		30 - 150	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.32		30 - 150	81%	SPK: 40

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	03/03/25
Project:	Weekly Storage Blanks	Date Received:	03/03/25
Client Sample ID:	PIBLK-PD087938.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PD087938.D	Matrix:	WATER
Analytical Method:	SFAM_PEST	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087938.D	1		03/03/25	PD030325

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_D\Data\PD030325\
 Data File : PD087938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Mar 2025 15:38
 Operator : AR\AJ
 Sample : PIBLK137
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PIBLK488

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 15:52:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
 Quant Title : GC Extractables
 QLast Update : Mon Feb 24 15:08:04 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 x 0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.553	2.884	43028903	329.4E6	20.621	24.493
27) SA Decachlor...	9.078	8.079	106.6E6	565.4E6	32.342	35.764

Target Compounds

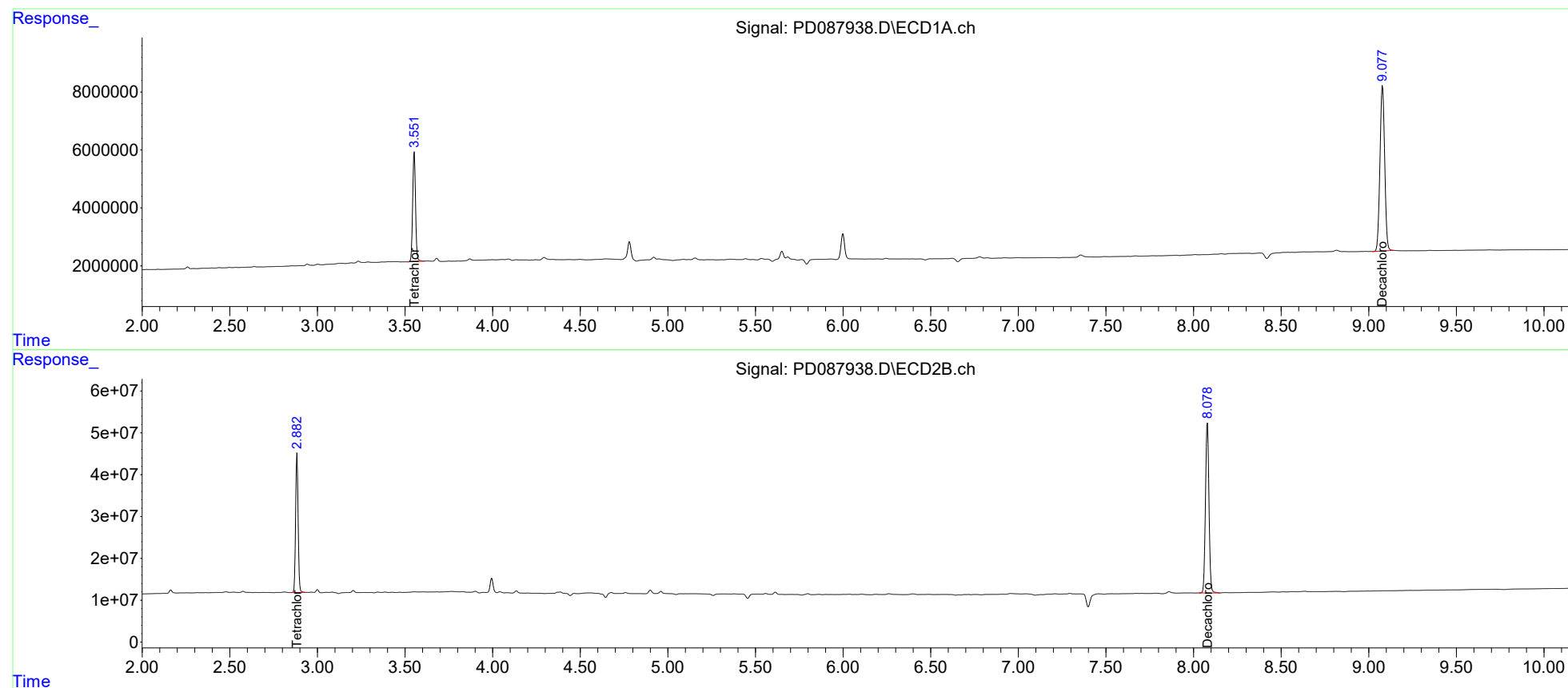
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD030325\
Data File : PD087938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Mar 2025 15:38
Operator : AR\AJ
Sample : PIBLK137
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PIBLK488

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 15:52:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD021825CLP.M
Quant Title : GC Extractables
QLast Update : Mon Feb 24 15:08:04 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PD021825	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM067	PD087890.D	alpha-BHC	Abdul	2/26/2025 12:00:39 PM	Ankita	2/26/2025 12:33:03	Peak Integrated by Software
TOXAPH101	PD087891.D	Toxaphene-1 #2	Abdul	2/26/2025 12:00:42 PM	Ankita	2/26/2025 12:33:04	Peak Integrated by Software
PEM068	PD087907.D	alpha-BHC	Abdul	2/26/2025 12:00:56 PM	Ankita	2/26/2025 12:33:06	Peak Integrated by Software



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

Manual Integration Report

Sequence:

PD030325

Instrument

ECD_d

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD021825

Review By	Abdul	Review On	2/26/2025 12:01:13 PM
Supervise By	Ankita	Supervise On	2/26/2025 12:33:10 PM
SubDirectory	PD021825	HP Acquire Method	HP Processing Method pd021825clp
STD. NAME	STD REF.#		
Tune/Reschk	PP23732,PP23975		
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720		
CCC	PP23716,PP23722,PP23729		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD087888.D	18 Feb 2025 09:15	AR\AJ	Ok
2	RESC058	PD087889.D	18 Feb 2025 09:29	AR\AJ	Ok
3	PEM067	PD087890.D	18 Feb 2025 09:42	AR\AJ	Ok,M
4	TOXAPH101	PD087891.D	18 Feb 2025 09:56	AR\AJ	Ok,M
5	TOXAPH201	PD087892.D	18 Feb 2025 10:10	AR\AJ	Ok
6	TOXAPH301	PD087893.D	18 Feb 2025 10:23	AR\AJ	Ok
7	TOXAPH401	PD087894.D	18 Feb 2025 10:37	AR\AJ	Ok
8	TOXAPH501	PD087895.D	18 Feb 2025 10:51	AR\AJ	Ok
9	INDA101	PD087896.D	18 Feb 2025 11:04	AR\AJ	Ok
10	INDB101	PD087897.D	18 Feb 2025 11:18	AR\AJ	Ok
11	INDA201	PD087898.D	18 Feb 2025 11:31	AR\AJ	Ok
12	INDB201	PD087899.D	18 Feb 2025 11:45	AR\AJ	Ok
13	INDA301	PD087900.D	18 Feb 2025 11:59	AR\AJ	Ok
14	INDB301	PD087901.D	18 Feb 2025 12:12	AR\AJ	Ok
15	INDA401	PD087902.D	18 Feb 2025 12:26	AR\AJ	Ok
16	INDB401	PD087903.D	18 Feb 2025 12:39	AR\AJ	Ok
17	INDA501	PD087904.D	18 Feb 2025 12:53	AR\AJ	Ok
18	INDB501	PD087905.D	18 Feb 2025 13:07	AR\AJ	Ok
19	PIBLK134	PD087906.D	18 Feb 2025 13:20	AR\AJ	Ok
20	PEM068	PD087907.D	18 Feb 2025 13:34	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD030325

Review By	Review On
Supervise By	Supervise On
SubDirectory PD030325	HP Acquire Method HP Processing Method pd021825clp
STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD087931.D	03 Mar 2025 13:02	AR\AJ	Ok
2	PIBLK136	PD087932.D	03 Mar 2025 13:16	AR\AJ	Ok
3	PEM071	PD087933.D	03 Mar 2025 13:30	AR\AJ	Ok
4	Q1370-11	PD087934.D	03 Mar 2025 13:46	AR\AJ	Ok
5	Q1370-12	PD087935.D	03 Mar 2025 14:41	AR\AJ	Ok
6	Q1403-11	PD087936.D	03 Mar 2025 15:10	AR\AJ	Ok
7	Q1403-12	PD087937.D	03 Mar 2025 15:24	AR\AJ	Ok
8	PIBLK137	PD087938.D	03 Mar 2025 15:38	AR\AJ	Ok
9	INDA318	PD087939.D	03 Mar 2025 15:51	AR\AJ	Ok
10	INDB318	PD087940.D	03 Mar 2025 16:05	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD021825

Review By	Abdul	Review On	2/26/2025 12:01:13 PM
Supervise By	Ankita	Supervise On	2/26/2025 12:33:10 PM
SubDirectory	PD021825	HP Acquire Method	HP Processing Method pd021825clp

STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD087888.D	18 Feb 2025 09:15		AR\AJ	Ok
2	RESC058	RESC013	PD087889.D	18 Feb 2025 09:29		AR\AJ	Ok
3	PEM067	PEM052	PD087890.D	18 Feb 2025 09:42		AR\AJ	Ok,M
4	TOXAPH101	TOXAPH1075	PD087891.D	18 Feb 2025 09:56		AR\AJ	Ok,M
5	TOXAPH201	TOXAPH2076	PD087892.D	18 Feb 2025 10:10		AR\AJ	Ok
6	TOXAPH301	TOXAPH3077	PD087893.D	18 Feb 2025 10:23		AR\AJ	Ok
7	TOXAPH401	TOXAPH4078	PD087894.D	18 Feb 2025 10:37		AR\AJ	Ok
8	TOXAPH501	TOXAPH5079	PD087895.D	18 Feb 2025 10:51		AR\AJ	Ok
9	INDA101	INDA1080	PD087896.D	18 Feb 2025 11:04		AR\AJ	Ok
10	INDB101	INDB1081	PD087897.D	18 Feb 2025 11:18		AR\AJ	Ok
11	INDA201	INDA2082	PD087898.D	18 Feb 2025 11:31		AR\AJ	Ok
12	INDB201	INDB2083	PD087899.D	18 Feb 2025 11:45		AR\AJ	Ok
13	INDA301	INDA3084	PD087900.D	18 Feb 2025 11:59		AR\AJ	Ok
14	INDB301	INDB3085	PD087901.D	18 Feb 2025 12:12		AR\AJ	Ok
15	INDA401	INDA4086	PD087902.D	18 Feb 2025 12:26		AR\AJ	Ok
16	INDB401	INDB4087	PD087903.D	18 Feb 2025 12:39		AR\AJ	Ok
17	INDA501	INDA5088	PD087904.D	18 Feb 2025 12:53		AR\AJ	Ok
18	INDB501	INDB5089	PD087905.D	18 Feb 2025 13:07		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD021825

Review By	Abdul	Review On	2/26/2025 12:01:13 PM
Supervise By	Ankita	Supervise On	2/26/2025 12:33:10 PM
SubDirectory	PD021825	HP Acquire Method	HP Processing Method pd021825clp

STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PIBLK134	PIBLK486	PD087906.D	18 Feb 2025 13:20		AR\AJ	Ok
20	PEM068	PEM053	PD087907.D	18 Feb 2025 13:34		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD030325

Review By	Review On
Supervise By	Supervise On
SubDirectory	PD030325
HP Acquire Method	HP Processing Method
	pd021825clp
STD. NAME	STD REF.#
Tune/Reschk	PP23732,PP23975
Initial Calibration Stds	PP23731,PP23730,PP23729,PP23728,PP23727,PP23718,PP23724,PP23717,PP23723,PP23716,PP23722,PP23715,PP23721,PP23714,PP23720
CCC	PP23716,PP23722,PP23729
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD087931.D	03 Mar 2025 13:02		AR\AJ	Ok
2	PIBLK136	PIBLK487	PD087932.D	03 Mar 2025 13:16		AR\AJ	Ok
3	PEM071	PEM054	PD087933.D	03 Mar 2025 13:30		AR\AJ	Ok
4	Q1370-11	PEST-GPC2-BLANK	PD087934.D	03 Mar 2025 13:46		AR\AJ	Ok
5	Q1370-12	PEST-GPC2-BLANK-S	PD087935.D	03 Mar 2025 14:41		AR\AJ	Ok
6	Q1403-11	PEST-GPC2-BLANK	PD087936.D	03 Mar 2025 15:10		AR\AJ	Ok
7	Q1403-12	PEST-GPC2-BLANK-S	PD087937.D	03 Mar 2025 15:24		AR\AJ	Ok
8	PIBLK137	PIBLK488	PD087938.D	03 Mar 2025 15:38		AR\AJ	Ok
9	INDA318	INDA3230	PD087939.D	03 Mar 2025 15:51		AR\AJ	Ok
10	INDB318	INDB3231	PD087940.D	03 Mar 2025 16:05		AR\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 2/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 02/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134723

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
Q1370-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1370-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1370-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1370-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1370-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1370-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1370-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1370-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1370-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1370-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1372-01	AU-05-021425	11	1.16	8.56	9.72	8.64	87.4	
Q1372-02	AU-05-021425	12	1.15	8.67	9.82	8.78	88.0	
Q1373-01	VB27161	13	1.19	8.48	9.67	5.93	55.9	
Q1373-02	VDR25992	14	1.14	8.76	9.9	6.24	58.2	
Q1374-01	TR-05-02142025	15	1.12	8.71	9.83	9.1	91.6	
Q1374-02	TR-05-02142025-E2	16	1.16	8.82	9.98	9.5	94.6	

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

WORKLIST(Hardcopy Internal Chain)

134723

WorkList Name : %1-021425 WorkList ID : 187705 Department : Wet-Chemistry Date : 02-14-2025 07:56:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1370-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1372-01	AU-05-021425	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1372-02	AU-05-021425	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1373-01	VB27161	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/14/2025	Chemtech -SO
Q1373-02	VDR25992	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/14/2025	Chemtech -SO
Q1374-01	TR-05-02142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1374-02	TR-05-02142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO

Date/Time 02/14/25 15:45
 Raw Sample Received by: SP CWC
 Raw Sample Relinquished by: SP CWC

Date/Time 02/14/25 17:10
 Raw Sample Received by: SP CWC
 Raw Sample Relinquished by: SP CWC

SOP ID: M3620C-Florisil cleanup-6, M3640A-GPC cleanup-6

Clean Up SOP #: GPC Cleanup, Florisil

Extraction Start Date : 02/17/2025

Matrix : Solid

Extraction Start Time : 10:32

Weigh By: N/A

Extraction By: N/A

Extraction End Date : 02/18/2025

Balance check: N/A

Filter By: N/A

Extraction End Time : 09:20

Balance ID: N/A

pH Meter ID: N/A

Concentration By: RS

pH Strip Lot#: N/A

Hood ID: 6,7

Supervisor By : rajesh

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
GPC Pest Spike	10.0ML	20/40 PPB	PP24060
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

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Hexane	N/A	E3877
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

No Extraction only GPC Check prepared.

KD Bath ID: WATER BATH-1

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/18/25	RP (Ed. Lab)	Y- P. Pest IPCB
9:25	Preparation Group	Analysis Group

Analytical Method: M3620C-Florisil cleanup-6, M3640A-GPC cleanup-6

Concentration Date: 02/18/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
Q1370-11	PEST-GPC2-BLANK	Pesticide-TCL	10.0	N/A	RUPESH	rajesh	5			
Q1370-12	PEST-GPC2-BLANK-SPIKE	Pesticide-TCL	10.0	N/A	RUPESH	rajesh	5			

* Extracts relinquished on the same date as received.

2/18/25

WORKLIST(Hardcopy Internal Chain)

Worklist Name : Q1370

Worklist ID : 187734

Department : Extraction

Date : 02-17-2025 10:30:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1370-10	SVOC-GPC2-BLANK	Solid	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_SVOC
Q1370-11	PEST-GPC2-BLANK	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_SVOC
Q1370-12	PEST-GPC2-BLANK-SPIKE	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PEST
Q1370-13	PCB-GPC2-BLANK	Solid	PCB	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PEST
Q1370-14	PCB-GPC2-BLANK-SPIKE	Solid	PCB	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PCB

Date/Time

02/17/25 10:30

Raw Sample Received by:

PS (Sot 104)

Raw Sample Relinquished by:

PS (Sot 104)

Date/Time

02/17/25 10:30

Raw Sample Received by:

PS (Sot 104)

Raw Sample Relinquished by:

PS (Sot 104)

Prep Standard - Chemical Standard Summary

Order ID : Q1370

Test : Pesticide-TCL

Prepbatch ID : PB166745,

Sequence ID/Qc Batch ID: PD030325,

Standard ID :

EP2582,EP2589,PP23713,PP23714,PP23715,PP23716,PP23717,PP23718,PP23719,PP23720,PP23721,PP23722,PP
23723,PP23724,PP23725,PP23726,PP23727,PP23728,PP23729,PP23730,PP23731,PP23732,PP23975,PP24060,

Chemical ID :

E3551,E3788,E3805,E3806,E3826,E3829,E3873,E3874,E3877,E3878,P 11763,P11797,P11945,P13191,P13360,P1338
3,

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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025

FROM 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

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>
3921	CS6 IND STD MIX A	PP23713	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P11945 + 49.00000ml of E3805 = Final Quantity: 50.000 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>
679	CS5 IND STD MIX A	PP23714	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23713 = 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>
680	CS4 IND STD MIX A	PP23715	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23714 = 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>
681	CS3 IND STD MIX A	PP23716	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23715 = 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>
682	CS2 IND STD MIX A	PP23717	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23716 = 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>
683	CS1 IND STD MIX A	PP23718	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23717 = 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>
3920	CS6 IND STD MIX B	PP23719	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P11763 + 49.00000ml of E3805 = Final Quantity: 50.000 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>
684	CS5 IND STD MIX B	PP23720	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23719 = 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>
685	CS4 IND STD MIX B	PP23721	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23720 = 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>
686	CS3 IND STD MIX B	PP23722	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23721 = 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>
687	CS2 IND STD MIX B	PP23723	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23722 = 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>
688	CS1 IND STD MIX B	PP23724	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23723 = 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>
70	10/20 PPM Pest/PCB SOM01.2 Surg Stock	PP23725	10/02/2024	04/01/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P13383 + 9.00000ml of E3788 = 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>
3922	Toxaphene CS6	PP23726	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.80000ml of P13360 + 48.40000ml of E3805 + 0.80000ml of PP23725 = Final Quantity: 50.000 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>
674	Toxaphene CS5	PP23727	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23726 = 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>
675	Toxaphene CS4	PP23728	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23727 = 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>
676	Toxaphene CS3	PP23729	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23727 = 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>
677	Toxaphene CS2	PP23730	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23729 = 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>
678	Toxaphene CS1	PP23731	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of E3805 + 0.50000ml of PP23730 = 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>
776	EPA S0M01.2 RESCHK	PP23732	10/02/2024	03/30/2025	Abdul Mirza	None	None	Yogesh Patel
								10/03/2024

FROM 0.50000ml of PP23716 + 0.50000ml of PP23722 = 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>
758	PEM Mix w/Surr	PP23975	11/14/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/18/2024

FROM 1.00000ml of P11797 + 99.00000ml of E3826 = 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>
3793	20/40 PPB PEST GPC spike solution	PP24060	11/25/2024	05/18/2025	Ankita Jodhani	None	None	Yogesh Patel
								11/27/2024

FROM 0.08000ml of P13191 + 99.92000ml of E3829 = Final Quantity: 100.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24J0862003	05/18/2025	11/18/2024 / Rajesh	11/04/2024 / Rajesh	E3829

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32004 / Pesticide Mix, CLP method, Standard Mix B 3/90 SOW, Hexane, 1mL/ampul	A0176477	04/02/2025	10/02/2024 / Abdul	05/27/2022 / Sohil	P11763

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32074 / Pesticide Performance Evaluation Mix w/Surrogate	A0183168	05/14/2025	11/14/2024 / Ankita	05/27/2022 / Sohil	P11797

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32003 / Pesticide Mix, CLP method, Standard Mix A 3/90 SOW, Hexane, 1mL/ampul	A0176384	04/02/2025	10/02/2024 / Abdul	06/22/2022 / Abdul	P11945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32018 / Pesticide Matrix Spike Mix	A0203053	05/25/2025	11/25/2024 / Ankita	01/15/2024 / Abdul	P13191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	04/02/2025	10/02/2024 / Abdul	05/03/2024 / Abdul	P13360

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32453 / SOM01.1 Pesticide Surrogate Standard	A0194530	04/02/2025	10/02/2024 / Abdul	12/06/2023 / Abdul	P13383



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



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

Certificate of Analysis

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

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

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

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

Avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H 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 9/25/24

E 3805

Jamie Croak
Director Quality Operations, Bioscience Production

Cleanert Florisil

1g/6ml 30/pkg

固相萃取产品

LOT#: M06518

MFG#: F04074



Made in China

CAT# FS0006

 Agela Technologies

E 3806



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

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

11/6/24

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

 **avantors™**

Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

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

E 3829



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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

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

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



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
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	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

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

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

Harout Sahagian **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.

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



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	0.01 %

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

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

E 3878

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

P11759 to P11763

Received by : SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32004 **Lot No.:** A0176477

Description : Pesticide Standard Mix B (3/90)

Pesticide Standard Mix B (3/90) 8-16 µg/mL, Hexane/Toluene (90:10), 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	8.0 µg/mL	+/- 0.1453	µg/mL	Gravimetric	
			+/- 0.3910	µg/mL	Unstressed	
			+/- 0.5461	µg/mL	Stressed	
2	beta-BHC CAS # 319-85-7 (Lot SL210106) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
3	delta-BHC CAS # 319-86-8 (Lot 8-TAH-175-1) Purity 98%	8.0 µg/mL	+/- 0.1453	µg/mL	Gravimetric	
			+/- 0.3910	µg/mL	Unstressed	
			+/- 0.5461	µg/mL	Stressed	
4	Aldrin CAS # 309-00-2 (Lot 12044700) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
5	Heptachlor epoxide (isomer B) CAS # 1024-57-3 (Lot 11129300) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
6	trans-Chlordane CAS # 5103-74-2 (Lot 32095) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	
7	cis-Chlordane CAS # 5103-71-9 (Lot 31707) Purity 99%	8.0 µg/mL	+/- 0.1447	µg/mL	Gravimetric	
			+/- 0.3892	µg/mL	Unstressed	
			+/- 0.5436	µg/mL	Stressed	

8	4,4'-DDE			16.1	µg/mL	+/-	0.2906	µg/mL	Gravimetric
	CAS #	72-55-9	(Lot GHYQG)			+/-	0.7817	µg/mL	Unstressed
	Purity	99%				+/-	1.0918	µg/mL	Stressed
9	Endosulfan II			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	33213-65-9	(Lot 10861900)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
10	Endrin aldehyde			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	7421-93-4	(Lot 30606)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
11	Endosulfan sulfate			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	1031-07-8	(Lot BCCB0424)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
12	Endrin ketone			16.0	µg/mL	+/-	0.2895	µg/mL	Gravimetric
	CAS #	53494-70-5	(Lot 11058900)			+/-	0.7788	µg/mL	Unstressed
	Purity	98%				+/-	1.0877	µg/mL	Stressed
13	Decachlorobiphenyl (BZ# 209)			16.1	µg/mL	+/-	0.2906	µg/mL	Gravimetric
	CAS #	2051-24-3	(Lot 30679)			+/-	0.7817	µg/mL	Unstressed
	Purity	99%				+/-	1.0918	µg/mL	Stressed
Solvent: Hexane/Toluene (90:10)									
CAS # 110-54-3/108-88-3									
Purity 99%									

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

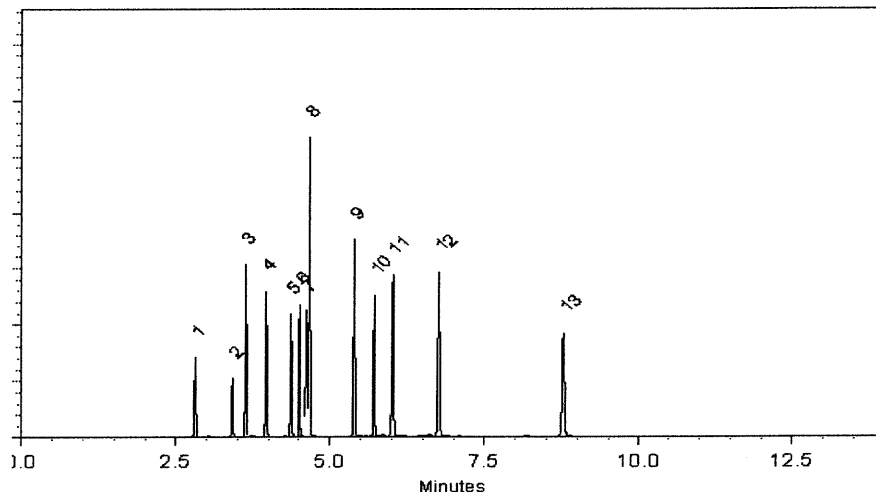
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Aurelia B. Confer

Aurelia Confer - Operations Tech I

Date Mixed: 16-Sep-2021

Balance: B707717271

Amanda Miller

Amanda Miller - Operations Tech-ARM QC

Date Passed: 20-Sep-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Certificate of Analysis

P11789 to P11793

Received by SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32074 **Lot No.:** A0183168

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL,
Hexane, 1mL/ampul

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

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	2.0 µg/mL	+/- 0.1220 +/- 0.1523 +/- 0.1799	µg/mL Gravimetric Unstressed Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 12469000) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 12642100) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
4	beta-BHC CAS # 319-85-7 (Lot BCCCC6425) Purity 99%	1.0 µg/mL	+/- 0.0610 +/- 0.0762 +/- 0.0900	µg/mL Gravimetric Unstressed Stressed
5	Endrin CAS # 72-20-8 (Lot 13000500) Purity 99%	5.1 µg/mL	+/- 0.3045 +/- 0.3805 +/- 0.4496	µg/mL Gravimetric Unstressed Stressed
6	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	10.1 µg/mL	+/- 0.6090 +/- 0.7609 +/- 0.8992	µg/mL Gravimetric Unstressed Stressed
7	Methoxychlor CAS # 72-43-5 (Lot 12555700) Purity 98%	25.2 µg/mL	+/- 1.5221 +/- 1.9018 +/- 2.2475	µg/mL Gravimetric Unstressed Stressed

8	Decachlorobiphenyl (BZ# 209)	2.0 µg/mL	+/- 0.1221	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 0.1524	µg/mL	Unstressed
	Purity 99%		+/- 0.1800	µg/mL	Stressed

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

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

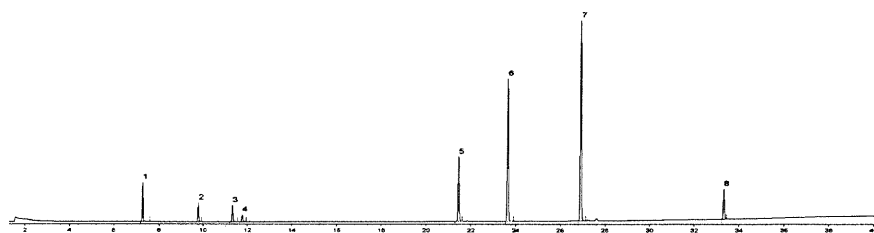
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
200°C

Det. Temp:
300°C

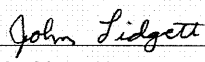
Det. Type:
ECD



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.


Brittany Federinko - Operations Tech I

Date Mixed: 22-Mar-2022 **Balance:** 1128360905


John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

P11794 to P11798

Received by SJ 5/27/2022



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32074 **Lot No.:** A0183168

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL, Hexane, 1mL/ampul

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

Expiration Date : March 31, 2026 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	2.0 µg/mL	+/- 0.1220 µg/mL Gravimetric +/- 0.1523 µg/mL Unstressed +/- 0.1799 µg/mL Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 12469000) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 12642100) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
4	beta-BHC CAS # 319-85-7 (Lot BCCC6425) Purity 99%	1.0 µg/mL	+/- 0.0610 µg/mL Gravimetric +/- 0.0762 µg/mL Unstressed +/- 0.0900 µg/mL Stressed
5	Endrin CAS # 72-20-8 (Lot 13000500) Purity 99%	5.1 µg/mL	+/- 0.3045 µg/mL Gravimetric +/- 0.3805 µg/mL Unstressed +/- 0.4496 µg/mL Stressed
6	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	10.1 µg/mL	+/- 0.6090 µg/mL Gravimetric +/- 0.7609 µg/mL Unstressed +/- 0.8992 µg/mL Stressed
7	Methoxychlor CAS # 72-43-5 (Lot 12555700) Purity 98%	25.2 µg/mL	+/- 1.5221 µg/mL Gravimetric +/- 1.9018 µg/mL Unstressed +/- 2.2475 µg/mL Stressed

8	Decachlorobiphenyl (BZ# 209)	2.0 µg/mL	+/- 0.1221	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot 30679)		+/- 0.1524	µg/mL	Unstressed
	Purity 99%		+/- 0.1800	µg/mL	Stressed

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

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

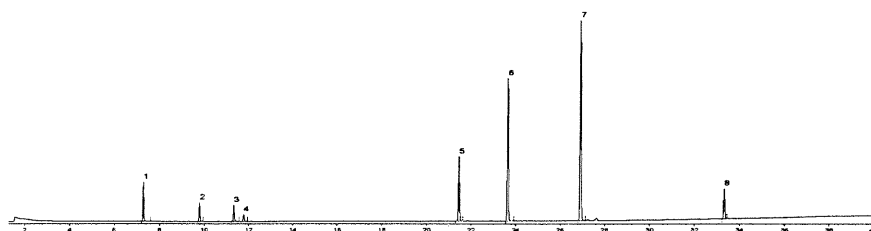
Carrier Gas:
 helium-constant pressure 20 psi.

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

Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD



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

Brittany Federinko
 Brittany Federinko - Operations Tech I

Date Mixed: 22-Mar-2022 **Balance:** 1128360905

John Lidgett
 John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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. : 32018 **Lot No.:** A0203053
Description : Pesticide Matrix Spike Mix
Pesticide Matrix Spike Mix 25-50 µg/mL, Acetone, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 10°C or colder
Ship: Ambient

P13191
↓
P13194
9/15/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	gamma-BHC (Lindane)	58-89-9	14646400	99%	25.0 µg/mL	+/- 1.3149
2	Heptachlor	76-44-8	813251	99%	25.0 µg/mL	+/- 1.3149
3	Aldrin	309-00-2	14389400	98%	25.0 µg/mL	+/- 1.3164
4	Dieldrin	60-57-1	14515000	98%	50.0 µg/mL	+/- 2.6297
5	Endrin	72-20-8	14485300	98%	50.0 µg/mL	+/- 2.6286
6	4,4'-DDT	50-29-3	230410JLMA	98%	50.1 µg/mL	+/- 2.6317

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

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



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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

P 13358
↓
P 13369
(12)

✓
05-06-2024

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

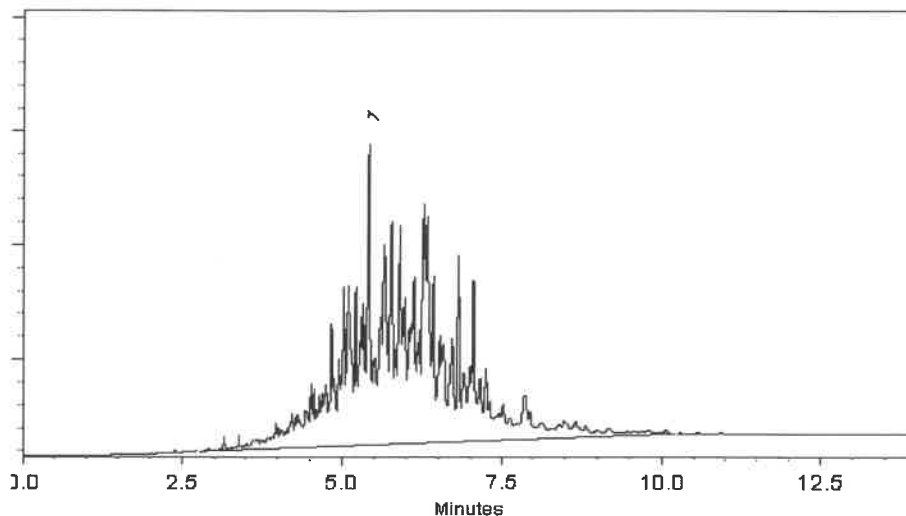
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13358
↓
P13369
↓
(12)


05-06-2024



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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. : 32453 **Lot No.:** A0194530

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

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

Expiration Date : May 31, 2029 **Storage:** 0°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	100.6 µg/mL	+/- 5.5961
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.3 µg/mL	+/- 11.1978

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

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

P 13382 } (5)
↓
P 13386

[Signature]
05/01/2024

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

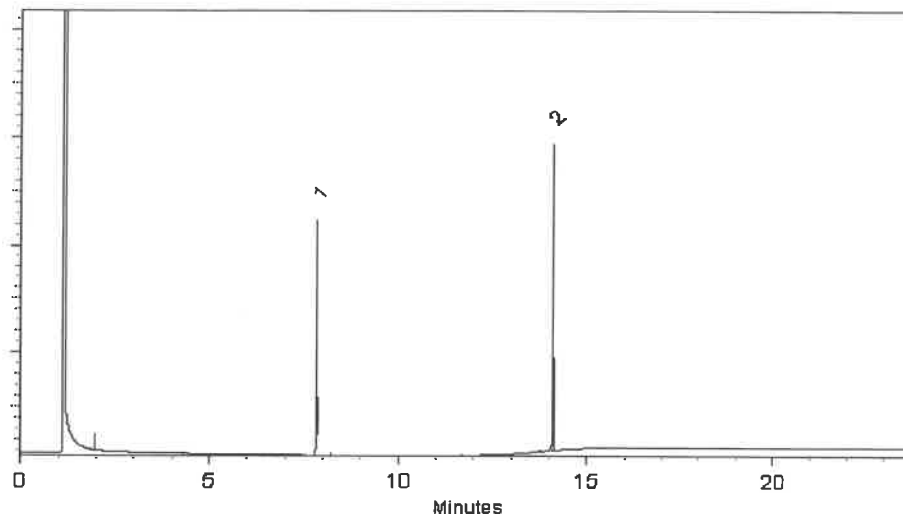
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

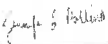


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 09-Feb-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 15-Feb-2023

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

P13382 } (5)
↓
P13386 }


05/01/2024



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 32003 **Lot No.:** A0176384

Description: Pesticide Standard Mix A (3/90)

Standard Mix A 3/90 SOW 8-80µg/mL, Hexane/Toluene (90:10), 1mL/ampul

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

Expiration Date: September 30, 2025 **Storage:** 10°C or colder

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

P 11945
↓
P 11946
②
UR
06/24/2022

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	8.0 µg/mL	+/- 0.1442 +/- 0.3878 +/- 0.5417	µg/mL Gravimetric Unstressed Stressed
2	alpha-BHC CAS # 319-84-6 (Lot 3324600) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
3	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 11837800) Purity 98%	8.0 µg/mL	+/- 0.1442 +/- 0.3878 +/- 0.5417	µg/mL Gravimetric Unstressed Stressed
4	Heptachlor CAS # 76-44-8 (Lot 0006617486) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
5	Endosulfan I CAS # 959-98-8 (Lot BCBS8631) Purity 99%	8.0 µg/mL	+/- 0.1447 +/- 0.3892 +/- 0.5436	µg/mL Gravimetric Unstressed Stressed
6	Dieldrin CAS # 60-57-1 (Lot 12074700) Purity 97%	16.0 µg/mL	+/- 0.2889 +/- 0.7772 +/- 1.0854	µg/mL Gravimetric Unstressed Stressed
7	Endrin CAS # 72-20-8 (Lot 11773800) Purity 98%	16.0 µg/mL	+/- 0.2895 +/- 0.7788 +/- 1.0877	µg/mL Gravimetric Unstressed Stressed

8	4,4'-DDD			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	72-54-8	(Lot HAN02)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
9	4,4'-DDT			16.0	µg/mL	+/-	0.2895	µg/mL	Gravimetric
	CAS #	50-29-3	(Lot 210823JLM)			+/-	0.7788	µg/mL	Unstressed
	Purity	98%				+/-	1.0877	µg/mL	Stressed
10	Methoxychlor			80.0	µg/mL	+/-	1.4132	µg/mL	Gravimetric
	CAS #	72-43-5	(Lot 12325400)			+/-	3.8798	µg/mL	Unstressed
	Purity	97%				+/-	5.4271	µg/mL	Stressed
11	Decachlorobiphenyl (BZ# 209)			16.0	µg/mL	+/-	0.2894	µg/mL	Gravimetric
	CAS #	2051-24-3	(Lot 30638)			+/-	0.7785	µg/mL	Unstressed
	Purity	99%				+/-	1.0873	µg/mL	Stressed
Solvent: Hexane/Toluene (90:10)									
	CAS #	110-54-3/108-88-3							
	Purity	99%							

P 11945 } (2)
↓
P 11946 }

MR
06/24/2022

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

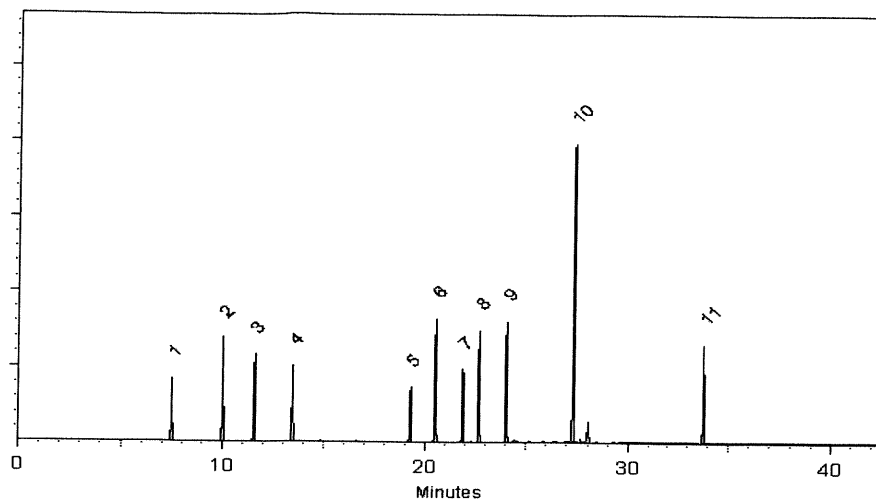
Carrier Gas:
helium-constant pressure 20 psi.

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

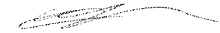
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



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.


Erik Strommer - Operations Tech I

Date Mixed: 14-Sep-2021

Balance: 1128353505


Amanda Miller - Operations Tech-ARM QC

Date Passed: 17-Sep-2021

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

P11945
↓
P11946
②
06/24/2022

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

www.chemtech.net

Chemtech Project Number

Q1370

COC Number

CLIENT INFORMATION

Report to be sent to:
COMPANY: Chemtech
ADDRESS: 284 Sheffield Street
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: QA Officer
PHONE: (908) 789-8900 FAX: (908) 789-8922

PROJECT INFORMATION

PROJECT NAME: Weekly Sample Blanks
PROJECT #: LOCATION: NJ
PROJECT MANAGER:
E-MAIL:
PHONE: FAX:

BILLING INFORMATION

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

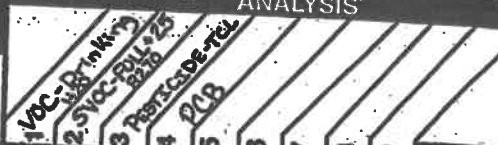
DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS



PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES										COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
			COMP	GRAS	DATE	TIME		A	E	1	2	3	4	5	6	7	8		9
1.	Storage-Blank-SOIL-REF-6	AQ		X			2	X											
2.	Storage-Blank-WATER-REF-5	AQ		X			2	X											
3.	Storage-Blank-WATER-REF-4	AQ		X			2	X											
4.	Storage-Blank-SAMPLE-MANAGEMENT	AQ		X			2	X											
5.	SVOC-GPC-BLANK	SO		X			2	X											
6.	PEST-GPC-BLANK	SO		X			1		X										
7.	PEST-GPC-BLANK-SPIKE	SO		X			1			X									
8.	PCB-GPC-BLANK	SO		X			1			X									
9.	PCB-GPC-BLANK-SPIKE	SO		X			1				X								
10.	SVOC-GPC2-BLANK	SO		X			1				X								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE																			

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.		1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Condition of bottles or casks at receipt

Comments:

☒ COMPLAINT ☐ NON COMPLAINT ☐ COOLER TEMP 6.0

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☐ Picked Up

Shipment Complete
☒ YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

2/14

CHEMTECH

CHAIN OF CUSTODY RECORD

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

#12

CLIENT INFORMATION

Report to be sent to:
COMPANY: CHEMTECH
ADDRESS: 284 Sheffield Street
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: QA Officer
PHONE: 908-789-8900 FAX: 908-789-8922

PROJECT INFORMATION

PROJECT NAME: Weekly Storage Tanks
PROJECT #:
PROJECT MANAGER:
LOCATION: NJ
E-MAIL:
PHONE:
FAX:
BILL TO: SAME
ADDRESS:
CITY:
ATTENTION:
PHONE:
STATE:
ZIP:
COC Number: Q1370

DATA TURNAROUND INFORMATION

FAX (PUSH)
HARDCOPY (DATA PACKAGE): 3 DAYS
EED:
TTO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

Level 1 (Results Only) ☐
Level 2 (Results + QC) ☐
Level 3 (Results + QC + Raw Data) ☐
Level 4 (QC + Full Flow Data) ☐
NJ Reduced ☐
NYS ASPA ☐
NYS ASPB ☐
Other ☐
EED FORMAT ☐
USEPA CLP ☐
NYS ASPB ☐

BILLING INFORMATION

BILL TO: SAME
ADDRESS:
CITY:
ATTENTION:
PHONE:
STATE:
ZIP:
COC Number: Q1370

ANALYSIS

1. PCBs
2. PCBs
3. PCBs
4. PCBs
5. PCBs
6. PCBs
7. PCBs
8. PCBs
9. PCBs
10. PCBs

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	DATE	TIME	1	2	3	4	5	6	7	8	9	COMMENTS
1.	PEST-GPC2-BLANK	SO														
2.	PEST-GPC2-BLANK-SPIKE	SO	X													
3.	PCB-GPC2-BLANK	SO	X													
4.	PCB-GPC2-BLANK-SPIKE	SO	X													
5.		SO	X													
6.		SO	X													
7.																
8.																
9.																
10.																

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY
1.		1.
2.		2.
3.		3.

Conditions of bottles or vials at receipt: COMPLAINT ☐ NONCOMPLAINT ☐ COOLER TEMP ☒ 6.0

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☐ Picked Up

Shipment Complete
YES ☒ NO ☐

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

10/2018

2/14



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

Laboratory Certification

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