

Cover Page

Order ID : Q2579

Project ID : 540 Degraw St, Brooklyn, NY - E9309

Client : ENTACT

Lab Sample Number

Q2579-01
Q2579-02
Q2579-03
Q2579-04
Q2579-05
Q2579-06
Q2579-07
Q2579-08

Client Sample Number

WC-A2-13-G
WC-A2-13-C
WC-A2-13-C
WC-A2-13-C
WC-A2-14-G
WC-A2-14-C
WC-A2-14-C
WC-A2-14-C

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

Signature : _____

Date: 7/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2579

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 07/23/2025

LAB CHRONICLE

OrderID:	Q2579	OrderDate:	7/10/2025 3:31:00 PM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Austin Farmerie	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2579-02	WC-A2-13-C	SOIL			07/10/25			07/10/25
			PCB	8082A		07/14/25	07/14/25	
Q2579-03	WC-A2-13-C	TCLP			07/10/25			07/10/25
			TCLP Herbicide	8151A		07/14/25	07/16/25	
			TCLP Pesticide	8081B		07/14/25	07/22/25	
Q2579-06	WC-A2-14-C	SOIL			07/10/25			07/10/25
			PCB	8082A		07/14/25	07/14/25	
Q2579-07	WC-A2-14-C	TCLP			07/10/25			07/10/25
			TCLP Herbicide	8151A		07/14/25	07/16/25	
			TCLP Pesticide	8081B		07/14/25	07/22/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2579

Order ID: Q2579

Client: ENTACT

Project ID: 540 Degraw St, Brooklyn, NY - E9309

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

Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q2579

Client: ENTACT

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PS031005.D	PIBLK-PS031005.D	2,4-DCAA	1	500	356	71		70 (61)	130 (136)
		2,4-DCAA	2	500	496	99		70 (61)	130 (136)
I.BLK-PS031030.D	PIBLK-PS031030.D	2,4-DCAA	1	500	445	89		70 (61)	130 (136)
		2,4-DCAA	2	500	482	96		70 (61)	130 (136)
PB168844BL	PB168844BL	2,4-DCAA	1	500	423	85		70 (61)	130 (136)
		2,4-DCAA	2	500	499	100		70 (61)	130 (136)
PB168844BS	PB168844BS	2,4-DCAA	1	500	435	87		70 (61)	130 (136)
		2,4-DCAA	2	500	441	88		70 (61)	130 (136)
PB168803TB	PB168803TB	2,4-DCAA	1	500	462	92		70 (61)	130 (136)
		2,4-DCAA	2	500	472	94		70 (61)	130 (136)
Q2489-01MS	G4(0-6)MS	2,4-DCAA	1	500	609	122		70 (61)	130 (136)
		2,4-DCAA	2	500	529	106		70 (61)	130 (136)
Q2489-01MSD	G4(0-6)MSD	2,4-DCAA	1	500	636	127		70 (61)	130 (136)
		2,4-DCAA	2	500	516	103		70 (61)	130 (136)
I.BLK-PS031046.D	PIBLK-PS031046.D	2,4-DCAA	1	500	444	89		70 (61)	130 (136)
		2,4-DCAA	2	500	486	97		70 (61)	130 (136)
I.BLK-PS031061.D	PIBLK-PS031061.D	2,4-DCAA	1	500	450	90		70 (61)	130 (136)
		2,4-DCAA	2	500	496	99		70 (61)	130 (136)
Q2579-03	WC-A2-13-C	2,4-DCAA	1	500	437	87		70 (61)	130 (136)
		2,4-DCAA	2	500	489	98		70 (61)	130 (136)
Q2579-07	WC-A2-14-C	2,4-DCAA	1	500	404	81		70 (61)	130 (136)
		2,4-DCAA	2	500	444	89		70 (61)	130 (136)
I.BLK-PS031071.D	PIBLK-PS031071.D	2,4-DCAA	1	500	468	94		70 (61)	130 (136)
		2,4-DCAA	2	500	498	100		70 (61)	130 (136)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2579</u>	Analytical Method:	<u>8151A</u>
Client:	<u>ENTACT</u>	DataFile :	<u>PS031037.D</u>

	Parameter	Spike	Sample Result	Result	Units	Rec Qual	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2489-01MS (Column 1)		Client Sample ID:	G4(0-6)MS						
	2,4-D	50	0	53.1	ug/L	106		70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	53.1	ug/L	106		70 (62)	130 (139)	
Lab Sample ID:	Q2489-01MS (Column 2)		Client Sample ID:	G4(0-6)MS						
	2,4-D	50	0	42.7	ug/L	85		70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	57.3	ug/L	115		70 (62)	130 (139)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2579</u>	Analytical Method:	<u>8151A</u>
Client:	<u>ENTACT</u>	DataFile :	<u>PS031038.D</u>

		Sample				Rec		RPD		Limits	
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	Q2489-01MSD	Client Sample ID:	G4(0-6)MSD								
(Column 1)											
2,4-D	50	0	54.9	ug/L	110		4		70 (65)	130 (135)	20 (20)
2,4,5-TP(Silvex)	50	0	55.5	ug/L	111		5		70 (62)	130 (139)	20 (20)
Lab Sample ID:	Q2489-01MSD	Client Sample ID:	G4(0-6)MSD								
(Column 2)											
2,4-D	50	0	49.5	ug/L	99		15		70 (65)	130 (135)	20 (20)
2,4,5-TP(Silvex)	50	0	59.7	ug/L	119		3		70 (62)	130 (139)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2579</u>	Analytical Method:	<u>8151A</u>
Client:	<u>ENTACT</u>	Datafile :	<u>PS031033.D</u>

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168844BS (Column 1)	2,4-D	5	5.80	ug/L	116				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.30	ug/L	106				70 (78)	130 (127)	
PB168844BS (Column 2)	2,4-D	5	5.00	ug/L	100				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	4.80	ug/L	96				70 (78)	130 (127)	

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168844BL

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Lab Sample ID: PB168844BL

Lab File ID: PS031032.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/14/2025

Date Analyzed (1): 07/15/2025

Date Analyzed (2): 07/15/2025

Time Analyzed (1): 18:21

Time Analyzed (2): 18:21

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168844BS	PB168844BS	PS031033.D	07/15/2025	07/15/2025
PB168803TB	PB168803TB	PS031035.D	07/15/2025	07/15/2025
G4 (0-6)MS	Q2489-01MS	PS031037.D	07/15/2025	07/15/2025
G4 (0-6)MSD	Q2489-01MSD	PS031038.D	07/15/2025	07/15/2025
WC-A2-13-C	Q2579-03	PS031068.D	07/16/2025	07/16/2025
WC-A2-14-C	Q2579-07	PS031069.D	07/16/2025	07/16/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/14/25
Client Sample ID:	PB168803TB	SDG No.:	Q2579
Lab Sample ID:	PB168803TB	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031035.D	1	07/14/25 10:14	07/15/25 19:33	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	472		70 (61) - 130 (136)	94%	SPK: 500

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_S\Data\PS071525\
Data File : PS031035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 19:33
Operator : AR\AJ
Sample : PB168803TB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168803TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.329	7.767	1827.8E6	488.8E6	462.137	471.835

Target Compounds

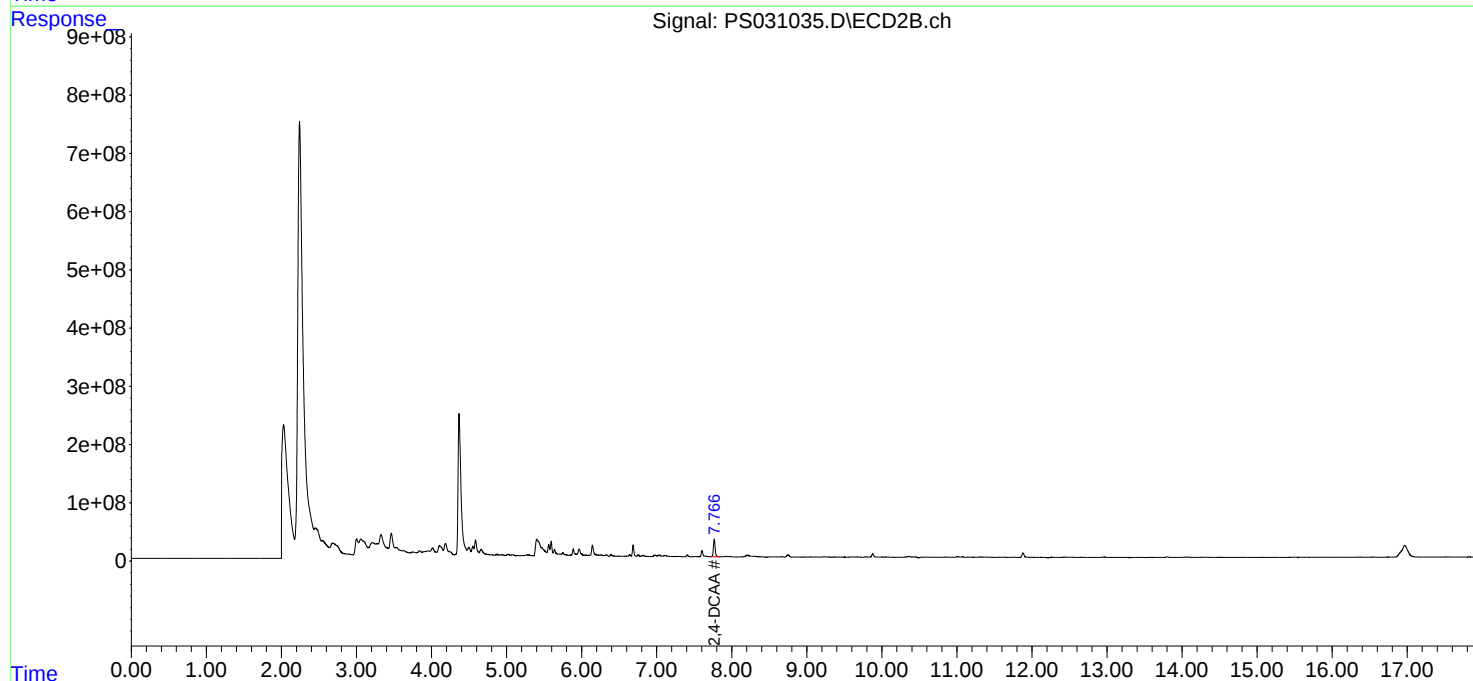
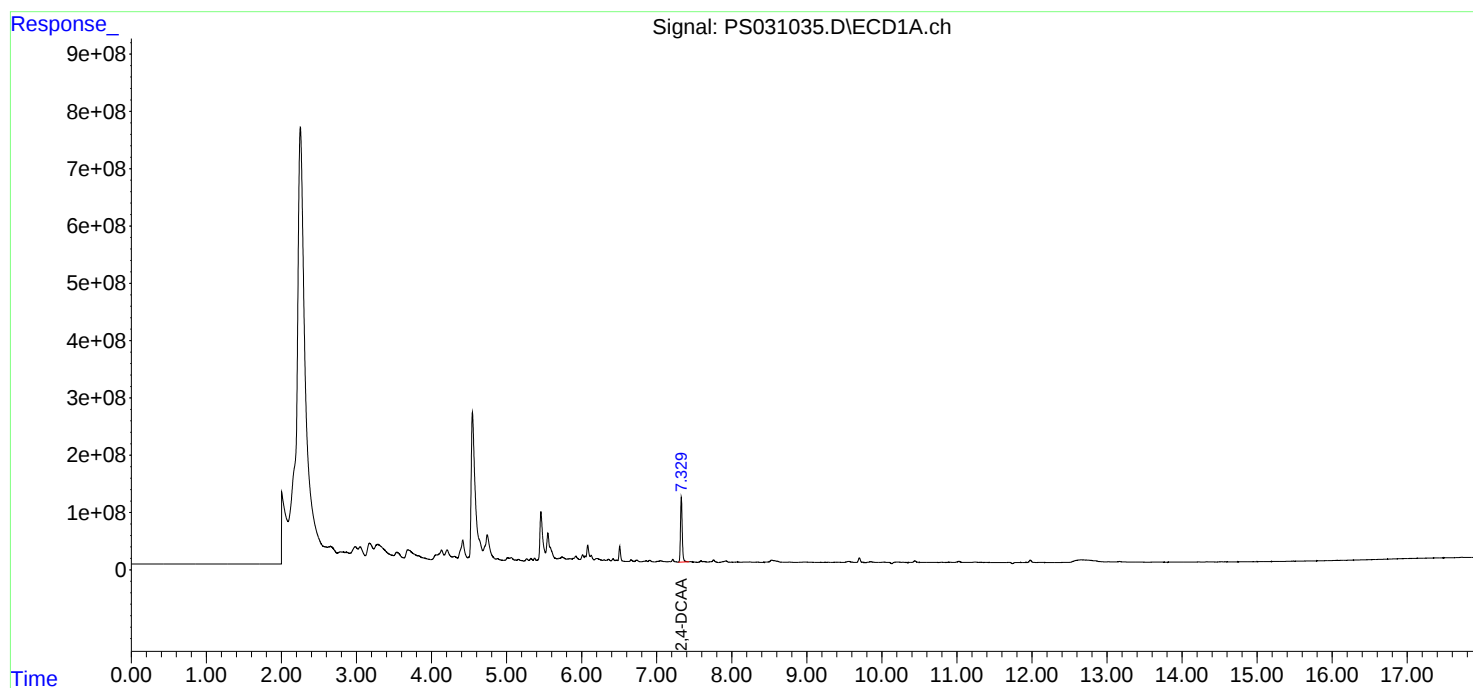
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

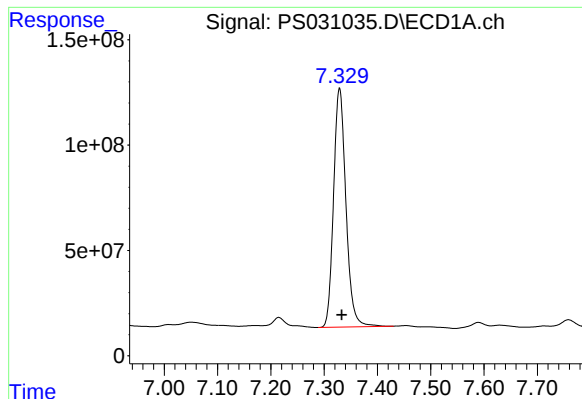
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 19:33
Operator : AR\AJ
Sample : PB168803TB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168803TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

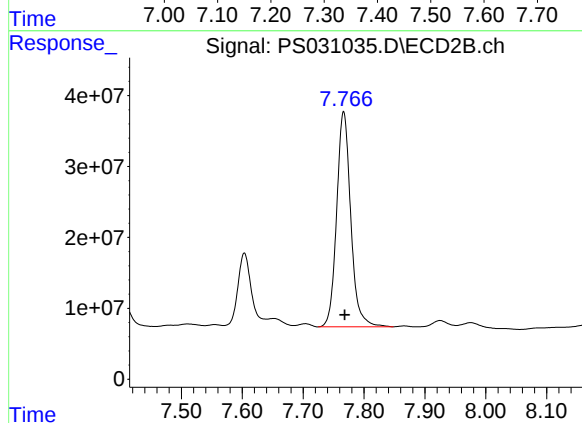




#4 2,4-DCAA

R.T.: 7.329 min
Delta R.T.: -0.004 min
Response: 1827785887
Conc: 462.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168803TB



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: -0.002 min
Response: 488836185
Conc: 471.83 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/10/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/10/25
Client Sample ID:	WC-A2-13-C	SDG No.:	Q2579
Lab Sample ID:	Q2579-03	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031068.D	1	07/14/25 10:14	07/16/25 13:51	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	489		70 (61) - 130 (136)	98%	SPK: 500

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_S\Data\PS071525\
Data File : PS031068.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 13:51
Operator : AR\AJ
Sample : Q2579-03
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A2-13-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 14:16:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.328	7.766	1727.6E6	506.8E6	436.812	489.159

Target Compounds

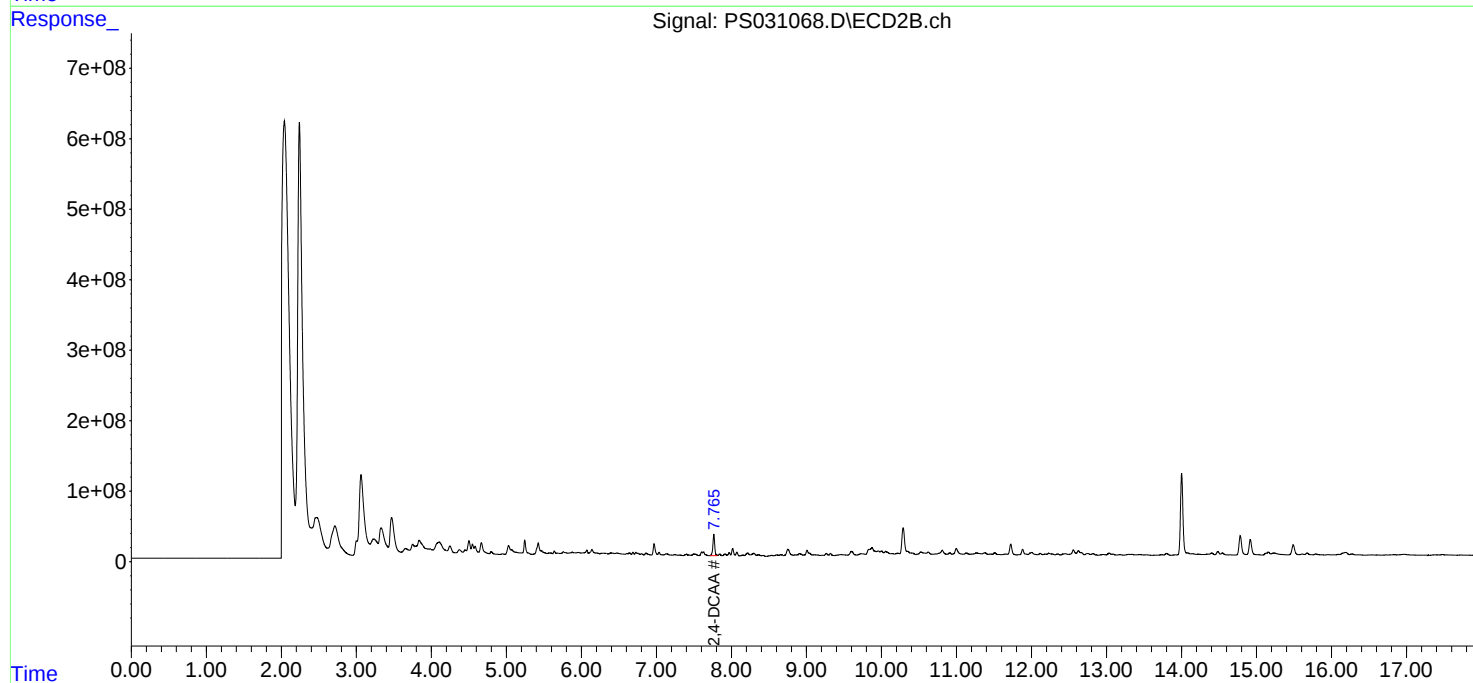
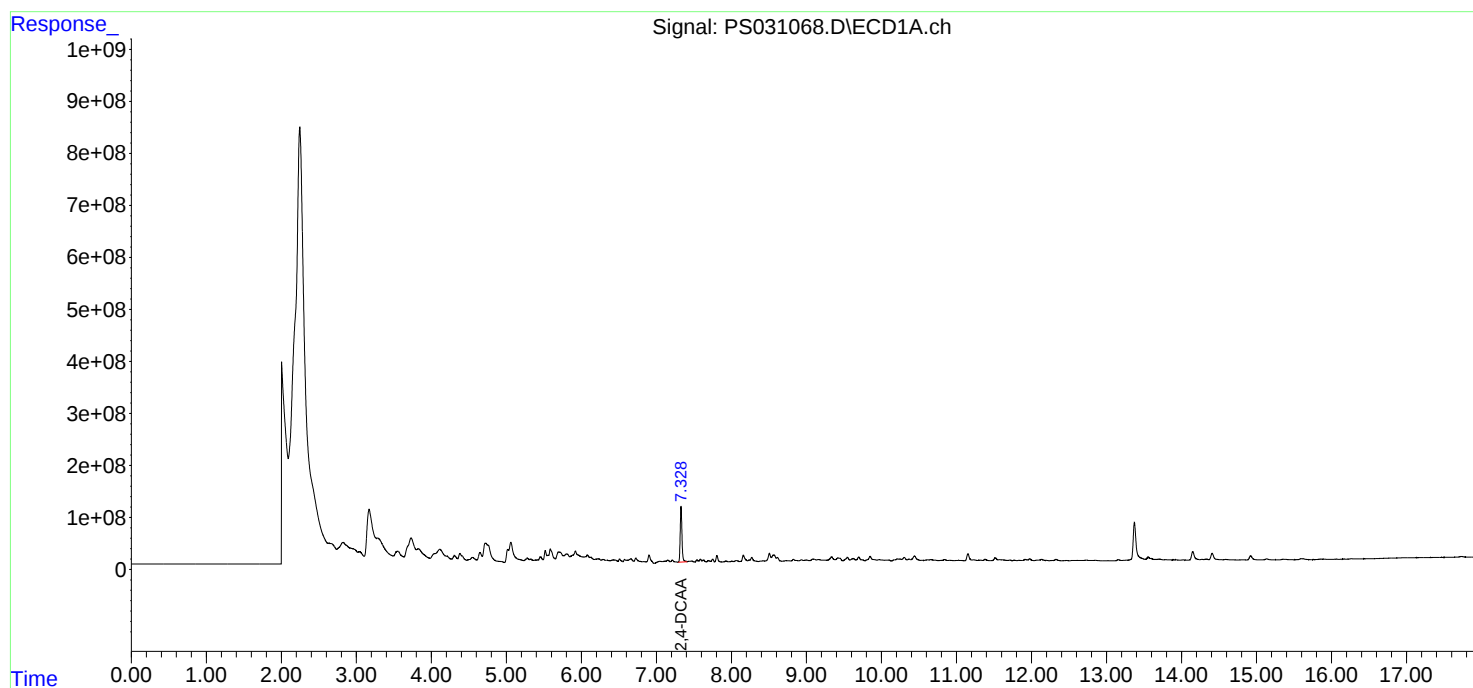
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

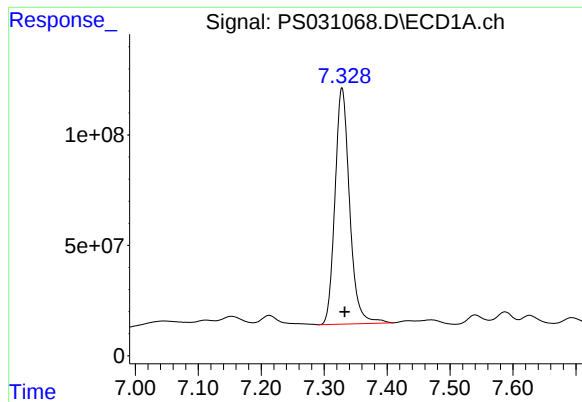
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031068.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 13:51
Operator : AR\AJ
Sample : Q2579-03
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A2-13-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 14:16:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

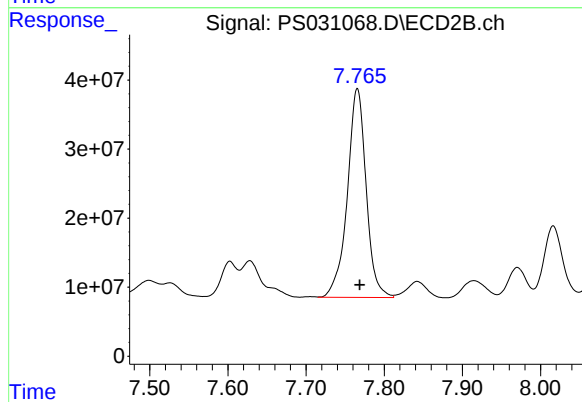




#4 2,4-DCAA

R.T.: 7.328 min
Delta R.T.: -0.005 min
Response: 1727623657
Conc: 436.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A2-13-C



#4 2,4-DCAA

R.T.: 7.766 min
Delta R.T.: -0.003 min
Response: 506784950
Conc: 489.16 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/10/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/10/25
Client Sample ID:	WC-A2-14-C	SDG No.:	Q2579
Lab Sample ID:	Q2579-07	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031069.D	1	07/14/25 10:14	07/16/25 14:15	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	444		70 (61) - 130 (136)	89%	SPK: 500

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_S\Data\PS071525\
Data File : PS031069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 14:15
Operator : AR\AJ
Sample : Q2579-07
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A2-14-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 14:33:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.329	7.767	1598.6E6	459.8E6	404.196	443.825

Target Compounds

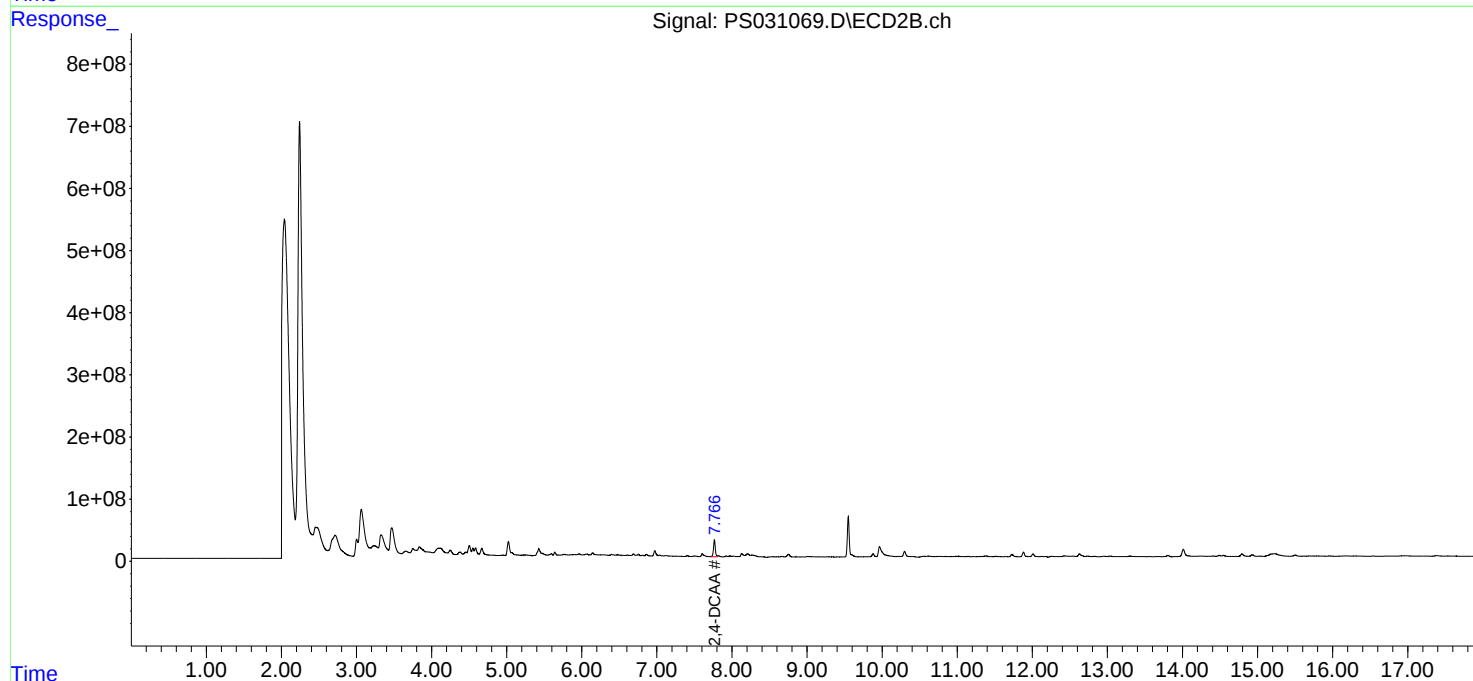
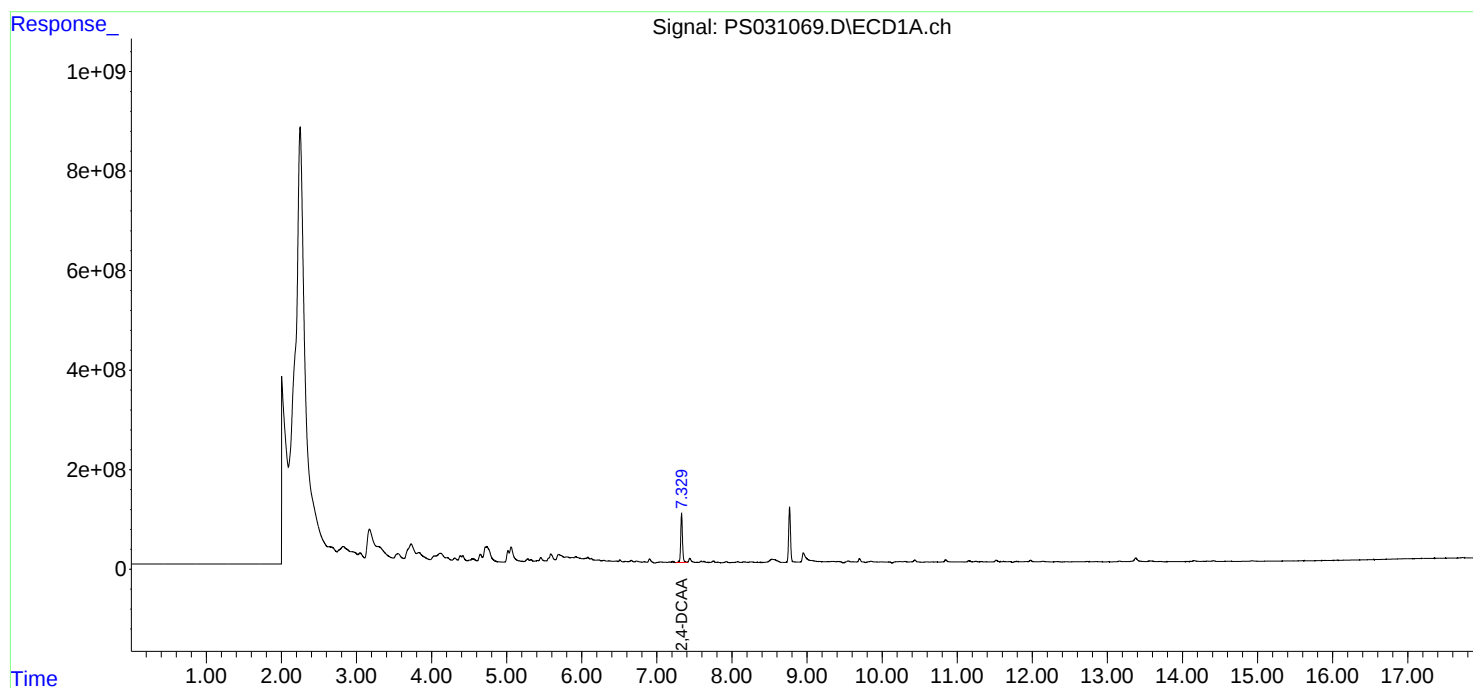
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

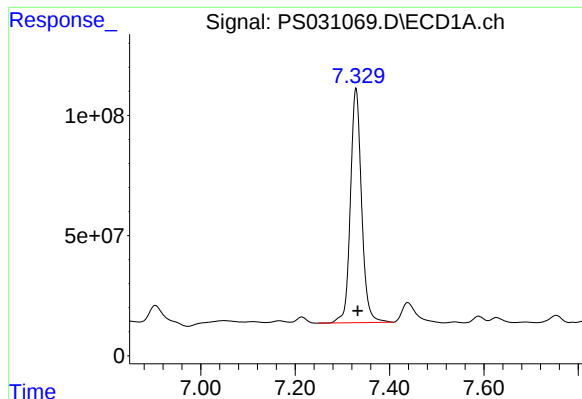
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 14:15
Operator : AR\AJ
Sample : Q2579-07
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-A2-14-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 14:33:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

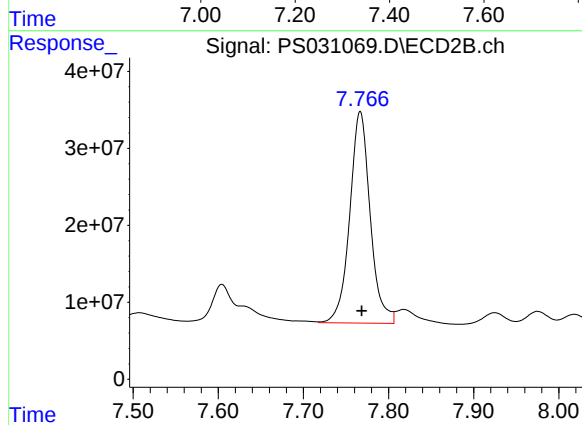




#4 2,4-DCAA

R.T.: 7.329 min
Delta R.T.: -0.004 min
Response: 1598625063
Conc: 404.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-A2-14-C



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: -0.002 min
Response: 459816755
Conc: 443.82 ng/ml



CALIBRATION SUMMARY

Calibration Times: **16:00** **17:36**

LAB FILE ID:	RT 200 =	<u>PS031006.D</u>	RT 500 =	<u>PS031007.D</u>
	RT 750 =	PS031008.D	RT 1000 =	PS031009.D
			RT 1500 =	PS031010.D

[illegible]

Calibration Times: **16:00** **17:36**

LAB FILE ID:	RT 200 =	<u>PS031006.D</u>	RT 500 =	<u>PS031007.D</u>
	RT 750 =	PS031008.D	RT 1000 =	PS031009.D
			RT 1500 =	PS031010.D

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Instrument ID: ECD_S

Calibration Date(s): 07/11/2025 07/11/2025

Calibration Times: 16:00 17:36

GC Column: RTX-CLP

ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS031006.D</u>	CF 500 =	<u>PS031007.D</u>		
CF 750 =		<u>PS031008.D</u>	CF 1000 =	<u>PS031009.D</u>	CF 1500 =	<u>PS031010.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	20737500000	18270800000	18189000000	18194100000	17662300000	18610700000	7
2,4-D	3556670000	2984170000	2931980000	2976850000	2942510000	3078440000	9
2,4-DCAA	4821770000	3910250000	3755950000	3730170000	3557220000	3955070000	13



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Instrument ID: ECD_S

Calibration Date(s): 07/11/2025 07/11/2025

Calibration Times: 16:00 17:36

GC Column: RTX-CLP2

ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS031006.D</u>	CF 500 =	<u>PS031007.D</u>		
CF 750 =		<u>PS031008.D</u>	CF 1000 =	<u>PS031009.D</u>	CF 1500 =	<u>PS031010.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	17216300000	14510800000	14174600000	14131100000	13346200000	14675800000	10
2,4-D	2058060000	1665160000	1617550000	1610710000	1545850000	1699460000	12
2,4-DCAA	1258080000	1011280000	984071000	981302000	945431000	1036030000	12

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 16:00
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/14/2025
 Supervised By :mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 03:15:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 03:14:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.332	7.769	964.4E6	251.6E6	256.754m	255.689
Target Compounds							
1) T	Dalapon	2.699	2.707	1359.2E6	617.1E6	234.829	227.615
2) T	3,5-DICHL...	6.494	6.716	1194.0E6	350.5E6	239.542	238.175
3) T	4-Nitroph...	7.134	7.304	287.7E6	359.3E6	223.294	214.127
5) T	DICAMBA	7.522	7.970	3524.3E6	1373.6E6	234.582	219.396
6) T	MCPD	7.700	8.065	153.7E6	38941915	16.629	18.218
7) T	MCPA	7.850	8.313	193.7E6	62375962	18.027	19.647
8) T	DICHLORPROP	8.234	8.691	779.7E6	349.8E6	241.890	242.016
9) T	2,4-D	8.468	9.028	668.7E6	386.9E6	228.056	239.199
10) T	Pentachlo...	8.773	9.550	12014.7E6	8612.5E6	235.540	226.008
11) T	2,4,5-TP ...	9.353	9.932	3940.1E6	3271.1E6	216.622	230.772
12) T	2,4,5-T	9.649	10.359	3069.2E6	3091.2E6	206.998	228.467
13) T	2,4-DB	10.228	10.928	436.6E6	268.4E6	209.069	238.332
14) T	DINOSEB	11.441	11.310	2709.5E6	2482.1E6	211.237	227.323
15) T	Picloram	11.264	12.425	2682.2E6	4609.1E6	187.392	197.690
16) T	DCPA	11.736	12.355	5033.6E6	4982.0E6	215.340	227.114

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 16:00
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

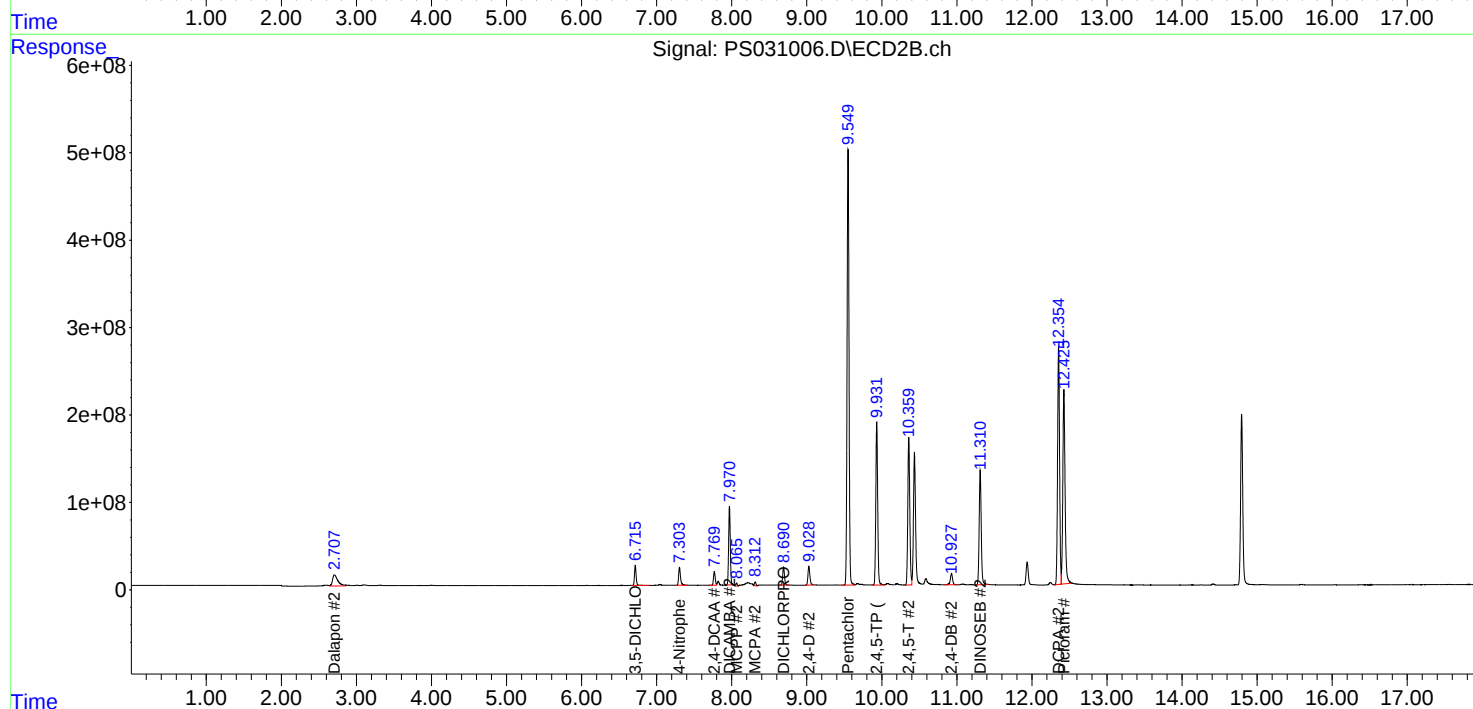
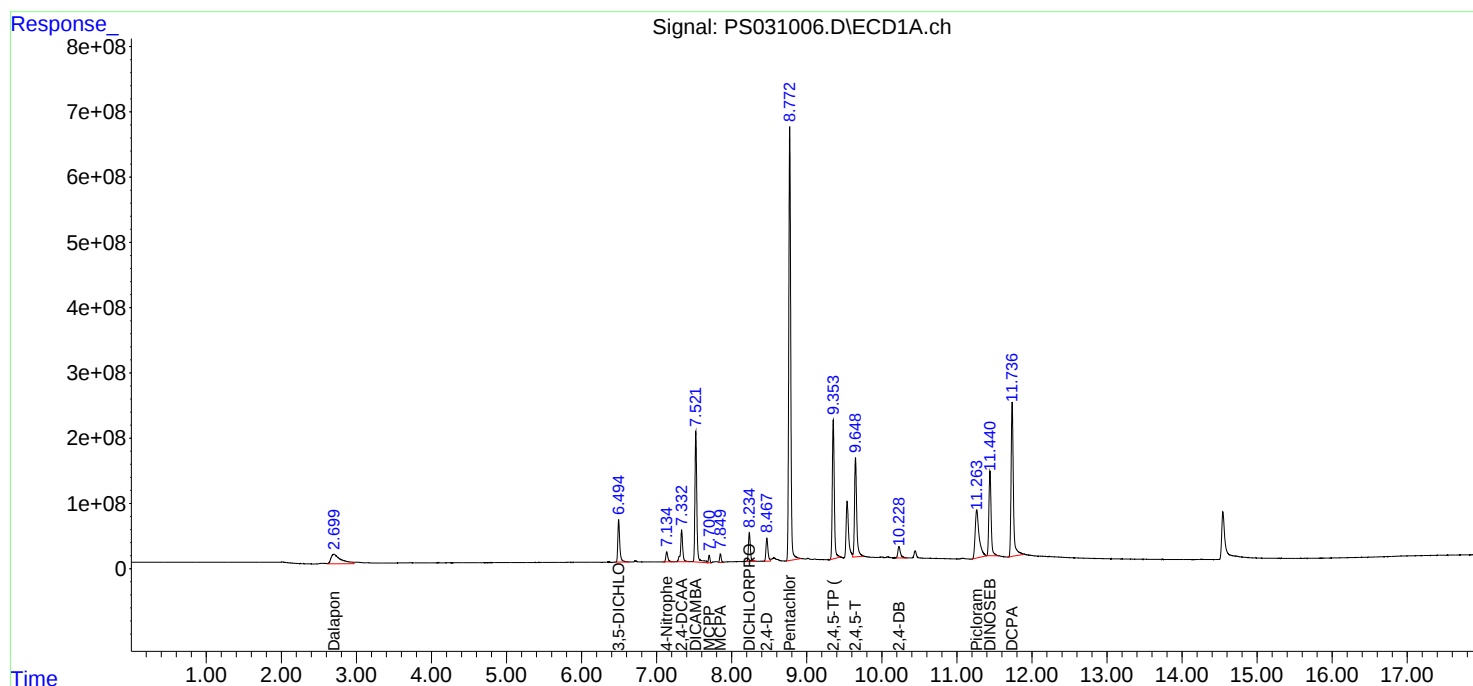
APPROVED

Reviewed By :Abdul Mirza 07/14/2025

Supervised By :mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 03:15:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 03:14:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 16:24
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 07/14/2025

Supervised By :mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 03:15:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 03:14:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.333	7.769	1955.1E6	505.6E6	520.541m	513.825
Target Compounds							
1) T	Dalapon	2.695	2.706	2710.6E6	1273.1E6	468.306	469.589
2) T	3,5-DICHL...	6.494	6.715	2408.8E6	699.2E6	483.265	475.046
3) T	4-Nitroph...	7.133	7.302	604.5E6	764.7E6	469.192	455.711
5) T	DICAMBA	7.522	7.971	7262.3E6	2954.3E6	483.393	471.852
6) T	MCPD	7.701	8.067	405.3E6	97457930	43.845	45.592
7) T	MCPA	7.851	8.316	473.4E6	143.2E6	44.051	45.117
8) T	DICHLORPROP	8.234	8.690	1564.2E6	700.8E6	485.278	484.884
9) T	2,4-D	8.467	9.028	1402.6E6	782.6E6	478.366	483.834
10) T	Pentachlo...	8.773	9.550	25005.5E6	18493.4E6	490.216	485.303
11) T	2,4,5-TP ...	9.352	9.931	8678.6E6	6892.6E6	477.136	486.265
12) T	2,4,5-T	9.647	10.359	6951.4E6	6538.4E6	468.828	483.243
13) T	2,4-DB	10.225	10.926	970.0E6	546.9E6	464.473	485.707
14) T	DINOSEB	11.438	11.310	5994.7E6	5205.5E6	467.344	476.757
15) T	Picloram	11.256	12.422	6552.3E6	10862.6E6	457.775	465.908
16) T	DCPA	11.736	12.354	11264.6E6	10701.1E6	481.906	487.830

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 16:24
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

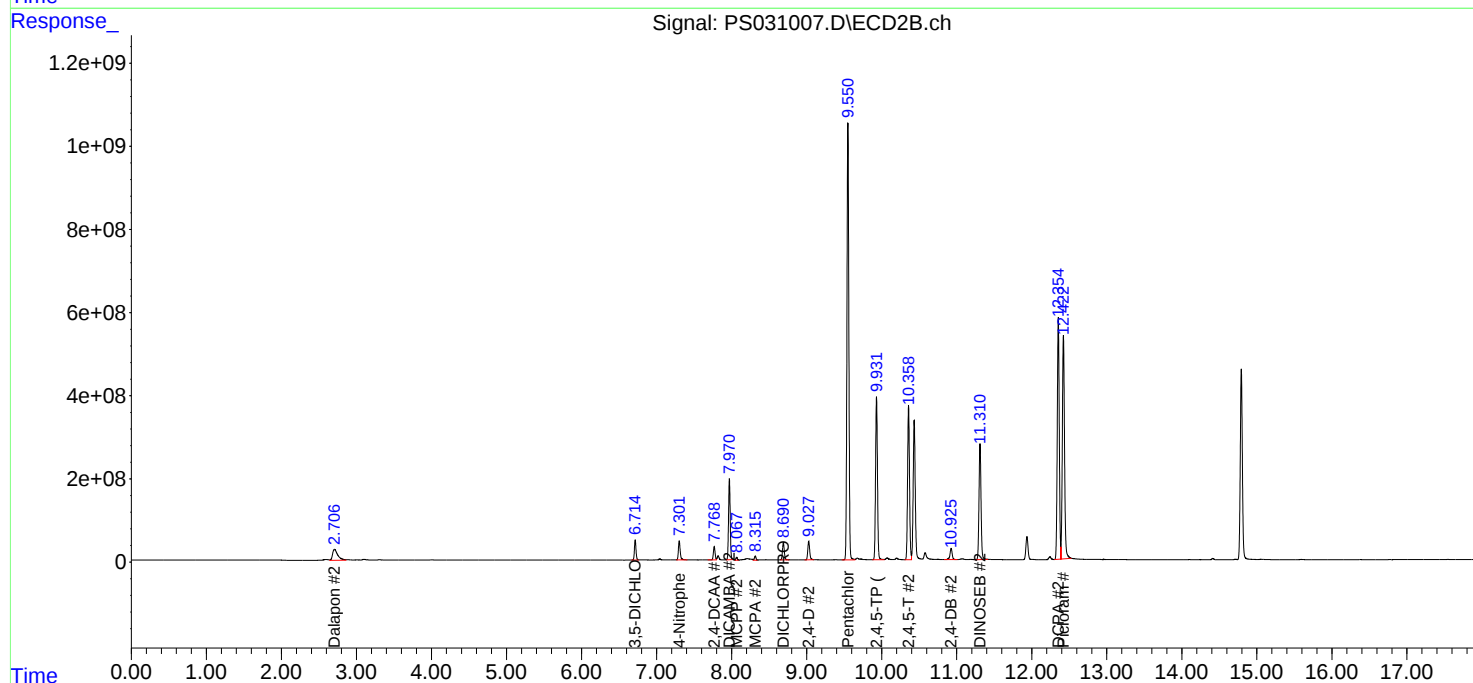
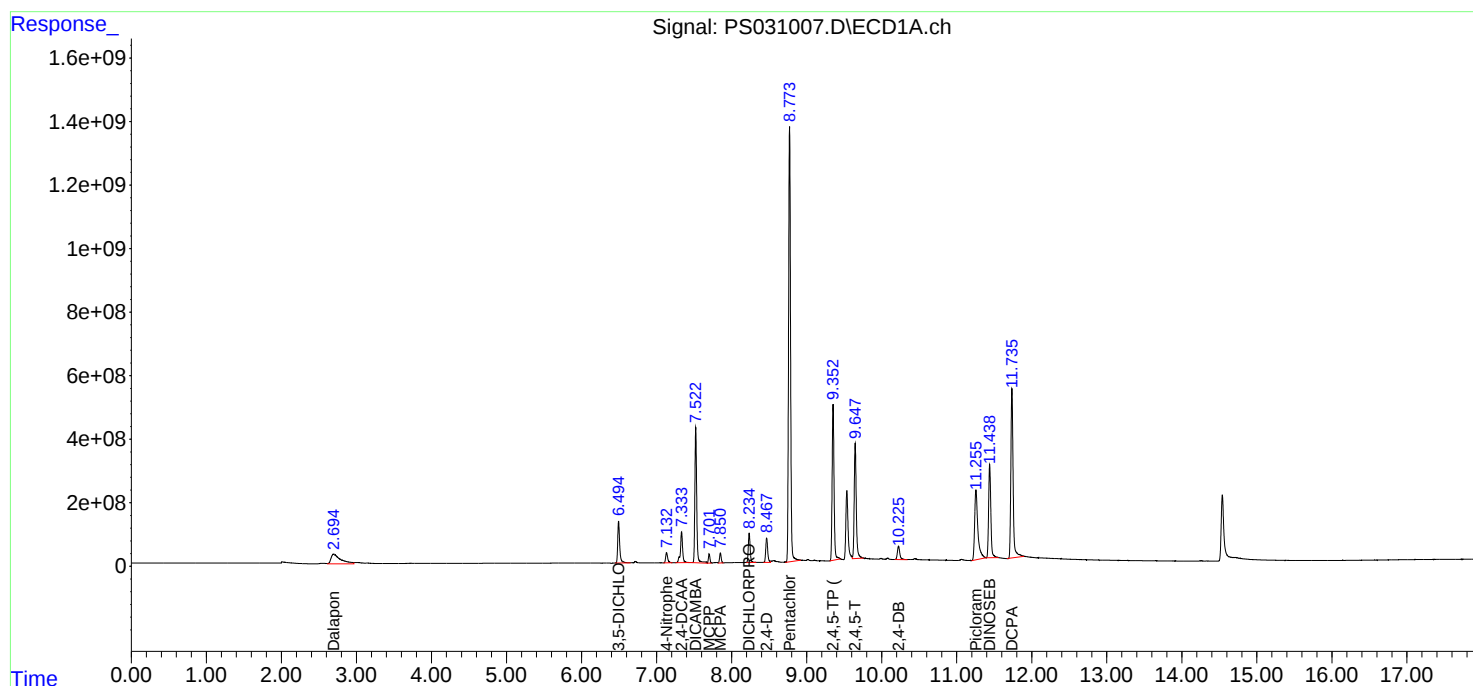
APPROVED

Reviewed By :Abdul Mirza 07/14/2025

Supervised By :mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 03:15:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 03:14:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 16:48
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 03:16:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 03:14:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.333	7.769	2817.0E6	738.1E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.698	2.708	3950.3E6	1850.4E6	682.500	682.500
2) T	3,5-DICHL...	6.494	6.715	3476.6E6	1026.6E6	697.500	697.500
3) T	4-Nitroph...	7.132	7.301	879.4E6	1145.2E6	682.500	682.500
5) T	DICAMBA	7.522	7.971	10591.7E6	4414.0E6	705.000	705.000
6) T	MCPD	7.703	8.069	651.6E6	150.7E6	70.500	70.500
7) T	MCPA	7.853	8.319	749.6E6	221.4E6	69.750	69.750
8) T	DICHLORPROP	8.235	8.691	2272.5E6	1019.0E6	705.000	705.000
9) T	2,4-D	8.467	9.027	2067.0E6	1140.4E6	705.000	705.000
10) T	Pentachlo...	8.773	9.550	36344.0E6	27151.2E6	712.500	712.500
11) T	2,4,5-TP ...	9.353	9.932	12959.6E6	10099.4E6	712.500	712.500
12) T	2,4,5-T	9.647	10.358	10564.4E6	9640.2E6	712.500	712.500
13) T	2,4-DB	10.225	10.926	1487.9E6	802.3E6	712.500	712.500
14) T	DINOSEB	11.439	11.310	9043.1E6	7697.6E6	705.000	705.000
15) T	Picloram	11.254	12.421	10198.3E6	16611.9E6	712.500	712.500
16) T	DCPA	11.736	12.354	16830.2E6	15794.1E6	720.000	720.000

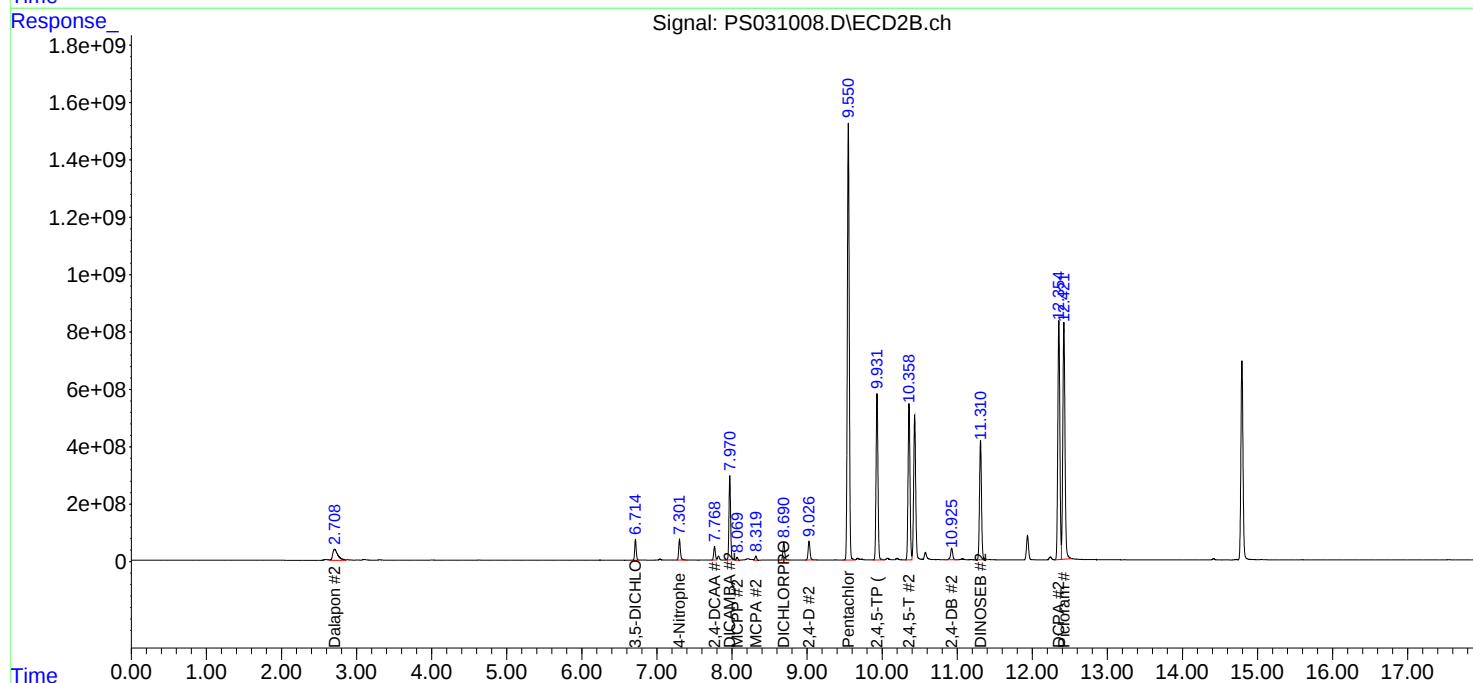
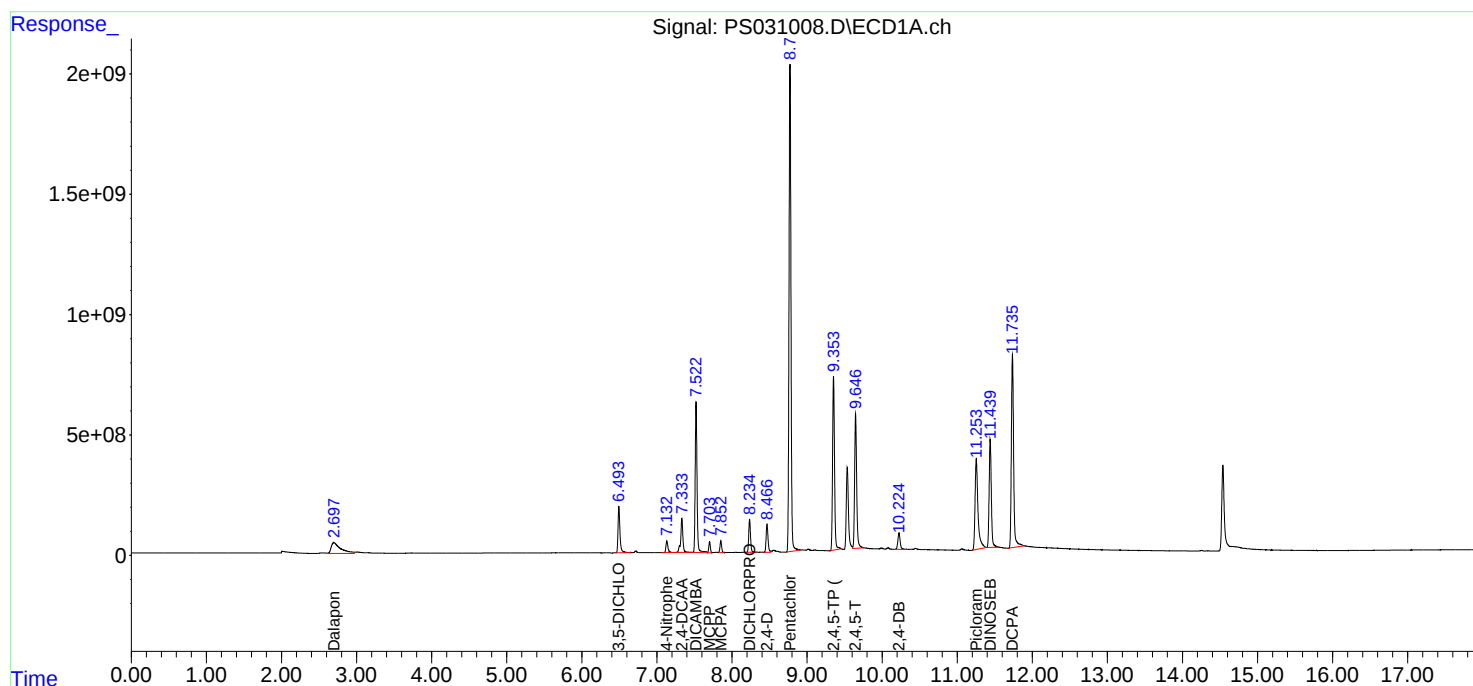
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 16:48
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 03:16:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 03:14:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 17:12
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 03:16:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 03:14:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.333	7.769	3730.2E6	981.3E6	993.136	997.186
Target Compounds							
1) T	Dalapon	2.699	2.707	5242.2E6	2470.8E6	905.706	911.320
2) T	3,5-DICHL...	6.494	6.715	4586.7E6	1368.9E6	920.211	930.100
3) T	4-Nitroph...	7.132	7.301	1171.9E6	1553.4E6	909.484	925.730
5) T	DICAMBA	7.522	7.971	14074.6E6	5978.4E6	936.831	954.851
6) T	MCPD	7.705	8.072	923.0E6	208.2E6	99.864	97.395
7) T	MCPA	7.855	8.321	1059.6E6	300.4E6	98.600	94.607
8) T	DICHLORPROP	8.234	8.691	3026.5E6	1345.3E6	938.920	930.730
9) T	2,4-D	8.466	9.027	2798.2E6	1514.1E6	954.385	936.026
10) T	Pentachlo...	8.777	9.551	45014.0E6	36061.1E6	882.468	946.312
11) T	2,4,5-TP ...	9.353	9.933	17284.4E6	13424.5E6	950.271	947.084
12) T	2,4,5-T	9.647	10.359	14457.9E6	12860.2E6	975.095	950.482
13) T	2,4-DB	10.224	10.926	2058.2E6	1075.0E6	985.558	954.692
14) T	DINOSEB	11.439	11.311	12265.4E6	10343.6E6	956.211	947.331
15) T	Picloram	11.252	12.421	14210.5E6	22631.9E6	992.807	970.701
16) T	DCPA	11.736	12.355	22762.4E6	20994.2E6	973.783	957.057

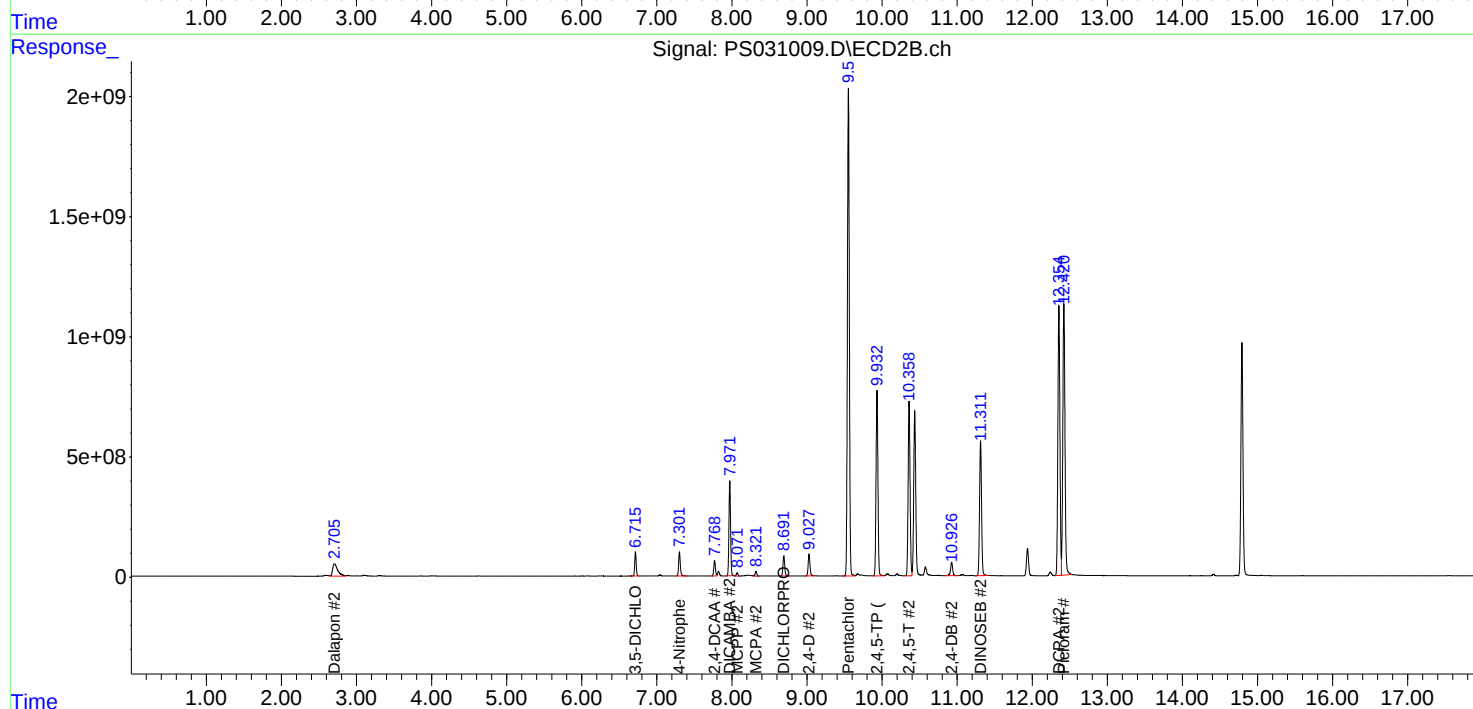
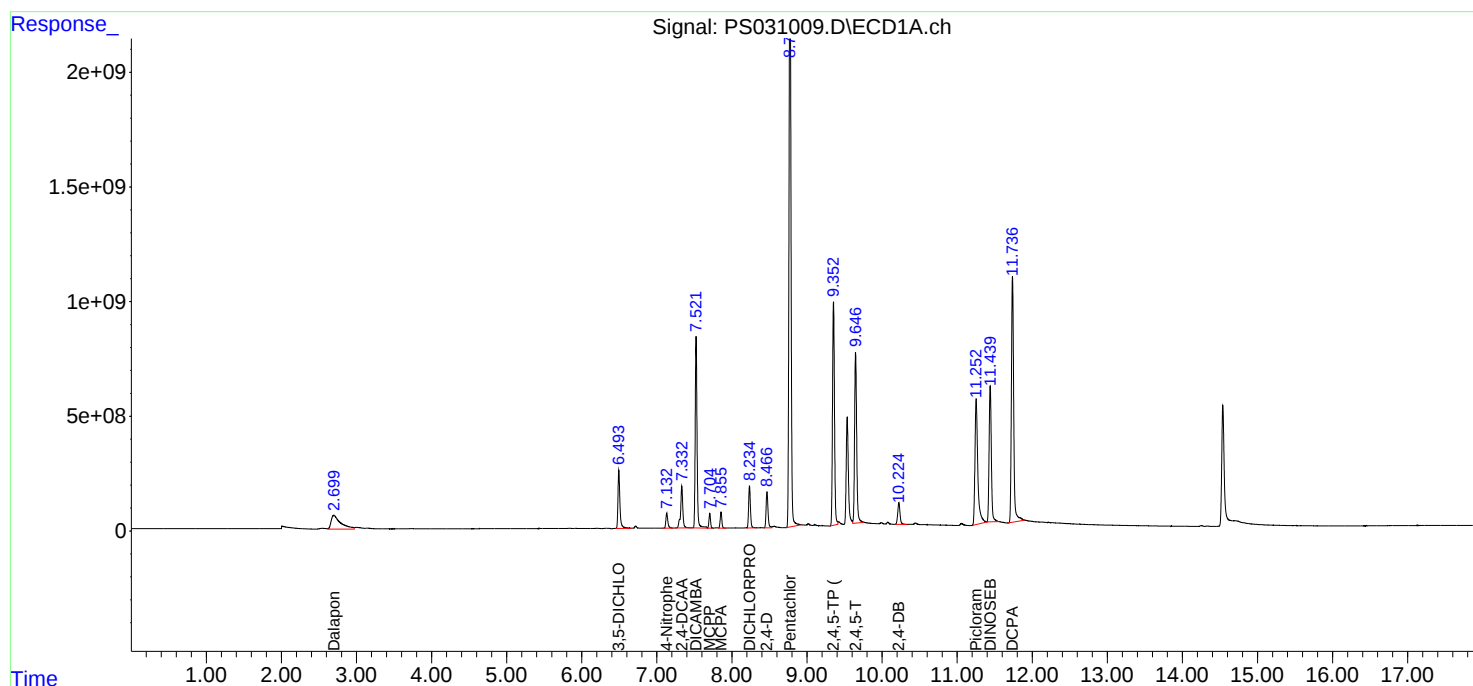
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 17:12
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 03:16:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 03:14:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 17:36
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/14/2025
 Supervised By :mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 03:16:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 03:14:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.332	7.767	5335.8E6	1418.1E6	1420.633m	1441.103
Target Compounds							
1) T	Dalapon	2.698	2.707	7486.5E6	3547.9E6	1293.460	1308.613
2) T	3,5-DICHL...	6.493	6.714	6524.9E6	1980.6E6	1309.060	1345.701
3) T	4-Nitroph...	7.131	7.300	1725.8E6	2292.6E6	1339.368	1366.259
5) T	DICAMBA	7.521	7.970	20106.6E6	8698.0E6	1338.332	1389.226
6) T	MCPD	7.707	8.074	1430.6E6	309.1E6	154.781	144.613
7) T	MCPA	7.857	8.324	1645.7E6	445.0E6	153.134	140.171
8) T	DICHLORPROP	8.234	8.689	4381.4E6	1928.8E6	1359.272	1334.416
9) T	2,4-D	8.466	9.025	4148.9E6	2179.6E6	1415.062	1347.498
10) T	Pentachlo...	8.782	9.550	52777.9E6	46094.6E6	1034.675	1209.611
11) T	2,4,5-TP ...	9.352	9.931	25168.8E6	19018.3E6	1383.742	1341.717
12) T	2,4,5-T	9.646	10.358	21706.0E6	18321.9E6	1463.931	1354.148
13) T	2,4-DB	10.223	10.925	3219.3E6	1559.4E6	1541.540	1384.859
14) T	DINOSEB	11.439	11.310	18156.7E6	14885.6E6	1415.498	1363.317
15) T	Picloram	11.250	12.420	22339.0E6	32971.5E6	1560.697	1414.175
16) T	DCPA	11.735	12.353	32997.7E6	29826.3E6	1411.653	1359.686m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 17:36
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

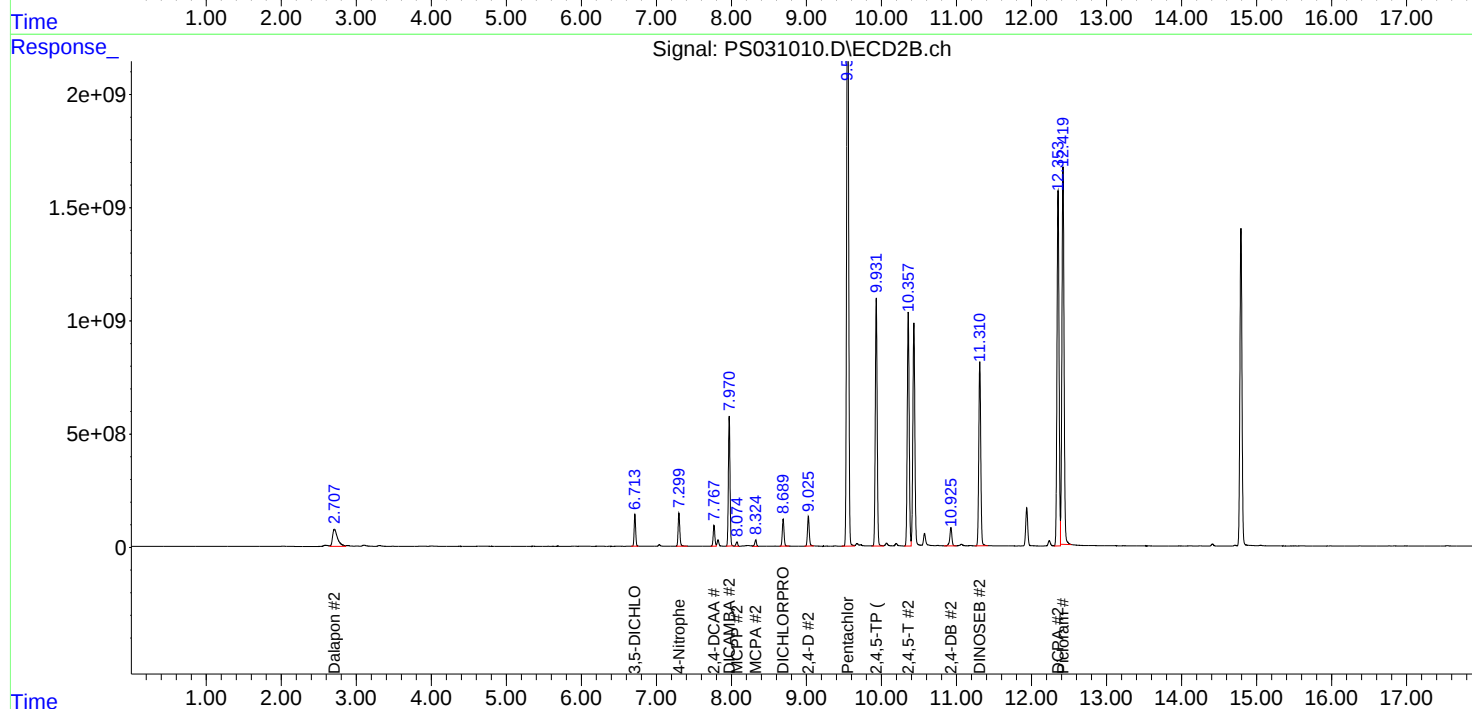
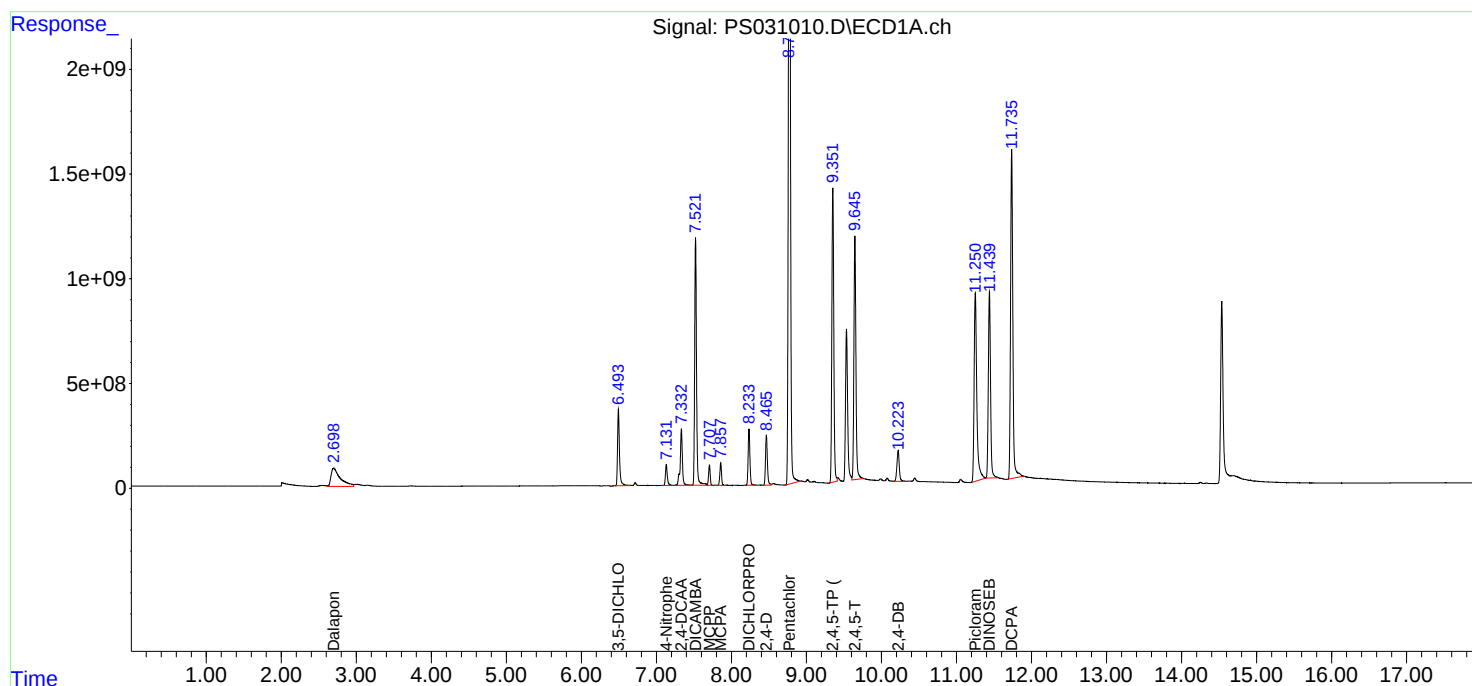
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 07/14/2025
Supervised By : mohammad ahmed 07/15/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 03:16:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 03:14:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
 Data File : PS031011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Jul 2025 18:00
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS071125

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 14 06:06:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.332	7.768	2825.0E6	731.4E6	714.274	705.963
Target Compounds							
1) T	Dalapon	2.695	2.706	3939.2E6	1843.1E6	646.655	648.311
2) T	3,5-DICHL...	6.493	6.714	3460.4E6	1019.8E6	660.550	657.810
3) T	4-Nitroph...	7.132	7.301	889.5E6	1143.6E6	658.879	655.777
5) T	DICAMBA	7.521	7.970	10533.5E6	4396.1E6	671.311	678.778
6) T	MCPD	7.703	8.069	652.1E6	151.4E6	70.866	70.806
7) T	MCPA	7.852	8.318	753.4E6	219.4E6	69.076	68.455
8) T	DICHLORPROP	8.234	8.690	2289.8E6	1012.0E6	672.461	666.146
9) T	2,4-D	8.466	9.026	2119.0E6	1134.8E6	688.327	667.745
10) T	Pentachlo...	8.772	9.550	36604.6E6	27066.6E6	728.282	702.389
11) T	2,4,5-TP ...	9.351	9.931	13144.8E6	10082.1E6	706.301	686.990
12) T	2,4,5-T	9.646	10.358	10944.0E6	9628.3E6	719.369	688.141
13) T	2,4-DB	10.224	10.926	1553.9E6	805.1E6	715.821	680.422
14) T	DINOSEB	11.439	11.311	9337.6E6	7679.2E6	708.255	676.490
15) T	Picloram	11.253	12.421	10790.8E6	16807.3E6	740.520	715.792
16) T	DCPA	11.736	12.354	17450.4E6	15781.9E6	729.009	699.801

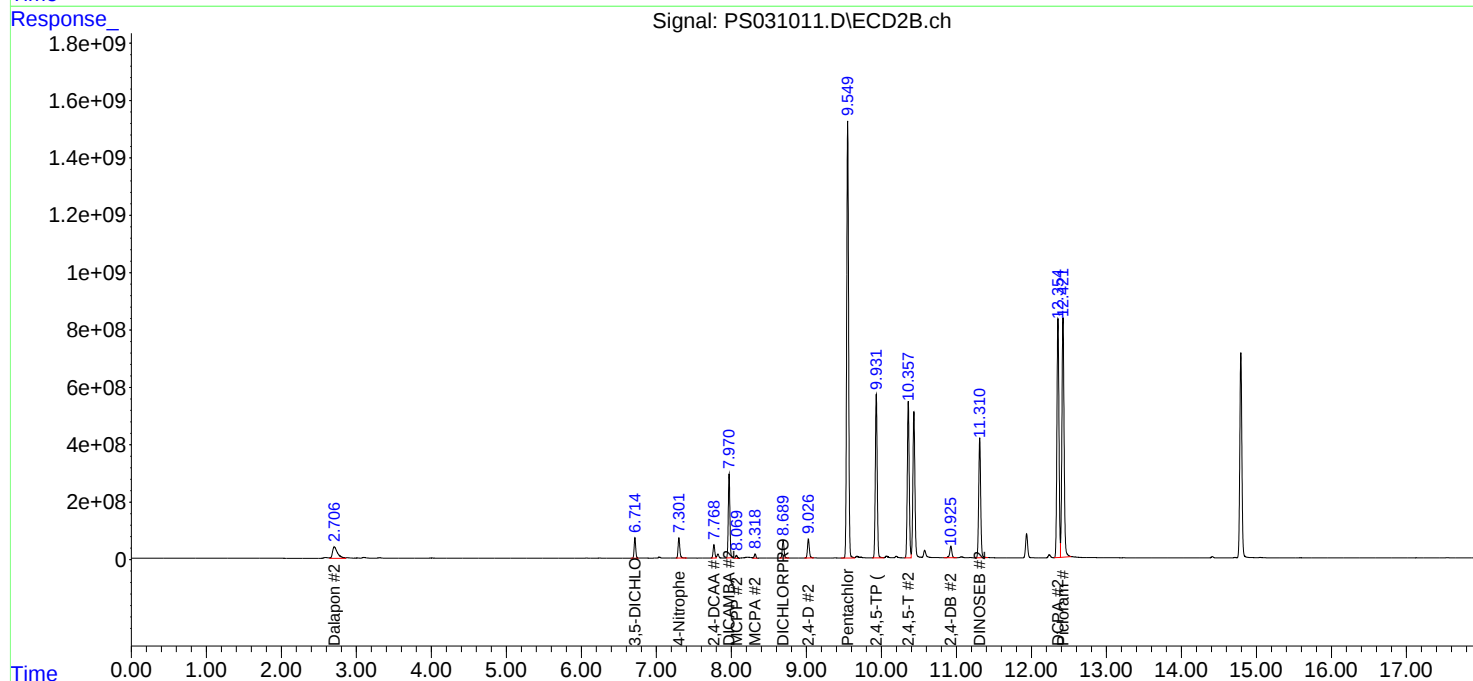
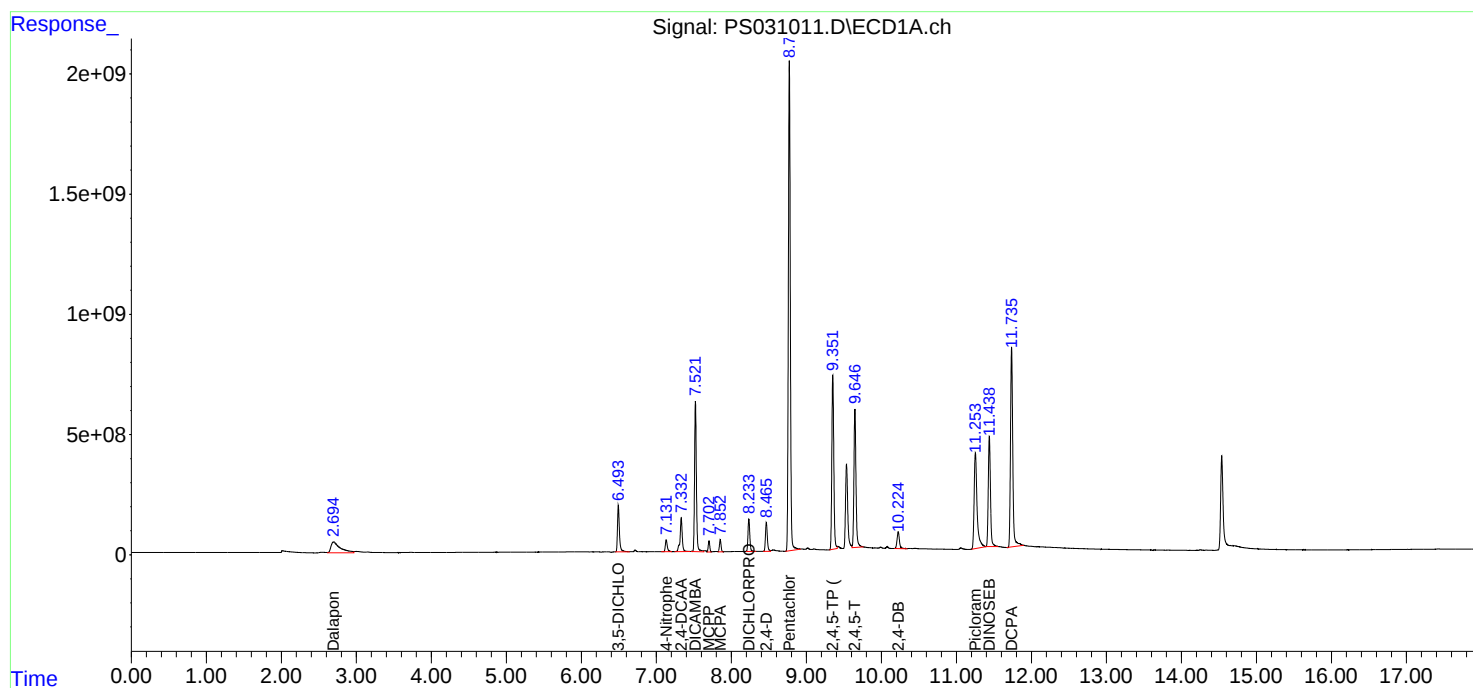
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 18:00
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS071125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 06:06:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/15/2025

Initial Calibration Date(s): 07/11/2025

07/11/2025

Continuing Calib Time: 17:57

Initial Calibration Time(s): 16:00

17:36

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00



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

CALIBRATION VERIFICATION SUMMARY**Lab Name:** Alliance**Contract:** ENTA05**Lab Code:** ACE**SDG NO.:** Q2579**Continuing Calib Date:** 07/15/2025**Initial Calibration Date(s):** 07/11/2025 07/11/2025**Continuing Calib Time:** 17:57**Initial Calibration Time(s):** 16:00 17:36**GC Column:** RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ENTA05
Lab Code: ACE **SDG NO.:** Q2579
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/15/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031031.D **Time Analyzed:** 17:57

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.349	9.253	9.453	790.810	712.500	11.0
2,4-D	8.463	8.367	8.567	800.550	705.000	13.6
2,4-DCAA	7.330	7.233	7.433	705.580	750.000	-5.9



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: ENTA05
Lab Code: ACE SDG NO.: Q2579
GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 07/11/2025 07/11/2025

Client Sample No.: CCAL01 Date Analyzed: 07/15/2025
Lab Sample No.: HSTDCCC750 Data File : PS031031.D Time Analyzed: 17:57

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.931	9.832	10.032	700.050	712.500	-1.7
2,4-D	9.026	8.927	9.127	769.490	705.000	9.1
2,4-DCAA	7.768	7.669	7.869	686.980	750.000	-8.4

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
 Data File : PS031031.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Jul 2025 17:57
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/16/2025
 Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 02:22:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.330	7.768	2790.6E6	711.7E6	705.580	686.981
Target Compounds							
1) T	Dalapon	2.697	2.707	3728.7E6	1670.5E6	612.098	587.610
2) T	3,5-DICHL...	6.492	6.715	3602.4E6	978.5E6	687.665	631.122
3) T	4-Nitroph...	7.129	7.301	1017.7E6	1130.8E6	753.857m	648.429
5) T	DICAMBA	7.520	7.970	9472.0E6	4191.4E6	603.664	647.181
6) T	MCPD	7.700	8.070	608.6E6	129.0E6	66.141m	60.333
7) T	MCPA	7.850	8.318	762.7E6	215.5E6	69.927m	67.217
8) T	DICHLORPROP	8.231	8.690	2764.4E6	1107.9E6	811.831	729.213
9) T	2,4-D	8.463	9.026	2464.5E6	1307.7E6	800.555m	769.485
10) T	Pentachlo...	8.769	9.550	37920.9E6	26909.4E6	754.471m	698.310
11) T	2,4,5-TP ...	9.349	9.931	14717.5E6	10273.8E6	790.806m	700.051
12) T	2,4,5-T	9.643	10.357	12021.5E6	9203.3E6	790.196m	657.766
13) T	2,4-DB	10.222	10.925	1556.5E6	778.5E6	717.022	657.944
14) T	DINOSEB	11.436	11.310	10081.0E6	7543.6E6	764.643m	664.544
15) T	Picloram	11.246	12.419	14334.4E6	16908.0E6	983.696m	720.080 #
16) T	DCPA	11.732	12.354	18815.2E6	15402.6E6	786.022m	682.984

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 17:57
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

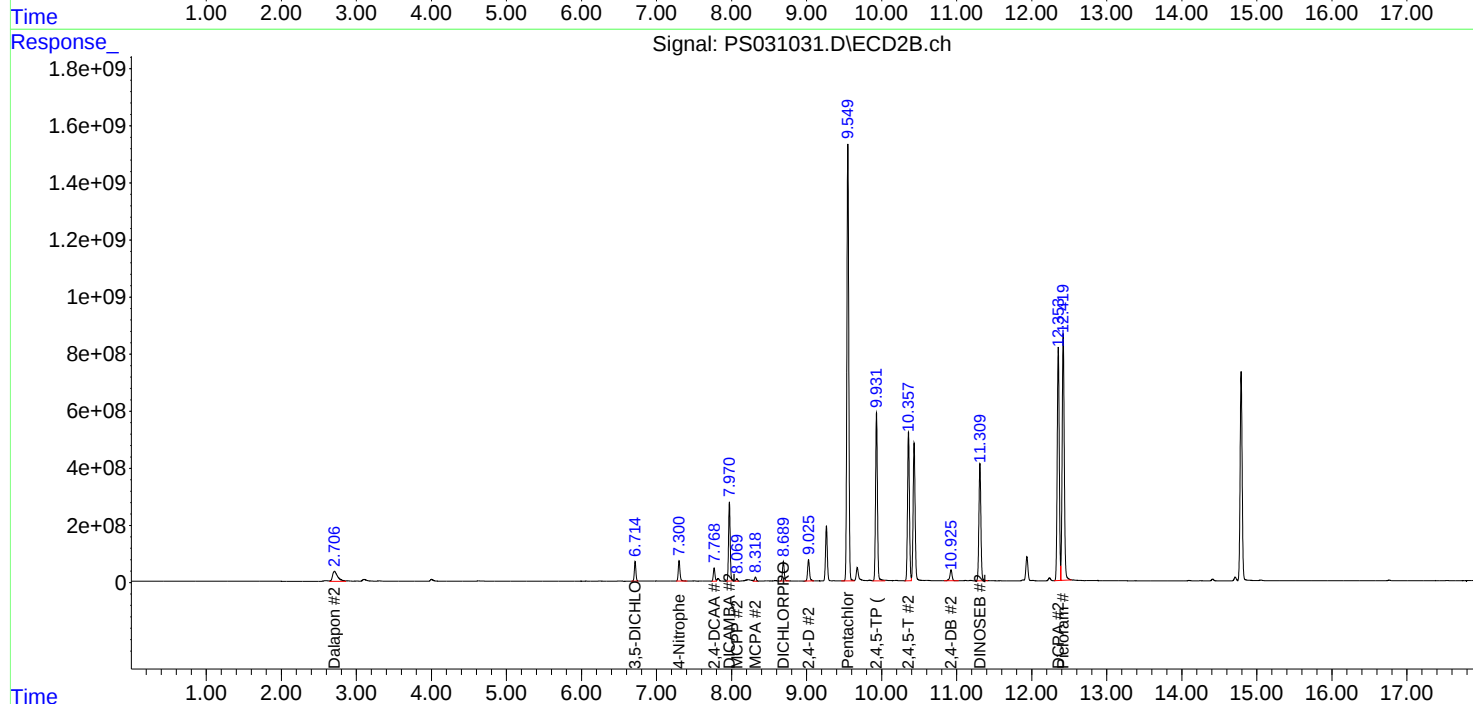
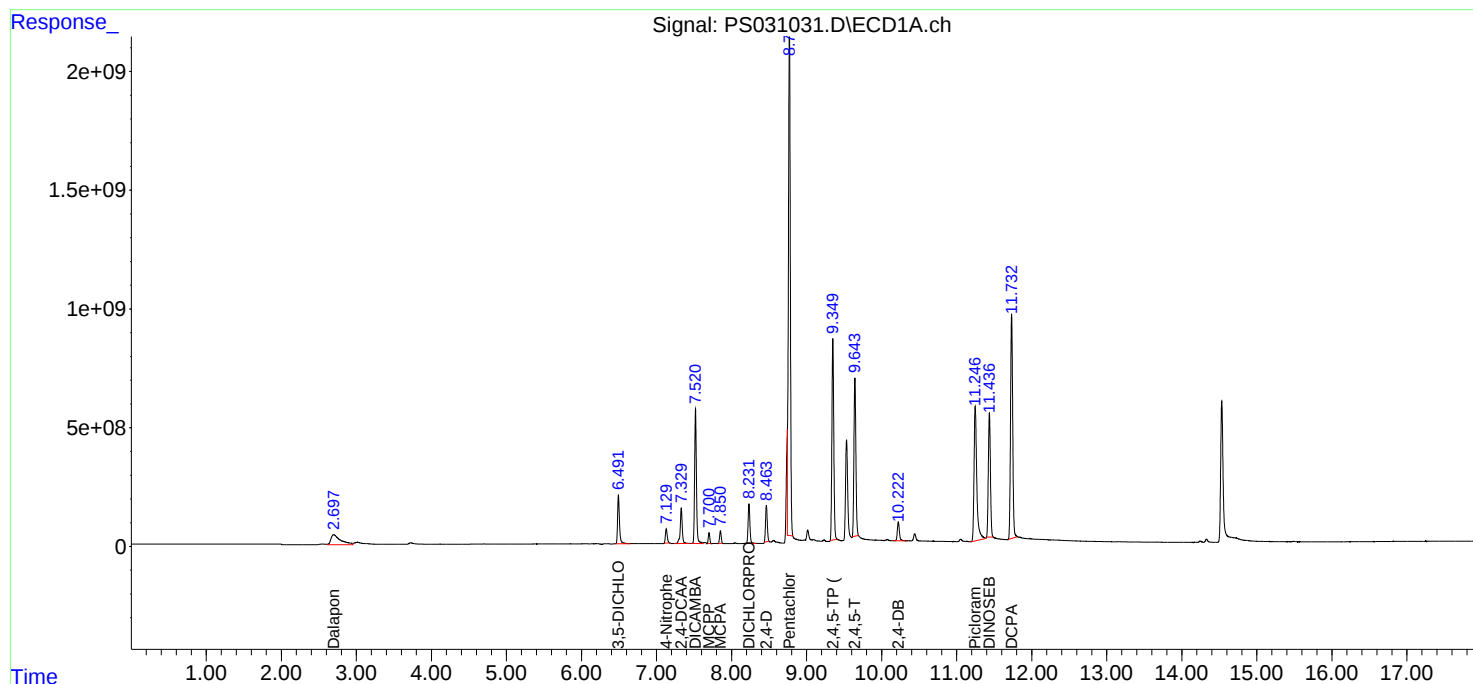
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 07/16/2025
Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:22:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 00:48

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 00:48

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ENTA05
Lab Code: ACE **SDG NO.:** Q2579
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/16/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031047.D **Time Analyzed:** 00:48

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.348	9.253	9.453	797.710	712.500	12.0
2,4-D	8.462	8.367	8.567	826.870	705.000	17.3
2,4-DCAA	7.330	7.233	7.433	708.400	750.000	-5.5



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: ENTA05
Lab Code: ACE SDG NO.: Q2579
GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 07/11/2025 07/11/2025

Client Sample No.: CCAL02 Date Analyzed: 07/16/2025
Lab Sample No.: HSTDCCC750 Data File : PS031047.D Time Analyzed: 00:48

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.930	9.832	10.032	695.980	712.500	-2.3
2,4-D	9.025	8.927	9.127	770.790	705.000	9.3
2,4-DCAA	7.768	7.669	7.869	689.100	750.000	-8.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
 Data File : PS031047.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jul 2025 00:48
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/16/2025
 Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 02:44:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.330	7.768	2801.8E6	713.9E6	708.404	689.104
Target Compounds							
1) T	Dalapon	2.695	2.706	3695.2E6	1756.9E6	606.599	618.017
2) T	3,5-DICHL...	6.491	6.715	3642.6E6	1004.7E6	695.344	648.049
3) T	4-Nitroph...	7.128	7.301	1049.4E6	1136.3E6	777.333m	651.585
5) T	DICAMBA	7.519	7.970	9538.2E6	4213.9E6	607.879	650.656
6) T	MCPD	7.700	8.069	598.3E6	130.0E6	65.019m	60.824
7) T	MCPA	7.849	8.318	764.3E6	208.8E6	70.080m	65.127
8) T	DICHLORPROP	8.230	8.689	2763.9E6	1112.5E6	811.669	732.282
9) T	2,4-D	8.462	9.025	2545.5E6	1309.9E6	826.874m	770.792
10) T	Pentachlo...	8.767	9.549	38518.8E6	27019.4E6	766.366m	701.164
11) T	2,4,5-TP ...	9.348	9.930	14845.9E6	10214.1E6	797.708m	695.983
12) T	2,4,5-T	9.641	10.357	12550.0E6	9209.5E6	824.935m	658.203
13) T	2,4-DB	10.220	10.924	1419.8E6	779.6E6	654.039m	658.939
14) T	DINOSEB	11.433	11.309	10169.2E6	7502.7E6	771.337m	660.946
15) T	Picloram	11.245	12.419	14246.0E6	16782.6E6	977.632m	714.742 #
16) T	DCPA	11.729	12.353	18630.3E6	15425.6E6	778.301m	684.004

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 00:48
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

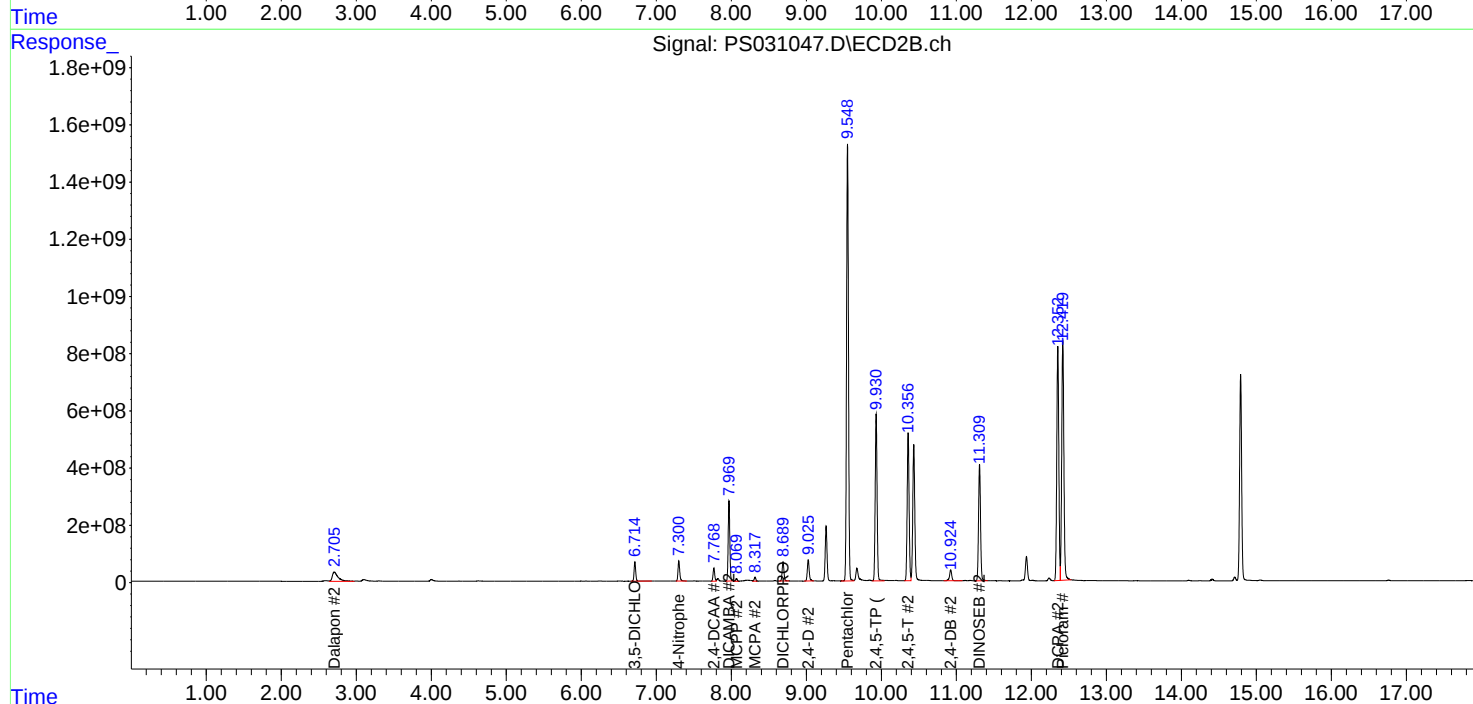
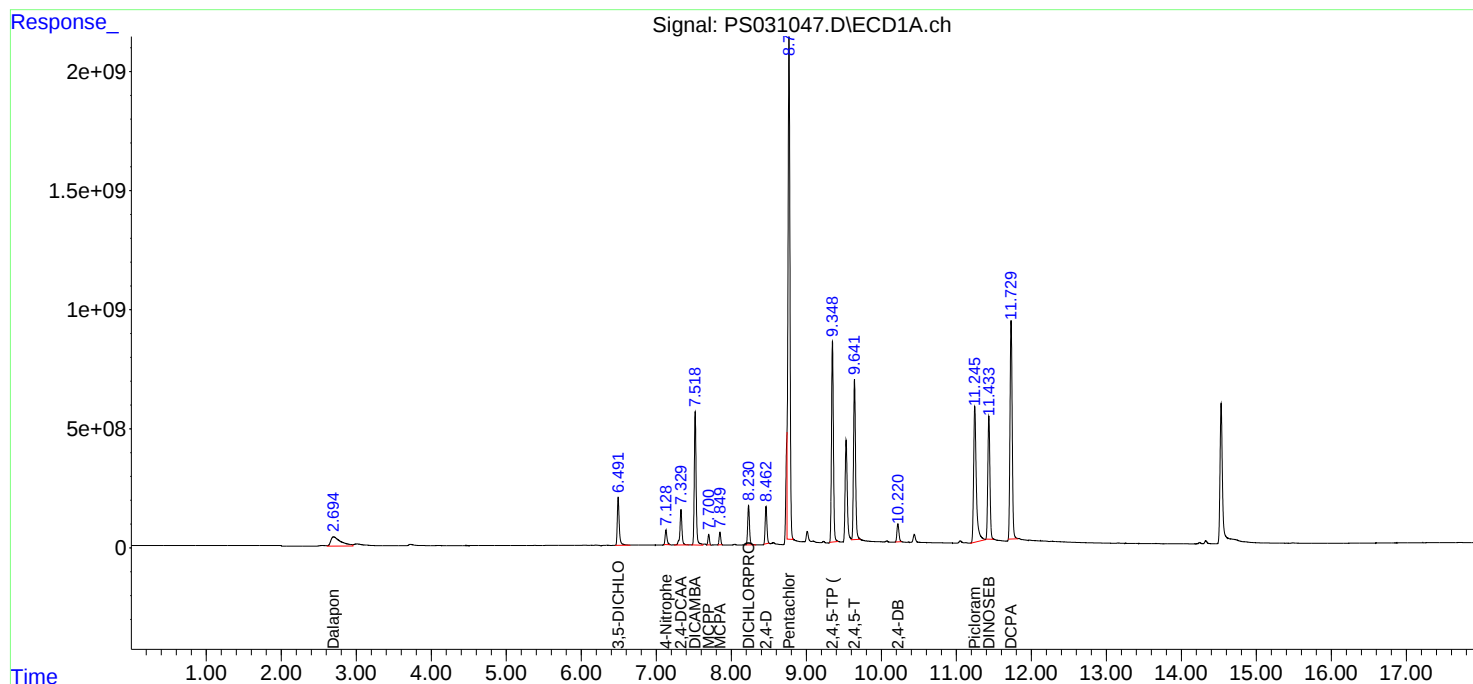
APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:44:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 07:14

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 07:14

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ENTA05
Lab Code: ACE **SDG NO.:** Q2579
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/16/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031062.D **Time Analyzed:** 07:14

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.346	9.253	9.453	803.190	712.500	12.7
2,4-D	8.461	8.367	8.567	803.510	705.000	14.0
2,4-DCAA	7.327	7.233	7.433	616.170	750.000	-17.8



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ENTA05
Lab Code: ACE **SDG NO.:** Q2579
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/16/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031062.D **Time Analyzed:** 07:14

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.928	9.832	10.032	694.060	712.500	-2.6
2,4-D	9.024	8.927	9.127	764.900	705.000	8.5
2,4-DCAA	7.767	7.669	7.869	685.950	750.000	-8.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
 Data File : PS031062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jul 2025 07:14
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/16/2025
 Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 07:52:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.327	7.767	2437.0E6	710.7E6	616.166m	685.951
Target Compounds							
1) T	Dalapon	2.695	2.706	3725.3E6	1737.8E6	611.539	611.271
2) T	3,5-DICHL...	6.491	6.714	3624.5E6	983.8E6	691.891	634.603
3) T	4-Nitroph...	7.128	7.300	1082.3E6	1136.2E6	801.675m	651.526
5) T	DICAMBA	7.518	7.968	9431.3E6	4182.8E6	601.065	645.846
6) T	MCPD	7.698	8.068	596.0E6	129.0E6	64.775	60.326
7) T	MCPA	7.848	8.316	822.1E6	209.1E6	75.378	65.233m
8) T	DICHLORPROP	8.229	8.688	2735.7E6	1094.9E6	803.394	720.692
9) T	2,4-D	8.461	9.024	2473.6E6	1299.9E6	803.510m	764.899
10) T	Pentachlo...	8.767	9.547	37872.2E6	26975.0E6	753.502m	700.013
11) T	2,4,5-TP ...	9.346	9.928	14947.9E6	10185.9E6	803.188	694.060
12) T	2,4,5-T	9.641	10.355	12223.2E6	9153.3E6	803.452m	654.186
13) T	2,4-DB	10.219	10.923	1587.0E6	772.3E6	731.071	652.714
14) T	DINOSEB	11.432	11.307	10122.5E6	7469.7E6	767.795m	658.032
15) T	Picloram	11.244	12.417	14416.8E6	16694.6E6	989.350	710.994 #
16) T	DCPA	11.729	12.351	18757.5E6	15455.9E6	783.613m	685.346m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 07:14
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

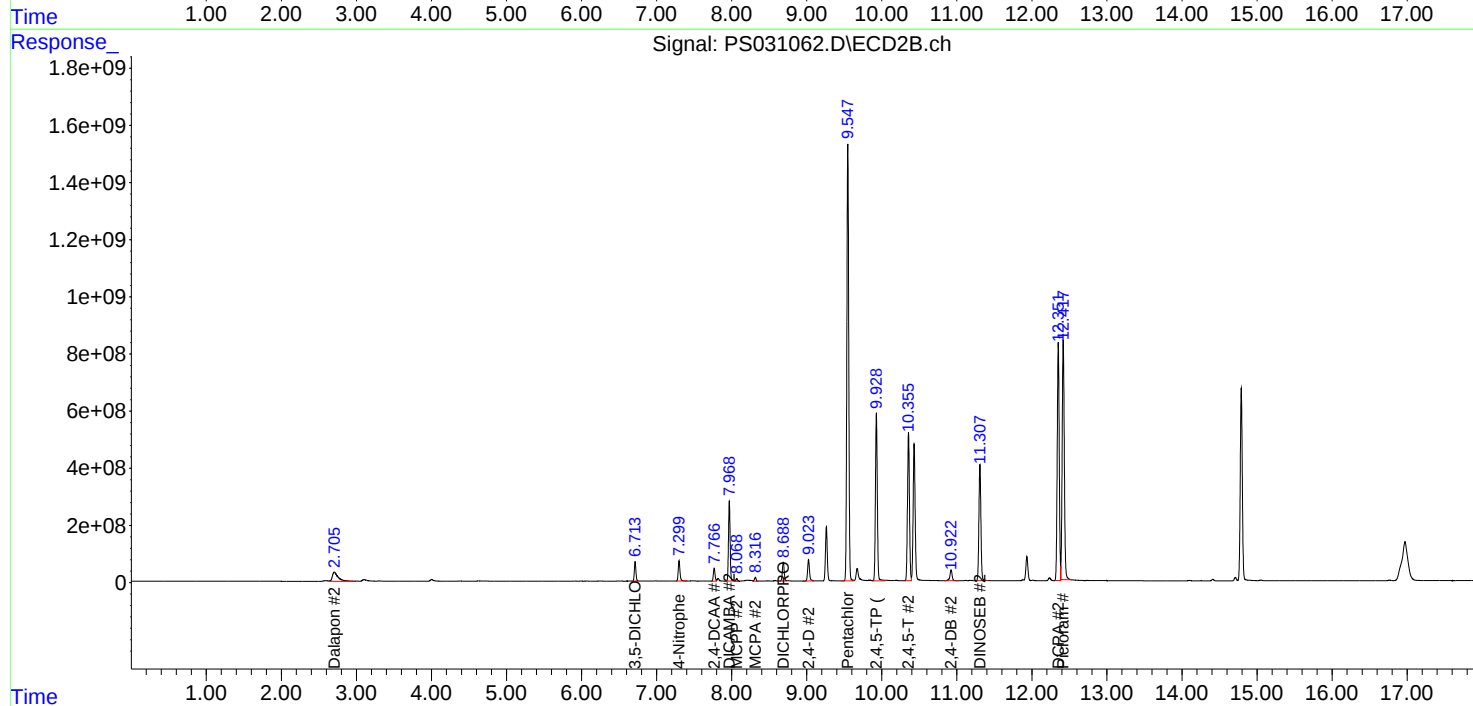
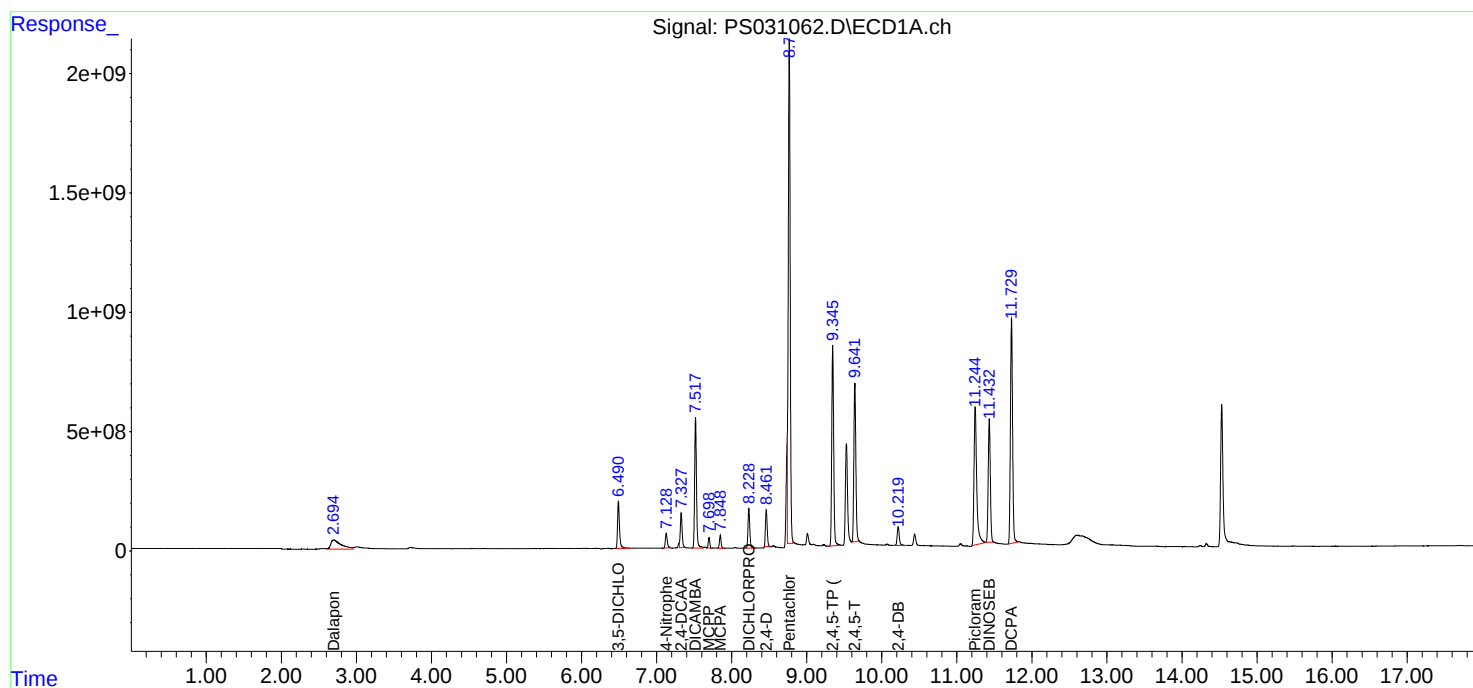
APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 07:52:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 15:28

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Continuing Calib Date: 07/16/2025

Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 15:28

Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: ENTA05

Lab Code: ACE SDG NO.: Q2579

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 07/11/2025 07/11/2025

Client Sample No.: CCAL04 Date Analyzed: 07/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS031072.D Time Analyzed: 15:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.347	9.253	9.453	845.440	712.500	18.7
2,4-D	8.462	8.367	8.567	906.660	705.000	28.6
2,4-DCAA	7.329	7.233	7.433	736.380	750.000	-1.8



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: ENTA05
Lab Code: ACE SDG NO.: Q2579
GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 07/11/2025 07/11/2025

Client Sample No.: CCAL04 Date Analyzed: 07/16/2025
Lab Sample No.: HSTDCCC750 Data File : PS031072.D Time Analyzed: 15:28

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.930	9.832	10.032	709.630	712.500	-0.4
2,4-D	9.025	8.927	9.127	782.500	705.000	11.0
2,4-DCAA	7.767	7.669	7.869	699.880	750.000	-6.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
 Data File : PS031072.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jul 2025 15:28
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 07/17/2025
 Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 15:44:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.329	7.767	2912.4E6	725.1E6	736.382	699.879
Target Compounds							
1) T	Dalapon	2.695	2.705	3767.7E6	1738.4E6	618.490	611.509
2) T	3,5-DICHL...	6.491	6.714	3795.6E6	992.7E6	724.553	640.331
3) T	4-Nitroph...	7.128	7.300	1223.1E6	1127.7E6	905.971	646.678 #
5) T	DICAMBA	7.518	7.969	9872.9E6	4271.1E6	629.209	659.492
6) T	MCPD	7.699	8.069	651.6E6	132.0E6	70.814	61.738
7) T	MCPA	7.849	8.317	863.6E6	216.6E6	79.183	67.574
8) T	DICHLORPROP	8.230	8.689	2872.8E6	1128.3E6	843.659	742.674
9) T	2,4-D	8.462	9.025	2791.1E6	1329.8E6	906.663m	782.501
10) T	Pentachlo...	8.765	9.549	39515.9E6	27391.5E6	786.205m	710.820
11) T	2,4,5-TP ...	9.347	9.930	15734.2E6	10414.4E6	845.435	709.631
12) T	2,4,5-T	9.641	10.357	13835.1E6	9360.1E6	909.409	668.970 #
13) T	2,4-DB	10.220	10.924	1685.2E6	790.1E6	776.295	667.752
14) T	DINOSEB	11.433	11.309	10692.9E6	7565.8E6	811.058	666.501
15) T	Picloram	11.244	12.420	15305.3E6	17090.3E6	1050.327	727.845 #
16) T	DCPA	11.730	12.353	19956.9E6	15389.9E6	833.722	682.418

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031072.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 15:28
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

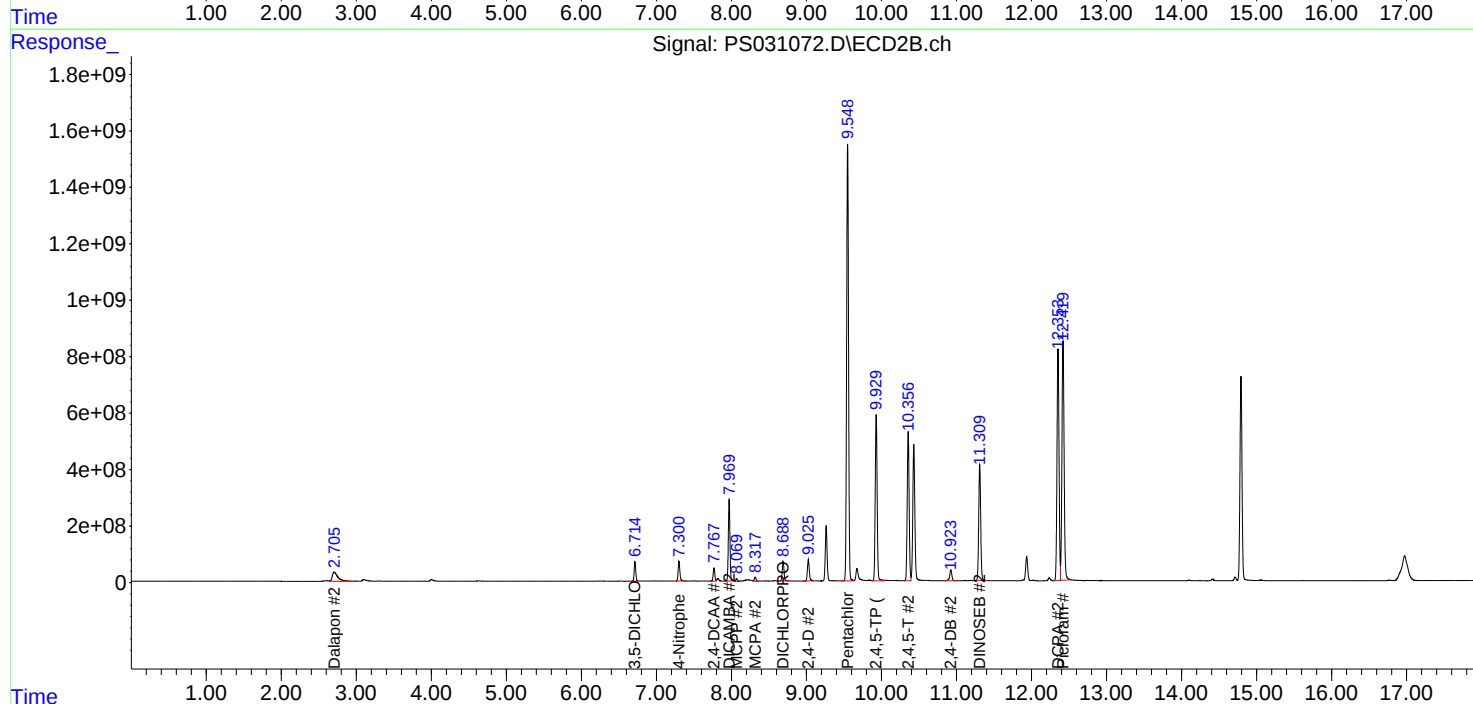
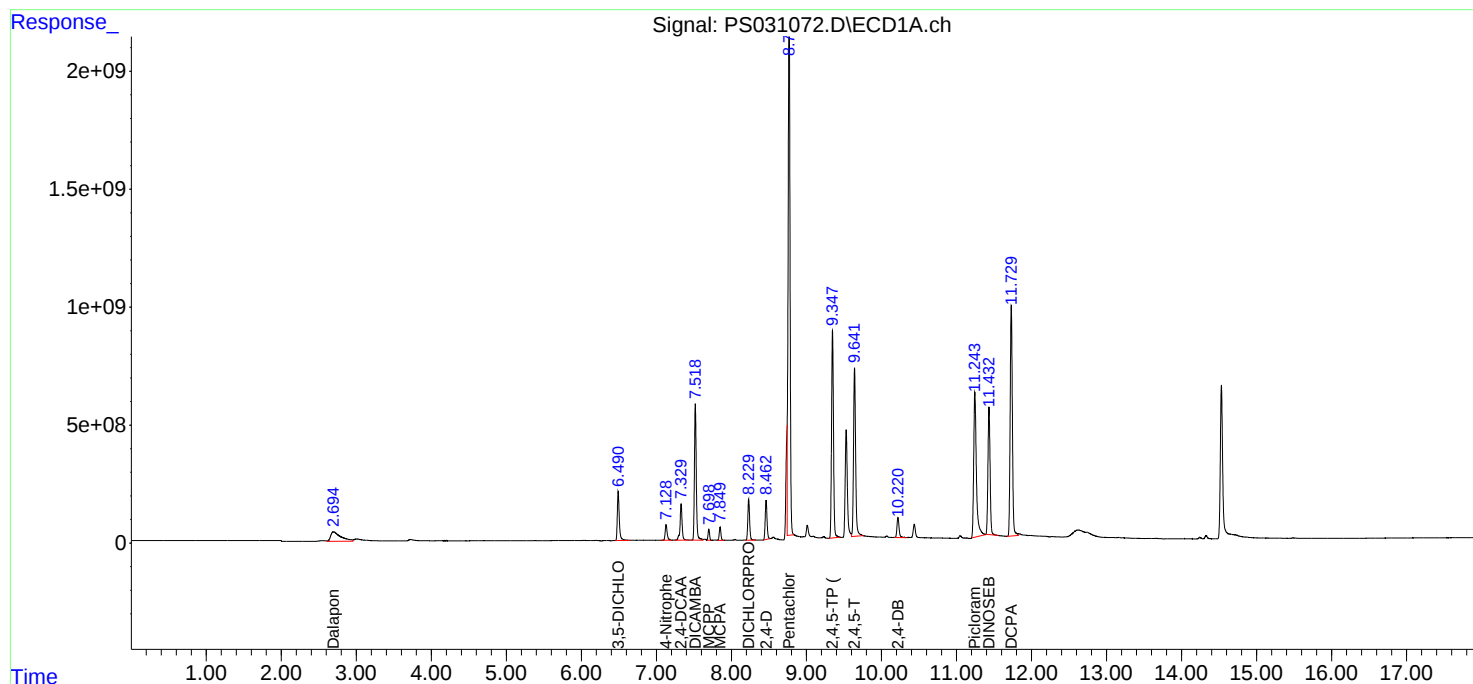
APPROVED

Reviewed By :Abdul Mirza 07/17/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 15:44:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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: ENTACT	SDG No.: Q2579
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 07/11/2025 07/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	07/11/2025	15:35	PS031005.D	7.33	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.33	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.33	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.33	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.33	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.33	0.00
IBLK	IBLK	07/15/2025	17:08	PS031030.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/15/2025	17:57	PS031031.D	7.33	0.00
PB168844BL	PB168844BL	07/15/2025	18:21	PS031032.D	7.33	0.00
PB168844BS	PB168844BS	07/15/2025	18:45	PS031033.D	7.33	0.00
PB168803TB	PB168803TB	07/15/2025	19:33	PS031035.D	7.33	0.00
G4(0-6)MS	Q2489-01MS	07/15/2025	20:22	PS031037.D	7.33	0.00
G4(0-6)MSD	Q2489-01MSD	07/15/2025	20:46	PS031038.D	7.33	0.00
IBLK	IBLK	07/15/2025	23:59	PS031046.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	00:48	PS031047.D	7.33	0.00
IBLK	IBLK	07/16/2025	06:50	PS031061.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	07:14	PS031062.D	7.33	0.00
WC-A2-13-C	Q2579-03	07/16/2025	13:51	PS031068.D	7.33	0.00
WC-A2-14-C	Q2579-07	07/16/2025	14:15	PS031069.D	7.33	0.00
IBLK	IBLK	07/16/2025	15:04	PS031071.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	15:28	PS031072.D	7.33	0.00

Analytical Sequence

Client: ENTACT	SDG No.: Q2579
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 07/11/2025 07/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	07/11/2025	15:35	PS031005.D	7.77	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.77	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.77	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.77	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.77	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.77	0.00
IBLK	IBLK	07/15/2025	17:08	PS031030.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/15/2025	17:57	PS031031.D	7.77	0.00
PB168844BL	PB168844BL	07/15/2025	18:21	PS031032.D	7.77	0.00
PB168844BS	PB168844BS	07/15/2025	18:45	PS031033.D	7.77	0.00
PB168803TB	PB168803TB	07/15/2025	19:33	PS031035.D	7.77	0.00
G4(0-6)MS	Q2489-01MS	07/15/2025	20:22	PS031037.D	7.77	0.00
G4(0-6)MSD	Q2489-01MSD	07/15/2025	20:46	PS031038.D	7.77	0.00
IBLK	IBLK	07/15/2025	23:59	PS031046.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	00:48	PS031047.D	7.77	0.00
IBLK	IBLK	07/16/2025	06:50	PS031061.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	07:14	PS031062.D	7.77	0.00
WC-A2-13-C	Q2579-03	07/16/2025	13:51	PS031068.D	7.77	0.00
WC-A2-14-C	Q2579-07	07/16/2025	14:15	PS031069.D	7.77	0.00
IBLK	IBLK	07/16/2025	15:04	PS031071.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/16/2025	15:28	PS031072.D	7.77	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

G4(0-6)MS

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Lab Sample ID: Q2489-01MS

Date(s) Analyzed: 07/15/2025 07/15/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.46	8.41	8.51	53.1	21.7
	2	9.03	8.98	9.08	42.7	
2,4,5-TP(Silvex)	1	9.35	9.30	9.40	53.1	7.6
	2	9.93	9.88	9.98	57.3	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

G4(0-6)MSD

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Lab Sample ID: Q2489-01MSD

Date(s) Analyzed: 07/15/2025 07/15/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.46	8.41	8.51	54.9	10.3
	2	9.02	8.97	9.07	49.5	
2,4,5-TP(Silvex)	1	9.35	9.30	9.40	55.5	7.3
	2	9.93	9.88	9.98	59.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168844BS

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2579

Lab Sample ID: PB168844BS

Date(s) Analyzed: 07/15/2025 07/15/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.46	8.41	8.51	5.80	14.8
	2	9.03	8.98	9.08	5.00	
2,4,5-TP(Silvex)	1	9.35	9.30	9.40	5.30	9.9
	2	9.93	9.88	9.98	4.80	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:		
Client Sample ID:	PB168844BL		SDG No.:	Q2579	
Lab Sample ID:	PB168844BL		Matrix:	TCLP	
Analytical Method:	8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031032.D	1	07/14/25 10:14	07/15/25 18:21	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	499		70 (61) - 130 (136)	100%	SPK: 500

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_S\Data\PS071525\
Data File : PS031032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 18:21
Operator : AR\AJ
Sample : PB168844BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168844BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:49:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.330	7.767	1671.9E6	516.6E6	422.713	498.603

Target Compounds

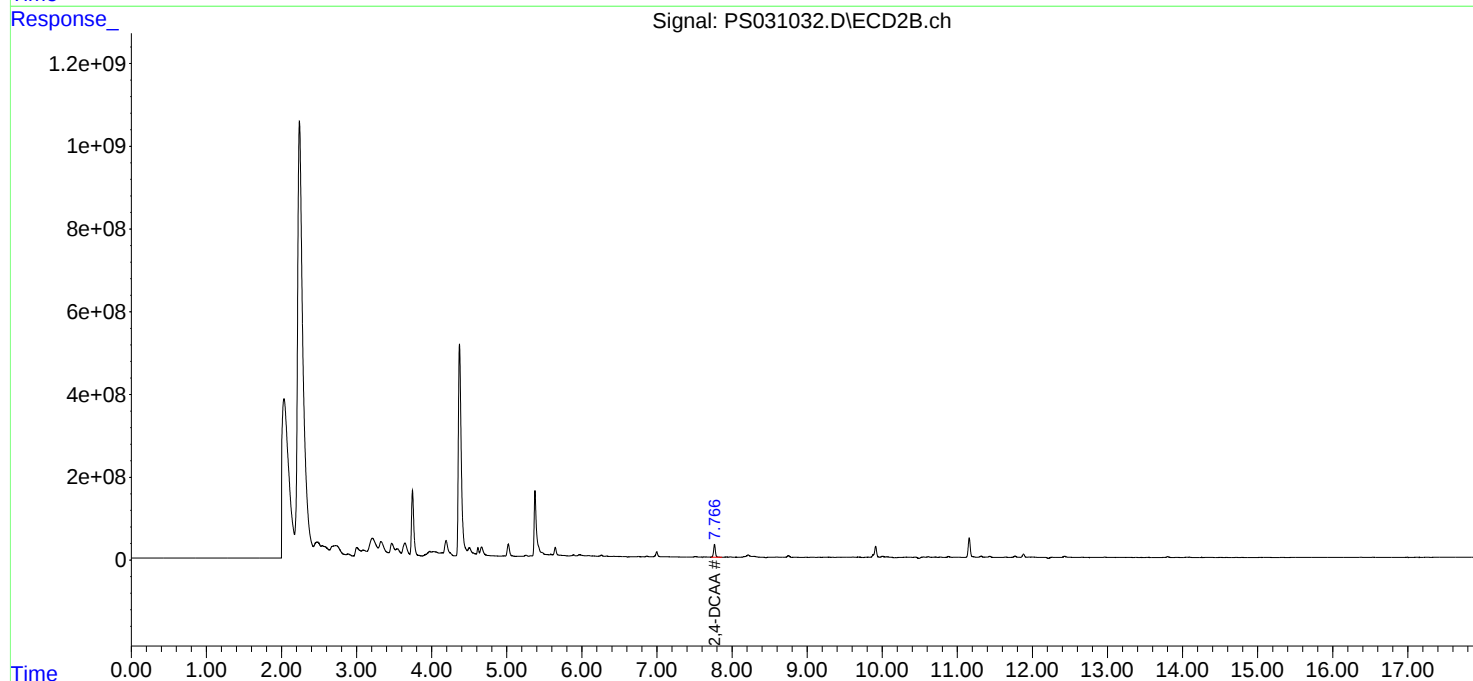
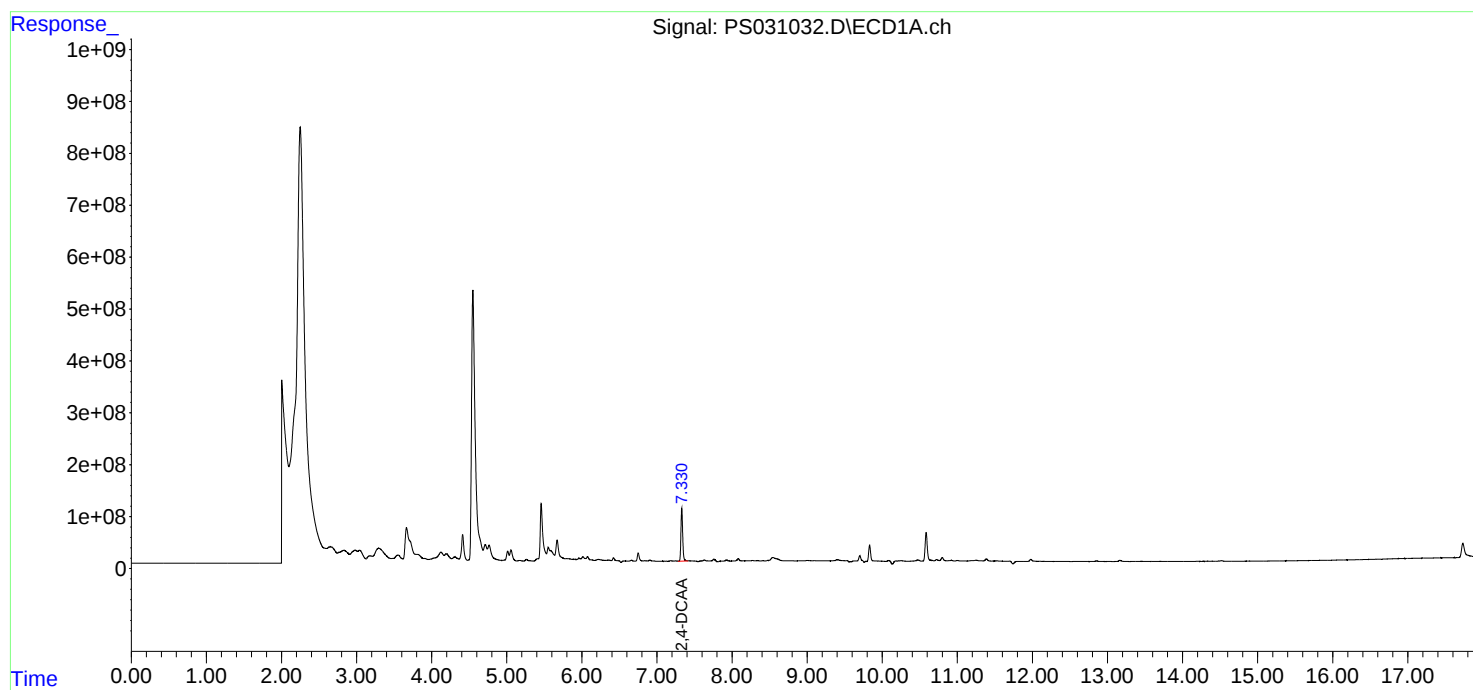
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

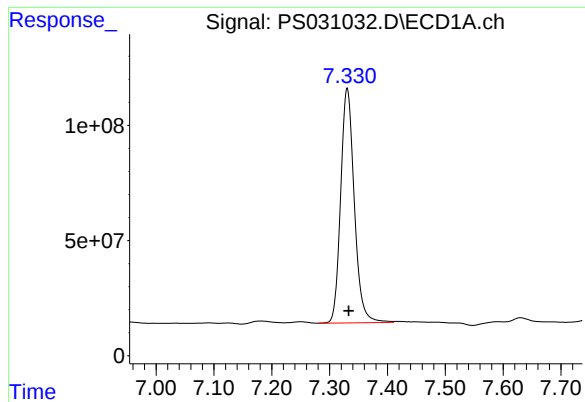
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 18:21
Operator : AR\AJ
Sample : PB168844BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168844BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:49:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

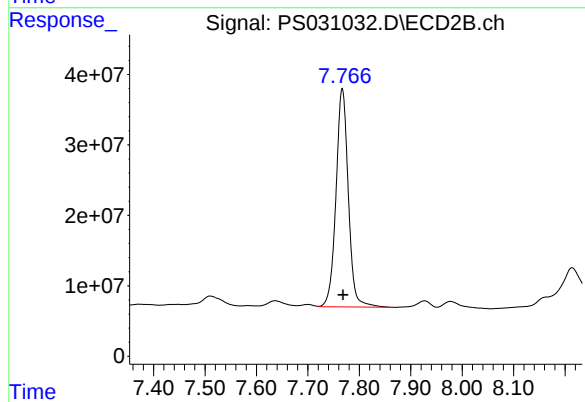




#4 2,4-DCAA

R.T.: 7.330 min
Delta R.T.: -0.003 min
Response: 1671862784
Conc: 422.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168844BL



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: -0.002 min
Response: 516569078
Conc: 498.60 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/11/25
Client Sample ID:	PIBLK-PS031005.D	SDG No.:	Q2579
Lab Sample ID:	I.BLK-PS031005.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031005.D	1		07/11/25	PS071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	496		70 (61) - 130 (136)	99%	SPK: 500

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_S\Data\PS071125\
Data File : PS031005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 15:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 06:06:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.334	7.769	1407.9E6	514.1E6	355.977	496.200 #

Target Compounds

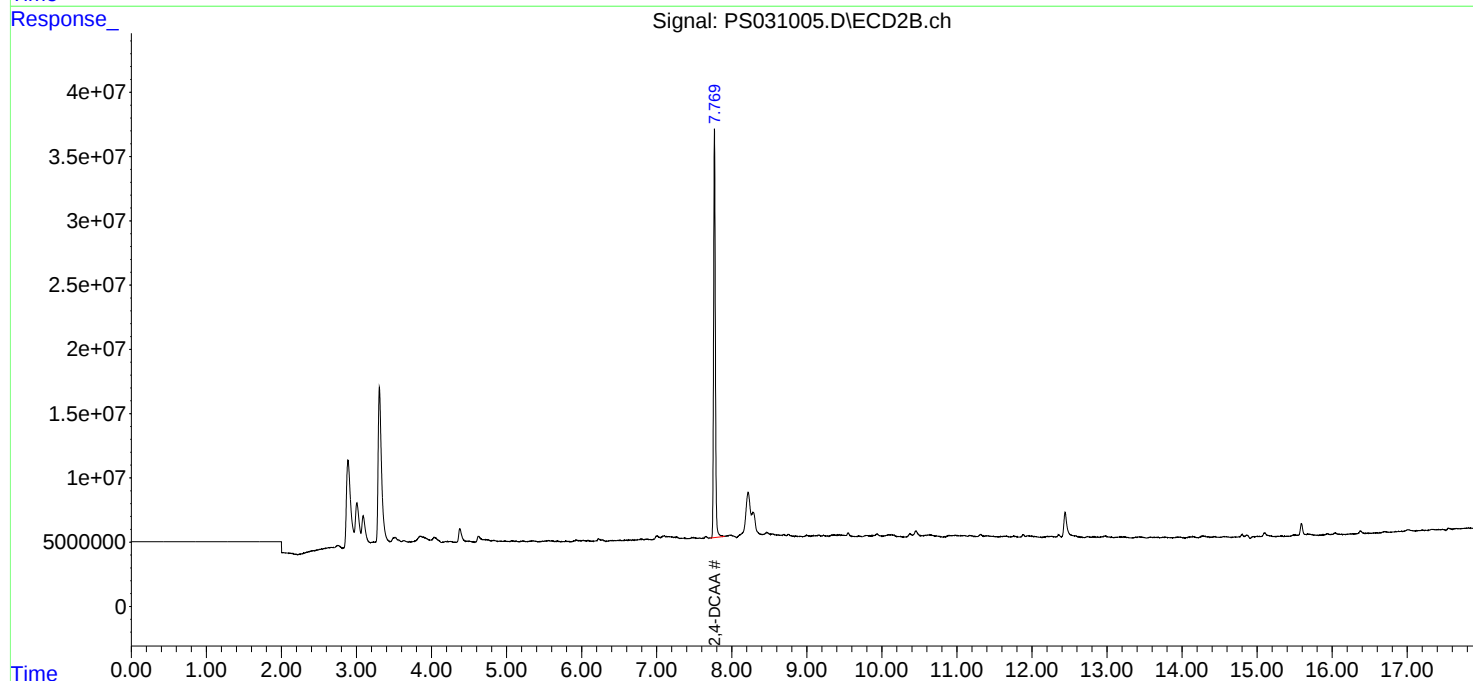
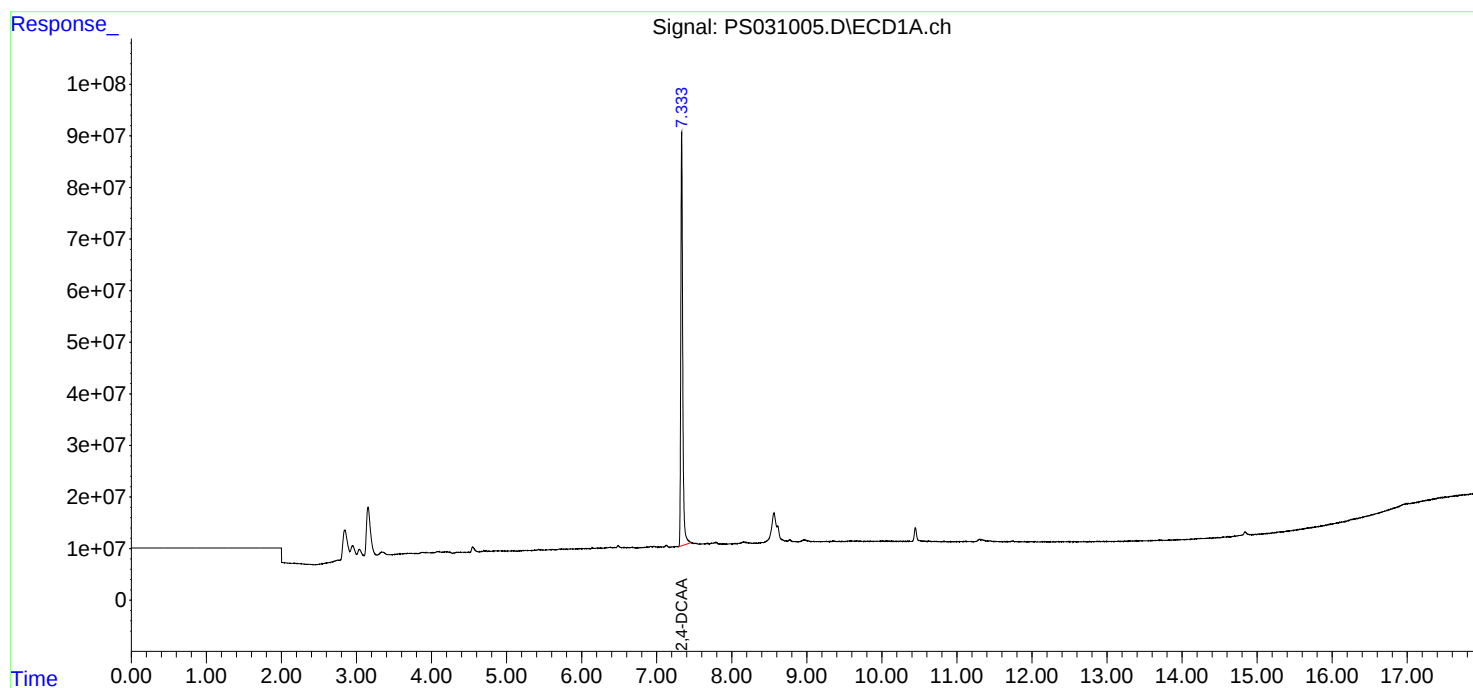
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

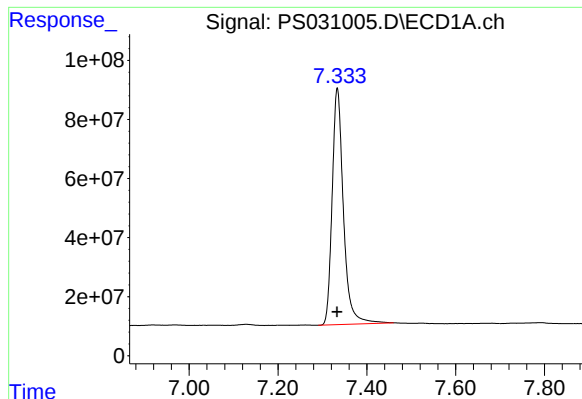
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071125\
Data File : PS031005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2025 15:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 14 06:06:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

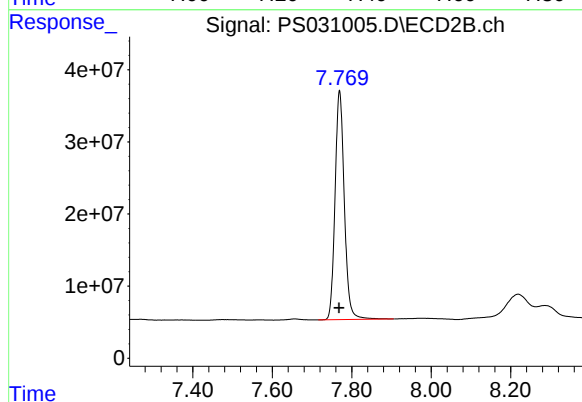




#4 2,4-DCAA

R.T.: 7.334 min
Delta R.T.: 0.000 min
Response: 1407915415
Conc: 355.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.769 min
Delta R.T.: 0.000 min
Response: 514079654
Conc: 496.20 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/15/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/15/25
Client Sample ID:	PIBLK-PS031030.D	SDG No.:	Q2579
Lab Sample ID:	I.BLK-PS031030.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031030.D	1		07/15/25	PS071525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	482		70 (61) - 130 (136)	96%	SPK: 500

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_S\Data\PS071525\
Data File : PS031030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 17:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:48:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.330	7.767	1759.4E6	499.7E6	444.853	482.337

Target Compounds

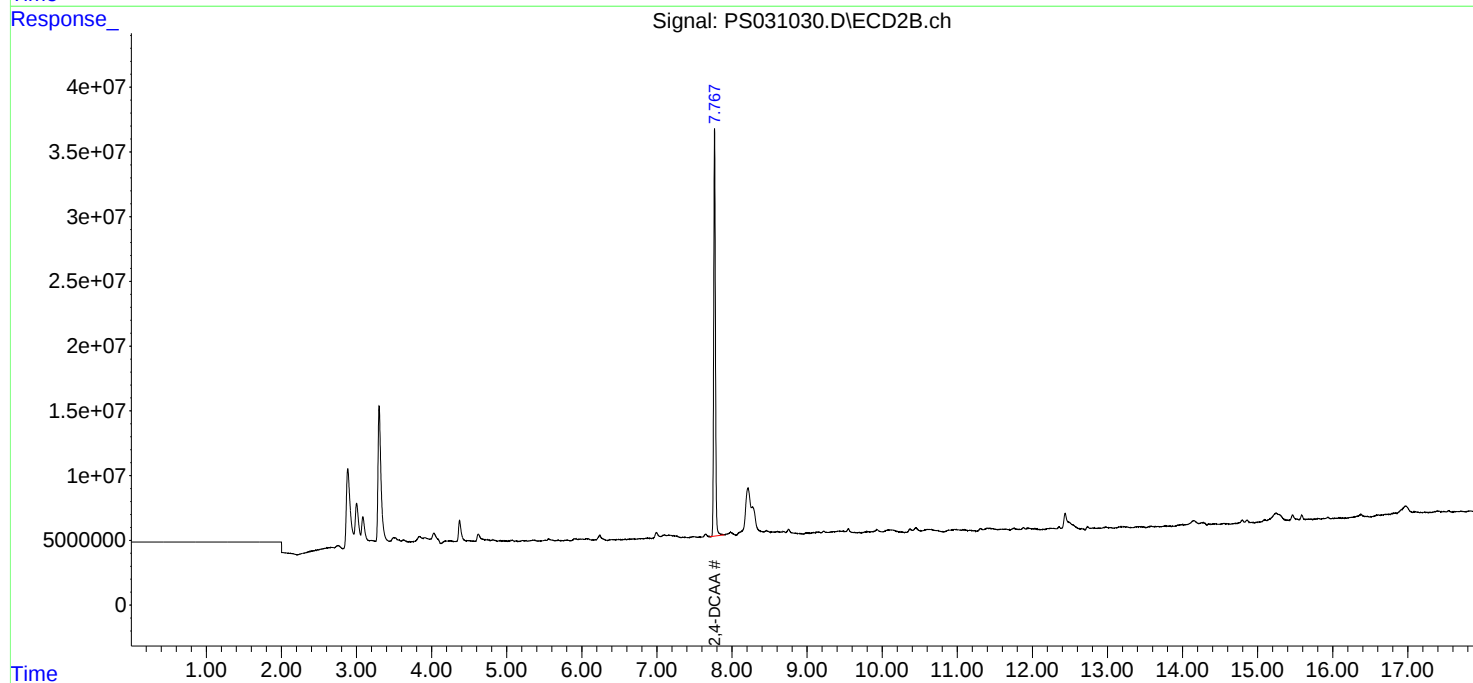
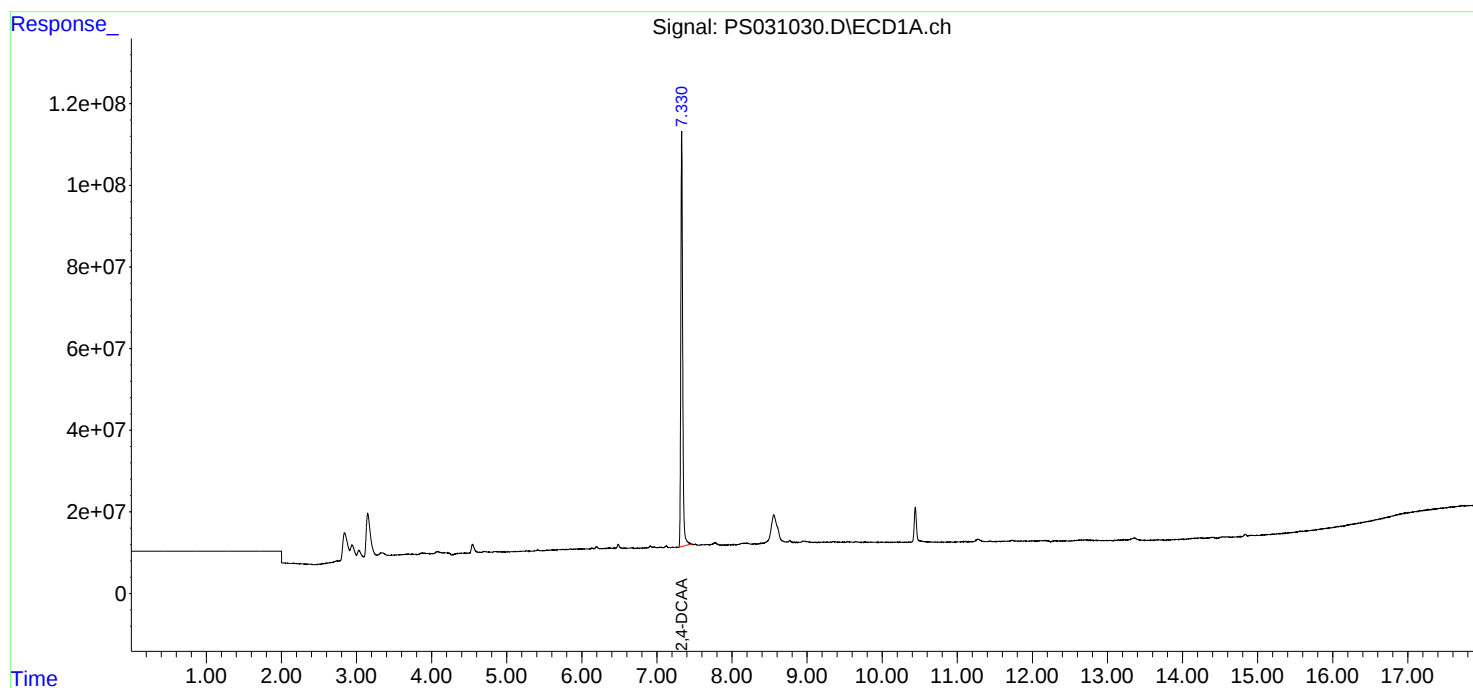
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 17:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

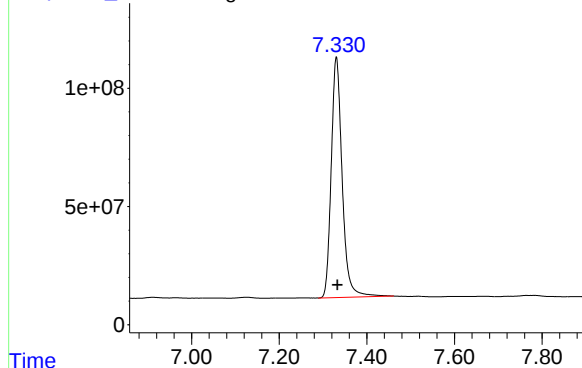
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:48:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS031030.D\ECD1A.ch

#4 2,4-DCAA

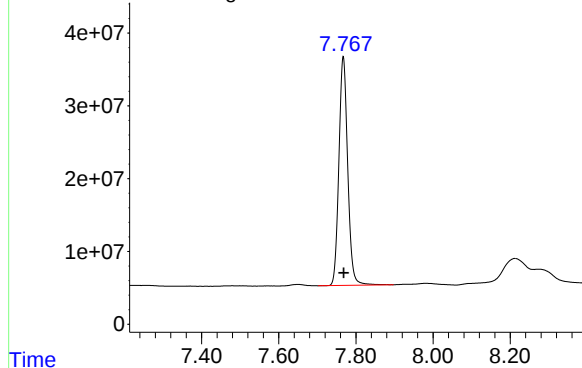


R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 1759426957
Conc: 444.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS031030.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.767 min
Delta R.T.: -0.001 min
Response: 499716422
Conc: 482.34 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/15/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/15/25
Client Sample ID:	PIBLK-PS031046.D	SDG No.:	Q2579
Lab Sample ID:	I.BLK-PS031046.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031046.D	1		07/15/25	PS071525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	486		70 (61) - 130 (136)	97%	SPK: 500

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_S\Data\PS071525\
Data File : PS031046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 23:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:52:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.330	7.768	1757.9E6	503.3E6	444.463	485.754

Target Compounds

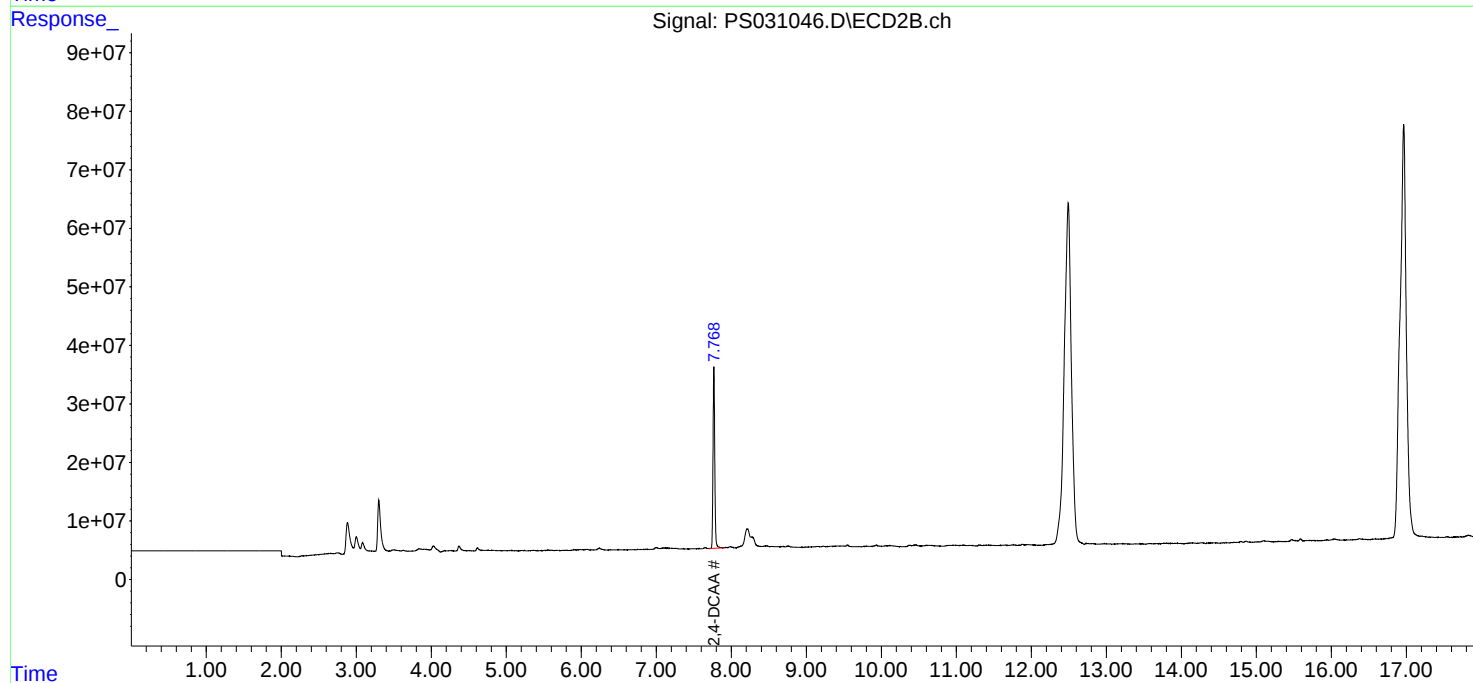
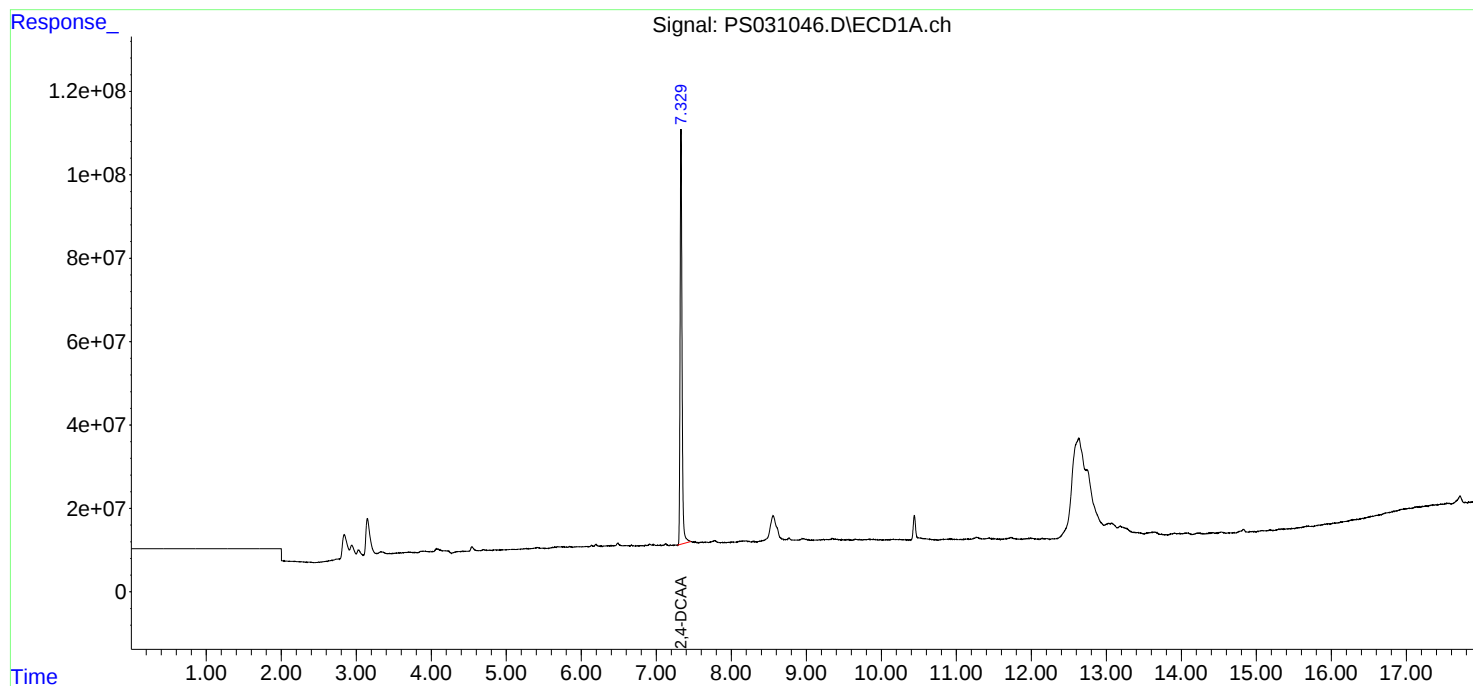
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

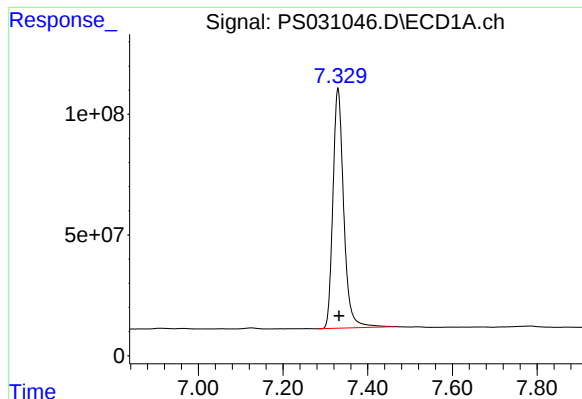
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 23:59
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:52:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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

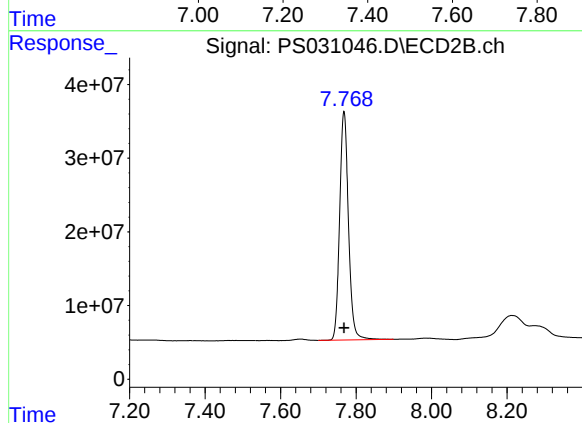




#4 2,4-DCAA

R.T.: 7.330 min
Delta R.T.: -0.003 min
Response: 1757886040
Conc: 444.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 503256929
Conc: 485.75 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/16/25
Client Sample ID:	PIBLK-PS031061.D	SDG No.:	Q2579
Lab Sample ID:	I.BLK-PS031061.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031061.D	1		07/16/25	PS071525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	496		70 (61) - 130 (136)	99%	SPK: 500

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_S\Data\PS071525\
Data File : PS031061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 06:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 07:22:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.329	7.768	1781.5E6	513.6E6	450.438	495.745

Target Compounds

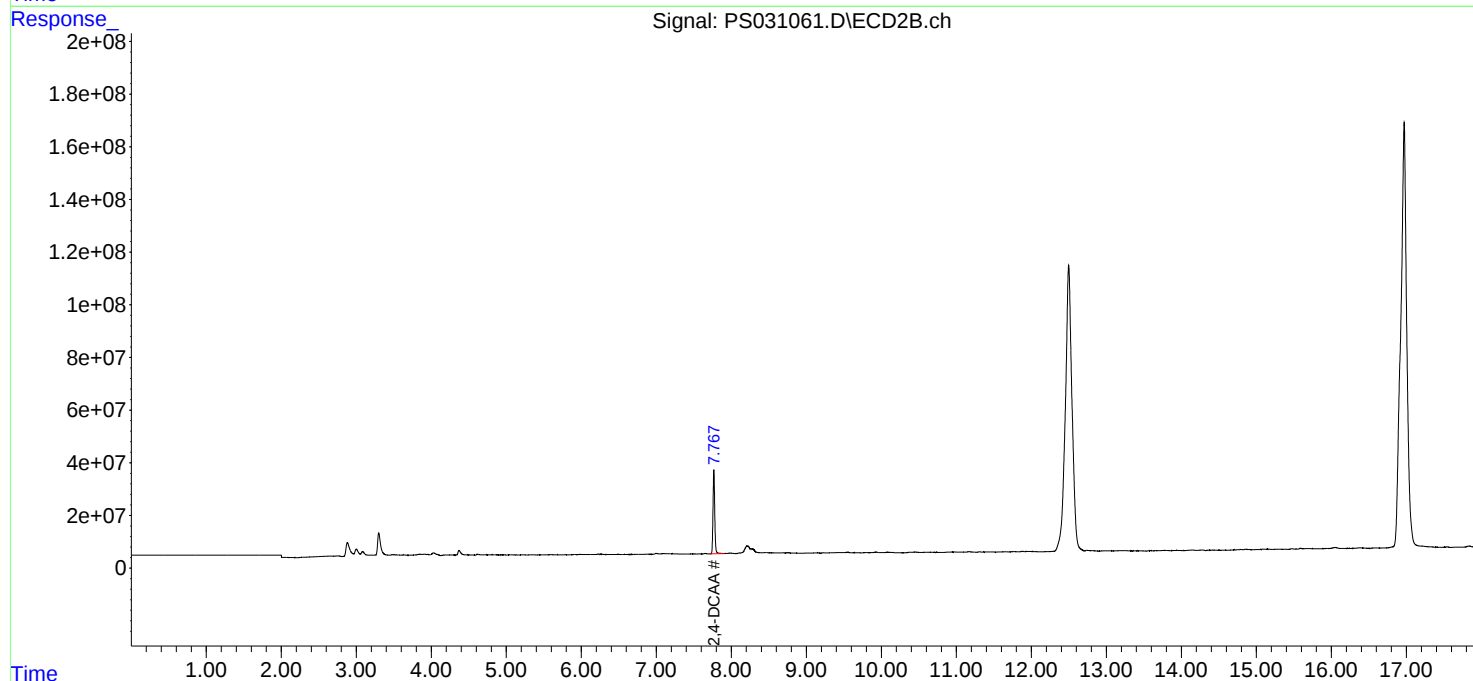
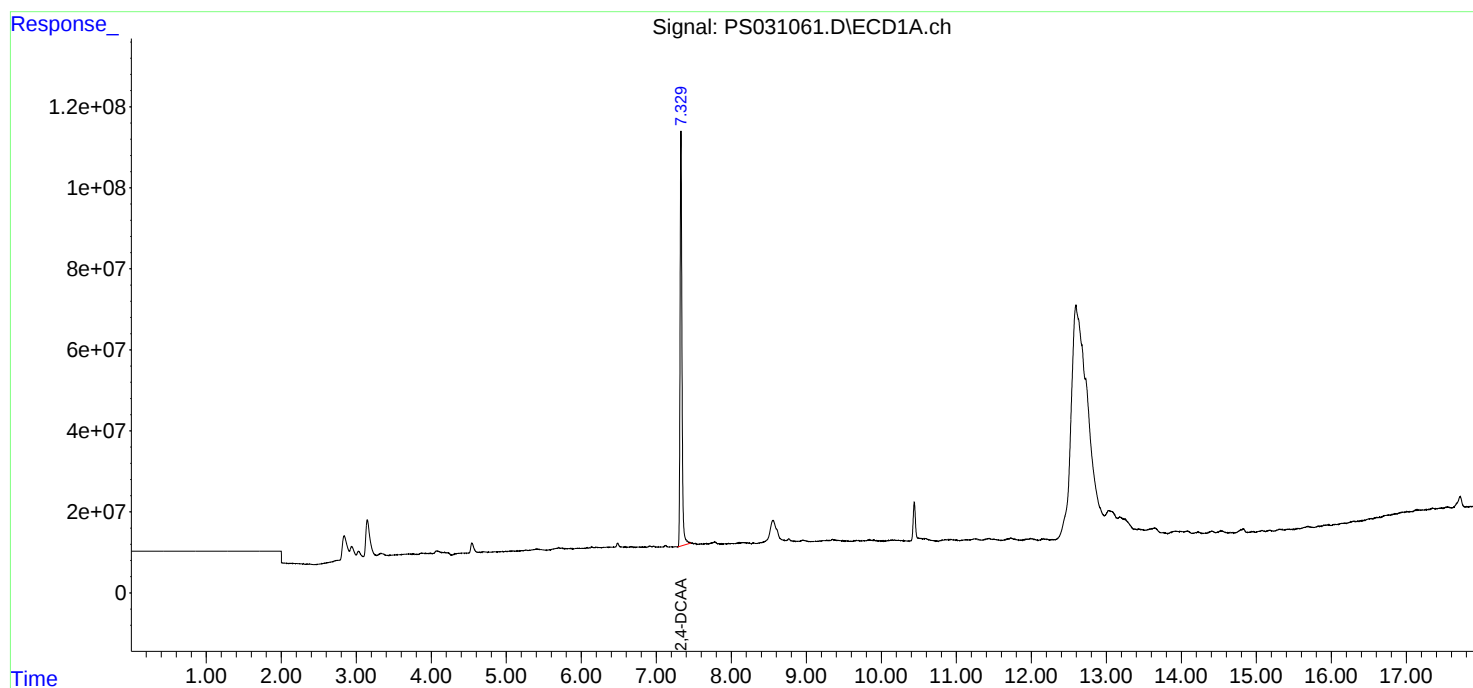
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 06:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

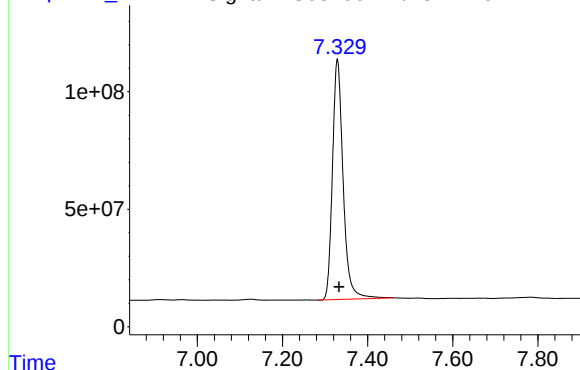
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 07:22:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS031061.D\ECD1A.ch

#4 2,4-DCAA

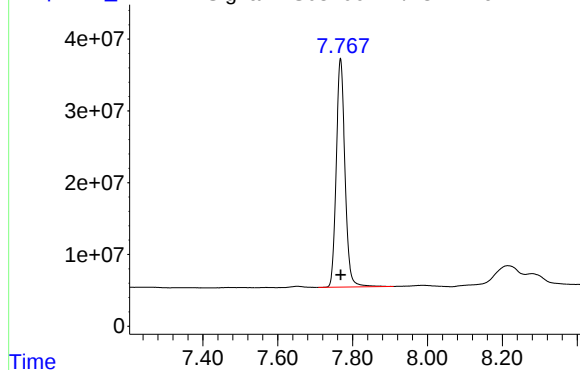


R.T.: 7.329 min
Delta R.T.: -0.004 min
Response: 1781515667
Conc: 450.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS031061.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 513608443
Conc: 495.75 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	07/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/16/25
Client Sample ID:	PIBLK-PS031071.D	SDG No.:	Q2579
Lab Sample ID:	I.BLK-PS031071.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031071.D	1		07/16/25	PS071525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	498		70 (61) - 130 (136)	100%	SPK: 500

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_S\Data\PS071525\
Data File : PS031071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 15:04
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 15:21:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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						
4) S 2,4-DCAA	7.327	7.767	1850.7E6	515.9E6	467.930	497.986

Target Compounds

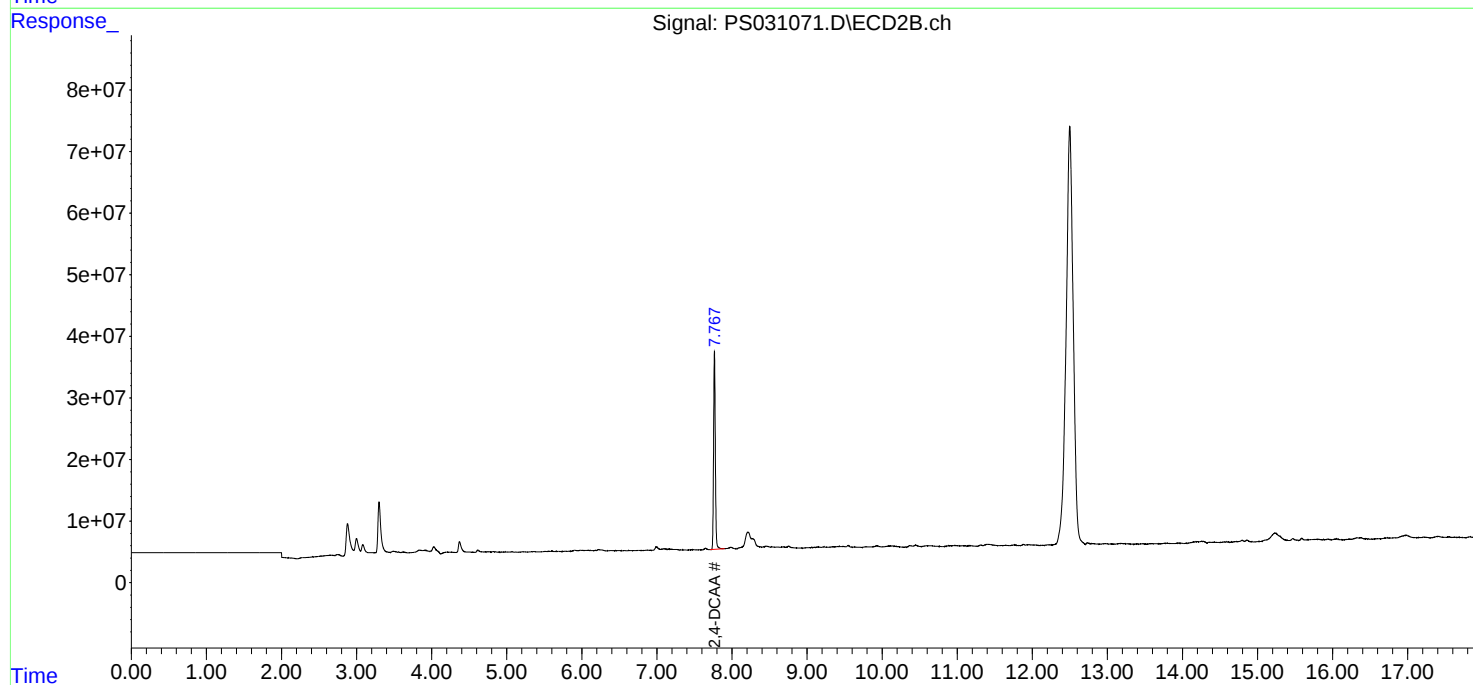
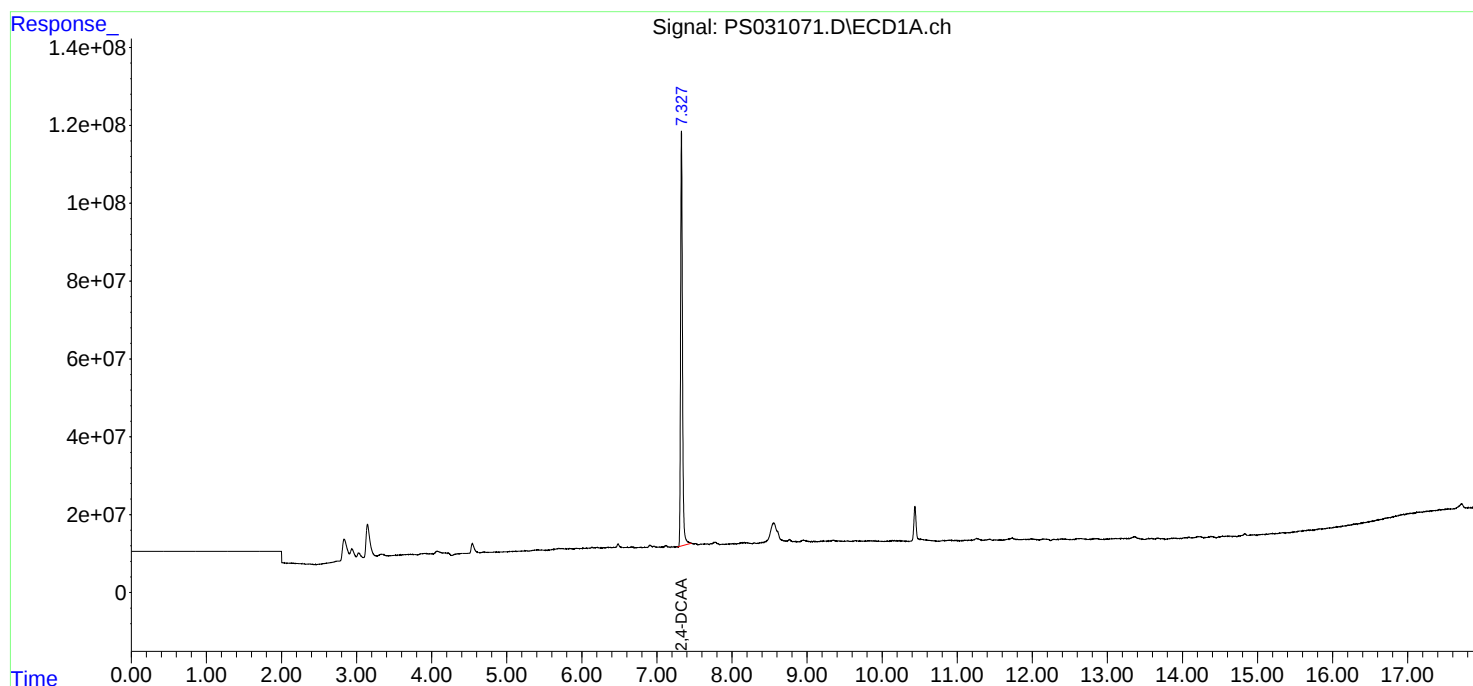
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jul 2025 15:04
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

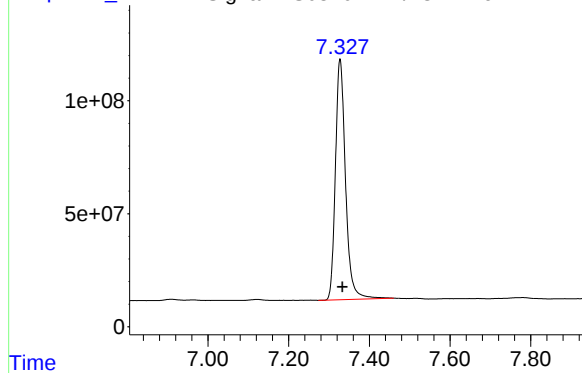
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 15:21:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS031071.D\ECD1A.ch

#4 2,4-DCAA

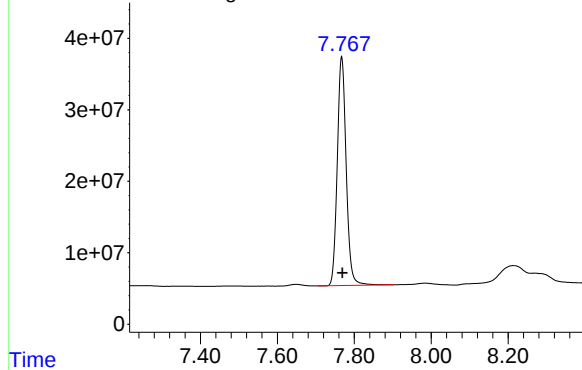


R.T.: 7.327 min
Delta R.T.: -0.006 min
Response: 1850696886
Conc: 467.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS031071.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.767 min
Delta R.T.: -0.001 min
Response: 515930168
Conc: 497.99 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB168844BS	SDG No.:	Q2579
Lab Sample ID:	PB168844BS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031033.D	1	07/14/25 10:14	07/15/25 18:45	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0058		0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0053		0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	441		70 (61) - 130 (136)	88%	SPK: 500

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_S\Data\PS071525\
 Data File : PS031033.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Jul 2025 18:45
 Operator : AR\AJ
 Sample : PB168844BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB168844BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/16/2025
 Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 02:49:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.330	7.767	1721.8E6	456.7E6	435.351	440.800
Target Compounds							
1) T	Dalapon	2.687	2.707	3537.4E6	1724.9E6	580.685m	606.757m
2) T	3,5-DICHL...	6.492	6.713	2256.0E6	613.9E6	430.647	395.976m
3) T	4-Nitroph...	7.129	7.300	590.4E6	608.2E6	437.307m	348.785
5) T	DICAMBA	7.519	7.970	6267.2E6	2498.0E6	399.417	385.710
6) T	MCPD	7.698	8.067	355.7E6	71562648	38.660	33.473
7) T	MCPA	7.848	8.314	428.6E6	112.9E6	39.295m	35.225
8) T	DICHLORPROP	8.231	8.689	1616.3E6	577.8E6	474.665	380.286
9) T	2,4-D	8.463	9.025	1782.6E6	849.2E6	579.073	499.716
10) T	Pentachlo...	8.769	9.549	25388.2E6	16926.8E6	505.122	439.257
11) T	2,4,5-TP ...	9.349	9.929	9812.7E6	7116.8E6	527.258	484.937
12) T	2,4,5-T	9.642	10.357	7774.9E6	5855.0E6	511.061m	418.461
13) T	2,4-DB	10.221	10.924	885.5E6	472.7E6	407.938m	399.514
14) T	DINOSEB	11.435	11.309	5233.0E6	3783.2E6	396.924	333.277
15) T	Picloram	11.247	12.418	6761.3E6	8338.4E6	463.997	355.117m
16) T	DCPA	11.729	12.352	9299.9E6	8983.9E6	388.512	398.364m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 18:45
Operator : AR\AJ
Sample : PB168844BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

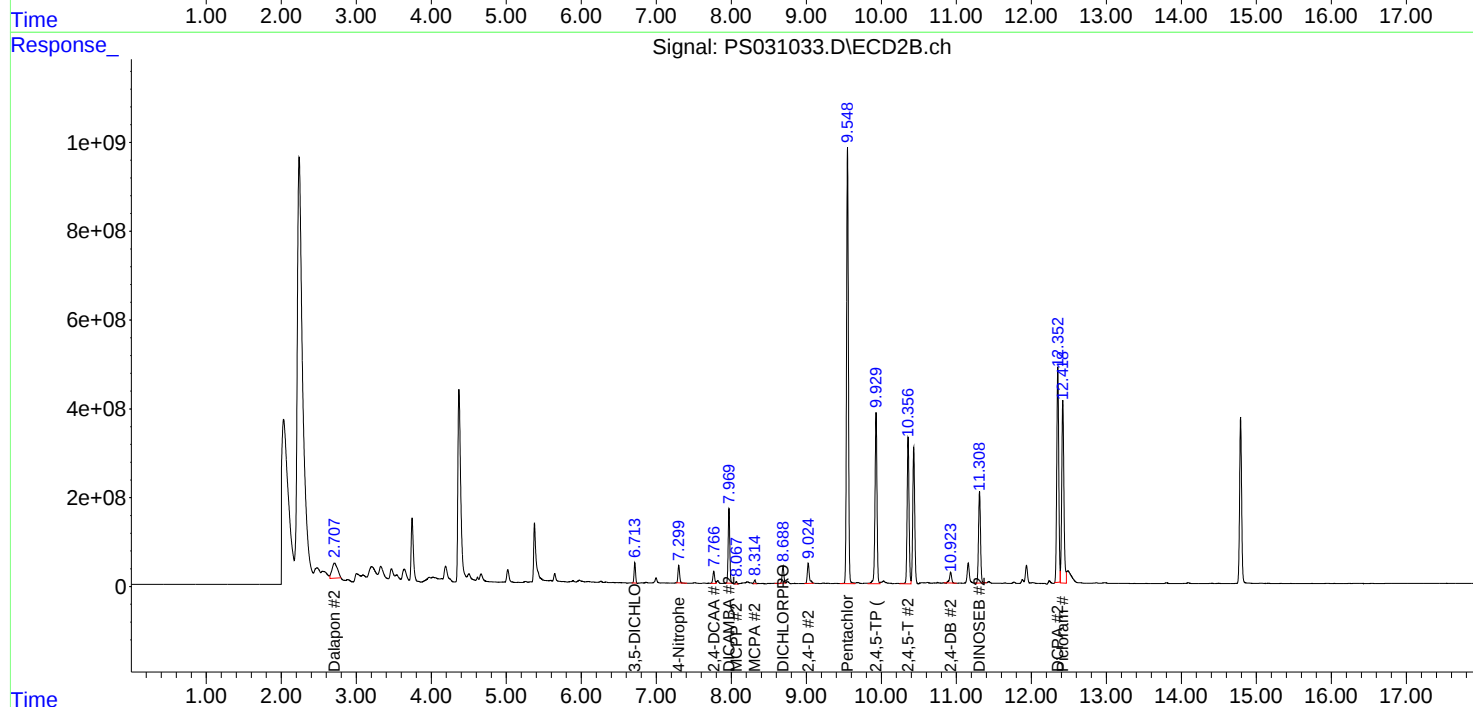
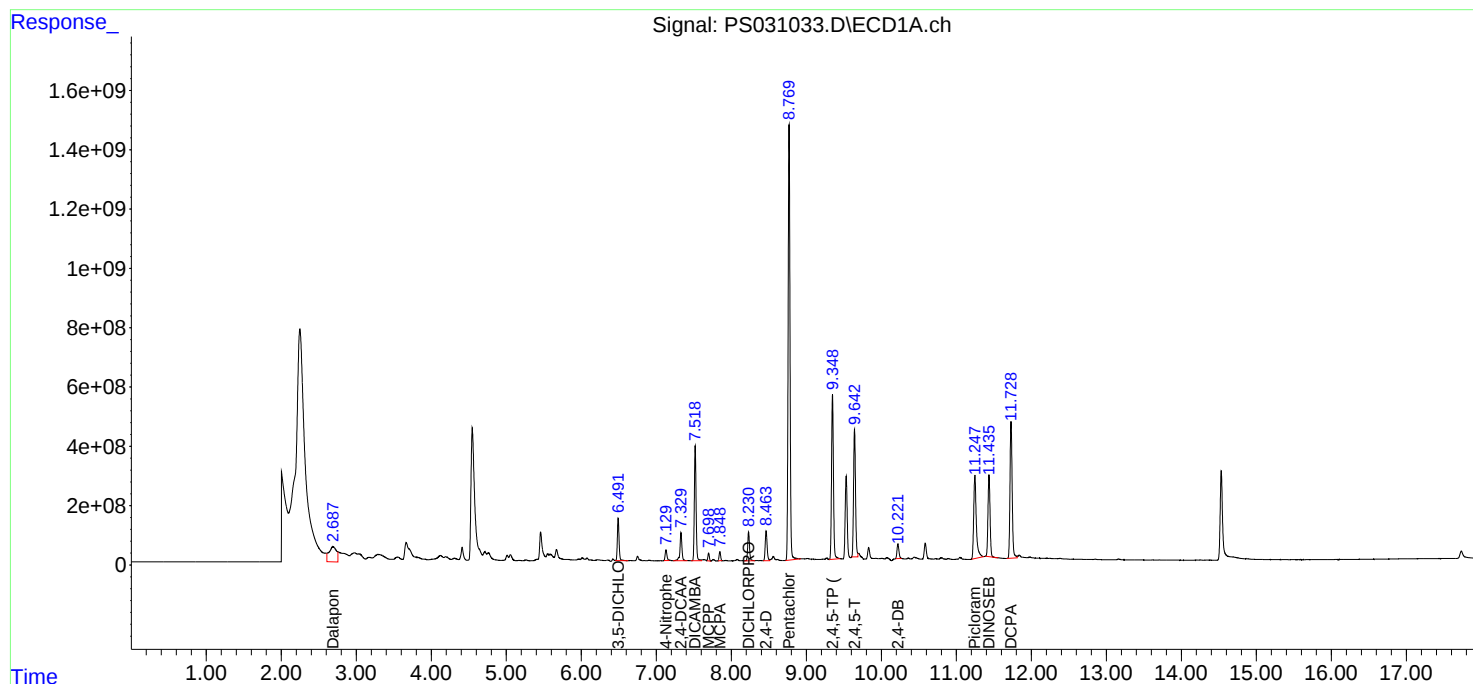
Instrument :
ECD_S
ClientSampleId :
PB168844BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/16/2025
Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:49:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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



Report of Analysis

Client:	ENTACT	Date Collected:	07/01/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/01/25
Client Sample ID:	G4(0-6)MS	SDG No.:	Q2579
Lab Sample ID:	Q2489-01MS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031037.D	1	07/14/25 10:14	07/15/25 20:22	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.053		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.057		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	609		70 (61) - 130 (136)	122%	SPK: 500

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_S\Data\PS071525\
 Data File : PS031037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Jul 2025 20:22
 Operator : AR\AJ
 Sample : Q2489-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

G4(0-6)MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 02:50:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.329	7.767	2406.8E6	548.5E6	608.544	529.387m
Target Compounds							
1) T	Dalapon	2.691	2.703	2578.1E6	1602.6E6	423.214m	563.734m#
2) T	3,5-DICHL...	6.492	6.714	2138.0E6	581.7E6	408.129	375.190m
3) T	4-Nitroph...	7.130	7.318	41184768	42223649	30.507m	24.212m
5) T	DICAMBA	7.518	7.970	5857.3E6	2369.0E6	373.295	365.791m
6) T	MCPD	7.698	8.068	323.0E6	71089742	35.109	33.251m
7) T	MCPA	7.848	8.314	446.1E6	139.9E6	40.905	43.639m
8) T	DICHLORPROP	8.231	8.689	1638.0E6	592.2E6	481.039	389.811m
9) T	2,4-D	8.462	9.025	1636.0E6	724.9E6	531.425m	426.518m
10) T	Pentachlo...	8.769	9.550	19255.6E6	12468.4E6	383.107	323.560
11) T	2,4,5-TP ...	9.349	9.931	9883.3E6	8404.8E6	531.053	572.698m
12) T	2,4,5-T	9.642	10.357	7819.5E6	5708.1E6	513.992m	407.958
13) T	2,4-DB	10.220	10.924	839.5E6	377.9E6	386.705m	319.375m
14) T	DINOSEB	11.434	11.311	3818.3E6	3494.1E6	289.618m	307.813m
15) T	Picloram	11.245	12.419	7462.4E6	9480.3E6	512.108m	403.749m
16) T	DCPA	11.730	12.353	10374.6E6	8677.4E6	433.411	384.773m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 20:22
Operator : AR\AJ
Sample : Q2489-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

G4(0-6)MS

Manual Integrations

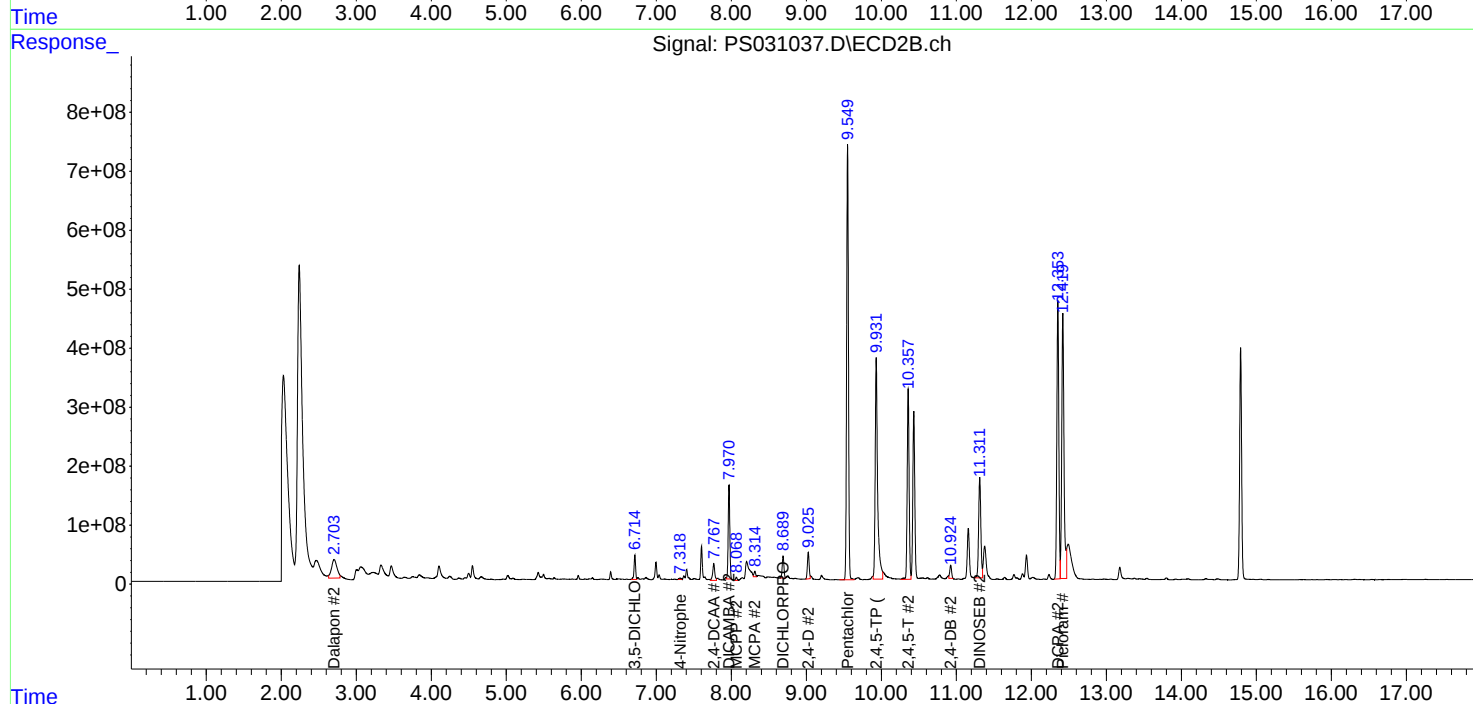
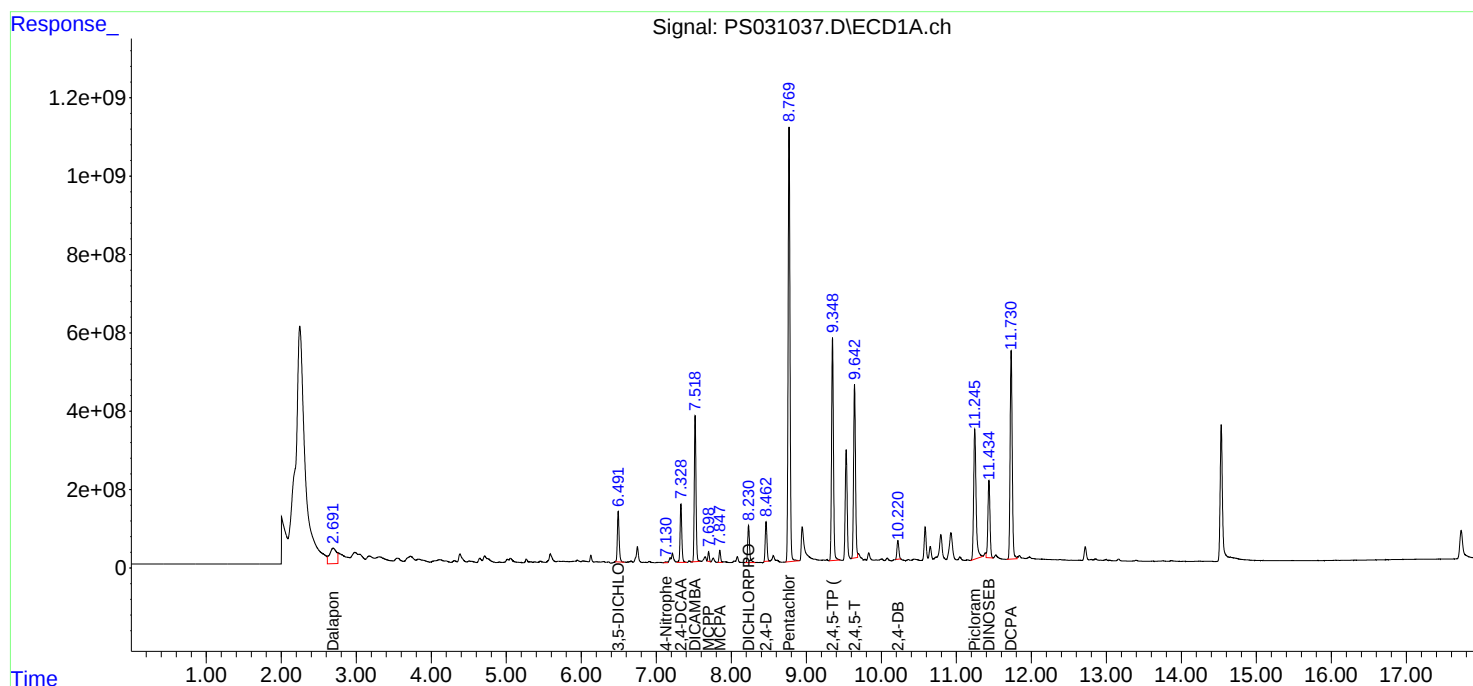
APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:50:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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



Report of Analysis

Client:	ENTACT	Date Collected:	07/01/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/01/25
Client Sample ID:	G4(0-6)MSD	SDG No.:	Q2579
Lab Sample ID:	Q2489-01MSD	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031038.D	1	07/14/25 10:14	07/15/25 20:46	PB168844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.055		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.060		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	636		70 (61) - 130 (136)	127%	SPK: 500

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_S\Data\PS071525\
 Data File : PS031038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Jul 2025 20:46
 Operator : AR\AJ
 Sample : Q2489-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

G4(0-6)MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 16 02:50:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
 Quant Title : 8080.M
 QLast Update : Mon Jul 14 05:51:06 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							
4) S	2,4-DCAA	7.328	7.766	2515.8E6	534.5E6	636.095	515.923m
Target Compounds							
1) T	Dalapon	2.690	2.703	3167.6E6	1752.8E6	519.980m	616.545m
2) T	3,5-DICHL...	6.491	6.714	2254.9E6	616.9E6	430.435	397.893
3) T	4-Nitroph...	7.129	7.317	34136768	44253616	25.286m	25.376
5) T	DICAMBA	7.518	7.969	6087.8E6	2461.2E6	387.981	380.020m
6) T	MCPD	7.697	8.067	335.7E6	73868397	36.484	34.551
7) T	MCPA	7.847	8.314	455.9E6	149.2E6	41.798	46.537m
8) T	DICHLORPROP	8.229	8.687	1598.0E6	622.1E6	469.295m	409.484m
9) T	2,4-D	8.461	9.024	1690.8E6	840.7E6	549.233m	494.707
10) T	Pentachlo...	8.768	9.549	21403.8E6	13874.5E6	425.849	360.048
11) T	2,4,5-TP ...	9.347	9.930	10333.1E6	8756.8E6	555.222	596.683
12) T	2,4,5-T	9.641	10.357	8150.5E6	5900.4E6	535.749m	421.702
13) T	2,4-DB	10.218	10.923	1005.5E6	456.5E6	463.188m	385.796m
14) T	DINOSEB	11.432	11.310	4362.7E6	3773.4E6	330.910m	332.415m
15) T	Picloram	11.243	12.417	7772.0E6	9581.5E6	533.351m	408.061m
16) T	DCPA	11.729	12.352	10746.9E6	9077.7E6	448.963	402.522m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS071525\
Data File : PS031038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Jul 2025 20:46
Operator : AR\AJ
Sample : Q2489-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

G4(0-6)MSD

Manual Integrations

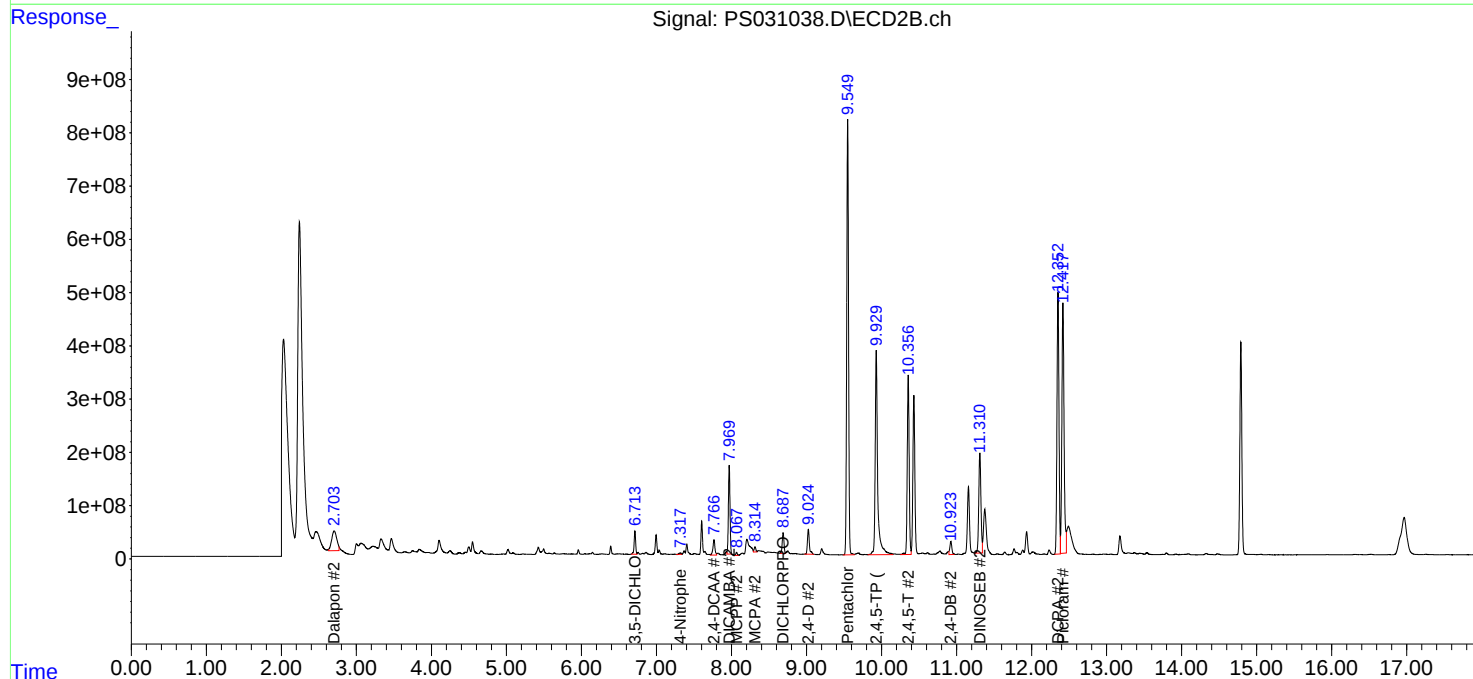
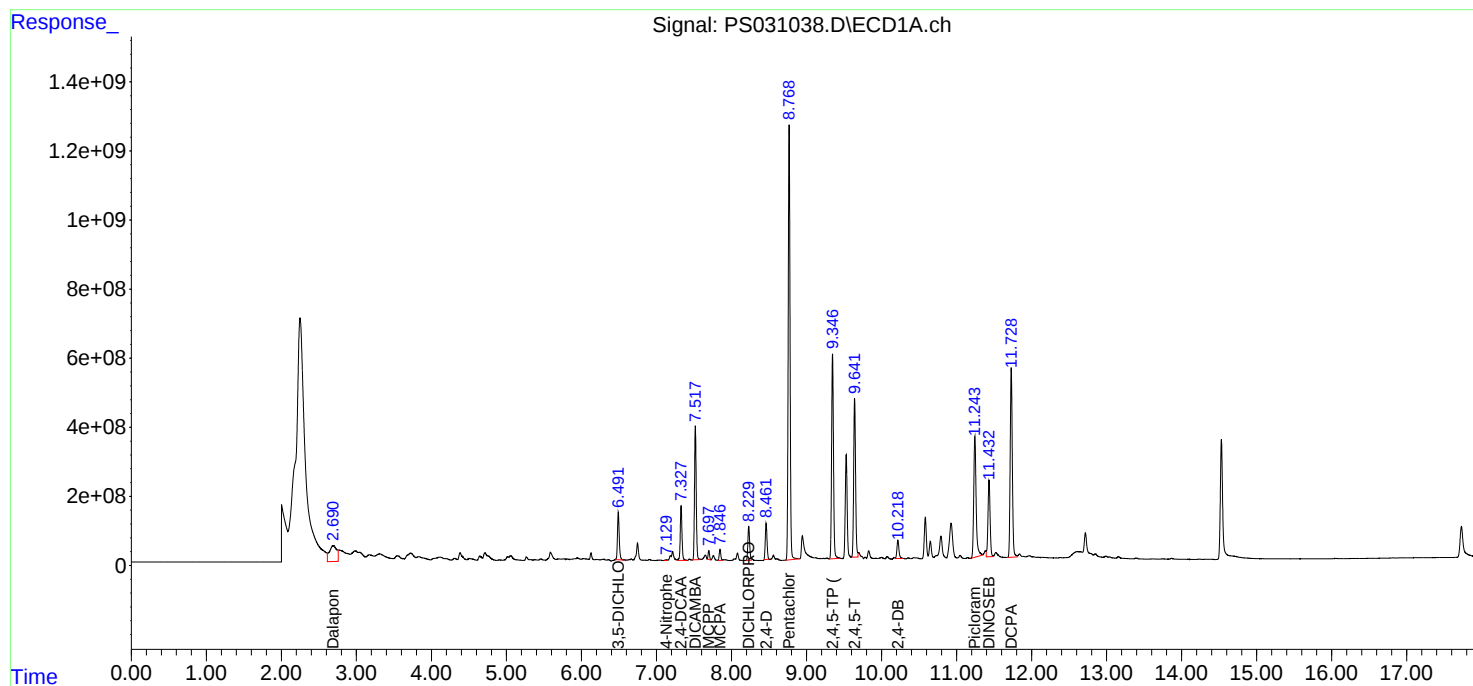
APPROVED

Reviewed By :Abdul Mirza 07/16/2025

Supervised By :mohammad ahmed 07/18/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 16 02:50:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS071125.M
Quant Title : 8080.M
QLast Update : Mon Jul 14 05:51:06 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



Manual Integration Report

Sequence:

PS071125

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS031006.D	2,4-DCAA	Abdul	7/14/2025 8:47:57 AM	mohammad	7/15/2025 1:41:05	Peak Integrated by Software
HSTDICC500	PS031007.D	2,4-DCAA	Abdul	7/14/2025 8:48:00 AM	mohammad	7/15/2025 1:41:05	Peak Integrated by Software
HSTDICC1500	PS031010.D	2,4-DCAA	Abdul	7/14/2025 8:48:03 AM	mohammad	7/15/2025 1:41:05	Peak Integrated by Software
HSTDICC1500	PS031010.D	DCPA #2	Abdul	7/14/2025 8:48:03 AM	mohammad	7/15/2025 1:41:05	Peak Integrated by Software
I.BLK	PS031012.D	2,4-DCAA	Abdul	7/14/2025 8:48:05 AM	mohammad	7/15/2025 1:41:05	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS031031.D	2,4,5-T	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	2,4,5-TP (SILVEX)	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	2,4-D	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	4-Nitrophenol	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	DCPA	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	DINOSEB	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	MCPA	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	MCPP	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	Pentachlorophenol	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031031.D	Picloram	Abdul	7/16/2025 10:36:43 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	2,4,5-T	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	2,4-DB	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	3,5-DICHLOROBENZOI C ACID #2	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168844BS	PS031033.D	4-Nitrophenol	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	Dalapon	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	Dalapon #2	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	DCPA #2	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	MCPA	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
PB168844BS	PS031033.D	Picloram #2	yogesh	7/16/2025 8:23:25 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4,5-T	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4,5-TP (SILVEX) #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4-D	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4-D #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4-DB	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4-DB #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	2,4-DCAA #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2489-01MS	PS031037.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	4-Nitrophenol	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	4-Nitrophenol #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	Dalapon	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	Dalapon #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	DCPA #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	DICAMBA #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	DICHLORPROP #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	DINOSEB	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	DINOSEB #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	MCPA #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	MCPP #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MS	PS031037.D	Picloram	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2489-01MS	PS031037.D	Picloram #2	Abdul	7/16/2025 10:36:49 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	2,4,5-T	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	2,4-D	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	2,4-DB	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	2,4-DB #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	2,4-DCAA #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	4-Nitrophenol	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	Dalapon	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	Dalapon #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	DCCA #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	DICAMBA #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	DICHLORPROP	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	DICHLORPROP #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2489-01MSD	PS031038.D	DINOSEB	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	DINOSEB #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	MCPA #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	Picloram	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
Q2489-01MSD	PS031038.D	Picloram #2	Abdul	7/16/2025 10:36:57 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	2,4,5-T	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	2,4,5-TP (SILVEX)	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	2,4-D	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	2,4-DB	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	4-Nitrophenol	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	DCPA	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	DINOSEB	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	MCPA	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS031047.D	MCPD	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	Pentachlorophenol	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031047.D	Picloram	Abdul	7/16/2025 10:37:02 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	2,4,5-T	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	2,4-D	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	2,4-DCAA	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	4-Nitrophenol	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	DCEA	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	DCEA #2	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	DINOSEB	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	MCPA #2	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031062.D	Pentachlorophenol	Abdul	7/16/2025 10:37:11 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software
HSTDCCC750	PS031072.D	2,4-D	Abdul	7/17/2025 7:55:41 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software



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

Manual Integration Report

Sequence:	PS071525	Instrument	ECD_s
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS031072.D	Pentachlorophenol	Abdul	7/17/2025 7:55:41 AM	mohammad	7/18/2025 3:10:15	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071125

Review By	Abdul	Review On	7/14/2025 8:48:45 AM
Supervise By	mohammad	Supervise On	7/15/2025 1:41:05 AM
SubDirectory	PS071125	HP Acquire Method	HP Processing Method ps061825 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS031004.D	11 Jul 2025 15:11	AR\AJ	Ok
2	I.BLK	PS031005.D	11 Jul 2025 15:35	AR\AJ	Ok
3	HSTDICC200	PS031006.D	11 Jul 2025 16:00	AR\AJ	Ok,M
4	HSTDICC500	PS031007.D	11 Jul 2025 16:24	AR\AJ	Ok,M
5	HSTDICC750	PS031008.D	11 Jul 2025 16:48	AR\AJ	Ok
6	HSTDICC1000	PS031009.D	11 Jul 2025 17:12	AR\AJ	Ok
7	HSTDICC1500	PS031010.D	11 Jul 2025 17:36	AR\AJ	Ok,M
8	HSTDICV750	PS031011.D	11 Jul 2025 18:00	AR\AJ	Ok
9	I.BLK	PS031012.D	11 Jul 2025 18:25	AR\AJ	Ok,M
10	HSTDCCC750	PS031013.D	11 Jul 2025 18:49	AR\AJ	Ok
11	Q2517-01RE	PS031014.D	11 Jul 2025 20:01	AR\AJ	Confirms
12	Q2514-10RE	PS031015.D	11 Jul 2025 20:25	AR\AJ	Confirms
13	Q2493-01MS	PS031016.D	11 Jul 2025 20:49	AR\AJ	Not Ok
14	Q2493-01MSD	PS031017.D	11 Jul 2025 21:14	AR\AJ	Not Ok
15	I.BLK	PS031018.D	11 Jul 2025 21:38	AR\AJ	Ok
16	HSTDCCC750	PS031019.D	11 Jul 2025 22:02	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS031029.D	15 Jul 2025 10:57	AR\AJ	Ok
2	I.BLK	PS031030.D	15 Jul 2025 17:08	AR\AJ	Ok
3	HSTDCCC750	PS031031.D	15 Jul 2025 17:57	AR\AJ	Ok,M
4	PB168844BL	PS031032.D	15 Jul 2025 18:21	AR\AJ	Ok
5	PB168844BS	PS031033.D	15 Jul 2025 18:45	AR\AJ	Ok,M
6	PB168728TB	PS031034.D	15 Jul 2025 19:09	AR\AJ	Ok
7	PB168803TB	PS031035.D	15 Jul 2025 19:33	AR\AJ	Ok
8	Q2489-01	PS031036.D	15 Jul 2025 19:58	AR\AJ	Ok
9	Q2489-01MS	PS031037.D	15 Jul 2025 20:22	AR\AJ	Ok,M
10	Q2489-01MSD	PS031038.D	15 Jul 2025 20:46	AR\AJ	Ok,M
11	Q2489-02	PS031039.D	15 Jul 2025 21:10	AR\AJ	Ok
12	Q2489-03	PS031040.D	15 Jul 2025 21:34	AR\AJ	Ok,M
13	Q2489-04	PS031041.D	15 Jul 2025 21:58	AR\AJ	Ok,M
14	Q2489-05	PS031042.D	15 Jul 2025 22:23	AR\AJ	Ok,M
15	Q2489-06	PS031043.D	15 Jul 2025 22:47	AR\AJ	ReRun
16	Q2489-07	PS031044.D	15 Jul 2025 23:11	AR\AJ	Ok
17	Q2489-08	PS031045.D	15 Jul 2025 23:35	AR\AJ	Ok
18	I.BLK	PS031046.D	15 Jul 2025 23:59	AR\AJ	Ok
19	HSTDCCC750	PS031047.D	16 Jul 2025 00:48	AR\AJ	Ok,M
20	PB168825BL	PS031048.D	16 Jul 2025 01:36	AR\AJ	Ok,M
21	PB168825BS	PS031049.D	16 Jul 2025 02:00	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

22	PB168825TB	PS031050.D	16 Jul 2025 02:24	AR\AJ	Ok
23	Q2489-01	PS031051.D	16 Jul 2025 02:48	AR\AJ	Ok
24	Q2489-01MS	PS031052.D	16 Jul 2025 03:13	AR\AJ	Ok,M
25	Q2489-01MSD	PS031053.D	16 Jul 2025 03:37	AR\AJ	Ok,M
26	Q2489-02	PS031054.D	16 Jul 2025 04:01	AR\AJ	Ok
27	Q2489-03	PS031055.D	16 Jul 2025 04:25	AR\AJ	Not Ok
28	Q2489-04	PS031056.D	16 Jul 2025 04:49	AR\AJ	Ok
29	Q2489-05	PS031057.D	16 Jul 2025 05:13	AR\AJ	Ok
30	Q2489-06	PS031058.D	16 Jul 2025 05:38	AR\AJ	Ok
31	Q2489-07	PS031059.D	16 Jul 2025 06:02	AR\AJ	Ok,M
32	Q2489-08	PS031060.D	16 Jul 2025 06:26	AR\AJ	Ok
33	I.BLK	PS031061.D	16 Jul 2025 06:50	AR\AJ	Ok
34	HSTDCCC750	PS031062.D	16 Jul 2025 07:14	AR\AJ	Ok,M
35	Q2578-03	PS031063.D	16 Jul 2025 10:34	AR\AJ	Ok
36	Q2578-07	PS031064.D	16 Jul 2025 10:58	AR\AJ	ReRun
37	Q2578-11	PS031065.D	16 Jul 2025 11:22	AR\AJ	Ok
38	Q2578-15	PS031066.D	16 Jul 2025 13:03	AR\AJ	Ok,M
39	Q2578-19	PS031067.D	16 Jul 2025 13:27	AR\AJ	Ok
40	Q2579-03	PS031068.D	16 Jul 2025 13:51	AR\AJ	Ok
41	Q2579-07	PS031069.D	16 Jul 2025 14:15	AR\AJ	Ok
42	Q2578-07RE	PS031070.D	16 Jul 2025 14:40	AR\AJ	Confirms
43	I.BLK	PS031071.D	16 Jul 2025 15:04	AR\AJ	Ok
44	HSTDCCC750	PS031072.D	16 Jul 2025 15:28	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071125

Review By	Abdul	Review On	7/14/2025 8:48:45 AM
Supervise By	mohammad	Supervise On	7/15/2025 1:41:05 AM
SubDirectory	PS071125	HP Acquire Method	HP Processing Method ps061825 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS031004.D	11 Jul 2025 15:11		AR\AJ	Ok
2	I.BLK	I.BLK	PS031005.D	11 Jul 2025 15:35		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS031006.D	11 Jul 2025 16:00		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS031007.D	11 Jul 2025 16:24		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS031008.D	11 Jul 2025 16:48		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS031009.D	11 Jul 2025 17:12		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS031010.D	11 Jul 2025 17:36		AR\AJ	Ok,M
8	HSTDICV750	ICVPS071125	PS031011.D	11 Jul 2025 18:00		AR\AJ	Ok
9	I.BLK	I.BLK	PS031012.D	11 Jul 2025 18:25		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS031013.D	11 Jul 2025 18:49		AR\AJ	Ok
11	Q2517-01RE	TP-14RE	PS031014.D	11 Jul 2025 20:01	Surrogate low in 2nd column	AR\AJ	Confirms
12	Q2514-10RE	TP-90RE	PS031015.D	11 Jul 2025 20:25	Surrogate low in 1st column	AR\AJ	Confirms
13	Q2493-01MS	WC-11MS	PS031016.D	11 Jul 2025 20:49	F Flag in comp#1 , Comp#14 not detected,Comp#9,10 recovery fail	AR\AJ	Not Ok
14	Q2493-01MSD	WC-11MSD	PS031017.D	11 Jul 2025 21:14	F Flag in comp#1 , Comp#14 not detected,Comp#9,10 recovery fail	AR\AJ	Not Ok
15	I.BLK	I.BLK	PS031018.D	11 Jul 2025 21:38		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS031019.D	11 Jul 2025 22:02		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS031029.D	15 Jul 2025 10:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS031030.D	15 Jul 2025 17:08		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS031031.D	15 Jul 2025 17:57		AR\AJ	Ok,M
4	PB168844BL	PB168844BL	PS031032.D	15 Jul 2025 18:21		AR\AJ	Ok
5	PB168844BS	PB168844BS	PS031033.D	15 Jul 2025 18:45		AR\AJ	Ok,M
6	PB168728TB	PB168728TB	PS031034.D	15 Jul 2025 19:09		AR\AJ	Ok
7	PB168803TB	PB168803TB	PS031035.D	15 Jul 2025 19:33		AR\AJ	Ok
8	Q2489-01	G4(0-6)	PS031036.D	15 Jul 2025 19:58		AR\AJ	Ok
9	Q2489-01MS	G4(0-6)MS	PS031037.D	15 Jul 2025 20:22		AR\AJ	Ok,M
10	Q2489-01MSD	G4(0-6)MSD	PS031038.D	15 Jul 2025 20:46		AR\AJ	Ok,M
11	Q2489-02	G4(6-12)	PS031039.D	15 Jul 2025 21:10		AR\AJ	Ok
12	Q2489-03	G3(0-6)	PS031040.D	15 Jul 2025 21:34		AR\AJ	Ok,M
13	Q2489-04	G3(6-12)	PS031041.D	15 Jul 2025 21:58		AR\AJ	Ok,M
14	Q2489-05	G2(0-6)	PS031042.D	15 Jul 2025 22:23		AR\AJ	Ok,M
15	Q2489-06	G2(6-12)	PS031043.D	15 Jul 2025 22:47	Surrogate high in 1st column	AR\AJ	ReRun
16	Q2489-07	G1(0-6)	PS031044.D	15 Jul 2025 23:11		AR\AJ	Ok
17	Q2489-08	G1(6-12)	PS031045.D	15 Jul 2025 23:35		AR\AJ	Ok
18	I.BLK	I.BLK	PS031046.D	15 Jul 2025 23:59		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC	PP24559		
Internal Standard/PEM			
ICV/I.BLK	PP24562		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	HSTDCCC750	HSTDCCC750	PS031047.D	16 Jul 2025 00:48		AR\AJ	Ok,M
20	PB168825BL	PB168825BL	PS031048.D	16 Jul 2025 01:36		AR\AJ	Ok,M
21	PB168825BS	PB168825BS	PS031049.D	16 Jul 2025 02:00		AR\AJ	Ok,M
22	PB168825TB	PB168825TB	PS031050.D	16 Jul 2025 02:24		AR\AJ	Ok
23	Q2489-01	G4(0-6)	PS031051.D	16 Jul 2025 02:48		AR\AJ	Ok
24	Q2489-01MS	G4(0-6)MS	PS031052.D	16 Jul 2025 03:13		AR\AJ	Ok,M
25	Q2489-01MSD	G4(0-6)MSD	PS031053.D	16 Jul 2025 03:37		AR\AJ	Ok,M
26	Q2489-02	G4(6-12)	PS031054.D	16 Jul 2025 04:01		AR\AJ	Ok
27	Q2489-03	G3(0-6)	PS031055.D	16 Jul 2025 04:25	Surrogate high in both column	AR\AJ	Not Ok
28	Q2489-04	G3(6-12)	PS031056.D	16 Jul 2025 04:49		AR\AJ	Ok
29	Q2489-05	G2(0-6)	PS031057.D	16 Jul 2025 05:13		AR\AJ	Ok
30	Q2489-06	G2(6-12)	PS031058.D	16 Jul 2025 05:38		AR\AJ	Ok
31	Q2489-07	G1(0-6)	PS031059.D	16 Jul 2025 06:02		AR\AJ	Ok,M
32	Q2489-08	G1(6-12)	PS031060.D	16 Jul 2025 06:26		AR\AJ	Ok
33	I.BLK	I.BLK	PS031061.D	16 Jul 2025 06:50		AR\AJ	Ok
34	HSTDCCC750	HSTDCCC750	PS031062.D	16 Jul 2025 07:14		AR\AJ	Ok,M
35	Q2578-03	WC-A5-01-C	PS031063.D	16 Jul 2025 10:34		AR\AJ	Ok
36	Q2578-07	WC-A2-09-C	PS031064.D	16 Jul 2025 10:58	Surrogate fail in 1st col	AR\AJ	ReRun
37	Q2578-11	WC-A2-10-C	PS031065.D	16 Jul 2025 11:22		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS071525

Review By	yogesh	Review On	7/15/2025 3:24:40 PM
Supervise By	mohammad	Supervise On	7/18/2025 3:10:15 AM
SubDirectory	PS071525	HP Acquire Method	HP Processing Method ps071125 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard	PP24562		
MS/MSD Standard LCS Standard			

38	Q2578-15	WC-A2-11-C	PS031066.D	16 Jul 2025 13:03		AR\AJ	Ok,M
39	Q2578-19	WC-A2-12-C	PS031067.D	16 Jul 2025 13:27		AR\AJ	Ok
40	Q2579-03	WC-A2-13-C	PS031068.D	16 Jul 2025 13:51		AR\AJ	Ok
41	Q2579-07	WC-A2-14-C	PS031069.D	16 Jul 2025 14:15		AR\AJ	Ok
42	Q2578-07RE	WC-A2-09-CRE	PS031070.D	16 Jul 2025 14:40	Surrogate fail in 1st col	AR\AJ	Confirms
43	I.BLK	I.BLK	PS031071.D	16 Jul 2025 15:04		AR\AJ	Ok
44	HSTDCCC750	HSTDCCC750	PS031072.D	16 Jul 2025 15:28		AR\AJ	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-16	
SDG No :	N/A	Start Prep Date : 07/11/2025 Time : 16:30
Weigh By :	JP	End Prep Date : 07/12/2025 Time : 10:35
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A <i>JP</i>
Extraction By :	JP	Initial Room Temperature: 24 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : <i>JP</i>
Tumbler ID :	T-1 / T-2	Supervisor By : <i>JP</i>
TCLP Filter ID :	115525	

Standard Name	MLS USED	STD REF. # FROM LOG
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 U	Lot Number
TCLP-FLUID-1	N/A	WP112804
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. Particle size reduction is not required. q2586-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/11/25 10:00	<i>JP</i> <i>ICD Room</i>	<i>JP</i> <i>EL</i> <i>1 Ex</i>
	Preparation Group	Analysis Group <i>104 day</i>

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168803TB	LEB803	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2561-07	AUD-25-0117	01	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2565-06	MOO-25-0194-0195	02	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2565-07	MOO-25-0191	03	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q2565-08	MOO-25-0196	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2565-09	MOO-25-0180	05	100.04	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q2571-04	TP-18	06	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2571-08	TP-17	07	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q2578-03	WC-A5-01-C	08	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q2578-07	WC-A2-09-C	09	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-1
Q2578-11	WC-A2-10-C	10	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q2578-15	WC-A2-11-C	11	100.02	2000	N/A	N/A	N/A	11.0	1.5	T-2
Q2578-19	WC-A2-12-C	12	100.04	2000	N/A	N/A	N/A	11.5	1.0	T-2
Q2579-03	WC-A2-13-C	13	100.03	2000	N/A	N/A	N/A	10.5	1.5	T-2
Q2579-07	WC-A2-14-C	14	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-2
Q2586-04	TP-16	15	100.01	2000	N/A	N/A	N/A	7.2	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168803TB	LEB803	N/A	N/A	N/A	N/A	N/A	N/A
Q2561-07	AUD-25-0117	N/A	N/A	N/A	N/A	100	N/A
Q2565-06	MOO-25-0194-0195	N/A	N/A	N/A	N/A	100	N/A
Q2565-07	MOO-25-0191	N/A	N/A	N/A	N/A	100	N/A
Q2565-08	MOO-25-0196	N/A	N/A	N/A	N/A	100	N/A
Q2565-09	MOO-25-0180	N/A	N/A	N/A	N/A	100	N/A
Q2571-04	TP-18	N/A	N/A	N/A	N/A	100	N/A
Q2571-08	TP-17	N/A	N/A	N/A	N/A	100	N/A
Q2578-03	WC-A5-01-C	N/A	N/A	N/A	N/A	100	N/A
Q2578-07	WC-A2-09-C	N/A	N/A	N/A	N/A	100	N/A
Q2578-11	WC-A2-10-C	N/A	N/A	N/A	N/A	100	N/A
Q2578-15	WC-A2-11-C	N/A	N/A	N/A	N/A	100	N/A
Q2578-19	WC-A2-12-C	N/A	N/A	N/A	N/A	100	N/A
Q2579-03	WC-A2-13-C	N/A	N/A	N/A	N/A	100	N/A
Q2579-07	WC-A2-14-C	N/A	N/A	N/A	N/A	100	N/A
Q2586-04	TP-16	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 / WC S-2
Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168803TB	LEB803	N/A	N/A	N/A	N/A	#1	4.94
Q2561-07	AUD-25-0117	5.02	96.5	9.3	4.0	#1	4.94
Q2565-06	MOO-25-0194-0195	5.03	96.5	5.5	1.5	#1	4.94
Q2565-07	MOO-25-0191	5.02	96.5	6.0	2.0	#1	4.94
Q2565-08	MOO-25-0196	5.03	96.5	6.4	2.0	#1	4.94
Q2565-09	MOO-25-0180	5.02	96.5	6.6	2.5	#1	4.94
Q2571-04	TP-18	5.01	96.5	9.2	4.0	#1	4.94
Q2571-08	TP-17	5.02	96.5	9.0	4.0	#1	4.94
Q2578-03	WC-A5-01-C	5.02	96.5	11.5	4.5	#1	4.94
Q2578-07	WC-A2-09-C	5.03	96.5	11.0	4.0	#1	4.94
Q2578-11	WC-A2-10-C	5.02	96.5	11.5	4.5	#1	4.94
Q2578-15	WC-A2-11-C	5.01	96.5	11.5	4.5	#1	4.94
Q2578-19	WC-A2-12-C	5.02	96.5	12.0	4.5	#1	4.94
Q2579-03	WC-A2-13-C	5.03	96.5	11.5	4.0	#1	4.94
Q2579-07	WC-A2-14-C	5.04	96.5	12.0	4.5	#1	4.94
Q2586-04	TP-16	5.03	96.5	9.1	4.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2586

WorkList ID : 190676

Department : TCLP Extraction

Date : 07-11-2025 13:41:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2561-07	AUD-25-0117	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	O21	07/10/2025	1311
Q2565-06	MOO-25-0194-0195	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2565-07	MOO-25-0191	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2565-08	MOO-25-0196	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2565-09	MOO-25-0180	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2571-04	TP-18	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2571-08	TP-17	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		07/10/2025	1311
Q2578-03	WC-A5-01-C	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	O22	07/10/2025	1311
Q2578-07	WC-A2-09-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2578-11	WC-A2-10-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2578-15	WC-A2-11-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2578-19	WC-A2-12-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2579-03	WC-A2-13-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2579-07	WC-A2-14-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	07/10/2025	1311
Q2586-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/11/2025	1311

Date/Time 07/11/25 13:50

Raw Sample Received by: SLC

Raw Sample Relinquished by: RMCC

Date/Time 07/11/25 18:00

Raw Sample Received by: RMCC

Raw Sample Relinquished by: SLC

SOP ID: M8151A-Herbicide-23

Clean Up SOP #: N/A

Extraction Start Date : 07/14/2025

Matrix : Water

Extraction Start Time : 10:14

Weigh By: N/A

Extraction By: RS

Extraction End Date : 07/14/2025

Balance check: N/A

Filter By: RS

Extraction End Time : 17:00

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,5,7

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
MDL	0.2ML	5/500 PPM	PP24654
Surrogate	1.0ML	5000 PPB	PP24653
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
Ether	N/A	E3952
Acidified Na2SO4	N/A	EP2621
NAOH 6N	N/A	EP2606
12N H2SO4	N/A	EP2605
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2618
Hexane	N/A	E3950
METHANOL	N/A	V14622
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:

pH Adjusted with 6N NaOH > 12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4 < 2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS723.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/14/25	RS (E4-606)	DR. Pest 18 C13 Cers
17:05	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-23

Concentration Date: 07/14/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168728TB	PB168728TB	TCLP Herbicide	100	6	RUPESH	Evelyn	10			SEP-1
PB168755TB	PB168755TB	TCLP Herbicide		6	RUPESH	Evelyn	10			
PB168803TB	PB168803TB	TCLP Herbicide	100	6	RUPESH	Evelyn	10			2
PB168844BL	HBLK844	TCLP Herbicide	1000	6	RUPESH	Evelyn	10			3
PB168844BS	HLCS844	TCLP Herbicide	1000	6	RUPESH	Evelyn	10			4
Q2489-01	G4(0-6)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		5
Q2489-01MS	G4(0-6)MS	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		6
Q2489-01MS D	G4(0-6)MSD	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		7
Q2489-02	G4(6-12)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		8
Q2489-03	G3(0-6)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		9
Q2489-04	G3(6-12)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		10
Q2489-05	G2(0-6)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		11
Q2489-06	G2(6-12)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		12
Q2489-07	G1(0-6)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		13
Q2489-08	G1(6-12)	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		14
Q2578-03	WC-A5-01-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		15
Q2578-07	WC-A2-09-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		16
Q2578-11	WC-A2-10-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		SEP-1
Q2578-15	WC-A2-11-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		2
Q2578-19	WC-A2-12-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		3
Q2579-03	WC-A2-13-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		4
Q2579-07	WC-A2-14-C	TCLP Herbicide	100	6	RUPESH	Evelyn	10	A		5

* Extracts relinquished on the same date as received.

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168803TB	LEB803	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2561-07	AUD-25-0117	01	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2565-06	MOO-25-0194-0195	02	100.01	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2565-07	MOO-25-0191	03	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q2565-08	MOO-25-0196	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2565-09	MOO-25-0180	05	100.04	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q2571-04	TP-18	06	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2571-08	TP-17	07	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q2578-03	WC-A5-01-C	08	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q2578-07	WC-A2-09-C	09	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-1
Q2578-11	WC-A2-10-C	10	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q2578-15	WC-A2-11-C	11	100.02	2000	N/A	N/A	N/A	11.0	1.5	T-2
Q2578-19	WC-A2-12-C	12	100.04	2000	N/A	N/A	N/A	11.5	1.0	T-2
Q2579-03	WC-A2-13-C	13	100.03	2000	N/A	N/A	N/A	10.5	1.5	T-2
Q2579-07	WC-A2-14-C	14	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-2
Q2586-04	TP-16	15	100.01	2000	N/A	N/A	N/A	7.2	1.5	T-2

07/14/2025
10:00

TCLP EXTRACTION LOGPAGE

PB168728

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168728TB	LEB728	09	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q2489-01	G4(0-6)	01	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q2489-02	G4(6-12)	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2489-03	G3(0-6)	03	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q2489-04	G3(6-12)	04	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2489-05	G2(0-6)	05	100.04	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2489-06	G2(6-12)	06	100.03	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2489-07	G1(0-6)	07	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2489-08	G1(6-12)	08	100.01	2000	N/A	N/A	N/A	6.0	1.5	T-1

07/04/25
111.00

Prep Standard - Chemical Standard Summary

Order ID : Q2579

Test : TCLP Herbicide

Prepbatch ID : PB168844,

Sequence ID/Qc Batch ID: PS071525,

Standard ID :

EP2605,EP2606,EP2621,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,PP24653,PP24654,

Chemical ID :

E3551,E3657,E3881,E3933,E3940,E3941,E3952,M4459,M6041,M6157,P 11183,P11184,P11185,P11186,P12620,P12630,P12689,P12710,P13543,P13544,P13545,P13546,P13971,P13976,P8829,W3112,

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>
3883	12N H2SO4 solution	EP2605	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
04/21/2025								

FROM 333.00000ml of M6041 + 667.00000ml of W3112 = Final Quantity: 1000.000 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>
3884	6 N NAOH	EP2606	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
04/21/2025								

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

[illegible][illegible]

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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24554	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of P13971 + 1.00000ml of P12710 + 48.50000ml of E3933 = 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>
1456	200 PPB Herb MIX STD	PP24556	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.90000ml of E3933 + 0.10000ml of PP24553 = 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>
1455	500 PPB Herb MIX STD	PP24557	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.75000ml of E3933 + 0.25000ml of PP24553 = 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>
1453	1000 PPB Herb MIX STD	PP24558	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24553 = 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>
1454	750 PPB Herb MIX STD	PP24559	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24558 = 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>
1452	1500 PPB HERB MIX STD	PP24560	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24553 = 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>
1854	1000 PPB HERB MIX ICV STD	PP24561	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24554 = 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>
1691	750 PPB ICV HERB STD	PP24562	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24561 = Final Quantity: 1.000 ml



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

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

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

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	12/04/2025	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 #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC04977-3 / Ether, Anhydrous, Glass Distilled, HRGC/HPLC, 4L	242789	06/30/2025	02/14/2025 / Rajesh	01/06/2025 / Rajesh	E3881

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3933

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3941

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	250419	05/31/2026	07/09/2025 / RUPESH	07/09/2025 / RUPESH	E3952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	11/12/2025	05/12/2025 / Abdul	11/01/2021 / Abdul	P11183

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/18/2025	06/18/2025 / Abdul	11/01/2021 / Abdul	P11184

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/18/2025	06/18/2025 / Abdul	11/01/2021 / Abdul	P11185

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	12/18/2025	06/18/2025 / Abdul	11/01/2021 / Abdul	P11186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	11/12/2025	05/12/2025 / Abdul	07/24/2023 / Abdul	P12689

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	08/12/2025	05/12/2025 / Abdul	08/09/2023 / Abdul	P12710

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	08/12/2025	05/12/2025 / Abdul	08/09/2023 / Abdul	P12710

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13543

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13543

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13544

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13544

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13545

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13545

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13546

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13546

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	11/12/2025	05/12/2025 / Abdul	04/02/2025 / Abdul	P13971

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	12/18/2025	06/18/2025 / Abdul	04/02/2025 / Abdul	P13976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	11/12/2025	05/12/2025 / Abdul	08/16/2019 / Stephen	P8829

CHEMICAL RECEIPT LOG BOOK

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

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent



From M4452 to M4459

Received on : 10/30/2019

Received by : AK

Material No.: 3624-05

Batch No.: 0000237721

Manufactured Date: 2019/04/15

Retest Date: 2026/04/13

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

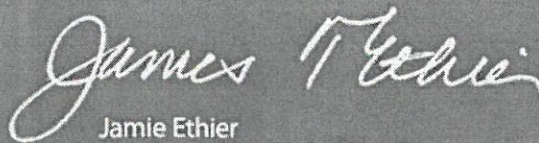
Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	$\leq 0.005 \%$	< 0.001
Iodide (I)	$\leq 0.002 \%$	< 0.002
Bromide (Br)	$\leq 0.01 \%$	< 0.01
Chlorate and Nitrate (as NO_3)	$\leq 0.003 \%$	< 0.001
ACS - Phosphate (PO_4)	$\leq 5 \text{ ppm}$	< 5
Sulfate (SO_4)	$\leq 0.004 \%$	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5
Iron (Fe)	$\leq 2 \text{ ppm}$	< 2
Calcium (Ca)	$\leq 0.002 \%$	< 0.001
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001
Potassium (K)	$\leq 0.005 \%$	0.002

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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

Avantor Performance Materials, LLC

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



**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



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

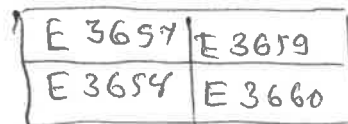
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



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	E199	Quality Test / Release Date	08/02/2024
Lot Number	242789	Expiration Date	Jun/2025
Description	ETHYL ETHER, PESTICIDE GRADE		
Country of Origin	Mexico		
Chemical Origin	Organic - synthetic		
BSE/TSE Comment	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99.5	99.97
COLOR	APHA	<= 10	5
EVAPORATION RESIDUE	ppm	<= 3	0.2
GC-ECD ANALYSIS	pg/ml	<= 10	<1
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.19
OPTICAL ABS AT 250 NM	ABSORBANCE UNITS	<= 0.08	0.05
OPTICAL ABS AT 270 NM	ABSORBANCE UNITS	<= 0.02	0.01
OPTICAL ABS AT 300 NM	ABSORBANCE UNITS	<= 0.01	0.002
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.8
WATER (H2O)	%	<= 0.08	0.003

Kalyan Paruchuri

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

E 3881

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.

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

 **avantorsTM**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

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

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 RI on 6/11/25

E3941

Harout Sahagian - Quality Control Manager - Fair Lawn

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

CERTIFICATE OF ANALYSIS

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

Catalogue Number	E198
Lot Number	250419
Description	ETHYL ETHER, HPLC GRADE
CAS Number	60-29-7
Quality Test/Release Date	02/Jun/2025
Suggested retest date	31/May/2026
Country of Origin	Mexico
Declaration of Origin	Organic - synthetic
BSE/TSE	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99	99.95
CARBONYL COMPOUNDS	%	<= 0.001	<0.001
COLOR	APHA	<= 10	5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.708 - 0.710	0.710
EVAPORATION RESIDUE	ppm	<= 5	0.1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.15
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.07	0.03
OPTICAL ABS AT 280 NM	ABSORBANCE UNITS	<= 0.02	0.003
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.6
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3490 - 1.3520	1.3498
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	= PASS TEST	PASS TEST
TITRATABLE ACID	MEQ/G	<= 0.0002	<0.00003
WATER (H2O)	%	<= 0.01	0.008



Matthew Micek
QC Supervisor

Received on 7/9/25
E3952

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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

avantor™



M 6041-4b
MS

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

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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

 **avantorsm**

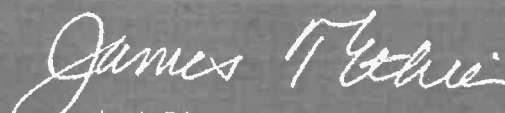


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

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

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 2411262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



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

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:

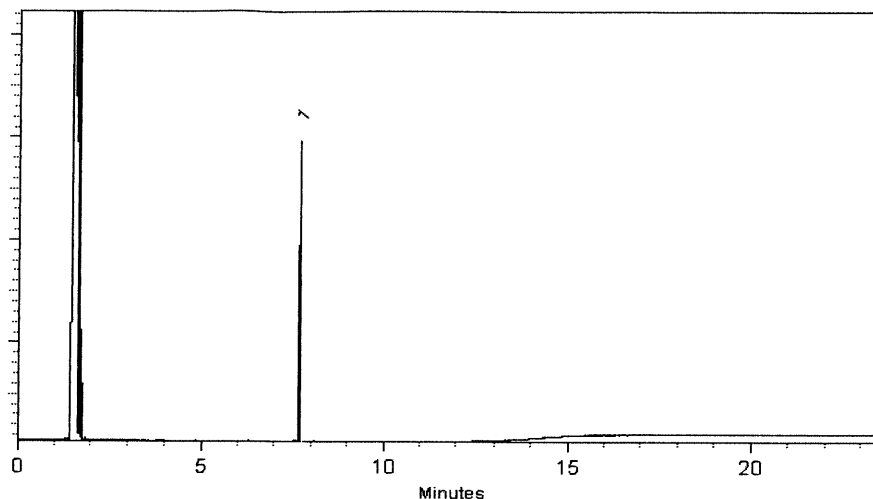
250°C

Det. Temp:

330°C

Det. Type:

FID

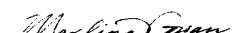


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
↓
P11186
—
AR
01/02/21

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:

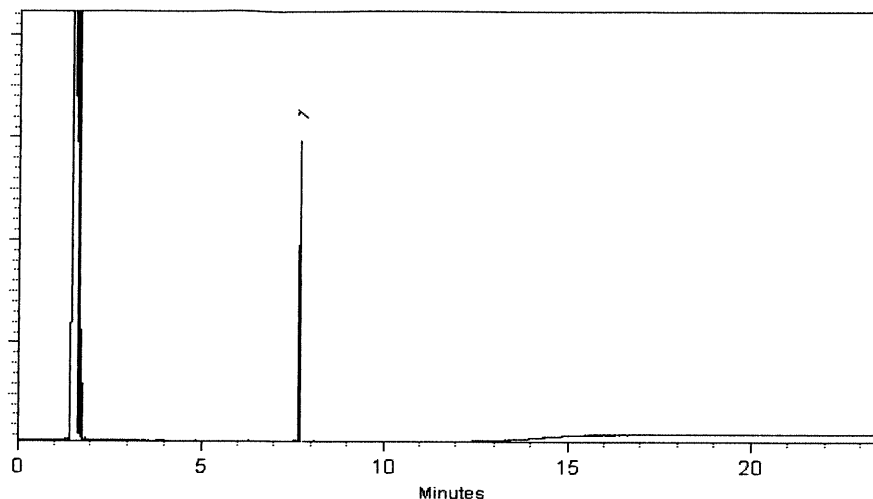
250°C

Det. Temp:

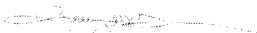
330°C

Det. Type:

FID



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.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
↓
P11186
—
AR
01/02/21

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:

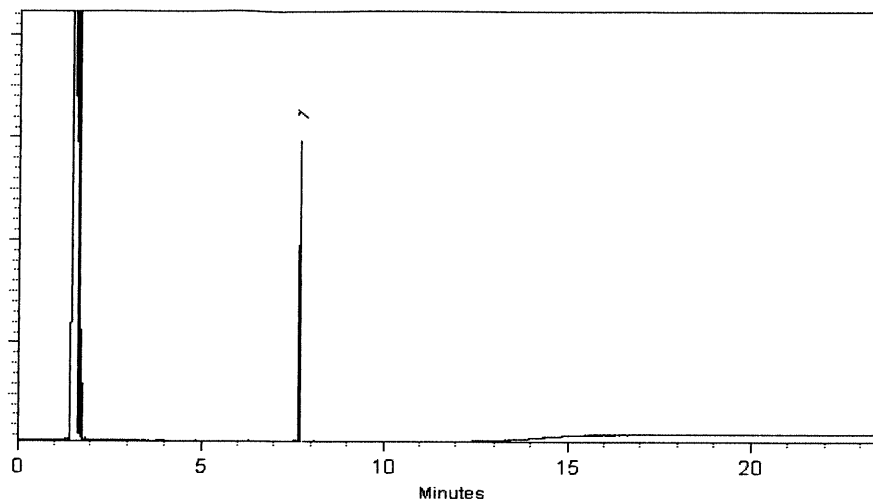
250°C

Det. Temp:

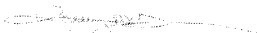
330°C

Det. Type:

FID

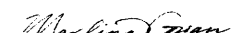


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
↓
P11186
—
AR
01/02/21

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:

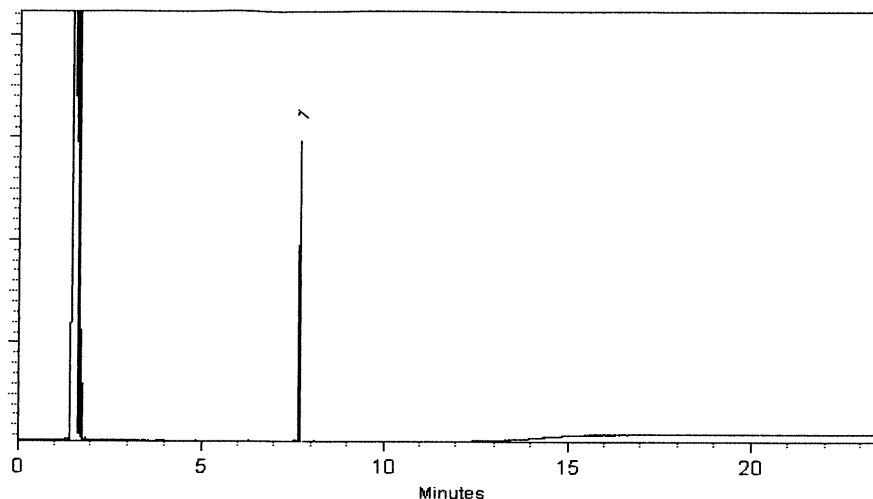
250°C

Det. Temp:

330°C

Det. Type:

FID

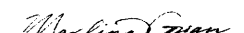


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

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

P11177
↓
P11186
—
AR
01/02/21



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

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

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* = 7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176 µg/mL Gravimetric +/- 6.7480 µg/mL Unstressed +/- 6.7480 µg/mL Stressed
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315 µg/mL Gravimetric +/- 6.8141 µg/mL Unstressed +/- 6.8141 µg/mL Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed

8	Acifluorfen methyl ester		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%			+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

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

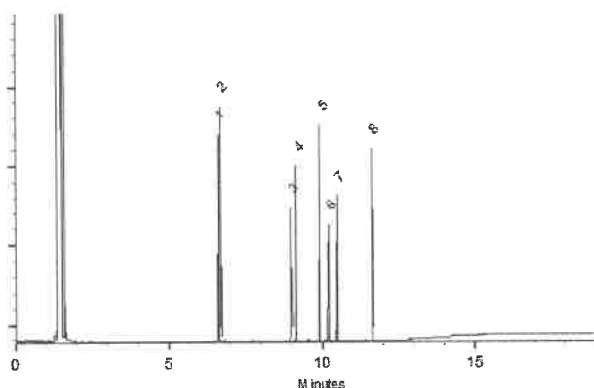
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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



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

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



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. : 32055 **Lot No.:** A0192429

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P12626 / 5
P12630
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

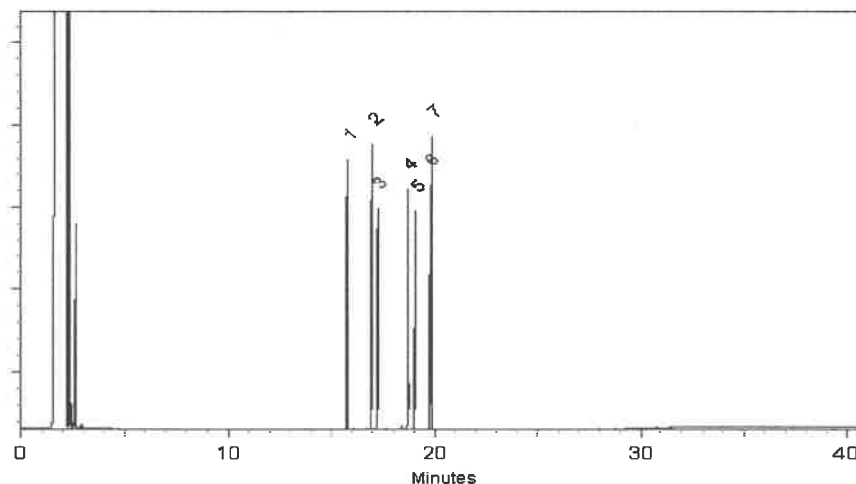
FID

Split Vent:

2 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.


Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



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. : 32059 **Lot No.:** A0199844

Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P 12685 / (S)
↓
P 12689
↓
RAU= 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

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

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

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:

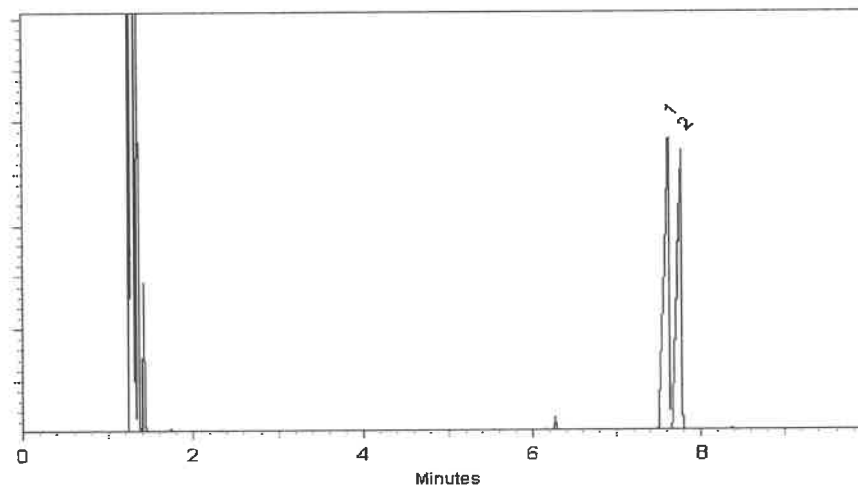
FID

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.


Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

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

P12706
↓
P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

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

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

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

Homogeneity:

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

**Instructions for Use:**

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

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

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

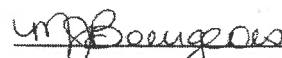
Expiration of Certification:

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

Maintenance of Certification:

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

Sample lot approver:


Monica Bourgeois
QMS Representative

P12706 / (10)
↓
P12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

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

Homogeneity:

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

P13541
↓
P13561
20
9/25/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

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

Homogeneity:

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

P13541
↓
P13561
20
9/25/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

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

Homogeneity:

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

P13541
↓
P13561
20
9/25/2024

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

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

Homogeneity:

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

P13541
↓
P13561
20
9/25/2024



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32050 **Lot No.:** A0221255

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

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

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

13968
↓
13977

10

AWF
4/16/2025

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:

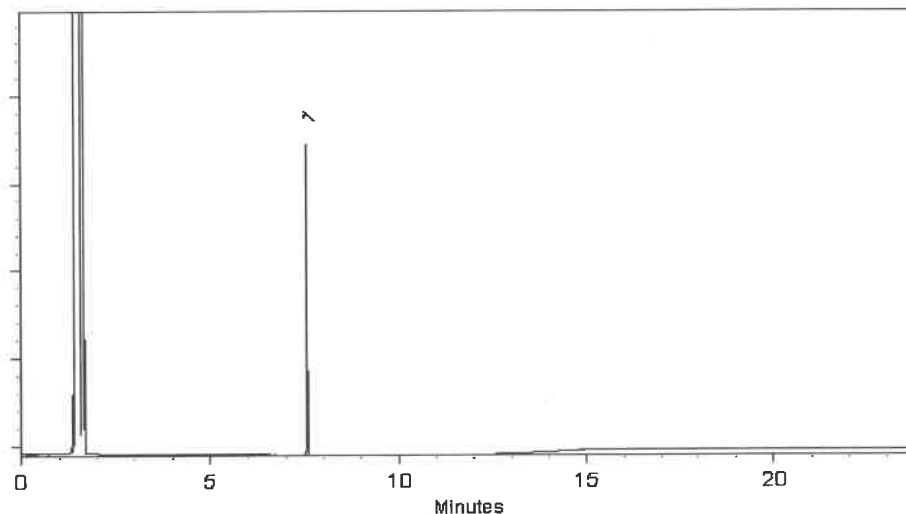
FID

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.


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 32050 **Lot No.:** A0221255

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

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

Expiration Date : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

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

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

13968
↓
13977

10

AWF
4/16/2025

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:

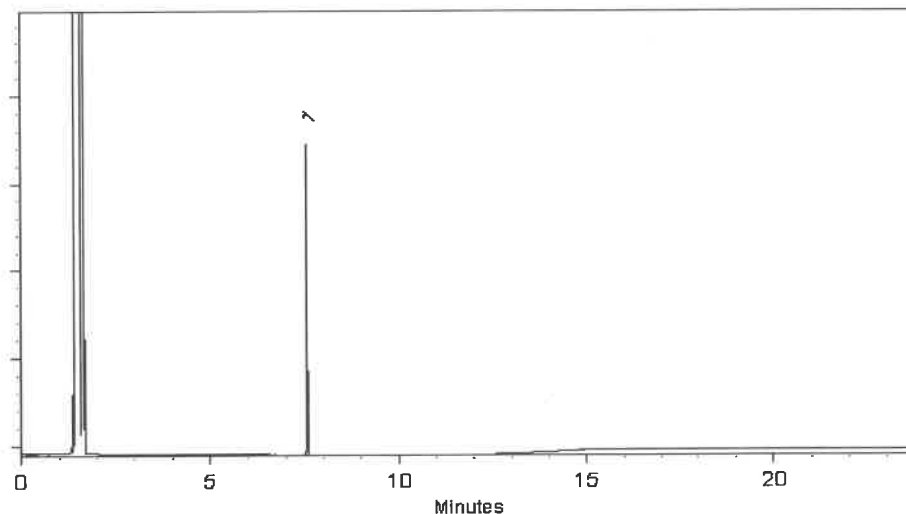
FID

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.


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester CAS # 17640-02-7 Purity 98% (Lot 1764600)	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric +/- 34.4896 µg/mL Unstressed +/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

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:

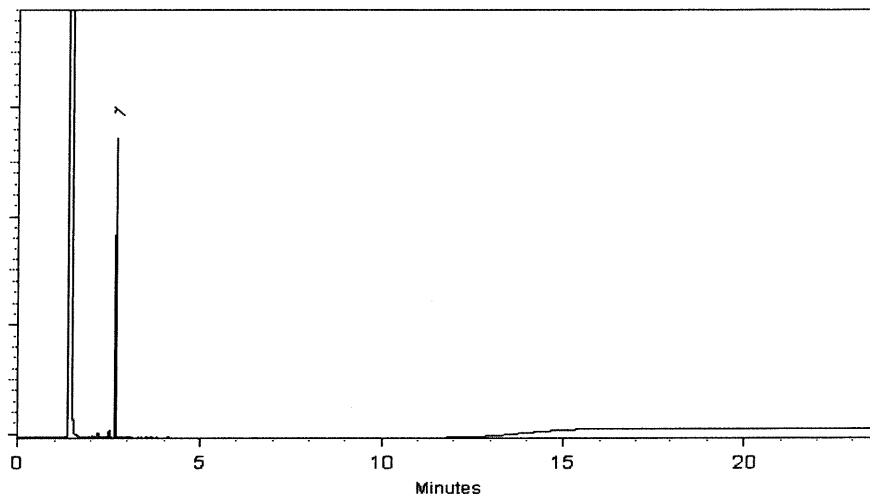
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019

Balance: 1127510105

Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

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



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q 2579

COC Number: 2042113

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC

ADDRESS: 150 Bay Street, Suite 806

CITY: Jersey City STATE: NJ ZIP: 07302

ATTENTION: Austin Farmerie

PHONE: 412-716-1366

FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY

PROJECT #: E9309 LOCATION: Brooklyn, NY

PROJECT MANAGER: Austin Farmerie

E-MAIL: afarmerie@entact.com

PHONE: 412-716-1366

FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC

PO# E9309

ADDRESS: 999 Oakmont Plaza Drive, Suite 300

CITY: Westmont

STATE: IL ZIP: 60559

ATTENTION: Wendy Murray

PHONE: 800-936-8228

ANALYSIS

TCLP VOCs	TCLP ICP Metals + Cu, Ni, Zn	TCLP Herb	TCLP Pest	TCLP SVOCs	TCLP pH *	I/C/R	PCBs	Oil & Grease
1	2	3	4	5	6	7	8	9

* For TCLP pH -
include preparatory
information for TCLP
leachate

PRESERVATIVES

E	E	E	E	E	E	E	E	E
1	2	3	4	5	6	7	8	9

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

DATA TURNAROUND INFORMATION

FAX: 3 DAYS*

HARD COPY: 3 DAYS*

EDD 3 DAYS*

* TO BE APPROVED BY ALLIANCE

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E	
1.	WC-A2-13-G	Soil		X	7/10	12:00	1	X									
2.	WC-A2-13-C	Soil	X		7/10	12:00	11		X	X	X	X	X	X	X	X	
3.	WC-A2-14-G	Soil		X	7/10	12:00	1	X									
4.	WC-A2-14-C	Soil	X		7/10	12:00	11		X	X	X	X	X	X	X	X	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER 1. Austin Farmerie	DATE/TIME 7/10/25 1350	RECEIVED BY 	1350 7-10-25	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp. 41.4° ☐ Ice in Cooler?:
RELINQUISHED BY	DATE/TIME	RECEIVED BY		Comments:
2.				
RELINQUISHED BY 	DATE/TIME 7-10-25 1527	RECEIVED FOR LAB BY		
3.				

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q2579

COC Number: 2042113

Page 2 of 2

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																			
COMPANY: ENTACT, LLC		PROJECT NAME: 540 Degraw St Brooklyn, NY		BILL TO: ENTACT, LLC					PO# E9309														
ADDRESS: 150 Bay Street, Suite 806		PROJECT #: E9309 LOCATION: Brooklyn, NY		ADDRESS: 999 Oakmont Plaza Drive, Suite 300																			
CITY Jersey City STATE: NJ ZIP: 07302		PROJECT MANAGER: Austin Farmerie		CITY: Westmont					STATE: IL ZIP: 60559														
ATTENTION: Austin Farmerie		E-MAIL: afarmerie@entact.com		ATTENTION: Wendy Murray					PHONE: 800-936-8228														
PHONE: 412-716-1366 FAX:		PHONE: 412-716-1366 FAX:		ANALYSIS																			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES																			
FAX: 3 DAYS* HARD COPY: 3 DAYS* EDD 3 DAYS* * TO BE APPROVED BY ALLIANCE STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ RESULTS + QC ☐ New Jersey REDUCED ☐ New Jersey CLP ☐ EDD Format		☐ USEPA CLP ☐ New York State ASP "B" ☐ New York State ASP "A" ☐ Other		ASTM COD ASTM Ammonia Nitrogen ASTM O&G ASTM TS TS, TVS pH (9045D) Paint Filter																	
				COMMENTS																			
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		E E E E E E E											
						COMP GRAB		DATE TIME				1 2 3 4 5 6 7 8 9											
1.		WC-A2-13-G		Soil				X		7/10 12:00		1											
2.		WC-A2-13-C		Soil		X				7/10 12:00		11		X X X X X X X									
3.		WC-A2-14-G		Soil				X		7/10 12:00		1											
4.		WC-A2-14-C		Soil		X				7/10 12:00		11		X X X X X X X									
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY.																							
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt:								Compliant		Non Compliant		Cooler Temp		Ice in Cooler?			
1. Austin Farmerie		7/10/25		1350		7-10-25												4.4 C					
RELINQUISHED BY		DATE/TIME		RECEIVED BY		Comments:																	
2.																							
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT:								Hand Delivered		Overnight		Shipment Complete		YES NO			
3.		7-10-25		1527		Page of								ALLIANCE:		Picked Up		Overnight					
WHITE - ALLIANCE COPY FOR RETURN TO CLIENT														YELLOW - ALLIANCE COPY				PINK - SAMPLER COPY					

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