

Cover Page

Order ID : Q2074

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2074-01
Q2074-02
Q2074-03
Q2074-04
Q2074-05
Q2074-06
Q2074-07
Q2074-08

Client Sample Number

TP-12
TP-7
TP-15
TP-20
TP-38
TP-19
TP-40
TP-18

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: 5/24/2025

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 #: Q2074

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRATIK PATEL

Date: 05/24/2025

LAB CHRONICLE

OrderID:	Q2074	OrderDate:	5/16/2025 3:13:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	TP-12	SOIL			05/15/25			05/16/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	TP-7	SOIL			05/15/25			05/16/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	TP-15	SOIL			05/15/25			05/16/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	TP-20	SOIL			05/15/25			05/16/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	TP-38	SOIL			05/15/25			05/16/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	

LAB CHRONICLE

			PCB	8082A	05/20/25	05/20/25	
			Pesticide-TCL	8081B	05/20/25	05/20/25	
Q2074-06	TP-19	SOIL			05/15/25		05/16/25
			Diesel Range Organics	8015D	05/20/25	05/21/25	
			Herbicide	8151A	05/21/25	05/22/25	
			PCB	8082A	05/20/25	05/20/25	
			Pesticide-TCL	8081B	05/20/25	05/20/25	
			Gasoline Range Organics	8015D		05/20/25	
Q2074-07	TP-40	SOIL			05/15/25		05/16/25
			Diesel Range Organics	8015D	05/20/25	05/21/25	
			Herbicide	8151A	05/21/25	05/22/25	
			PCB	8082A	05/20/25	05/20/25	
			Pesticide-TCL	8081B	05/20/25	05/20/25	
Q2074-08	TP-18	SOIL			05/16/25		05/16/25
			Diesel Range Organics	8015D	05/20/25	05/21/25	
			Herbicide	8151A	05/21/25	05/23/25	
			PCB	8082A	05/20/25	05/20/25	
			Pesticide-TCL	8081B	05/20/25	05/20/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

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

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS030124.D	PIBLK-PS030124.D	2,4-DCAA	1	500	419	84		39	175
		2,4-DCAA	2	500	418	84		39	175
I.BLK-PS030313.D	PIBLK-PS030313.D	2,4-DCAA	1	500	492	98		39	175
		2,4-DCAA	2	500	474	95		39	175
PB168097BL	PB168097BL	2,4-DCAA	1	500	417	83		10	141
		2,4-DCAA	2	500	357	71		10	141
PB168097BS	PB168097BS	2,4-DCAA	1	500	535	107		10	141
		2,4-DCAA	2	500	506	101		10	141
I.BLK-PS030323.D	PIBLK-PS030323.D	2,4-DCAA	1	500	497	99		39	175
		2,4-DCAA	2	500	492	98		39	175
Q2071-01MS	L1-WC-7MS	2,4-DCAA	1	500	517	103		10	141
		2,4-DCAA	2	500	400	80		10	141
Q2071-01MSD	L1-WC-7MSD	2,4-DCAA	1	500	518	104		10	141
		2,4-DCAA	2	500	403	81		10	141
I.BLK-PS030333.D	PIBLK-PS030333.D	2,4-DCAA	1	500	501	100		39	175
		2,4-DCAA	2	500	496	99		39	175
I.BLK-PS030358.D	PIBLK-PS030358.D	2,4-DCAA	1	500	513	103		39	175
		2,4-DCAA	2	500	501	100		39	175
Q2074-01	TP-12	2,4-DCAA	1	500	317	63		10	141
		2,4-DCAA	2	500	290	58		10	141
Q2074-02	TP-7	2,4-DCAA	1	500	323	65		10	141
		2,4-DCAA	2	500	271	54		10	141
Q2074-03	TP-15	2,4-DCAA	1	500	335	67		10	141
		2,4-DCAA	2	500	317	63		10	141
Q2074-04	TP-20	2,4-DCAA	1	500	345	69		10	141
		2,4-DCAA	2	500	305	61		10	141
Q2074-05	TP-38	2,4-DCAA	1	500	374	75		10	141
		2,4-DCAA	2	500	343	69		10	141
Q2074-06	TP-19	2,4-DCAA	1	500	352	70		10	141
		2,4-DCAA	2	500	310	62		10	141
Q2074-07	TP-40	2,4-DCAA	1	500	280	56		10	141
		2,4-DCAA	2	500	239	48		10	141
Q2074-08	TP-18	2,4-DCAA	1	500	324	65		10	141
		2,4-DCAA	2	500	297	59		10	141
I.BLK-PS030368.D	PIBLK-PS030368.D	2,4-DCAA	1	500	514	103		39	175
		2,4-DCAA	2	500	513	103		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2074</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS030326.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2071-01MS (Column 1)	L1-WC-7MS											
	DICAMBA	192.4	0	150	ug/Kg	78				10	112	
	DICHLORPROP	192.4	0	164	ug/Kg	85				10	113	
	2,4-D	192.4	0	188	ug/Kg	98				10	144	
	2,4,5-TP(Silvex)	192.4	0	159	ug/Kg	83				10	114	
	2,4,5-T	192.4	0	158	ug/Kg	82				10	115	
	2,4-DB	192.4	0	198	ug/Kg	103				10	140	
Client Sample ID: Q2071-01MS (Column 2)	Dinoseb	192.4	0	16.4	ug/Kg	9	*			10	118	
	L1-WC-7MS											
	DICAMBA	192.4	0	149	ug/Kg	77				10	112	
	DICHLORPROP	192.4	0	157	ug/Kg	82				10	113	
	2,4-D	192.4	0	175	ug/Kg	91				10	144	
	2,4,5-TP(Silvex)	192.4	0	165	ug/Kg	86				10	114	
	2,4,5-T	192.4	0	157	ug/Kg	82				10	115	
	2,4-DB	192.4	0	134	ug/Kg	70				10	140	
	Dinoseb	192.4	0	12.6	ug/Kg	7	*			10	118	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2074</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS030327.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2071-01MSD (Column 1)	L1-WC-7MSD											
	DICAMBA	192.3	0	151	ug/Kg	79		1		10	112	20
	DICHLORPROP	192.3	0	165	ug/Kg	86		1		10	113	20
	2,4-D	192.3	0	189	ug/Kg	98		0		10	144	20
	2,4,5-TP(Silvex)	192.3	0	161	ug/Kg	84		1		10	114	20
	2,4,5-T	192.3	0	160	ug/Kg	83		1		10	115	20
	2,4-DB	192.3	0	198	ug/Kg	103		0		10	140	20
Client Sample ID: Q2071-01MSD (Column 2)	Dinoseb	192.3	0	15.8	ug/Kg	8	*	12		10	118	20
	L1-WC-7MSD											
	DICAMBA	192.3	0	150	ug/Kg	78		1		10	112	20
	DICHLORPROP	192.3	0	157	ug/Kg	82		0		10	113	20
	2,4-D	192.3	0	176	ug/Kg	92		1		10	144	20
	2,4,5-TP(Silvex)	192.3	0	167	ug/Kg	87		1		10	114	20
	2,4,5-T	192.3	0	158	ug/Kg	82		0		10	115	20
	2,4-DB	192.3	0	165	ug/Kg	86		21		10	140	20
	Dinoseb	192.3	0	0	ug/Kg	0	*	200		10	118	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Analytical Method: 8151A

Client: CDM Smith

Datafile : PS030316.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD			Limits	
						RPD	Qual	Qual	Low	High
PB168097BS (Column 1)	DICAMBA	166.6	169	ug/Kg	101				72	129
	DICHLORPROP	166.6	167	ug/Kg	100				77	135
	2,4-D	166.6	168	ug/Kg	101				65	144
	2,4,5-TP(Silvex)	166.6	171	ug/Kg	103				74	146
	2,4,5-T	166.6	172	ug/Kg	103				77	134
	2,4-DB	166.6	178	ug/Kg	107				72	122
	Dinoseb	166.6	169	ug/Kg	101				74	132
PB168097BS (Column 2)	DICAMBA	166.6	159	ug/Kg	95				72	129
	DICHLORPROP	166.6	157	ug/Kg	94				77	135
	2,4-D	166.6	161	ug/Kg	97				65	144
	2,4,5-TP(Silvex)	166.6	164	ug/Kg	98				74	146
	2,4,5-T	166.6	163	ug/Kg	98				77	134
	2,4-DB	166.6	140	ug/Kg	84				72	122
	Dinoseb	166.6	160	ug/Kg	96				74	132

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168097BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074

SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168097BL

Lab File ID: PS030315.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/21/2025

Date Analyzed (1): 05/21/2025

Date Analyzed (2): 05/21/2025

Time Analyzed (1): 16:32

Time Analyzed (2): 16:32

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
PB168097BS	PB168097BS	PS030316.D	05/21/2025	05/21/2025
L1-WC-7MS	Q2071-01MS	PS030326.D	05/21/2025	05/21/2025
L1-WC-7MSD	Q2071-01MSD	PS030327.D	05/21/2025	05/21/2025
TP-12	Q2074-01	PS030360.D	05/22/2025	05/22/2025
TP-7	Q2074-02	PS030361.D	05/22/2025	05/22/2025
TP-15	Q2074-03	PS030362.D	05/22/2025	05/22/2025
TP-20	Q2074-04	PS030363.D	05/22/2025	05/22/2025
TP-38	Q2074-05	PS030364.D	05/22/2025	05/22/2025
TP-19	Q2074-06	PS030365.D	05/22/2025	05/22/2025
TP-40	Q2074-07	PS030366.D	05/22/2025	05/22/2025
TP-18	Q2074-08	PS030367.D	05/23/2025	05/23/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	83.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030360.D	1	05/21/25 08:30	05/22/25 21:17	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.30	U	9.30	80.1	ug/Kg
120-36-5	DICHLORPROP	15.3	U	15.3	80.1	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	80.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	80.1	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	80.1	ug/Kg
94-82-6	2,4-DB	28.9	U	28.9	80.1	ug/Kg
88-85-7	DINOSEB	12.9	U	12.9	80.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	317		10 - 141	63%	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\PS052225\
 Data File : PS030360.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 21:17
 Operator : AR\AJ
 Sample : Q2074-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-12

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
 Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 22:44:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.928	7.445	903.3E6	232.0E6	317.206	289.971m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030360.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:17
Operator : AR\AJ
Sample : Q2074-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

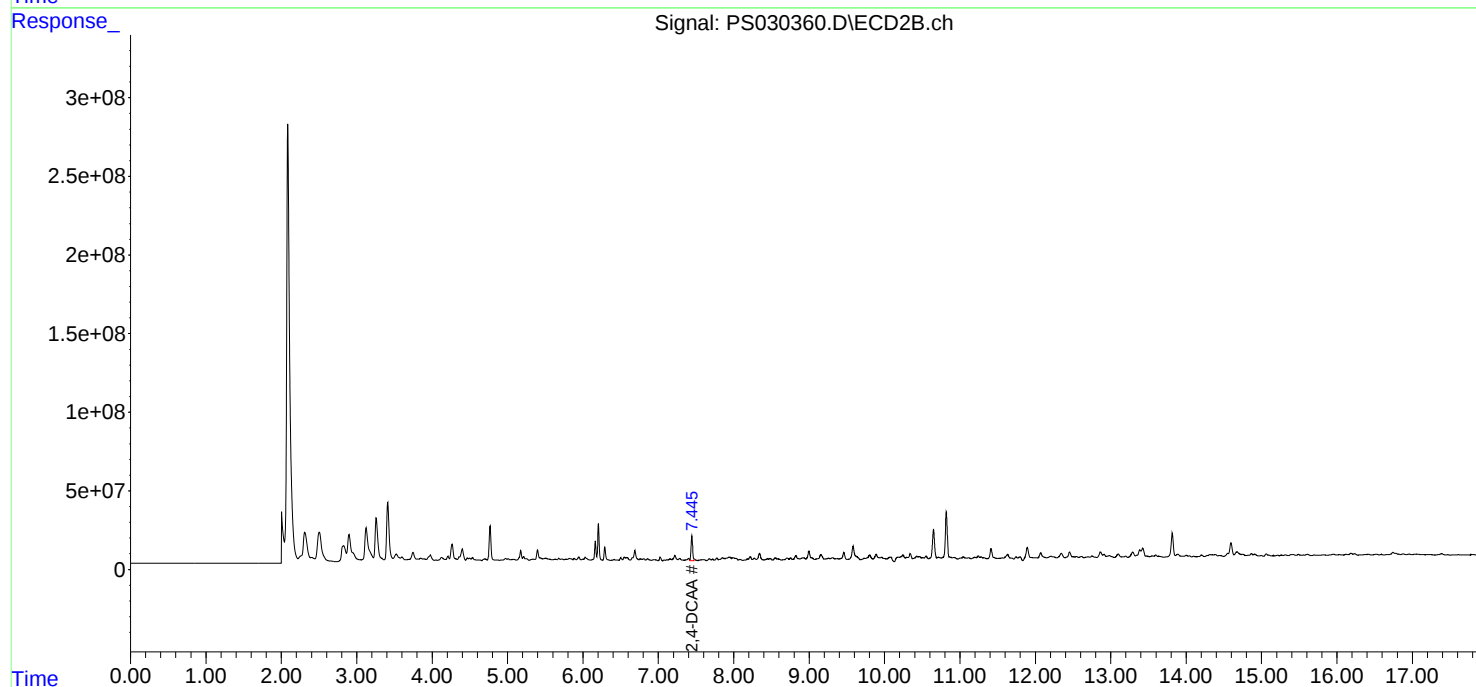
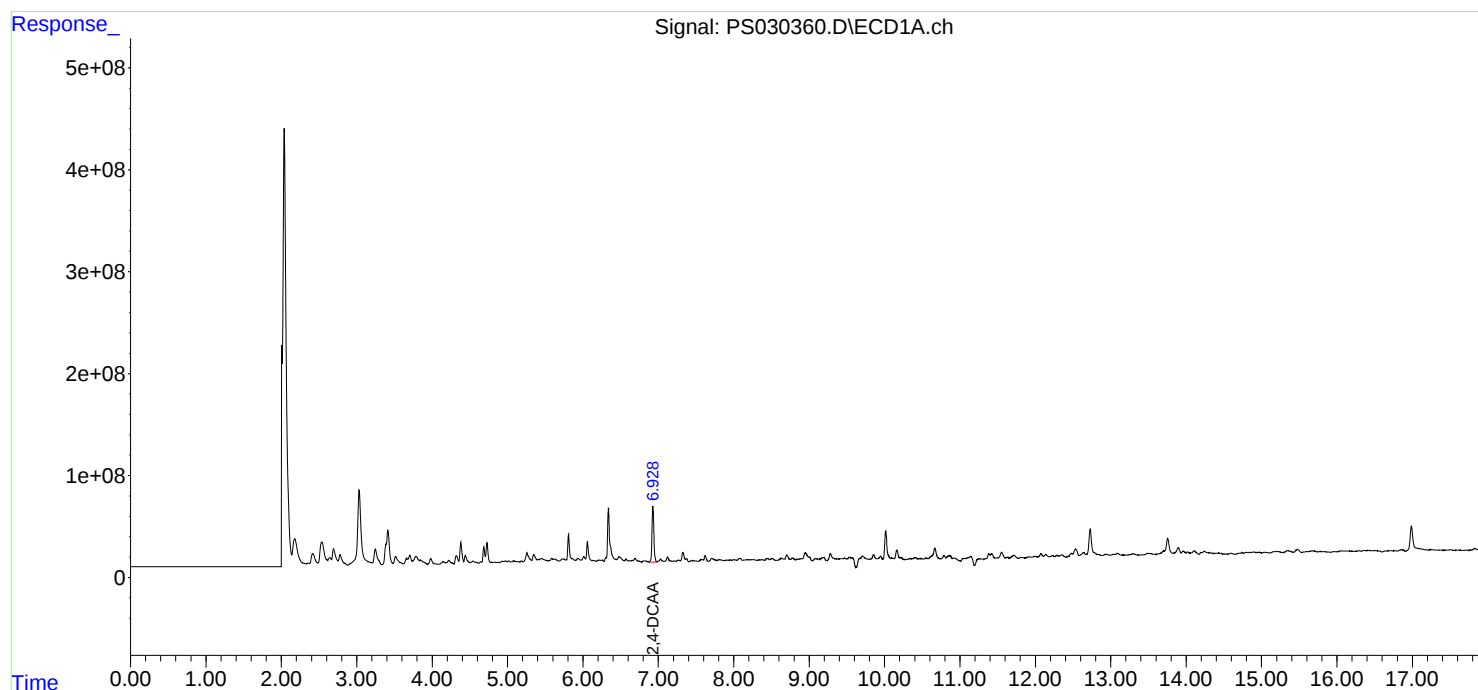
Instrument :
ECD_S
ClientSampleId :
TP-12

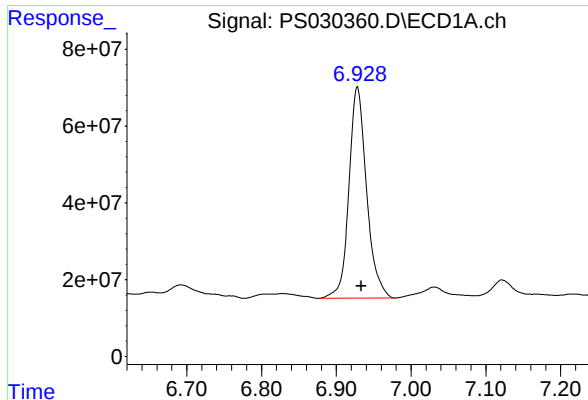
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/23/2025
Supervised By : mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





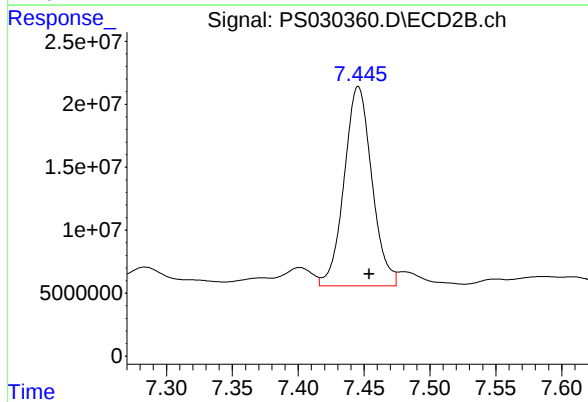
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 903342658
Conc: 317.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-12

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 232036211
Conc: 289.97 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030361.D	1	05/21/25 08:30	05/22/25 21:41	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.5	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.5	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.5	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.5	ug/Kg
94-82-6	2,4-DB	27.3	U	27.3	75.5	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	323		10 - 141	65%	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\PS052225\
Data File : PS030361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:41
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.928	7.446	920.5E6	216.6E6	323.216	270.681

Target Compounds

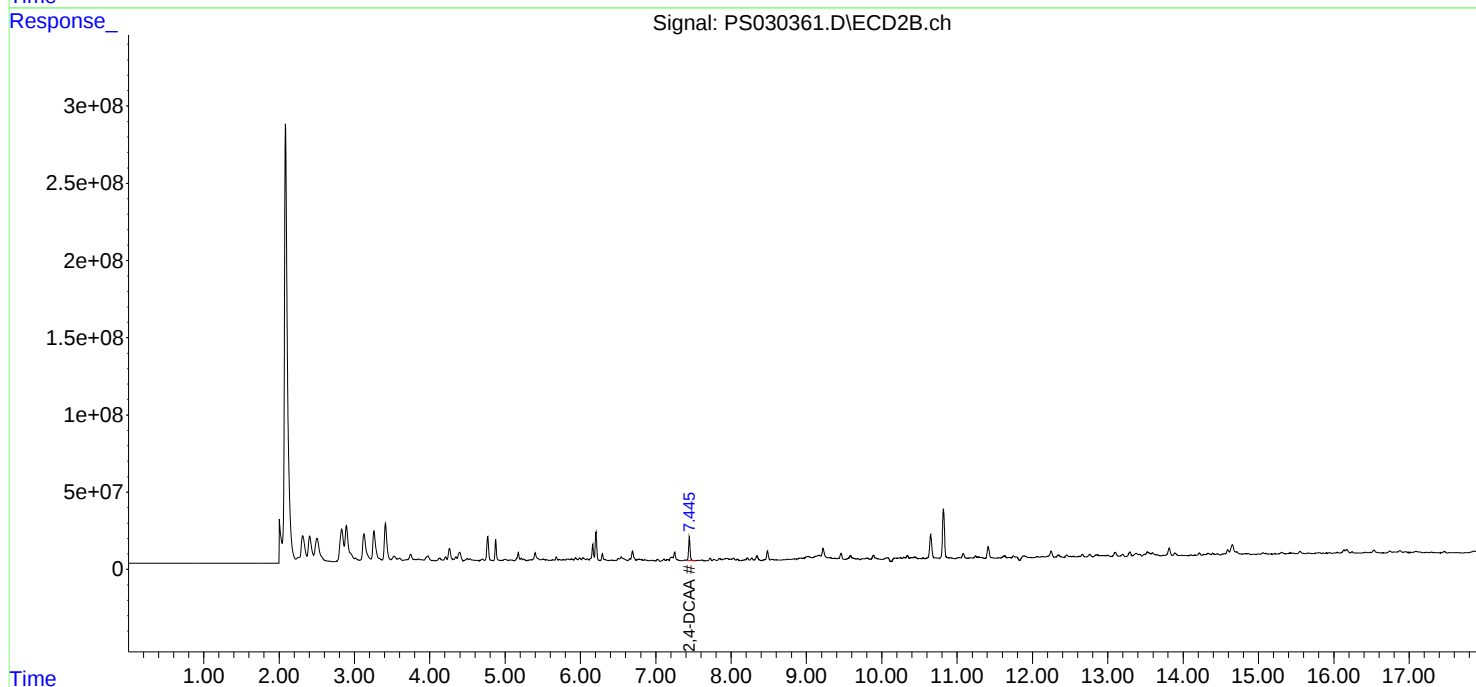
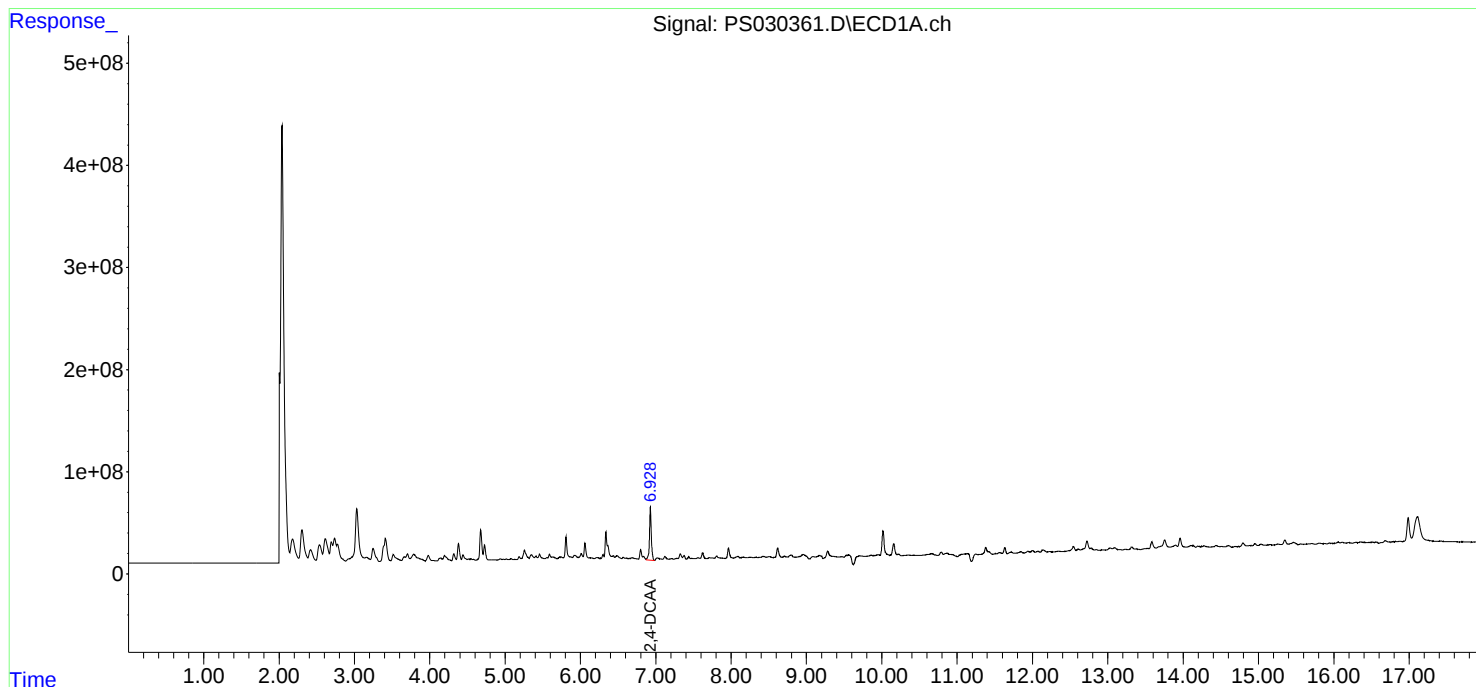
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

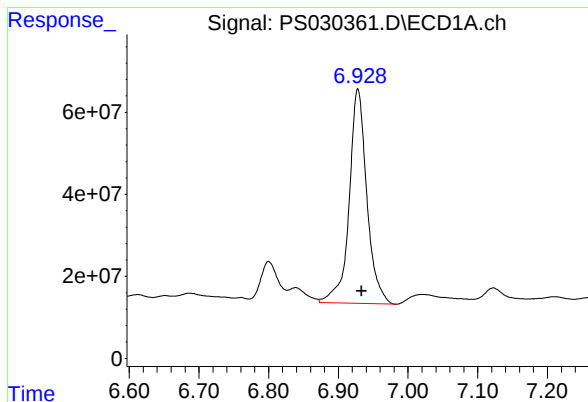
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:41
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





#4 2,4-DCAA

R.T.: 6.928 min

Delta R.T.: -0.005 min

Response: 920456079

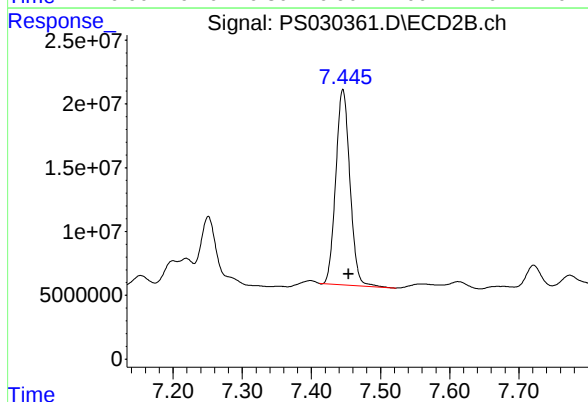
Conc: 323.22 ng/ml

Instrument :

ECD_S

ClientSampleId :

TP-7



#4 2,4-DCAA

R.T.: 7.446 min

Delta R.T.: -0.008 min

Response: 216599692

Conc: 270.68 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	87
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030362.D	1	05/21/25 08:30	05/22/25 22:05	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	76.9	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	76.9	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	76.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	76.9	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	76.9	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	76.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	76.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	335		10 - 141	67%	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\PS052225\
 Data File : PS030362.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 22:05
 Operator : AR\AJ
 Sample : Q2074-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-15

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
 Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 02:01:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

4) S	2,4-DCAA	6.927	7.444	954.7E6	253.4E6	335.231	316.716m
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Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030362.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:05
Operator : AR\AJ
Sample : Q2074-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

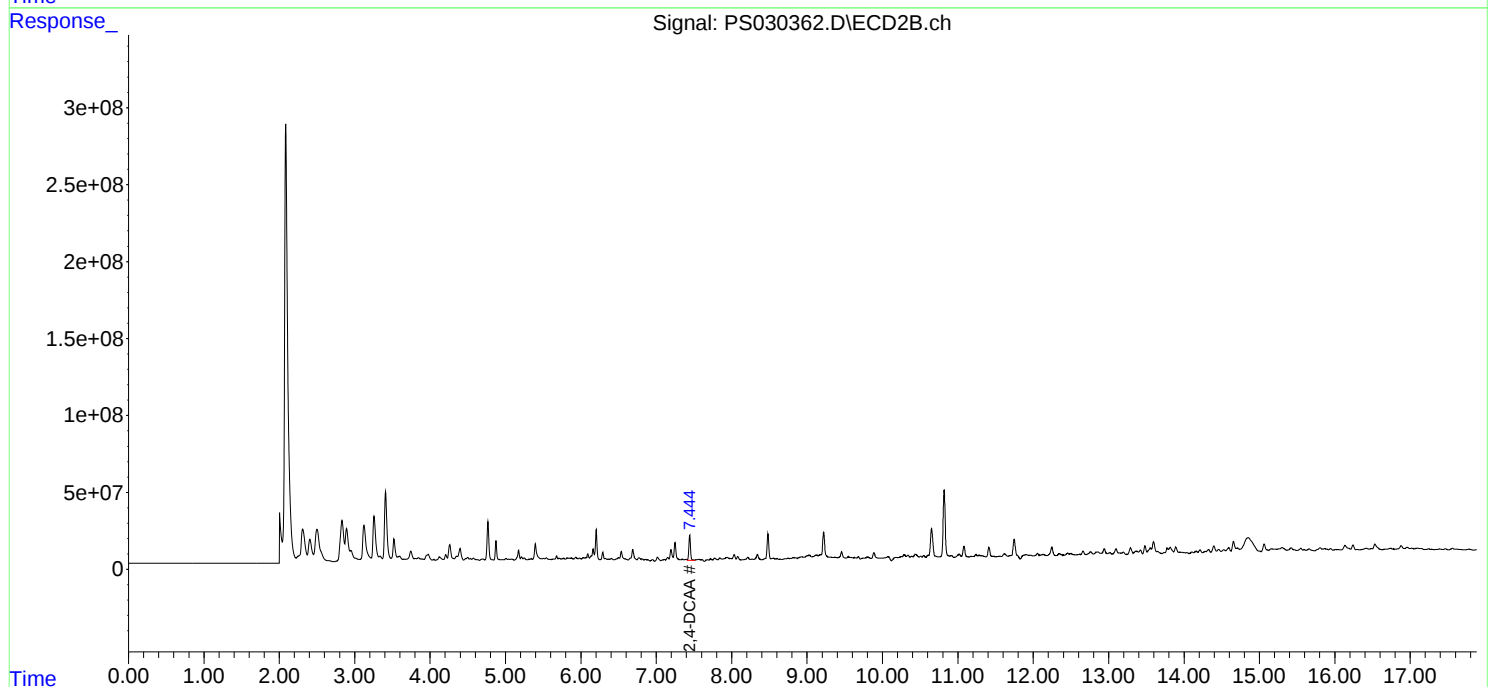
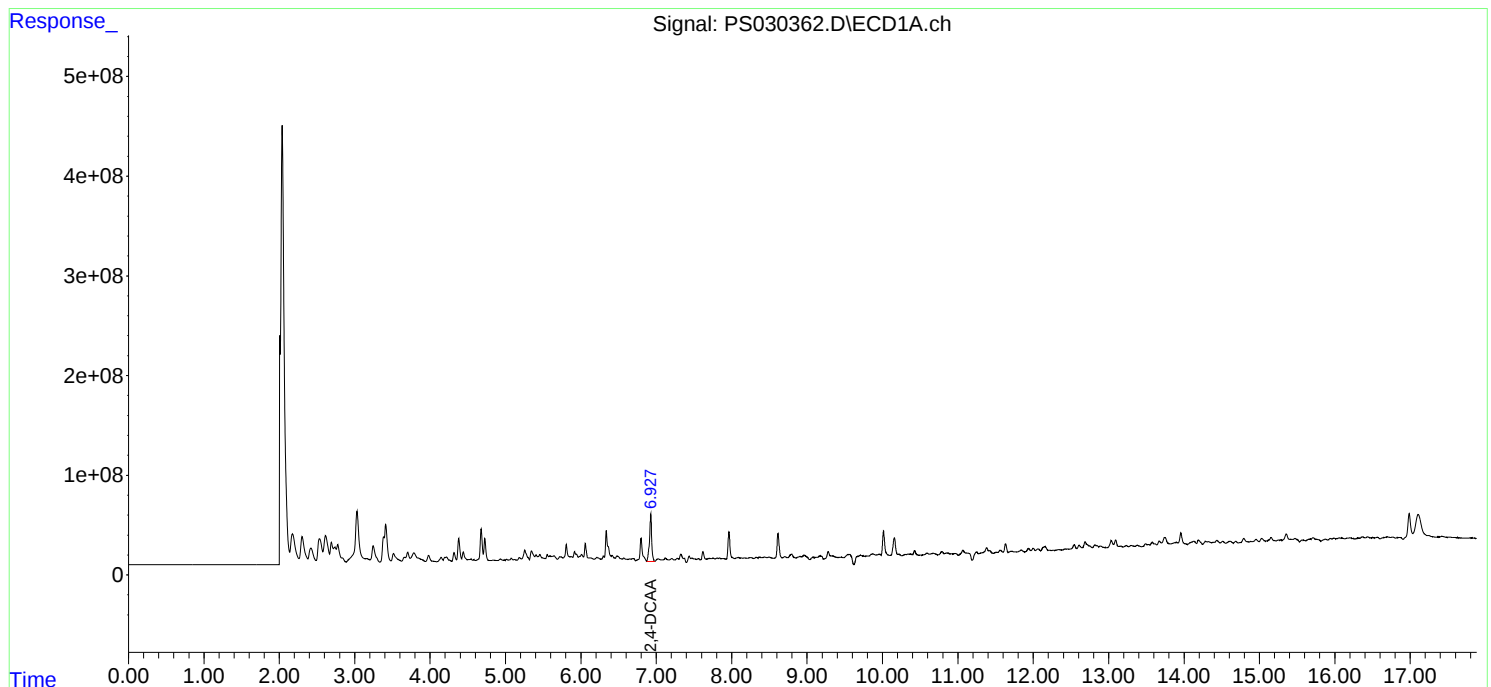
Instrument :
ECD_S
ClientSampleId :
TP-15

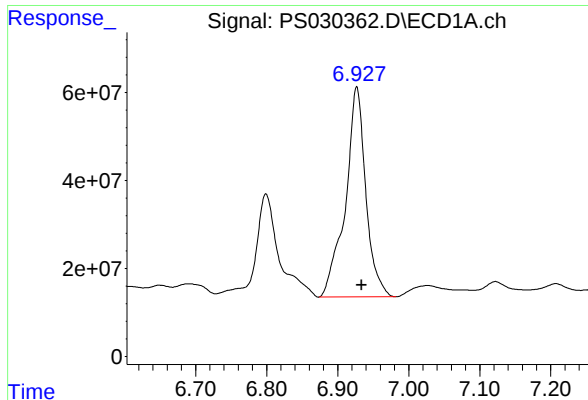
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/23/2025
Supervised By : mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:01:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





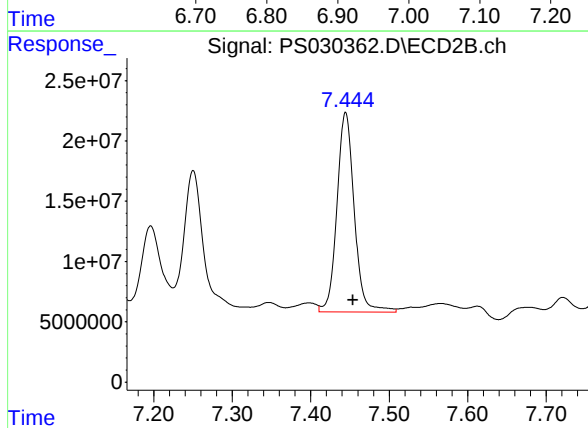
#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 954674616
Conc: 335.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-15

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.010 min
Response: 253437148
Conc: 316.72 ng/ml m

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	84.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030363.D	1	05/21/25 08:30	05/22/25 22:29	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.3	ug/Kg
120-36-5	DICHLORPROP	15.1	U	15.1	79.3	ug/Kg
94-75-7	2,4-D	10.7	U	10.7	79.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.7	U	10.7	79.3	ug/Kg
93-76-5	2,4,5-T	10.3	U	10.3	79.3	ug/Kg
94-82-6	2,4-DB	28.6	U	28.6	79.3	ug/Kg
88-85-7	DINOSEB	12.8	U	12.8	79.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	345		10 - 141	69%	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\PS052225\
 Data File : PS030363.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 22:29
 Operator : AR\AJ
 Sample : Q2074-04
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-20

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
 Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 02:01:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.928	7.444	982.2E6	244.0E6	344.884	304.894m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030363.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:29
Operator : AR\AJ
Sample : Q2074-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

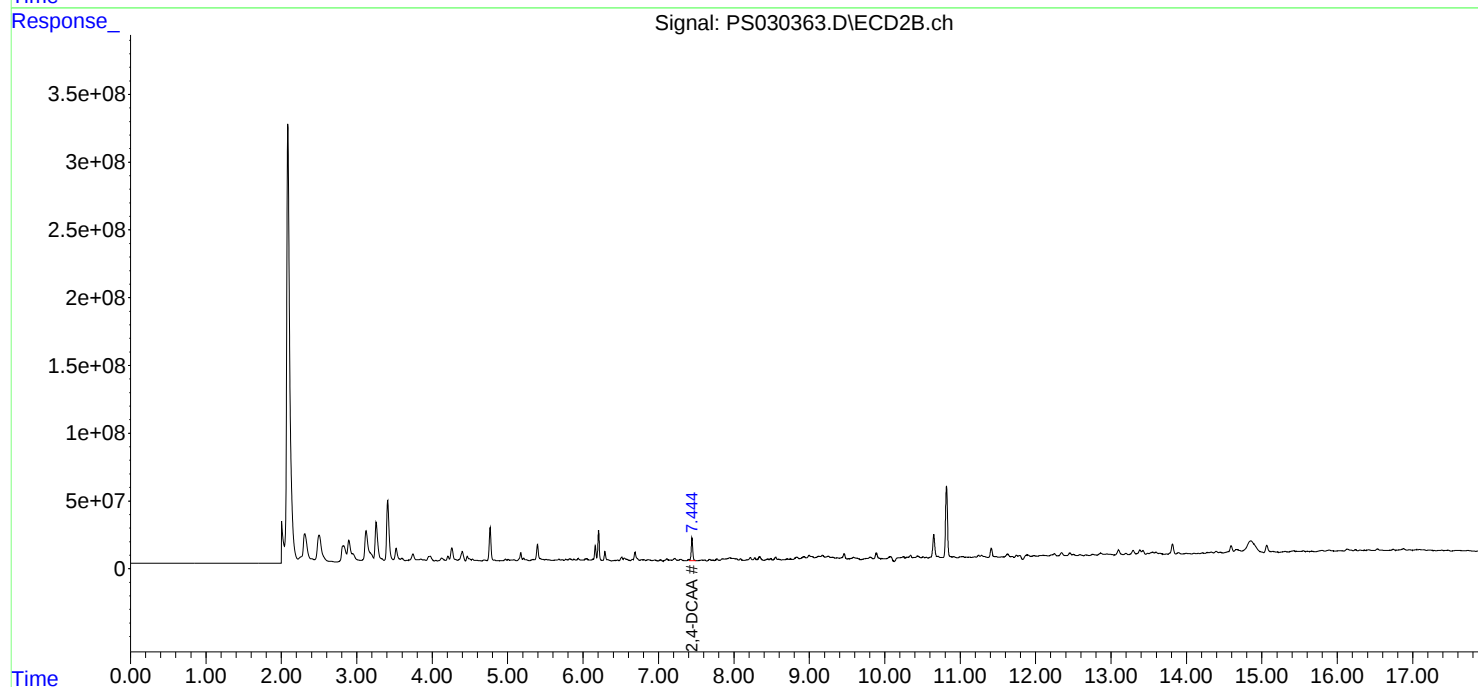
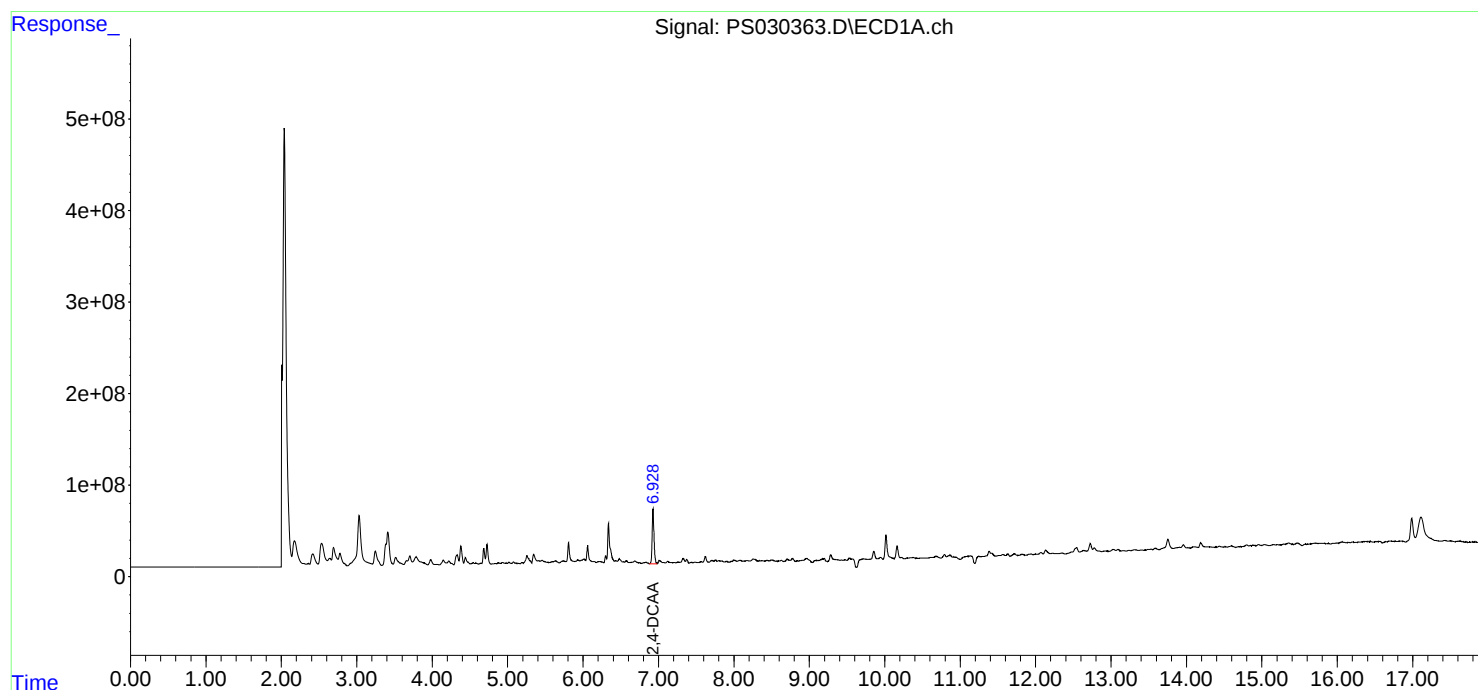
Instrument :
ECD_S
ClientSampleId :
TP-20

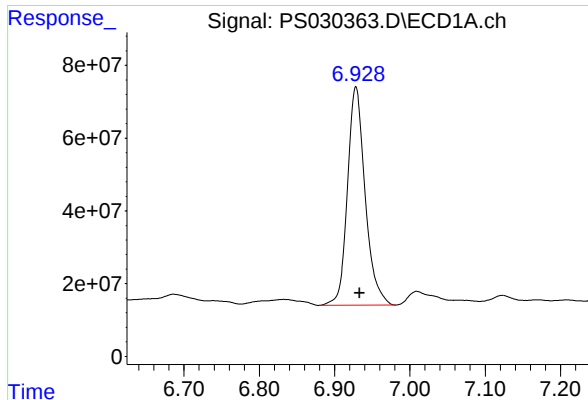
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/23/2025
Supervised By : mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:01:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





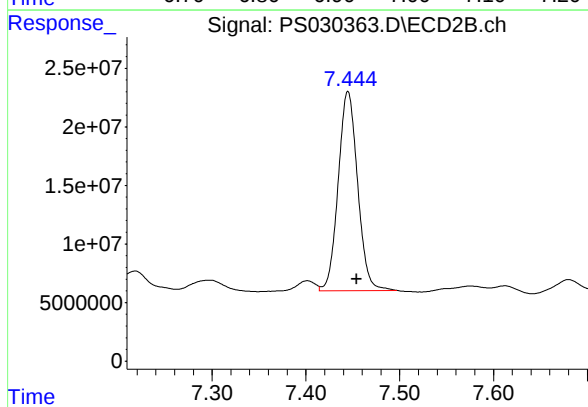
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 982162950
Conc: 344.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-20

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.009 min
Response: 243977544
Conc: 304.89 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	81.9
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030364.D	1	05/21/25 08:30	05/22/25 22:53	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.6	ug/Kg
120-36-5	DICHLORPROP	15.6	U	15.6	81.6	ug/Kg
94-75-7	2,4-D	11.0	U	11.0	81.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.6	ug/Kg
93-76-5	2,4,5-T	10.6	U	10.6	81.6	ug/Kg
94-82-6	2,4-DB	29.5	U	29.5	81.6	ug/Kg
88-85-7	DINOSEB	13.2	U	13.2	81.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	374		10 - 141	75%	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\PS052225\
Data File : PS030364.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:53
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.928	7.446	1064.6E6	274.4E6	373.827	342.882

Target Compounds

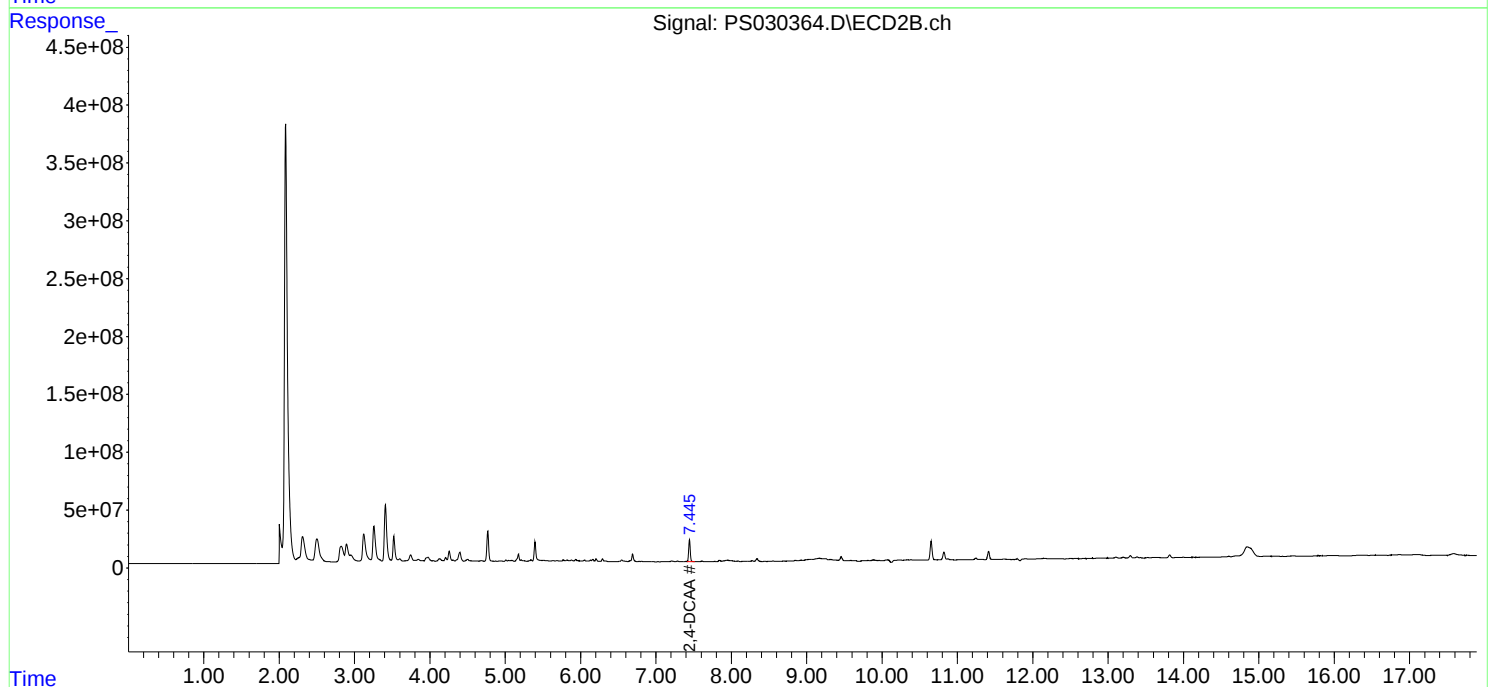
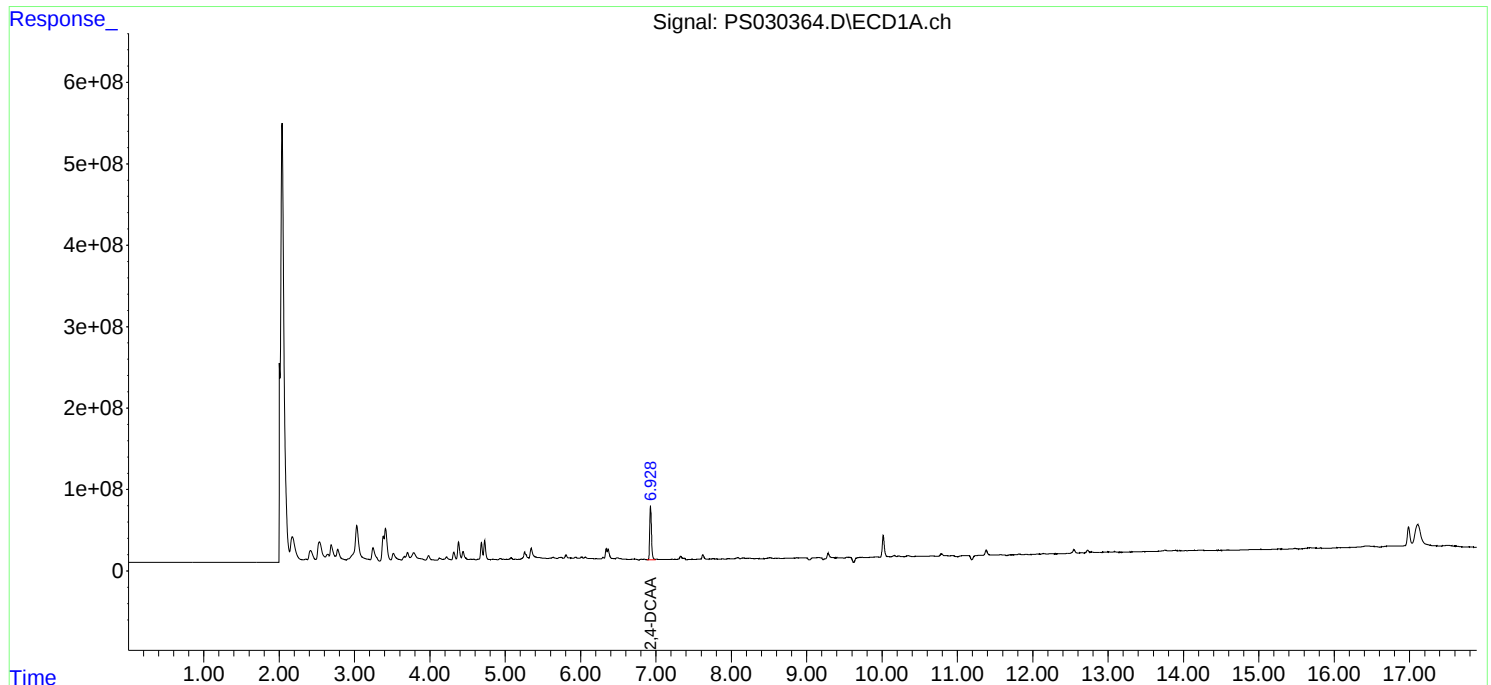
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

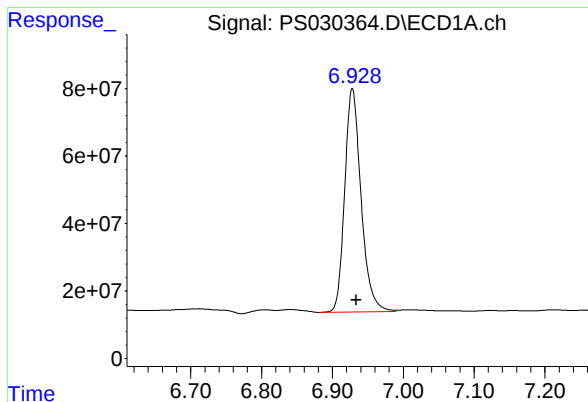
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030364.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:53
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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.: 6.928 min

Delta R.T.: -0.005 min

Response: 1064588108

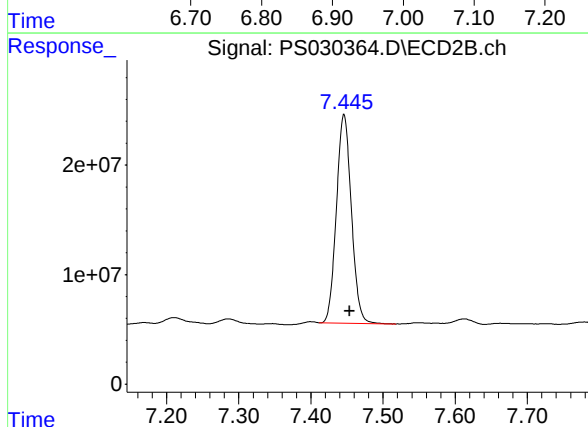
Conc: 373.83 ng/ml

Instrument :

ECD_S

ClientSampleId :

TP-38



#4 2,4-DCAA

R.T.: 7.446 min

Delta R.T.: -0.008 min

Response: 274375156

Conc: 342.88 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	85.9
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030365.D	1	05/21/25 08:30	05/22/25 23:17	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.9	ug/Kg
120-36-5	DICHLORPROP	14.9	U	14.9	77.9	ug/Kg
94-75-7	2,4-D	10.5	U	10.5	77.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.9	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	77.9	ug/Kg
94-82-6	2,4-DB	28.1	U	28.1	77.9	ug/Kg
88-85-7	DINOSEB	12.6	U	12.6	77.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	352		10 - 141	70%	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\PS052225\
Data File : PS030365.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:17
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.928	7.446	1001.2E6	248.4E6	351.559	310.370
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Target Compounds

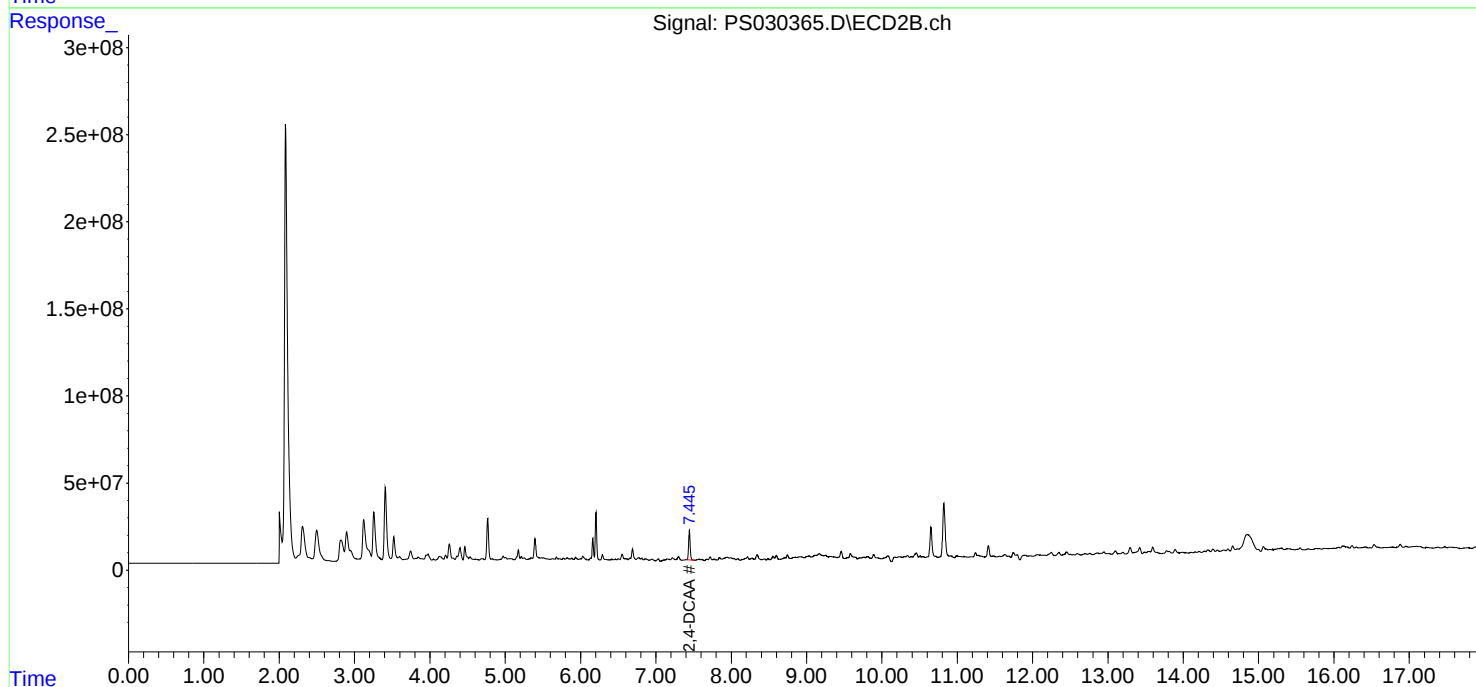
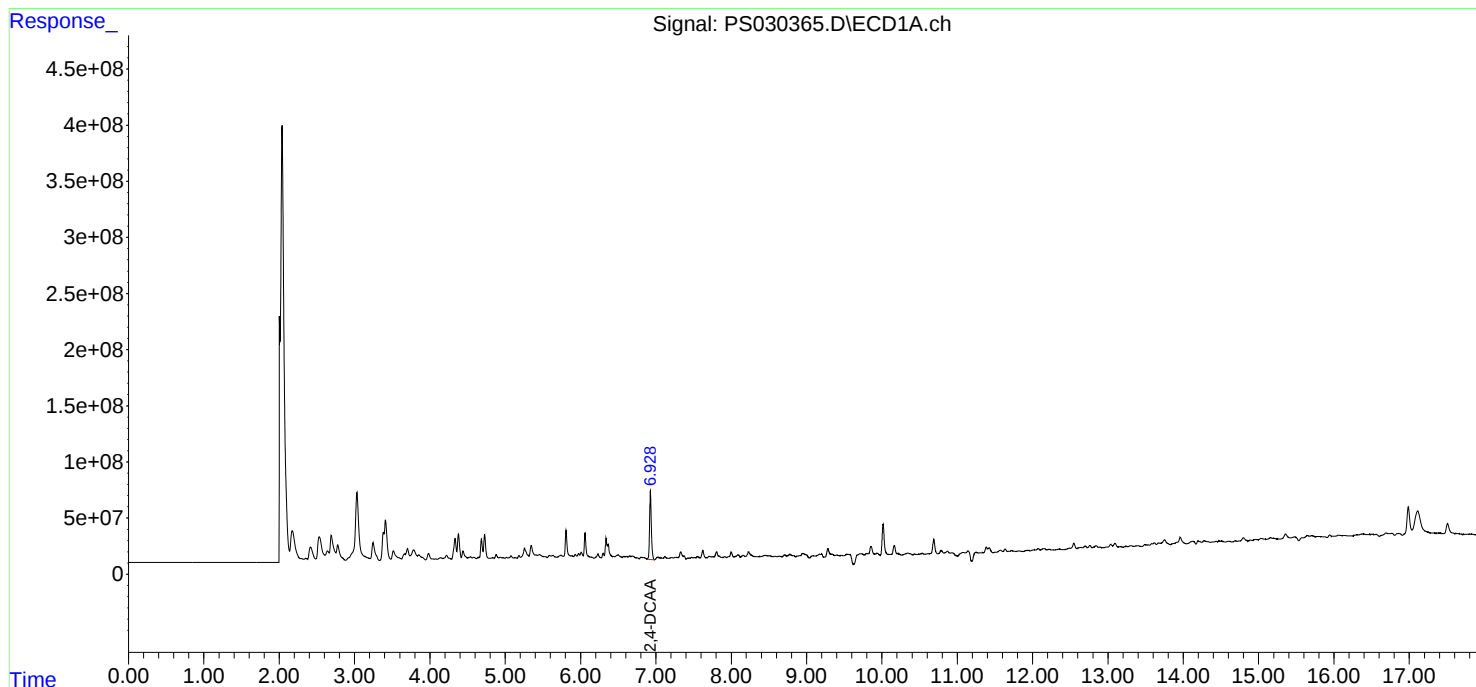
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

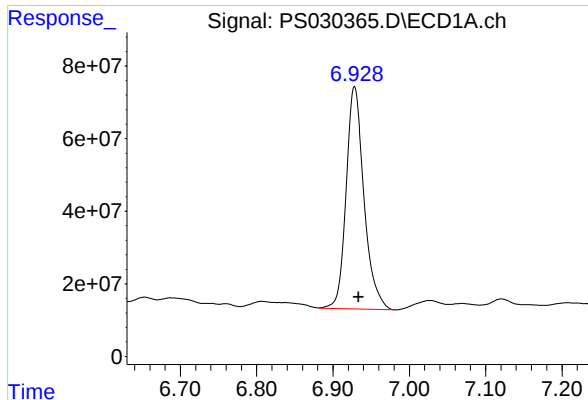
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030365.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:17
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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.: 6.928 min

Delta R.T.: -0.005 min

Response: 1001171620

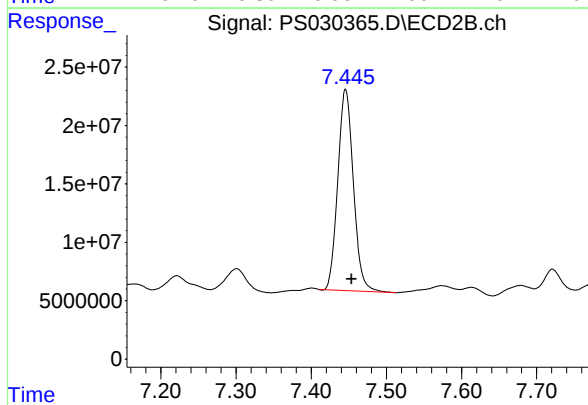
Conc: 351.56 ng/ml

Instrument :

ECD_S

ClientSampleId :

TP-19



#4 2,4-DCAA

R.T.: 7.446 min

Delta R.T.: -0.008 min

Response: 248359290

Conc: 310.37 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.2
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030366.D	1	05/21/25 08:30	05/22/25 23:41	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.1	ug/Kg
120-36-5	DICHLORPROP	14.3	U	14.3	75.1	ug/Kg
94-75-7	2,4-D	10.1	U	10.1	75.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.1	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	75.1	ug/Kg
94-82-6	2,4-DB	27.1	U	27.1	75.1	ug/Kg
88-85-7	DINOSEB	12.1	U	12.1	75.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	280		10 - 141	56%	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\PS052225\
 Data File : PS030366.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 23:41
 Operator : AR\AJ
 Sample : Q2074-07
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-40

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
 Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 02:02:24 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.928	7.445	796.5E6	191.3E6	279.672	239.040m
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Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030366.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:41
Operator : AR\AJ
Sample : Q2074-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

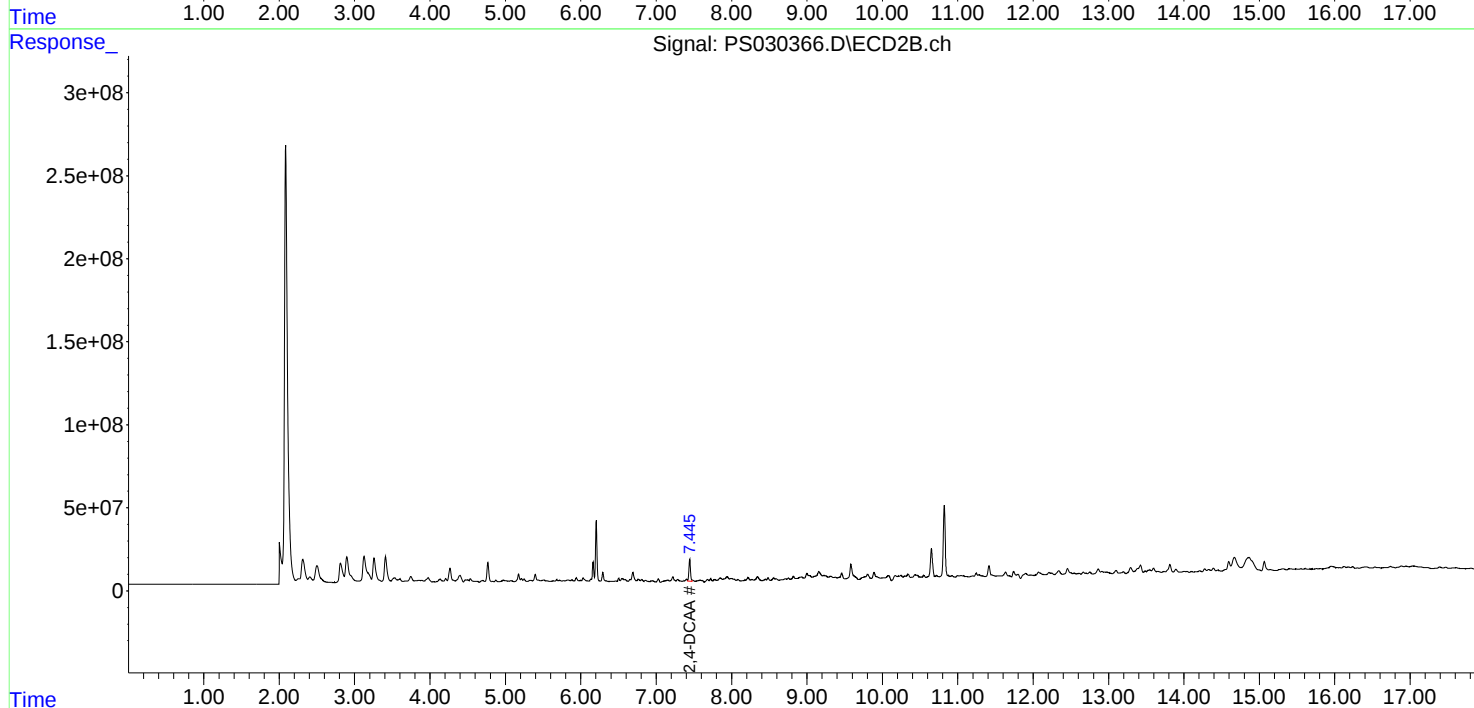
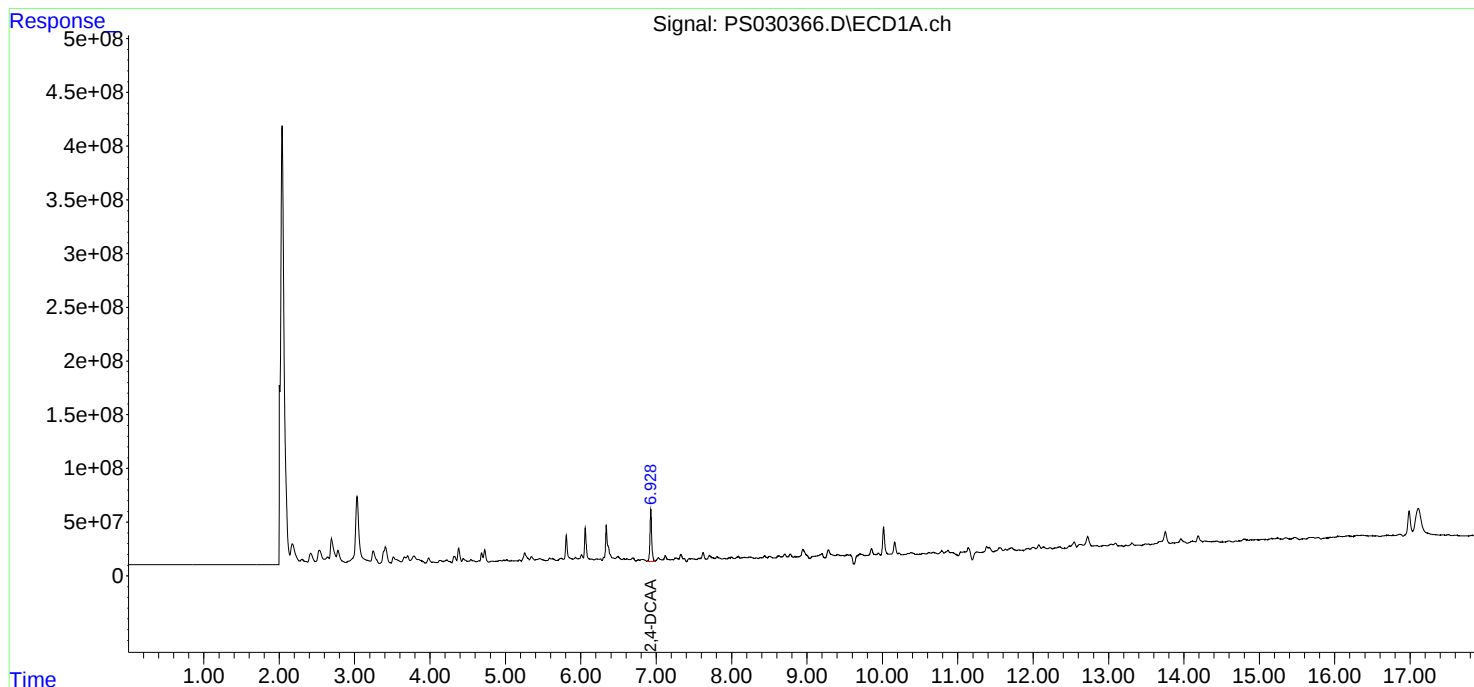
Instrument :
ECD_S
ClientSampleId :
TP-40

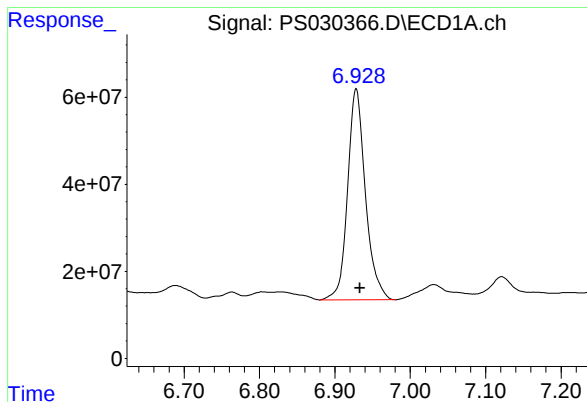
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/23/2025
Supervised By : mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





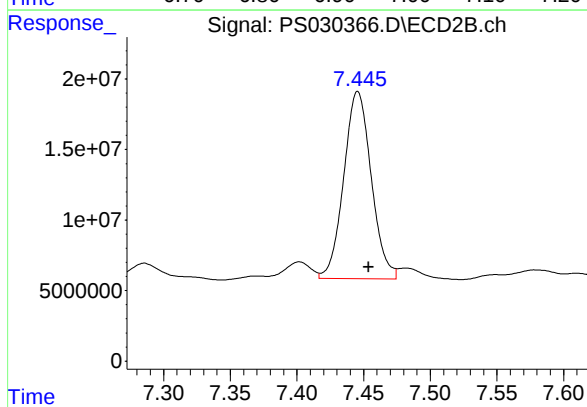
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 796453009
Conc: 279.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-40

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 191280543
Conc: 239.04 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030367.D	1	05/21/25 08:30	05/23/25 00:05	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.90	U	9.90	85.7	ug/Kg
120-36-5	DICHLORPROP	16.4	U	16.4	85.7	ug/Kg
94-75-7	2,4-D	11.6	U	11.6	85.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.6	U	11.6	85.7	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	85.7	ug/Kg
94-82-6	2,4-DB	31.0	U	31.0	85.7	ug/Kg
88-85-7	DINOSEB	13.8	U	13.8	85.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	324		10 - 141	65%	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\PS052225\
 Data File : PS030367.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 00:05
 Operator : AR\AJ
 Sample : Q2074-08
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-18

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
 Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 02:02:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.928	7.445	924.0E6	237.7E6	324.445	296.994m
Target Compounds						

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030367.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 00:05
Operator : AR\AJ
Sample : Q2074-08
Misc :
ALS Vial : 29 Sample Multiplier: 1

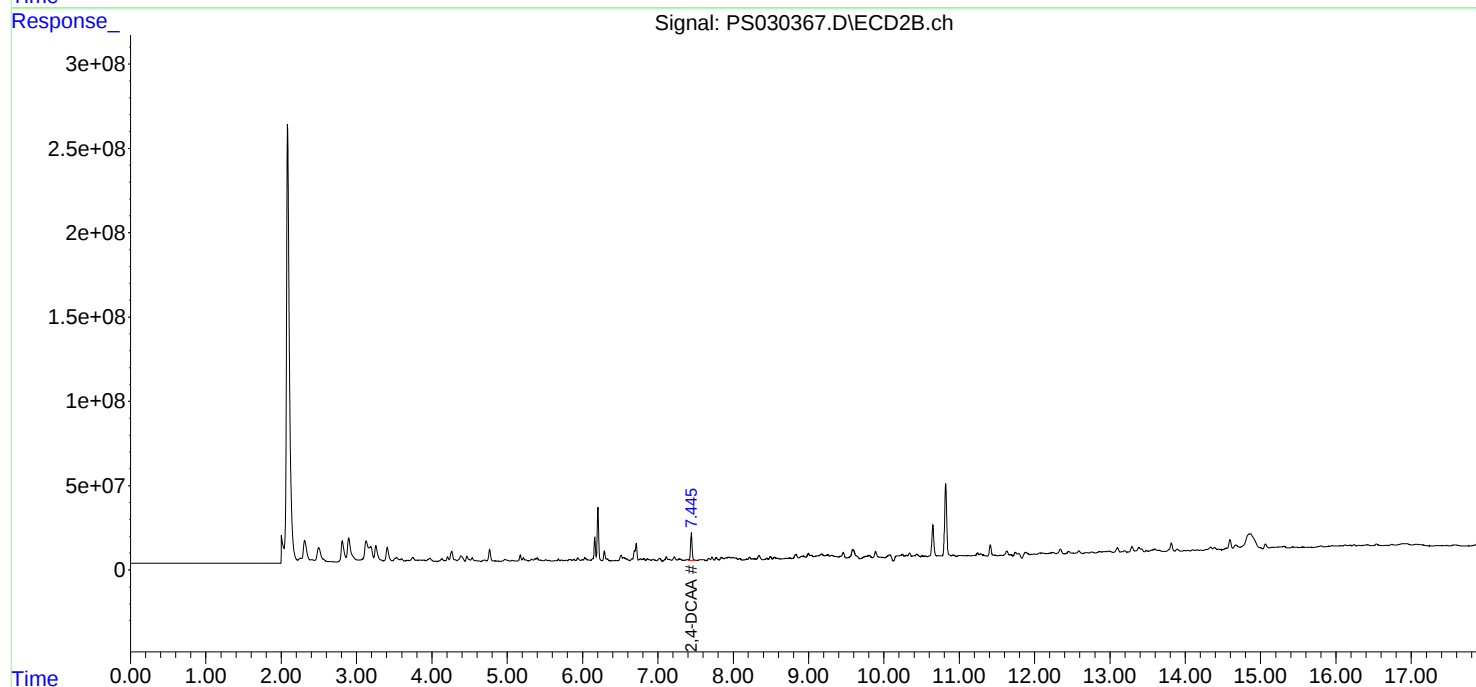
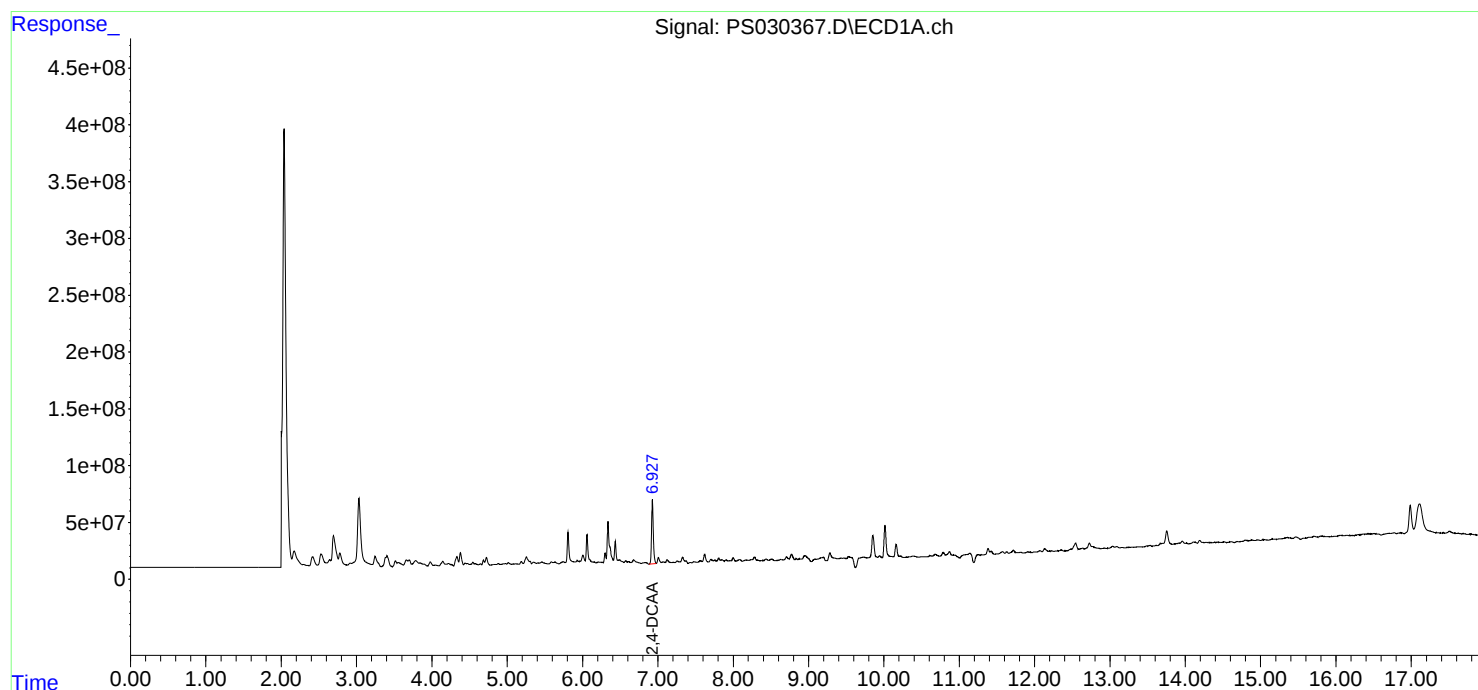
Instrument :
ECD_S
ClientSampleId :
TP-18

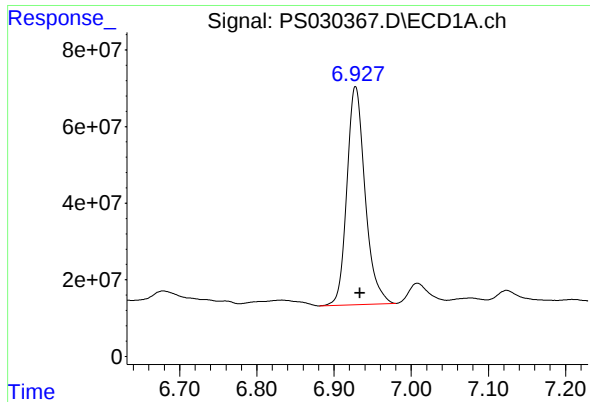
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/23/2025
Supervised By : mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





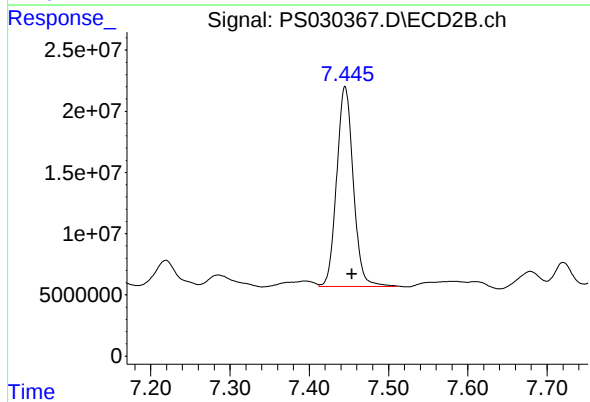
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.006 min
Response: 923957306
Conc: 324.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-18

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 237655350
Conc: 296.99 ng/ml m



CALIBRATION SUMMARY

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

[illegible]

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

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074
Instrument ID: ECD_S **Calibration Date(s):** 05/12/2025 05/12/2025
Calibration Times: 12:30 14:06
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS030125.D</u>		CF 500 = <u>PS030126.D</u>			
CF 750 = <u>PS030127.D</u>		CF 1000 = <u>PS030128.D</u>		CF 1500 = <u>PS030129.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	19806400000	16697600000	15922400000	15360700000	14788800000	16515200000	12
2,4,5-TP(Silvex)	19321200000	16303400000	15619800000	15128700000	14606800000	16196000000	11
2,4-D	4048870000	3291910000	3113030000	3014870000	2926010000	3278940000	14
2,4-DB	2822620000	2567110000	2564340000	2542470000	2552320000	2609770000	5
2,4-DCAA	3540840000	2868830000	2702520000	2609290000	2517560000	2847810000	14
DICAMBA	13660900000	11601800000	11140600000	10847100000	10536400000	11557400000	11
DICHLORPROP	3626670000	2931320000	2773470000	2680380000	2594880000	2921340000	14
Dinoseb	13788600000	11497400000	10989000000	10638600000	10268200000	11436400000	12

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074
Instrument ID: ECD_S **Calibration Date(s):** 05/12/2025 05/12/2025
Calibration Times: 12:30 14:06

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

LAB FILE ID:		CF 200 = <u>PS030125.D</u>		CF 500 = <u>PS030126.D</u>			
CF 750 = <u>PS030127.D</u>		CF 1000 = <u>PS030128.D</u>		CF 1500 = <u>PS030129.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10274700000	9232570000	9042300000	8854580000	8613880000	9203610000	7
2,4,5-TP(Silvex)	10913400000	9868000000	9697110000	9517670000	9255920000	9850430000	6
2,4-D	1480680000	1290430000	1248060000	1225910000	1207420000	1290500000	9
2,4-DB	1268930000	952436000	948485000	881256000	910753000	992372000	16
2,4-DCAA	922885000	799420000	773490000	758361000	746863000	800204000	9
DICAMBA	5034950000	4673810000	4651340000	4635790000	4643990000	4727980000	4
DICHLORPROP	1388930000	1177530000	1140920000	1112240000	1087540000	1181430000	10
Dinoseb	7723880000	6842530000	6670660000	6540750000	6382090000	6831980000	8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:30
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:50:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 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	6.934	7.454	708.2E6	184.6E6	233.150	221.866
Target Compounds							
1) T	Dalapon	2.446	2.520	1161.8E6	445.3E6	230.933	208.837
2) T	3,5-DICHL...	6.138	6.453	948.7E6	240.0E6	214.407	195.017
3) T	4-Nitroph...	6.725	6.989	439.9E6	195.9E6	203.363	173.219
5) T	DICAMBA	7.109	7.639	2568.3E6	946.6E6	211.650	199.141
6) T	MCP	7.286	7.744	110.4E6	32616416	14.656	18.070
7) T	MCPA	7.428	7.974	200.2E6	49441444	19.272	18.610
8) T	DICHLORPROP	7.789	8.332	681.8E6	261.1E6	219.198	211.296
9) T	2,4-D	8.011	8.644	761.2E6	278.4E6	218.443	207.780
10) T	Pentachlo...	8.286	9.144	9450.6E6	5262.3E6	215.768	204.481
11) T	2,4,5-TP ...	8.850	9.522	3671.0E6	2073.6E6	214.913	204.100
12) T	2,4,5-T	9.133	9.927	3763.2E6	1952.2E6	215.342	205.137
13) T	2,4-DB	9.691	10.485	536.3E6	241.1E6	202.273	228.178
14) T	DINOSEB	10.850	10.858	2592.3E6	1452.1E6	214.384	205.126
15) T	Picloram	10.672	11.892	4602.8E6	2955.0E6	207.830	206.560m
16) T	DCPA	11.152	11.892	4589.7E6	2821.7E6	217.427	194.524m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:30
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

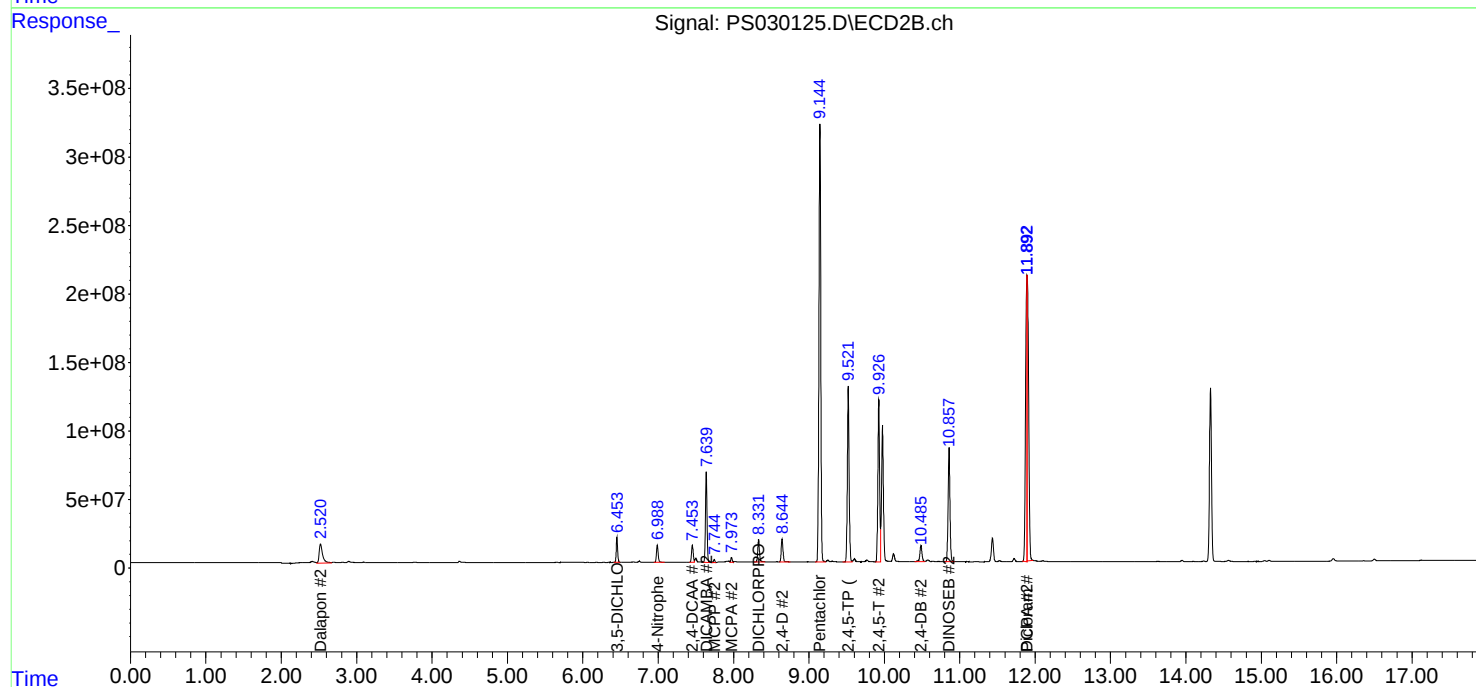
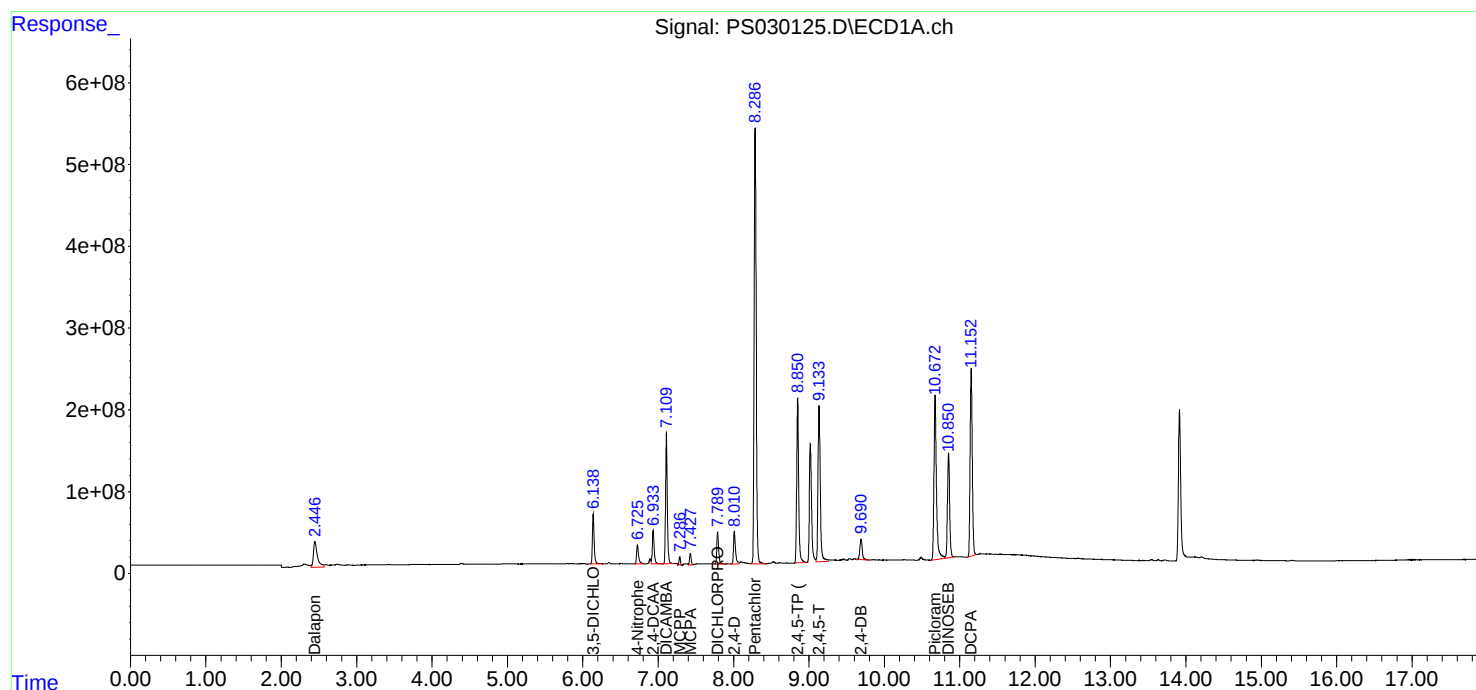
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:50:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 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\PS051225\
 Data File : PS030126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:54
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:47:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 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	6.933	7.454	1434.4E6	399.7E6	514.926	508.243
Target Compounds							
1) T	Dalapon	2.447	2.520	2243.7E6	920.5E6	471.266	466.069
2) T	3,5-DICHL...	6.138	6.453	1954.7E6	604.8E6	478.289	503.770
3) T	4-Nitroph...	6.724	6.988	957.1E6	626.7E6	470.076	541.042
5) T	DICAMBA	7.109	7.639	5452.8E6	2196.7E6	479.532	471.133
6) T	MCPD	7.287	7.746	351.0E6	83878837	46.529	45.584
7) T	MCPA	7.429	7.975	474.0E6	124.4E6	46.459	46.843
8) T	DICHLORPROP	7.789	8.332	1377.7E6	553.4E6	483.005	477.421
9) T	2,4-D	8.009	8.645	1547.2E6	606.5E6	483.126	477.844
10) T	Pentachlo...	8.286	9.145	19907.6E6	11940.1E6	487.580	482.342
11) T	2,4,5-TP ...	8.851	9.523	7744.1E6	4687.3E6	485.171	479.149
12) T	2,4,5-T	9.132	9.927	7931.4E6	4385.5E6	486.289	479.945
13) T	2,4-DB	9.690	10.485	1219.4E6	452.4E6	475.256	475.987
14) T	DINOSEB	10.851	10.859	5403.8E6	3216.0E6	480.627	475.978
15) T	Picloram	10.672	11.894	10147.5E6	6755.0E6	480.746	488.999m
16) T	DCPA	11.152	11.893	9696.2E6	6912.8E6	491.912	476.219m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:54
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

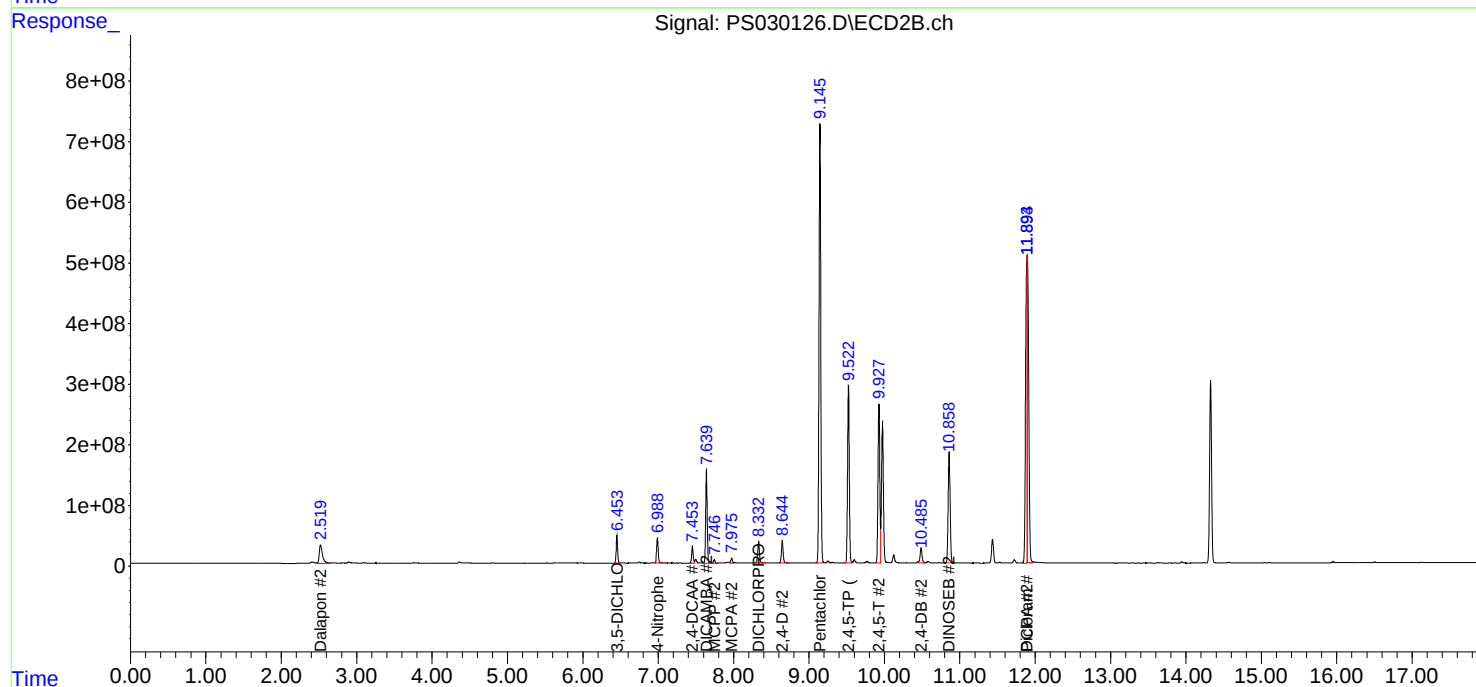
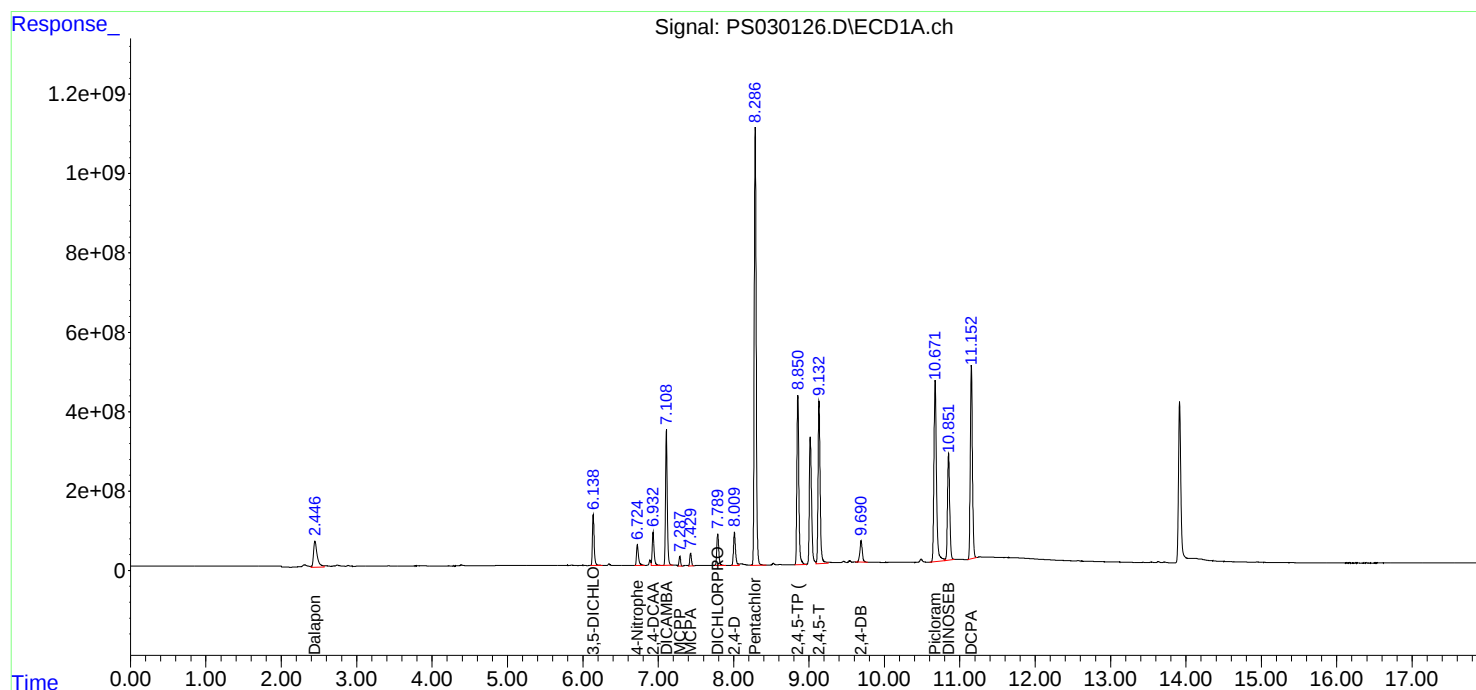
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:47:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 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\PS051225\
 Data File : PS030127.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 13:18
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:43:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 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	6.934	7.454	2026.9E6	580.1E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.446	2.520	3133.2E6	1315.1E6	682.500	682.500
2) T	3,5-DICHL...	6.138	6.453	2769.2E6	767.6E6	697.500	697.500
3) T	4-Nitroph...	6.724	6.988	1343.5E6	641.1E6	682.500	682.500
5) T	DICAMBA	7.110	7.639	7854.1E6	3279.2E6	705.000	705.000
6) T	MCPD	7.289	7.747	537.2E6	133.6E6	70.500	70.500
7) T	MCPA	7.431	7.977	712.2E6	183.9E6	69.750	69.750
8) T	DICHLORPROP	7.789	8.332	1955.3E6	804.4E6	705.000	705.000
9) T	2,4-D	8.010	8.644	2194.7E6	879.9E6	705.000	705.000
10) T	Pentachlo...	8.287	9.145	28320.5E6	17364.8E6	712.500	712.500
11) T	2,4,5-TP ...	8.850	9.523	11129.1E6	6909.2E6	712.500	712.500
12) T	2,4,5-T	9.133	9.926	11344.7E6	6442.6E6	712.500	712.500
13) T	2,4-DB	9.689	10.485	1827.1E6	675.8E6	712.500	712.500
14) T	DINOSEB	10.851	10.858	7747.2E6	4702.8E6	705.000	705.000
15) T	Picloram	10.670	11.894	14857.3E6	9721.1E6	712.500	727.171m
16) T	DCPA	11.153	11.893	13839.9E6	10000.3E6	720.000	727.183m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 13:18
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations

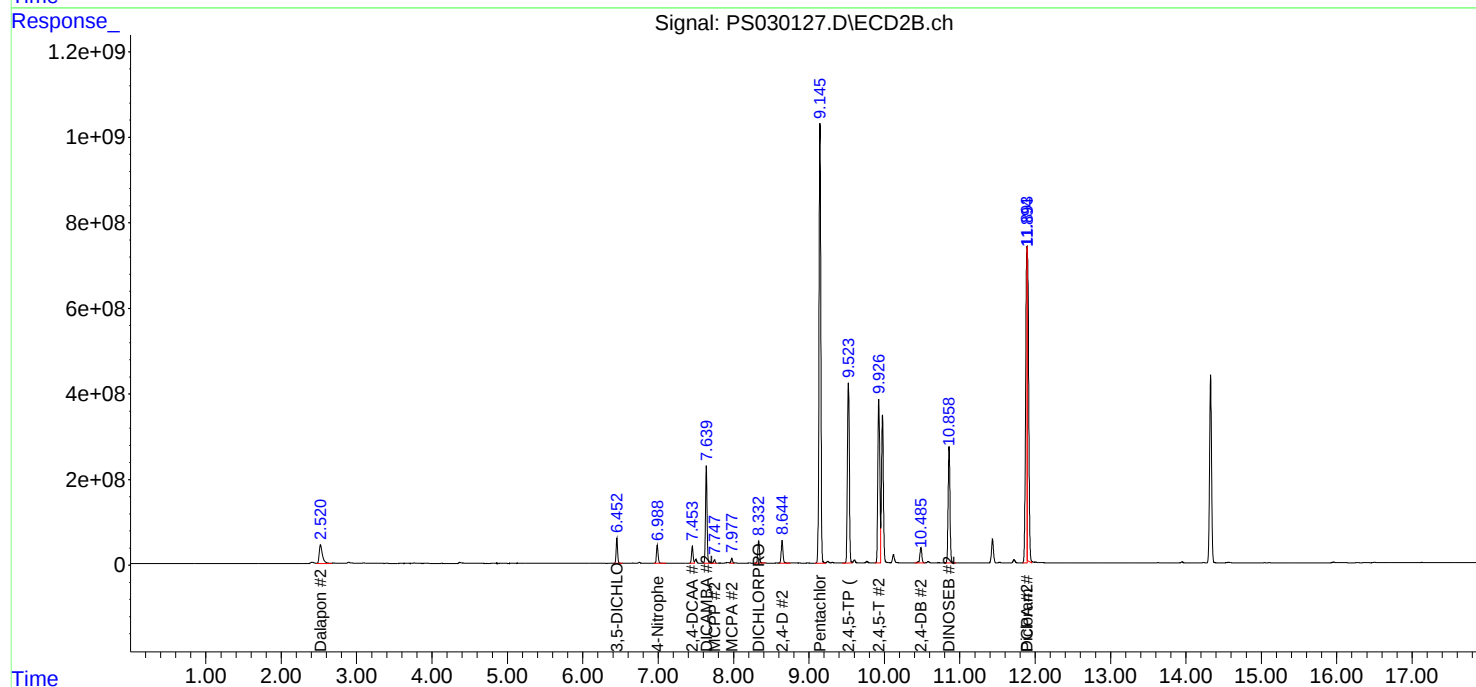
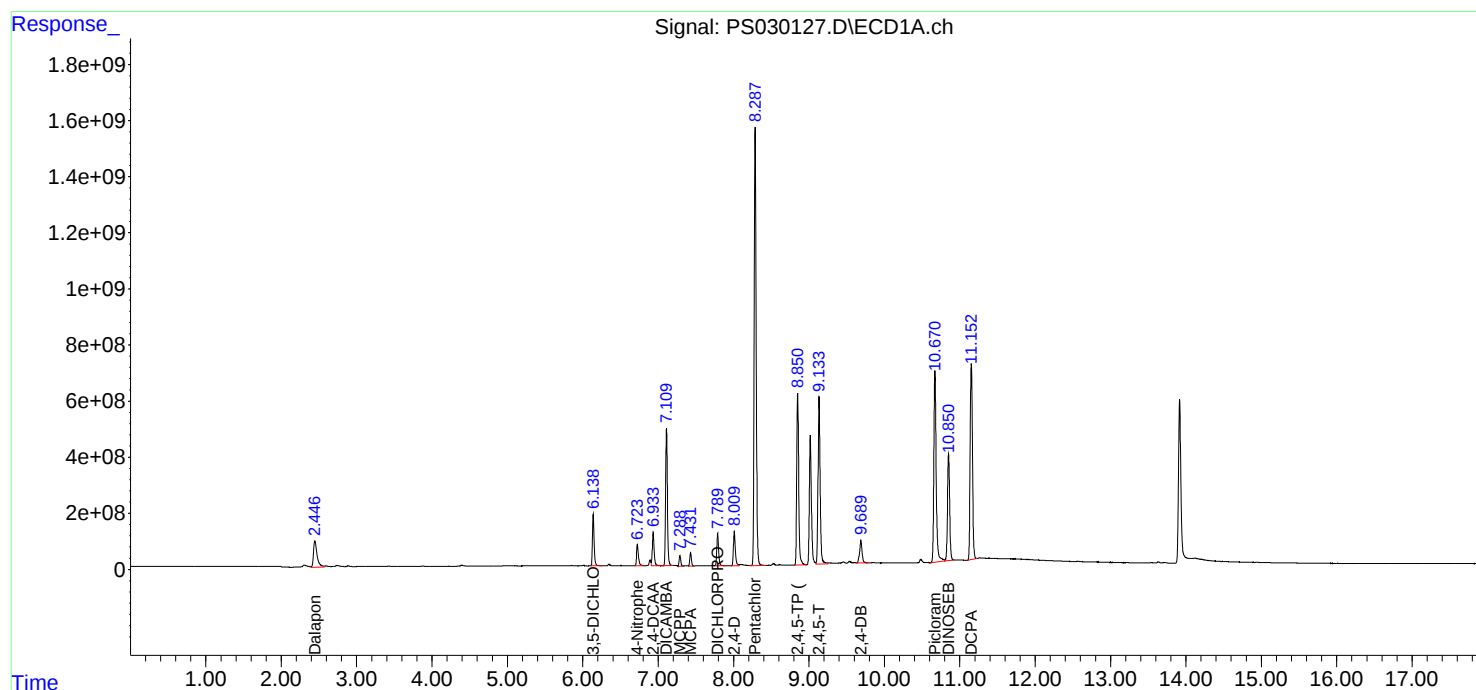
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:43:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 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\PS051225\
 Data File : PS030128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 13:42
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1000

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:58:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:58:36 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	6.933	7.454	2609.3E6	758.4E6	890.431	932.175
Target Compounds							
1) T	Dalapon	2.446	2.520	4022.0E6	1730.9E6	791.534	834.294
2) T	3,5-DICHL...	6.139	6.453	3590.0E6	1001.6E6	838.061	840.224
3) T	4-Nitroph...	6.724	6.988	1760.4E6	837.7E6	835.965	776.796
5) T	DICAMBA	7.109	7.640	10196.3E6	4357.6E6	863.169	917.597
6) T	MCPD	7.290	7.749	729.6E6	177.4E6	101.601	97.188
7) T	MCPA	7.433	7.979	953.9E6	245.9E6	92.106	92.679
8) T	DICHLORPROP	7.789	8.332	2519.6E6	1045.5E6	839.025	867.706
9) T	2,4-D	8.009	8.645	2834.0E6	1152.4E6	841.649	878.805
10) T	Pentachlo...	8.287	9.145	36236.2E6	22455.0E6	854.920	890.701
11) T	2,4,5-TP ...	8.850	9.523	14372.3E6	9041.8E6	866.151	904.264
12) T	2,4,5-T	9.132	9.927	14592.7E6	8411.9E6	861.090	899.563
13) T	2,4-DB	9.689	10.485	2415.4E6	837.2E6	920.436	826.632
14) T	DINOSEB	10.851	10.859	10000.3E6	6148.3E6	852.655	885.355
15) T	Picloram	10.670	11.894	19519.6E6	13097.0E6	897.581	914.915m
16) T	DCPA	11.152	11.891	17786.8E6	11870.5E6	869.183	851.929m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 13:42
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

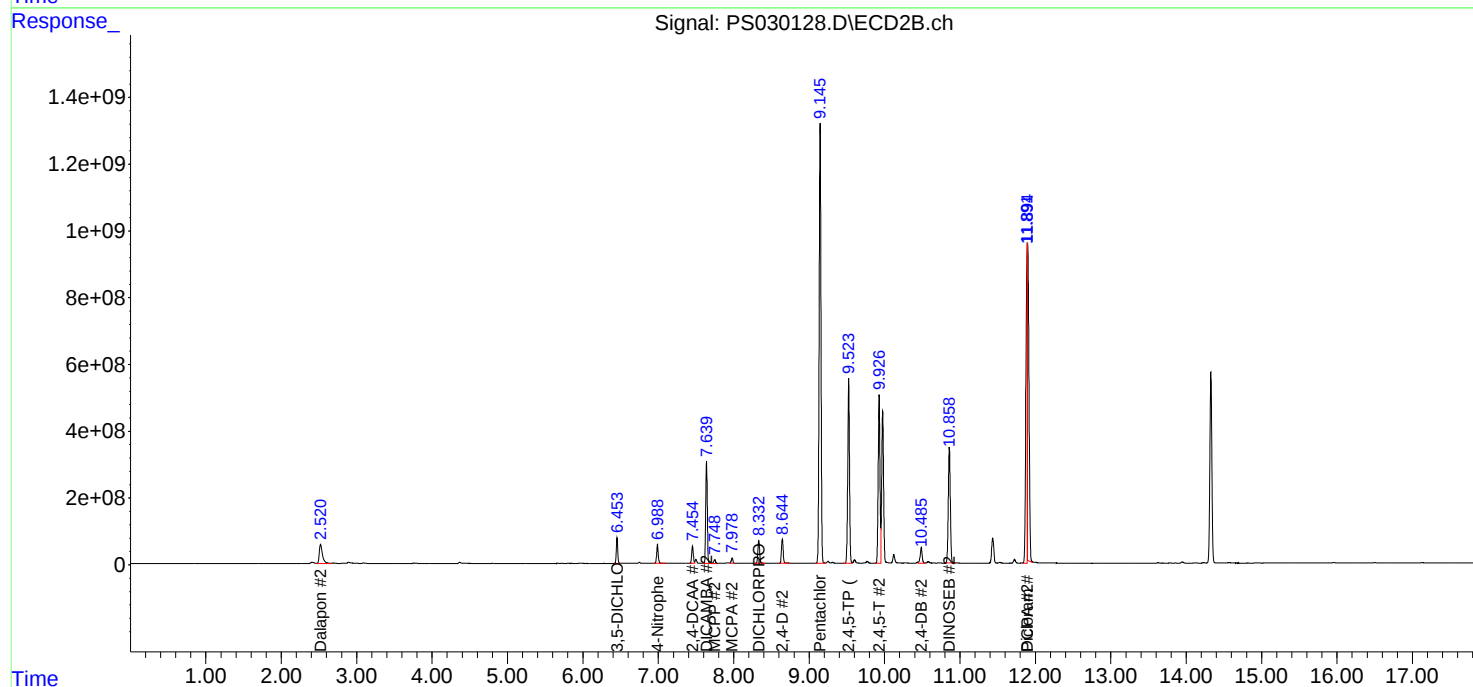
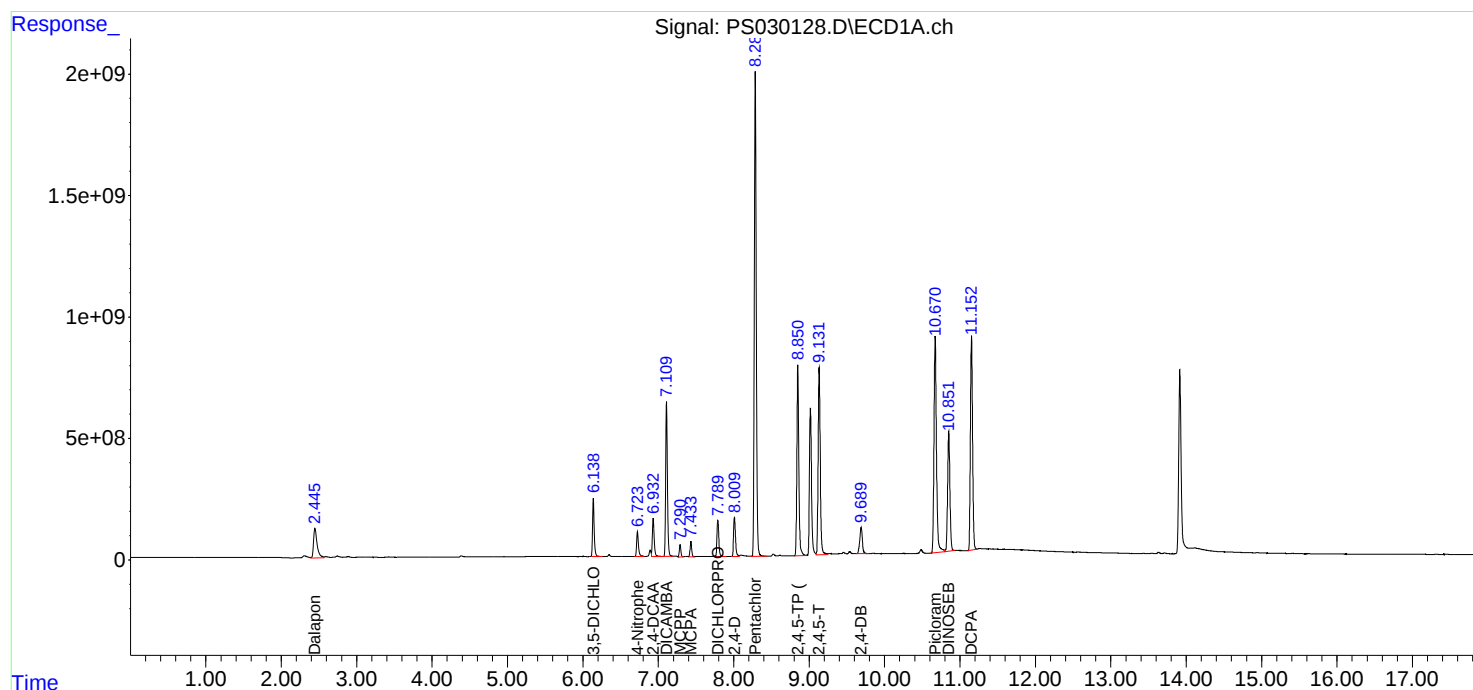
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/13/2025
Supervised By : mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:58:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:58:36 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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 14:06
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/13/2025
 Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 14:28:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:27:56 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	6.934	7.454	3776.3E6	1120.3E6	1326.050	1400.011
Target Compounds							
1) T	Dalapon	2.446	2.520	5803.8E6	2534.2E6	1180.753	1247.720
2) T	3,5-DICHL...	6.139	6.453	5186.8E6	1479.7E6	1243.675	1269.249
3) T	4-Nitroph...	6.724	6.988	2599.8E6	1237.2E6	1258.609	1184.993
5) T	DICAMBA	7.110	7.640	14856.3E6	6548.0E6	1285.438	1384.953
6) T	MCPD	7.293	7.751	1084.1E6	267.4E6	148.855	145.320
7) T	MCPA	7.437	7.983	1462.0E6	359.0E6	140.839	136.111
8) T	DICHLORPROP	7.789	8.333	3658.8E6	1533.4E6	1252.430	1297.948
9) T	2,4-D	8.009	8.645	4125.7E6	1702.5E6	1258.234	1319.227
10) T	Pentachlo...	8.293	9.145	46970.5E6	32180.6E6	1159.743	1303.651
11) T	2,4,5-TP ...	8.851	9.523	20814.7E6	13189.7E6	1285.177	1338.996
12) T	2,4,5-T	9.133	9.927	21074.1E6	12274.8E6	1276.042	1333.692
13) T	2,4-DB	9.690	10.485	3637.1E6	1297.8E6	1393.631	1307.799
14) T	DINOSEB	10.852	10.859	14478.2E6	8998.7E6	1265.980	1317.150
15) T	Picloram	10.670	11.895	28424.6E6	18755.9E6	1329.063	1314.827m
16) T	DCPA	11.153	11.892	25491.3E6	17567.8E6	1280.231	1314.389m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030129.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 14:06
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

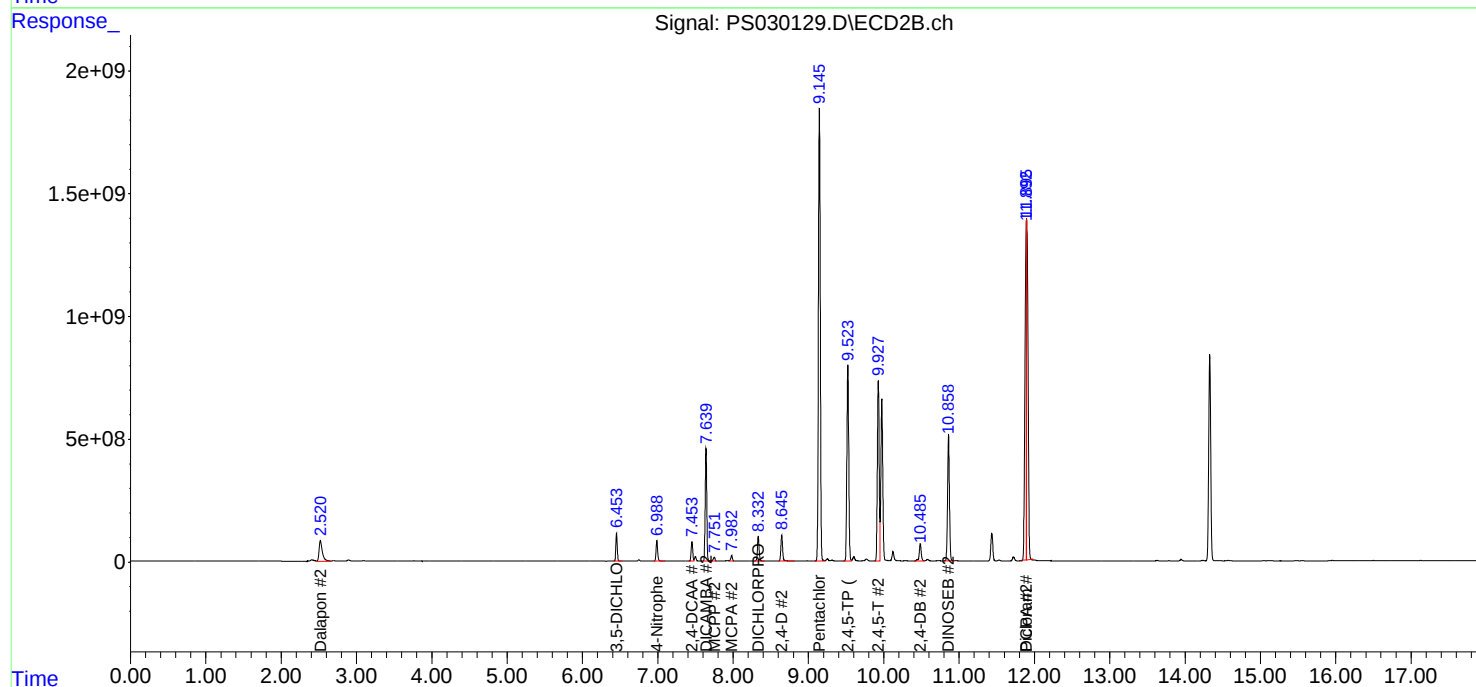
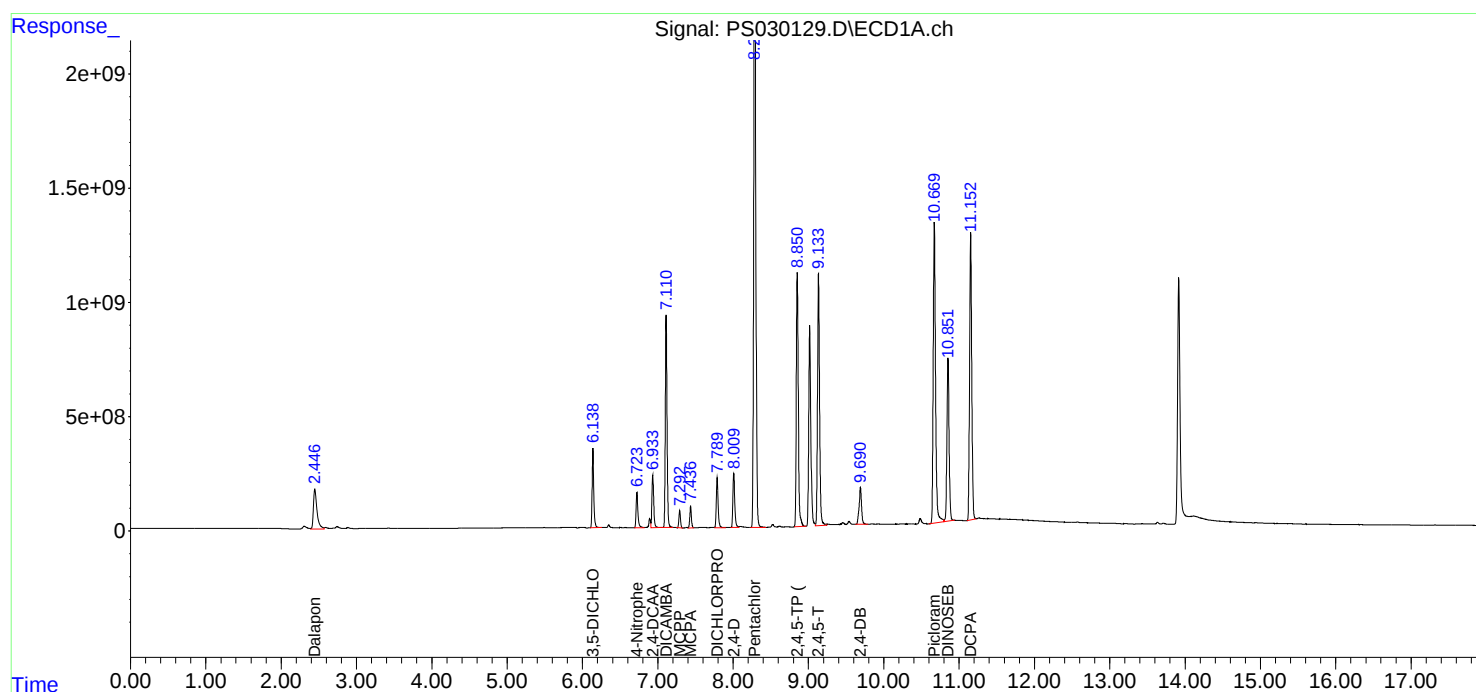
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/13/2025
Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 14:28:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:27:56 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\PS051225\
 Data File : PS030130.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 14:30
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS051225

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 15:04:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.934	7.454	2000.1E6	576.9E6	702.326	720.970
Target Compounds							
1) T	Dalapon	2.446	2.520	3076.9E6	1314.3E6	625.967	647.108
2) T	3,5-DICHL...	6.139	6.453	2750.7E6	760.8E6	659.557	652.607
3) T	4-Nitroph...	6.724	6.989	1318.9E6	628.7E6	638.507	602.172
5) T	DICAMBA	7.110	7.640	7834.8E6	3263.7E6	677.908	690.298
6) T	MCPD	7.289	7.748	532.7E6	133.5E6	73.145	72.581
7) T	MCPA	7.431	7.978	699.7E6	180.7E6	67.398	68.504
8) T	DICHLORPROP	7.790	8.333	1940.1E6	796.8E6	664.107	674.472
9) T	2,4-D	8.010	8.645	2200.0E6	878.7E6	670.942	680.913
10) T	Pentachlo...	8.287	9.145	28175.2E6	17257.0E6	695.670	699.091
11) T	2,4,5-TP ...	8.851	9.524	11116.5E6	6877.2E6	686.375	698.163
12) T	2,4,5-T	9.133	9.927	11274.6E6	6386.9E6	682.678	693.957
13) T	2,4-DB	9.691	10.486	1842.8E6	635.3E6	706.110	640.157
14) T	DINOSEB	10.851	10.859	7678.7E6	4674.1E6	671.427	684.150
15) T	Picloram	10.671	11.895	14927.7E6	9640.6E6	697.983	685.038m
16) T	DCPA	11.153	11.892	13809.2E6	9287.7E6	693.529	687.439m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030130.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 14:30
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

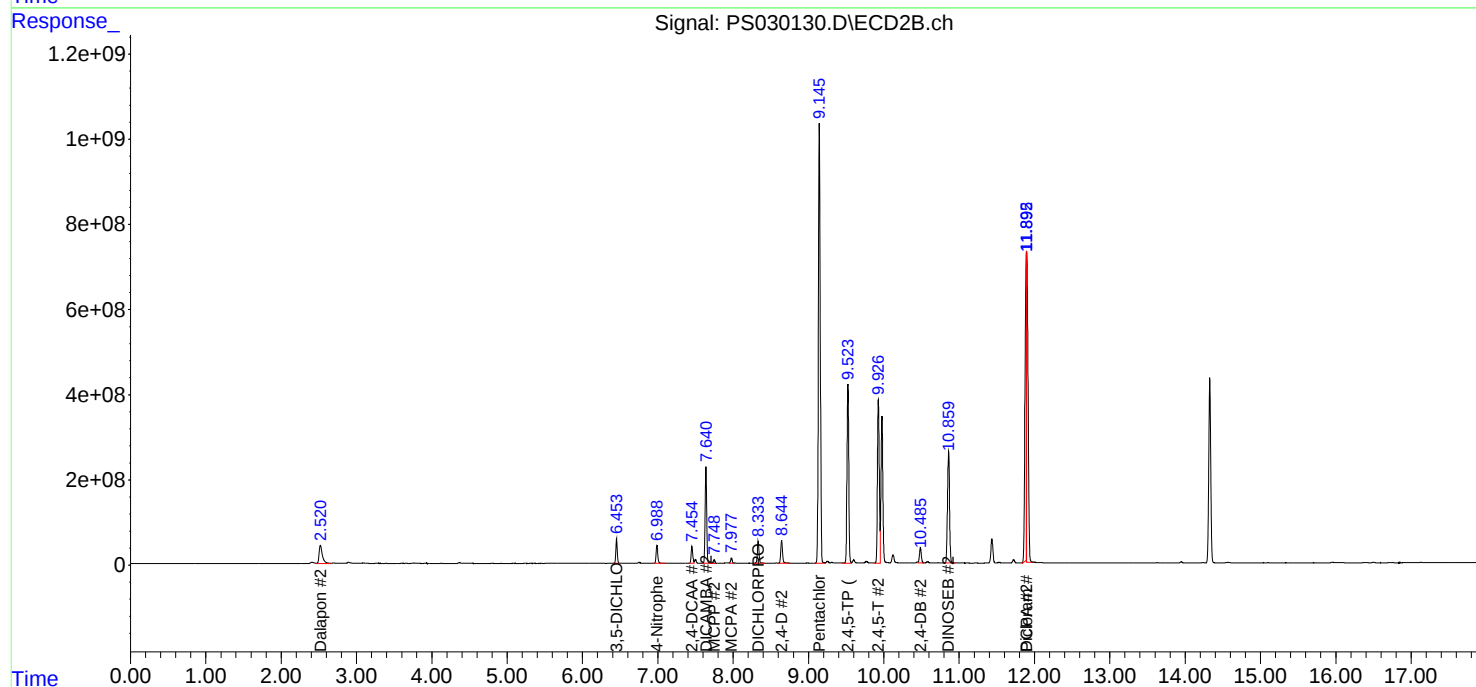
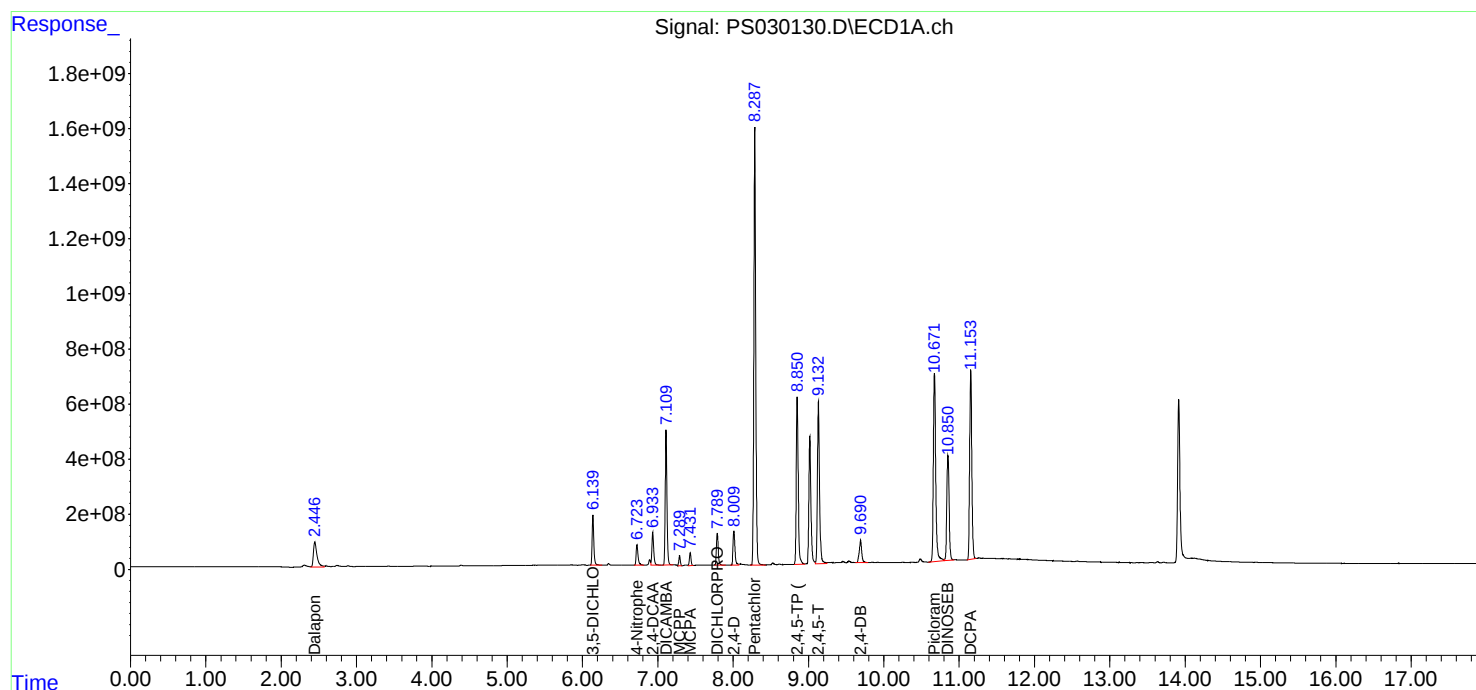
Instrument :
ECD_S
ClientSampleId :
ICVPS051225

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/13/2025
Supervised By : mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 15:04:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/21/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 15:25 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.00
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.69	9.69	9.59	9.79	0.00
Dinoseb	10.85	10.85	10.75	10.95	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/21/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 15:25 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL01 Date Analyzed: 05/21/2025

Lab Sample No.: HSTDCCC750 Data File : PS030314.D Time Analyzed: 15:25

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.129	9.033	9.233	712.280	712.500	0.0
2,4,5-TP(Silvex)	8.847	8.750	8.950	712.570	712.500	0.0
2,4-D	8.006	7.910	8.110	697.640	705.000	-1.0
2,4-DB	9.687	9.589	9.789	755.280	712.500	6.0
2,4-DCAA	6.929	6.834	7.034	726.170	750.000	-3.2
DICAMBA	7.106	7.010	7.210	703.230	705.000	-0.3
DICHLORPROP	7.786	7.689	7.889	684.540	705.000	-2.9
Dinoseb	10.848	10.751	10.951	695.150	705.000	-1.4



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CALIBRATION VERIFICATION SUMMARY
Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/12/2025 05/12/2025
Client Sample No.: CCAL01 **Date Analyzed:** 05/21/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030314.D **Time Analyzed:** 15:25

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.913	9.826	10.026	684.310	712.500	-4.0
2,4,5-TP(Silvex)	9.509	9.423	9.623	690.980	712.500	-3.0
2,4-D	8.632	8.544	8.744	672.740	705.000	-4.6
2,4-DB	10.471	10.385	10.585	624.030	712.500	-12.4
2,4-DCAA	7.442	7.354	7.554	692.280	750.000	-7.7
DICAMBA	7.627	7.539	7.739	678.490	705.000	-3.8
DICHLORPROP	8.319	8.232	8.432	652.460	705.000	-7.5
Dinoseb	10.844	10.758	10.958	672.210	705.000	-4.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030314.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 15:25
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:52:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.929	7.442	2068.0E6	554.0E6	726.165	692.278
Target Compounds							
1) T	Dalapon	2.441	2.511	3477.3E6	1331.6E6	707.438	655.614
2) T	3,5-DICHL...	6.134	6.442	2836.7E6	724.9E6	680.172	621.765
3) T	4-Nitroph...	6.719	6.977	1388.1E6	612.3E6	671.981	586.439
5) T	DICAMBA	7.106	7.627	8127.5E6	3207.9E6	703.235	678.495
6) T	MCPD	7.285	7.736	542.0E6	116.4E6	74.418	63.268
7) T	MCPA	7.429	7.965	702.6E6	161.8E6	67.681	61.356
8) T	DICHLORPROP	7.786	8.319	1999.8E6	770.8E6	684.537	652.459
9) T	2,4-D	8.006	8.632	2287.5E6	868.2E6	697.637	672.744
10) T	Pentachlo...	8.283	9.131	29037.1E6	17161.8E6	716.953	695.234
11) T	2,4,5-TP ...	8.847	9.509	11540.7E6	6806.4E6	712.566	690.979
12) T	2,4,5-T	9.129	9.913	11763.5E6	6298.1E6	712.282	684.310
13) T	2,4-DB	9.687	10.471	1971.1E6	619.3E6	755.277	624.031
14) T	DINOSEB	10.848	10.844	7950.0E6	4592.5E6	695.149	672.213
15) T	Picloram	10.668	11.882	15471.3E6	10682.4E6	723.399	759.063m
16) T	DCPA	11.150	11.880	14177.5E6	10105.7E6	712.028	747.991m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030314.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 15:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

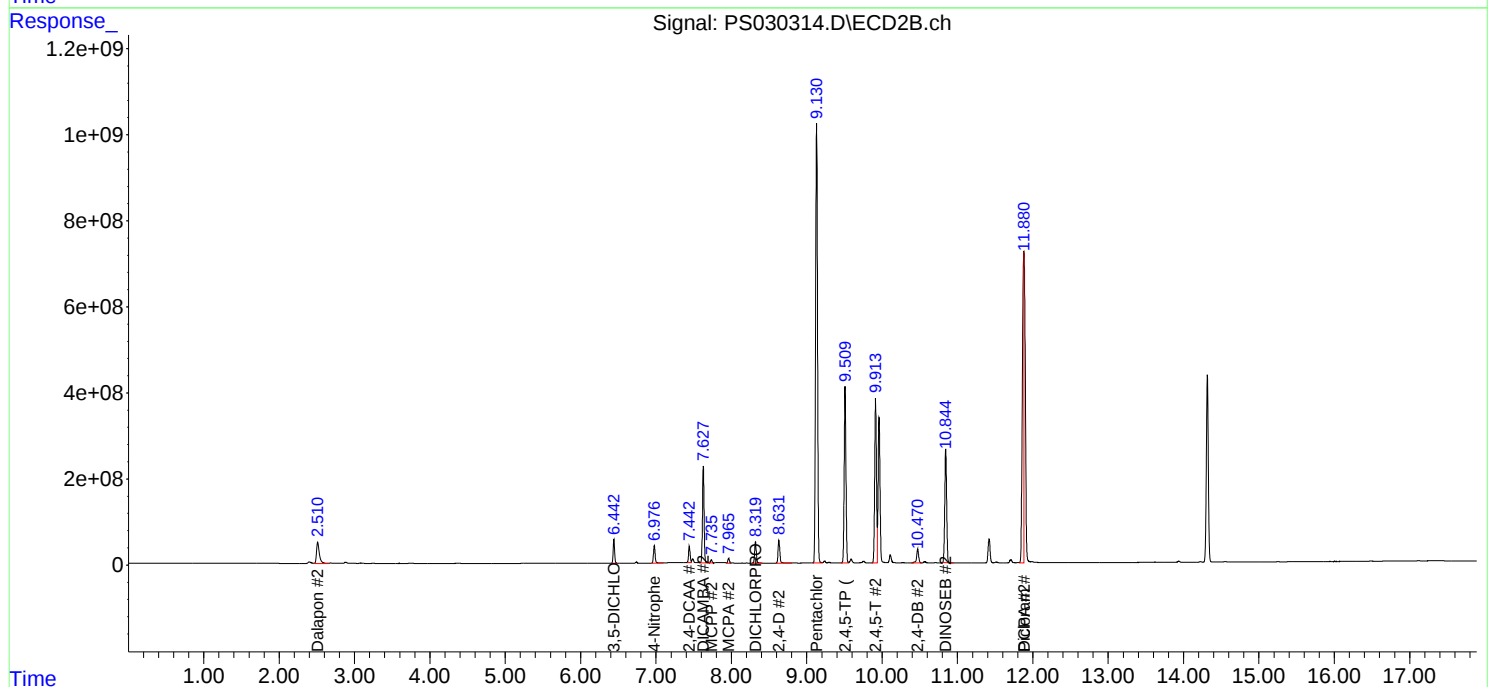
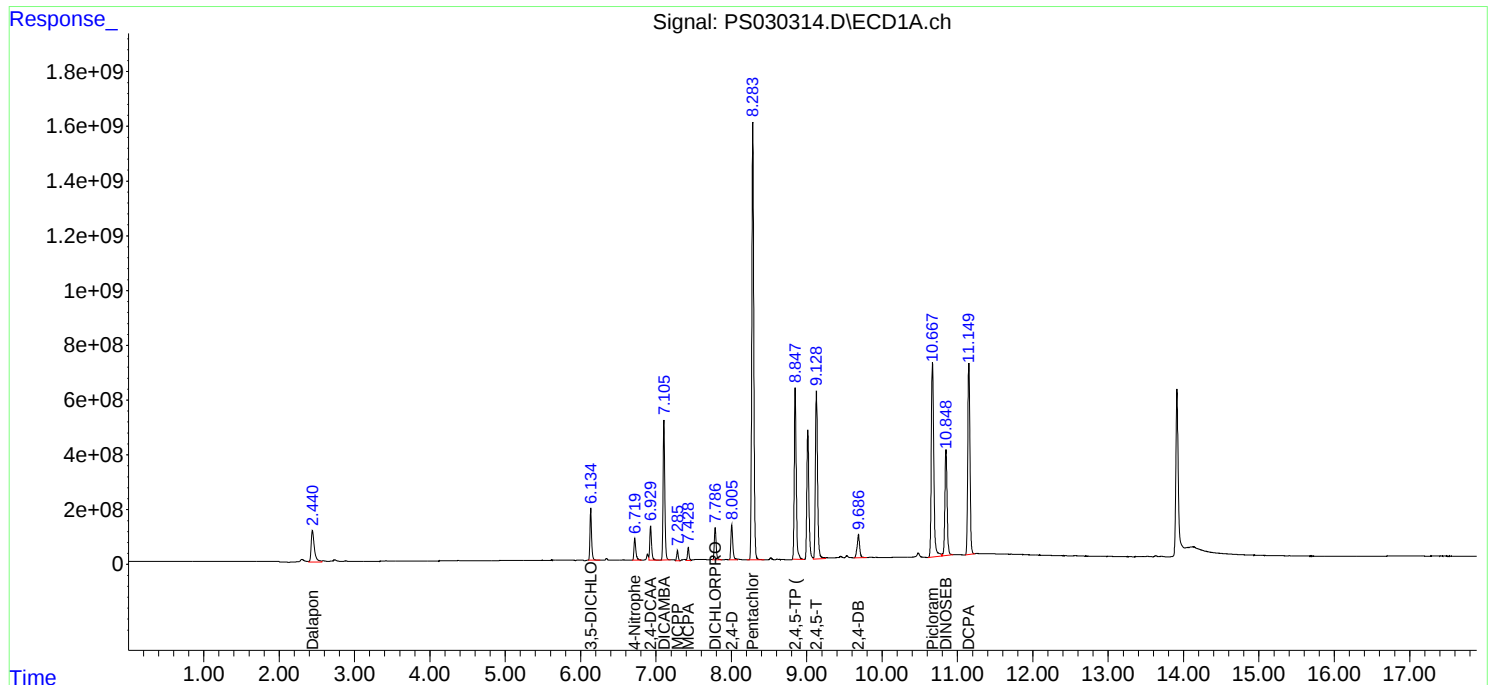
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/21/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:32 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.01
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/21/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:32 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.64	8.64	8.54	8.74	0.00
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.01
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL02 Date Analyzed: 05/21/2025

Lab Sample No.: HSTDCCC750 Data File : PS030324.D Time Analyzed: 20:32

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.127	9.033	9.233	711.830	712.500	-0.1
2,4,5-TP(Silvex)	8.845	8.750	8.950	708.190	712.500	-0.6
2,4-D	8.005	7.910	8.110	695.040	705.000	-1.4
2,4-DB	9.684	9.589	9.789	759.510	712.500	6.6
2,4-DCAA	6.929	6.834	7.034	728.350	750.000	-2.9
DICAMBA	7.105	7.010	7.210	701.780	705.000	-0.5
DICHLORPROP	7.785	7.689	7.889	686.830	705.000	-2.6
Dinoseb	10.844	10.751	10.951	690.500	705.000	-2.1



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CALIBRATION VERIFICATION SUMMARY
Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/12/2025 05/12/2025
Client Sample No.: CCAL02 **Date Analyzed:** 05/21/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030324.D **Time Analyzed:** 20:32

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.918	9.826	10.026	697.960	712.500	-2.0
2,4,5-TP(Silvex)	9.513	9.423	9.623	702.560	712.500	-1.4
2,4-D	8.636	8.544	8.744	688.830	705.000	-2.3
2,4-DB	10.474	10.385	10.585	634.390	712.500	-11.0
2,4-DCAA	7.447	7.354	7.554	713.880	750.000	-4.8
DICAMBA	7.633	7.539	7.739	690.690	705.000	-2.0
DICHLORPROP	8.324	8.232	8.432	666.080	705.000	-5.5
Dinoseb	10.848	10.758	10.958	683.340	705.000	-3.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030324.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 20:32
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:54:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.929	7.447	2074.2E6	571.3E6	728.348	713.883
Target Compounds							
1) T	Dalapon	2.445	2.519	3274.0E6	1334.1E6	666.081	656.873
2) T	3,5-DICHL...	6.135	6.448	2820.3E6	739.2E6	676.252	634.034
3) T	4-Nitroph...	6.720	6.983	1386.4E6	621.5E6	671.182	595.303
5) T	DICAMBA	7.105	7.633	8110.7E6	3265.6E6	701.780	690.692
6) T	MCPD	7.285	7.741	544.2E6	126.2E6	74.731	68.613
7) T	MCPA	7.427	7.970	716.4E6	176.9E6	69.009	67.058
8) T	DICHLORPROP	7.785	8.324	2006.5E6	786.9E6	686.826	666.084
9) T	2,4-D	8.005	8.636	2279.0E6	888.9E6	695.045	688.825
10) T	Pentachlo...	8.282	9.136	29079.9E6	17478.8E6	718.009	708.075
11) T	2,4,5-TP ...	8.845	9.513	11469.9E6	6920.5E6	708.195	702.559
12) T	2,4,5-T	9.127	9.918	11756.0E6	6423.8E6	711.829	697.965
13) T	2,4-DB	9.684	10.474	1982.2E6	629.6E6	759.514	634.393
14) T	DINOSEB	10.844	10.848	7896.8E6	4668.5E6	690.498	683.337
15) T	Picloram	10.664	11.883	15453.5E6	10467.3E6	722.566	743.778m
16) T	DCPA	11.146	11.881	14247.7E6	9298.4E6	715.552	688.236m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030324.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 20:32
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

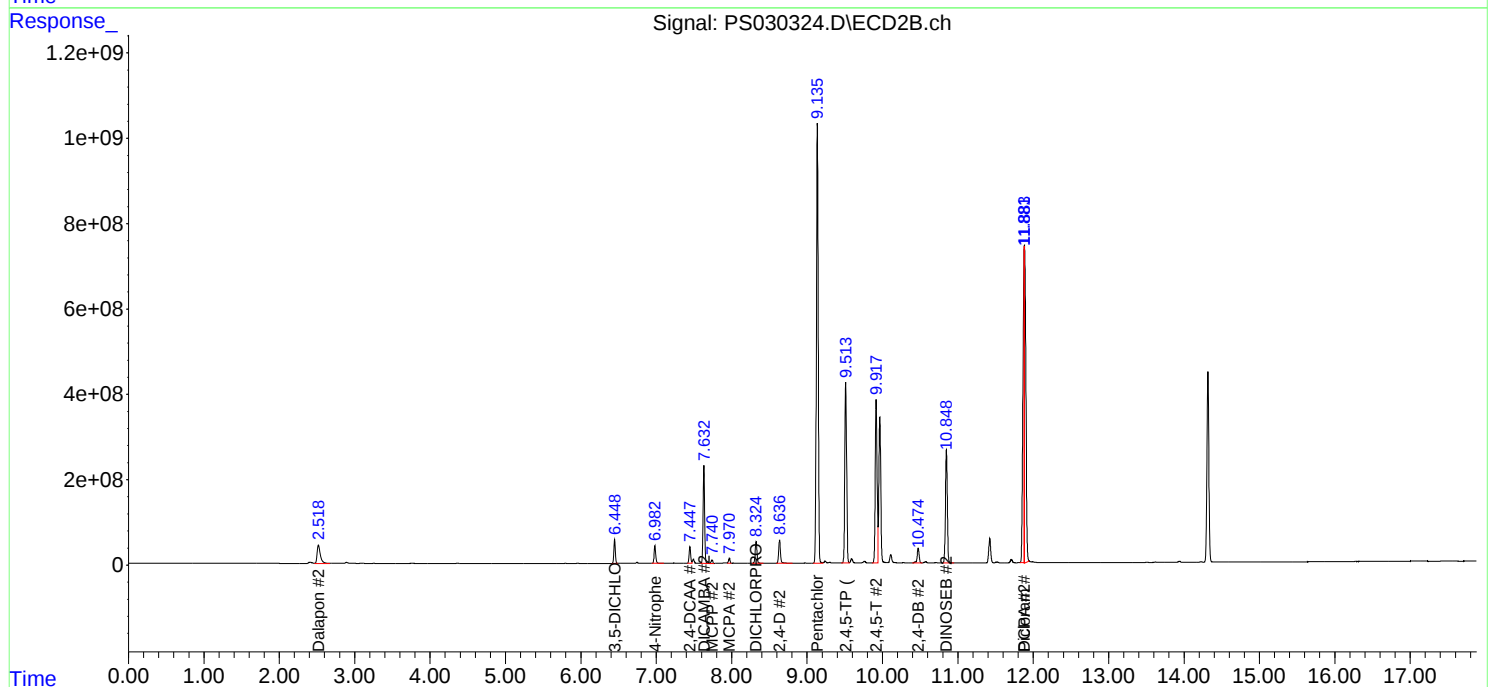
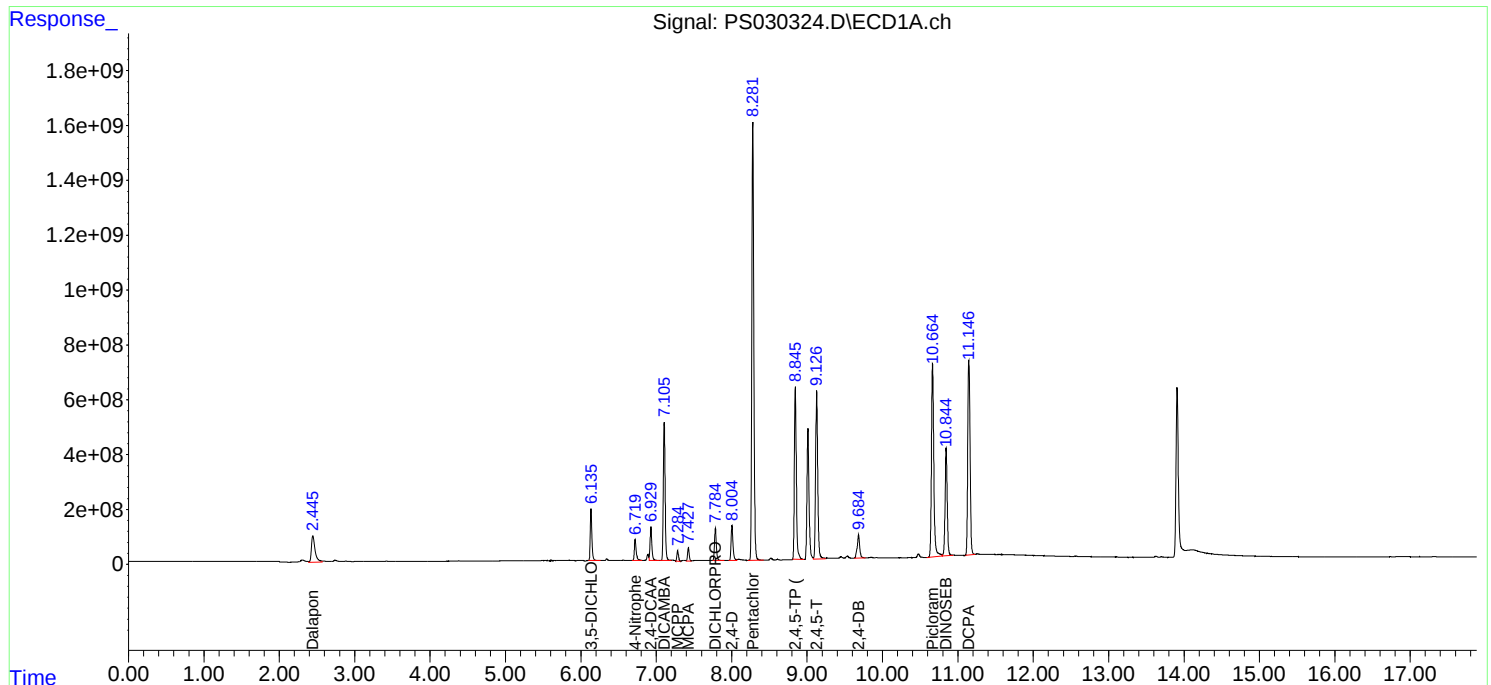
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:54:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/22/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 01:45 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.00
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.69	9.69	9.59	9.79	0.00
Dinoseb	10.85	10.85	10.75	10.95	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/22/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 01:45 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.33	8.33	8.23	8.43	0.01
2,4-D	8.64	8.64	8.54	8.74	0.00
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.01
2,4-DB	10.48	10.49	10.39	10.59	0.01
Dinoseb	10.85	10.86	10.76	10.96	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL03 Date Analyzed: 05/22/2025

Lab Sample No.: HSTDCCC750 Data File : PS030334.D Time Analyzed: 01:45

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.128	9.033	9.233	704.880	712.500	-1.1
2,4,5-TP(Silvex)	8.846	8.750	8.950	700.620	712.500	-1.7
2,4-D	8.005	7.910	8.110	686.810	705.000	-2.6
2,4-DB	9.685	9.589	9.789	746.410	712.500	4.8
2,4-DCAA	6.930	6.834	7.034	721.880	750.000	-3.7
DICAMBA	7.106	7.010	7.210	694.030	705.000	-1.6
DICHLORPROP	7.786	7.689	7.889	681.520	705.000	-3.3
Dinoseb	10.845	10.751	10.951	686.410	705.000	-2.6



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL03 Date Analyzed: 05/22/2025

Lab Sample No.: HSTDCCC750 Data File : PS030334.D Time Analyzed: 01:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.918	9.826	10.026	690.390	712.500	-3.1
2,4,5-TP(Silvex)	9.514	9.423	9.623	696.770	712.500	-2.2
2,4-D	8.636	8.544	8.744	681.090	705.000	-3.4
2,4-DB	10.475	10.385	10.585	633.280	712.500	-11.1
2,4-DCAA	7.448	7.354	7.554	710.320	750.000	-5.3
DICAMBA	7.633	7.539	7.739	685.810	705.000	-2.7
DICHLORPROP	8.325	8.232	8.432	662.290	705.000	-6.1
Dinoseb	10.849	10.758	10.958	676.960	705.000	-4.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030334.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 01:45
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 06:06:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.930	7.448	2055.8E6	568.4E6	721.876	710.323
Target Compounds							
1) T	Dalapon	2.444	2.518	3224.2E6	1321.3E6	655.946	650.546
2) T	3,5-DICHL...	6.135	6.448	2800.4E6	734.6E6	671.480	630.134
3) T	4-Nitroph...	6.720	6.983	1374.1E6	609.4E6	665.234	583.707
5) T	DICAMBA	7.106	7.633	8021.1E6	3242.5E6	694.029	685.815
6) T	MCPD	7.285	7.741	538.1E6	124.5E6	73.886	67.652
7) T	MCPA	7.428	7.970	708.2E6	176.9E6	68.226	67.055
8) T	DICHLORPROP	7.786	8.325	1991.0E6	782.4E6	681.522	662.289
9) T	2,4-D	8.005	8.636	2252.0E6	879.0E6	686.815	681.092
10) T	Pentachlo...	8.282	9.136	28771.4E6	17296.8E6	710.391	700.702
11) T	2,4,5-TP ...	8.846	9.514	11347.2E6	6863.4E6	700.618	696.766
12) T	2,4,5-T	9.128	9.918	11641.3E6	6354.1E6	704.884	690.389
13) T	2,4-DB	9.685	10.475	1948.0E6	628.4E6	746.413	633.277
14) T	DINOSEB	10.845	10.849	7850.0E6	4625.0E6	686.407	676.963
15) T	Picloram	10.665	11.883	15081.7E6	11016.7E6	705.182	782.821m
16) T	DCPA	11.147	11.881	14091.8E6	8901.3E6	707.724	658.842m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030334.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 01:45
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

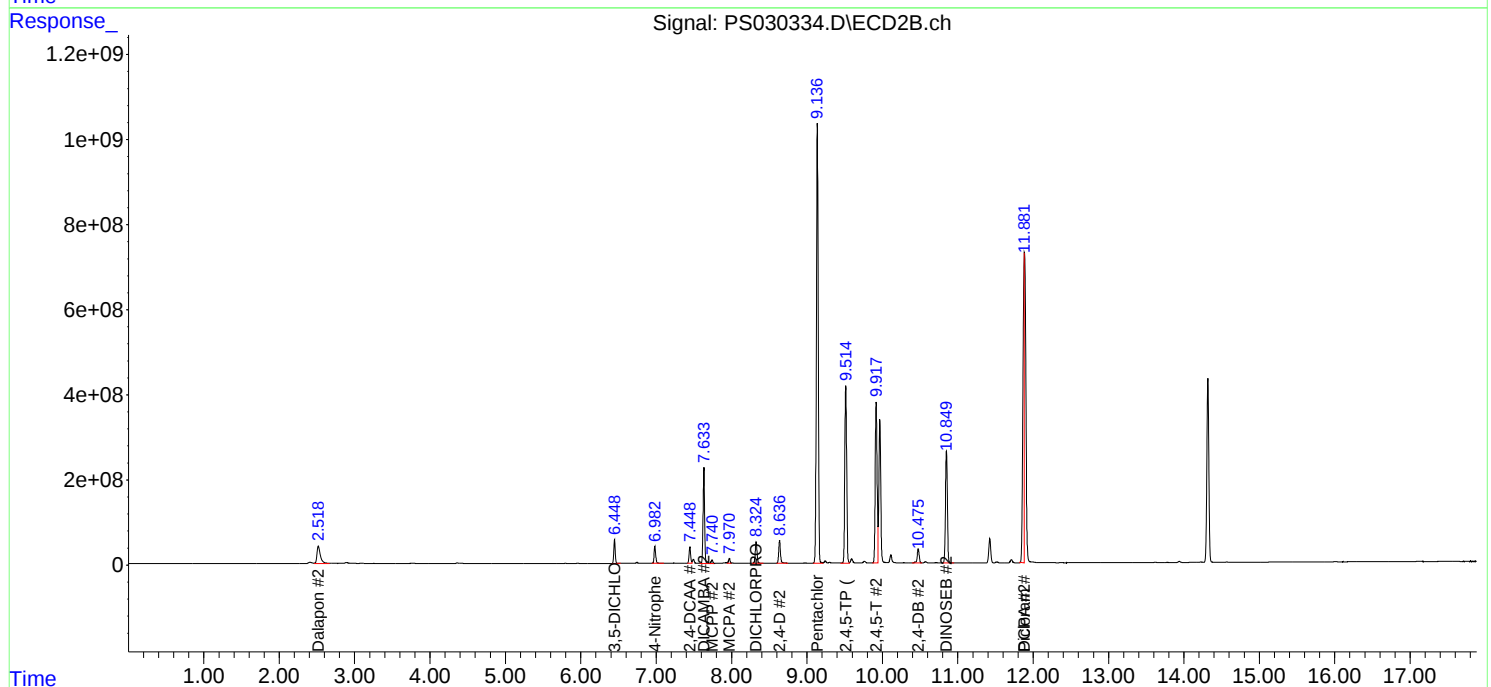
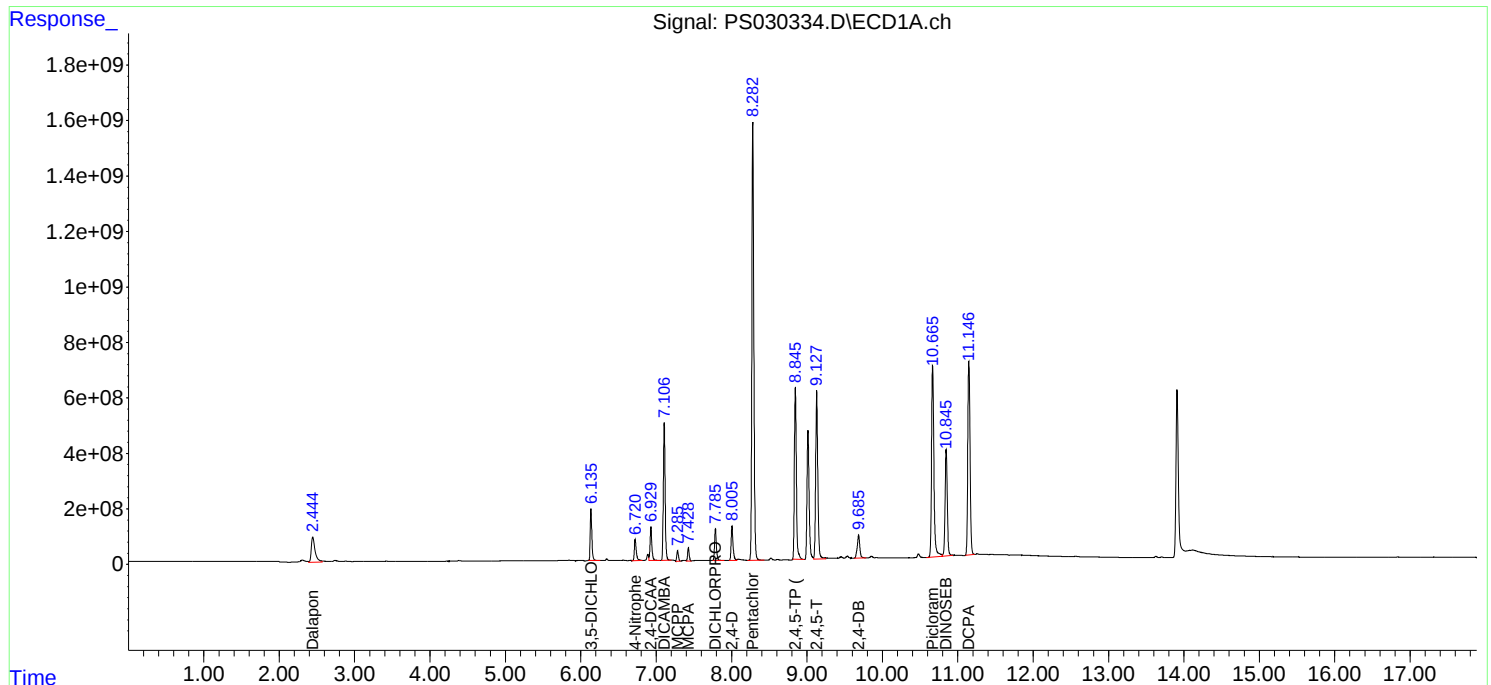
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 06:06:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/22/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:29 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/22/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:29 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL04 Date Analyzed: 05/22/2025

Lab Sample No.: HSTDCCC750 Data File : PS030359.D Time Analyzed: 20:29

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.126	9.033	9.233	725.300	712.500	1.8
2,4,5-TP(Silvex)	8.844	8.750	8.950	719.260	712.500	0.9
2,4-D	8.004	7.910	8.110	706.710	705.000	0.2
2,4-DB	9.683	9.589	9.789	763.910	712.500	7.2
2,4-DCAA	6.929	6.834	7.034	749.220	750.000	-0.1
DICAMBA	7.104	7.010	7.210	713.660	705.000	1.2
DICHLORPROP	7.784	7.689	7.889	706.330	705.000	0.2
Dinoseb	10.843	10.751	10.951	700.210	705.000	-0.7



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CALIBRATION VERIFICATION SUMMARY
Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/12/2025 05/12/2025
Client Sample No.: CCAL04 **Date Analyzed:** 05/22/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030359.D **Time Analyzed:** 20:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.915	9.826	10.026	710.130	712.500	-0.3
2,4,5-TP(Silvex)	9.511	9.423	9.623	717.350	712.500	0.7
2,4-D	8.634	8.544	8.744	701.130	705.000	-0.5
2,4-DB	10.472	10.385	10.585	621.450	712.500	-12.8
2,4-DCAA	7.446	7.354	7.554	730.330	750.000	-2.6
DICAMBA	7.631	7.539	7.739	704.850	705.000	0.0
DICHLORPROP	8.322	8.232	8.432	681.030	705.000	-3.4
Dinoseb	10.846	10.758	10.958	679.350	705.000	-3.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
 Data File : PS030359.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 20:29
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/23/2025

Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 22:44:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.929	7.446	2133.6E6	584.4E6	749.220	730.335
Target Compounds							
1) T	Dalapon	2.443	2.517	3209.3E6	1331.8E6	652.911	655.739
2) T	3,5-DICHL...	6.134	6.447	2897.6E6	753.2E6	694.781	646.036
3) T	4-Nitroph...	6.719	6.981	1428.7E6	625.7E6	691.666	599.321
5) T	DICAMBA	7.104	7.631	8248.0E6	3332.5E6	713.658	704.854
6) T	MCPD	7.284	7.739	560.9E6	129.2E6	77.014	70.228
7) T	MCPA	7.426	7.969	743.4E6	174.9E6	71.616	66.301
8) T	DICHLORPROP	7.784	8.322	2063.4E6	804.6E6	706.328	681.026
9) T	2,4-D	8.004	8.634	2317.2E6	904.8E6	706.707	701.133
10) T	Pentachlo...	8.281	9.133	29778.8E6	17854.4E6	735.264	723.292
11) T	2,4,5-TP ...	8.844	9.511	11649.1E6	7066.2E6	719.260	717.349
12) T	2,4,5-T	9.126	9.915	11978.4E6	6535.7E6	725.295	710.126
13) T	2,4-DB	9.683	10.472	1993.6E6	616.7E6	763.910	621.449
14) T	DINOSEB	10.843	10.846	8007.9E6	4641.3E6	700.214	679.347
15) T	Picloram	10.664	11.878	15131.9E6	10420.5E6	707.531	740.453m
16) T	DCPA	11.144	11.877	14502.6E6	10152.9E6	728.356	751.480m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030359.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 20:29
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

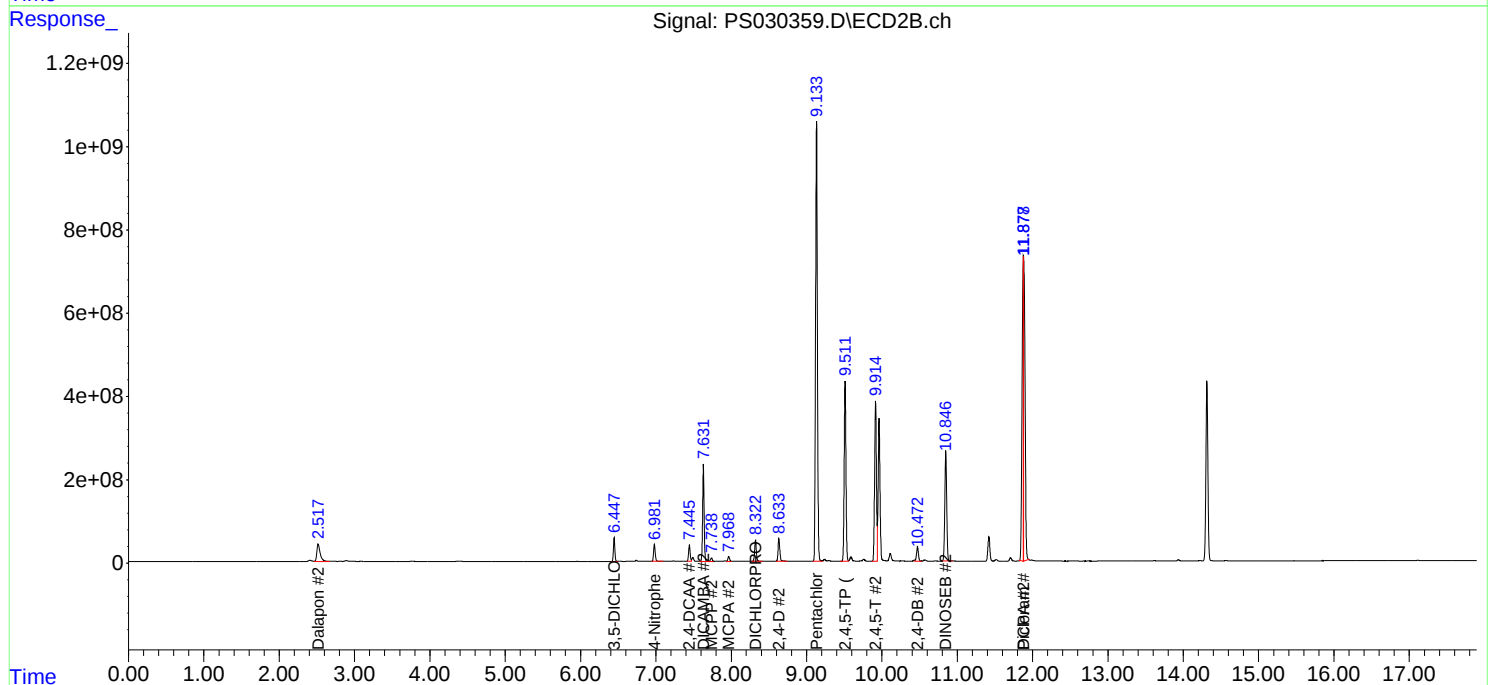
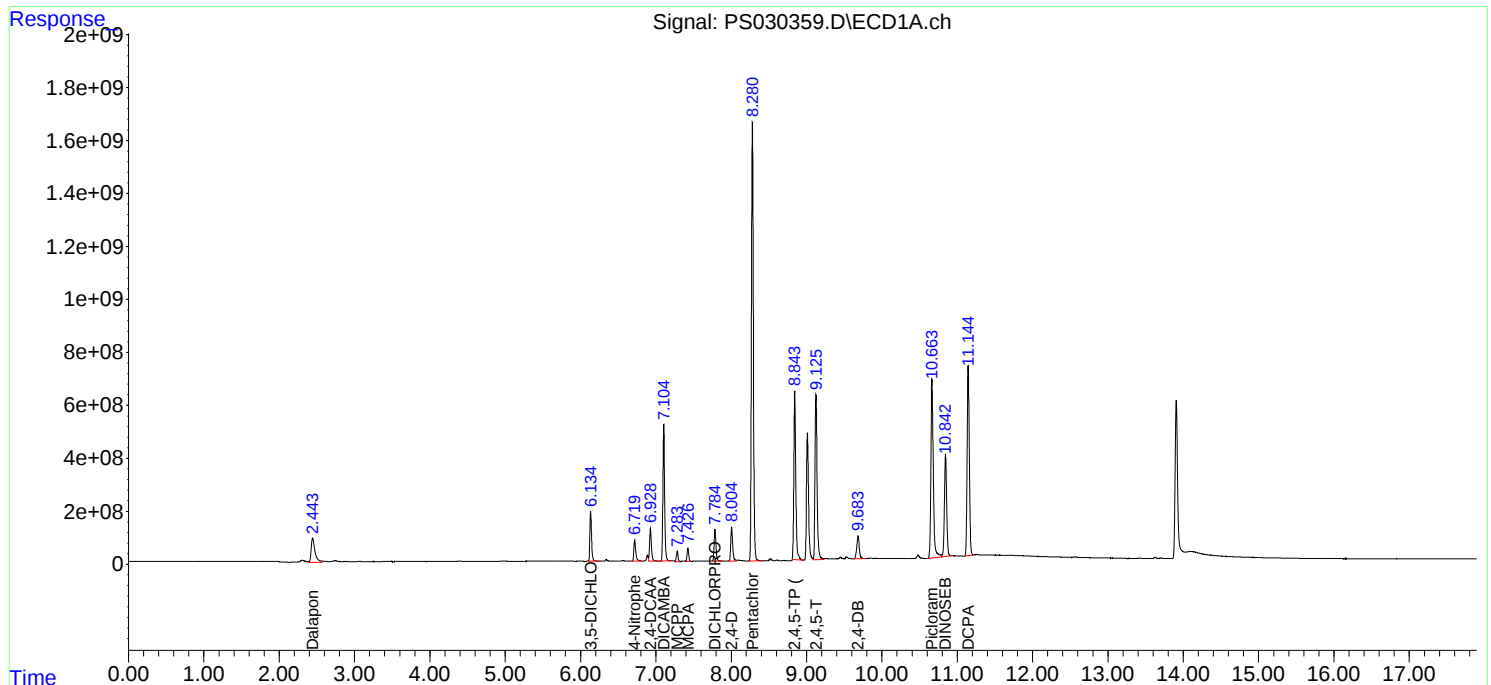
APPROVED

Reviewed By :Abdul Mirza 05/23/2025

Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 00:54 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 00:54 Initial Calibration Time(s): 12:30 14:06

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL05 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030369.D Time Analyzed: 00:54

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.126	9.033	9.233	734.260	712.500	3.1
2,4,5-TP(Silvex)	8.844	8.750	8.950	724.900	712.500	1.7
2,4-D	8.004	7.910	8.110	714.890	705.000	1.4
2,4-DB	9.683	9.589	9.789	778.330	712.500	9.2
2,4-DCAA	6.928	6.834	7.034	757.680	750.000	1.0
DICAMBA	7.104	7.010	7.210	721.180	705.000	2.3
DICHLORPROP	7.784	7.689	7.889	710.980	705.000	0.8
Dinoseb	10.843	10.751	10.951	706.700	705.000	0.2



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL05 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030369.D Time Analyzed: 00:54

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.915	9.826	10.026	724.630	712.500	1.7
2,4,5-TP(Silvex)	9.512	9.423	9.623	729.650	712.500	2.4
2,4-D	8.634	8.544	8.744	712.970	705.000	1.1
2,4-DB	10.473	10.385	10.585	623.400	712.500	-12.5
2,4-DCAA	7.446	7.354	7.554	738.500	750.000	-1.5
DICAMBA	7.631	7.539	7.739	716.590	705.000	1.6
DICHLORPROP	8.323	8.232	8.432	691.600	705.000	-1.9
Dinoseb	10.846	10.758	10.958	703.860	705.000	-0.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
 Data File : PS030369.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 00:54
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/23/2025

Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 02:02:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.928	7.446	2157.7E6	591.0E6	757.678	738.501
Target Compounds							
1) T	Dalapon	2.444	2.517	3323.7E6	1335.5E6	676.177	657.538
2) T	3,5-DICHL...	6.134	6.447	2932.3E6	768.0E6	703.098	658.799
3) T	4-Nitroph...	6.719	6.981	1441.1E6	639.6E6	697.667	612.621
5) T	DICAMBA	7.104	7.631	8335.0E6	3388.0E6	721.182	716.590
6) T	MCPD	7.284	7.739	564.4E6	126.8E6	77.505	68.914
7) T	MCPA	7.426	7.968	747.2E6	178.8E6	71.983	67.769
8) T	DICHLORPROP	7.784	8.323	2077.0E6	817.1E6	710.985	691.600
9) T	2,4-D	8.004	8.634	2344.1E6	920.1E6	714.886	712.967
10) T	Pentachlo...	8.281	9.133	29943.3E6	18210.3E6	739.327	737.709
11) T	2,4,5-TP ...	8.844	9.512	11740.4E6	7187.4E6	724.898	729.649
12) T	2,4,5-T	9.126	9.915	12126.4E6	6669.2E6	734.260	724.626
13) T	2,4-DB	9.683	10.473	2031.3E6	618.6E6	778.333	623.397
14) T	DINOSEB	10.843	10.846	8082.1E6	4808.8E6	706.700	703.859
15) T	Picloram	10.664	11.879	15423.9E6	10187.9E6	721.181	723.927m
16) T	DCPA	11.144	11.878	14524.3E6	9596.9E6	729.445	710.330m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030369.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 00:54
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

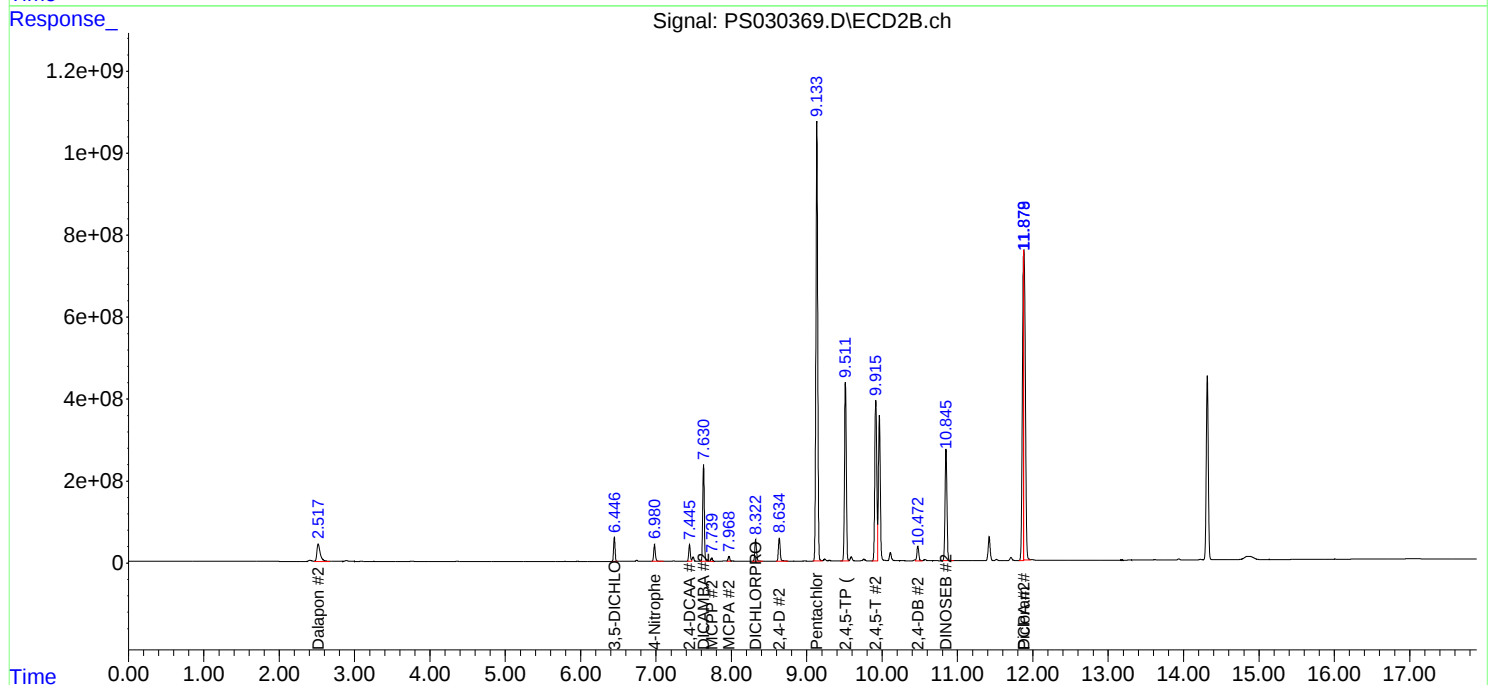
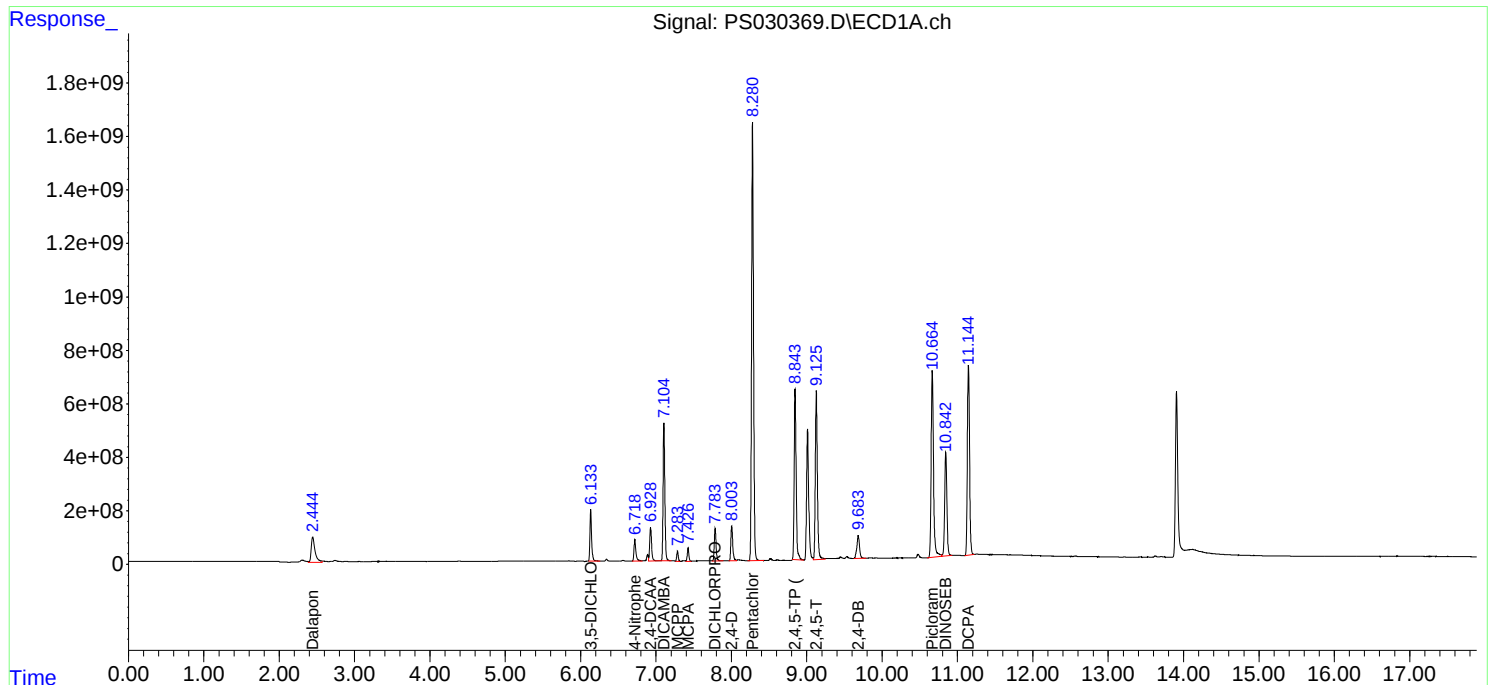
APPROVED

Reviewed By :Abdul Mirza 05/23/2025

Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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: CDM Smith

SDG No.: Q2074

Project: South River WM Replacement

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 05/12/2025 05/12/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	05/12/2025	12:06	PS030124.D	6.93	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	6.93	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	6.93	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	6.93	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	6.93	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	6.93	0.00
IBLK	IBLK	05/21/2025	10:21	PS030313.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	15:25	PS030314.D	6.93	0.00
PB168097BL	PB168097BL	05/21/2025	16:32	PS030315.D	6.93	0.00
PB168097BS	PB168097BS	05/21/2025	16:56	PS030316.D	6.93	0.00
IBLK	IBLK	05/21/2025	19:44	PS030323.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	20:32	PS030324.D	6.93	0.00
L1-WC-7MS	Q2071-01MS	05/21/2025	22:09	PS030326.D	6.93	0.00
L1-WC-7MSD	Q2071-01MSD	05/21/2025	22:33	PS030327.D	6.93	0.00
IBLK	IBLK	05/22/2025	00:57	PS030333.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	01:45	PS030334.D	6.93	0.00
IBLK	IBLK	05/22/2025	20:05	PS030358.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	20:29	PS030359.D	6.93	0.00
TP-12	Q2074-01	05/22/2025	21:17	PS030360.D	6.93	0.00
TP-7	Q2074-02	05/22/2025	21:41	PS030361.D	6.93	0.00
TP-15	Q2074-03	05/22/2025	22:05	PS030362.D	6.93	0.00
TP-20	Q2074-04	05/22/2025	22:29	PS030363.D	6.93	0.00
TP-38	Q2074-05	05/22/2025	22:53	PS030364.D	6.93	0.00
TP-19	Q2074-06	05/22/2025	23:17	PS030365.D	6.93	0.00
TP-40	Q2074-07	05/22/2025	23:41	PS030366.D	6.93	0.00
TP-18	Q2074-08	05/23/2025	00:05	PS030367.D	6.93	0.00
IBLK	IBLK	05/23/2025	00:29	PS030368.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	00:54	PS030369.D	6.93	0.00

Analytical Sequence

Client: CDM Smith	SDG No.: Q2074
Project: South River WM Replacement	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 05/12/2025 05/12/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	05/12/2025	12:06	PS030124.D	7.45	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	7.45	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	7.45	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	7.45	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	7.45	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	7.45	0.00
IBLK	IBLK	05/21/2025	10:21	PS030313.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	15:25	PS030314.D	7.44	0.00
PB168097BL	PB168097BL	05/21/2025	16:32	PS030315.D	7.44	0.00
PB168097BS	PB168097BS	05/21/2025	16:56	PS030316.D	7.45	0.00
IBLK	IBLK	05/21/2025	19:44	PS030323.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	20:32	PS030324.D	7.45	0.00
L1-WC-7MS	Q2071-01MS	05/21/2025	22:09	PS030326.D	7.45	0.00
L1-WC-7MSD	Q2071-01MSD	05/21/2025	22:33	PS030327.D	7.45	0.00
IBLK	IBLK	05/22/2025	00:57	PS030333.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	01:45	PS030334.D	7.45	0.00
IBLK	IBLK	05/22/2025	20:05	PS030358.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	20:29	PS030359.D	7.45	0.00
TP-12	Q2074-01	05/22/2025	21:17	PS030360.D	7.45	0.00
TP-7	Q2074-02	05/22/2025	21:41	PS030361.D	7.45	0.00
TP-15	Q2074-03	05/22/2025	22:05	PS030362.D	7.44	0.00
TP-20	Q2074-04	05/22/2025	22:29	PS030363.D	7.44	0.00
TP-38	Q2074-05	05/22/2025	22:53	PS030364.D	7.45	0.00
TP-19	Q2074-06	05/22/2025	23:17	PS030365.D	7.45	0.00
TP-40	Q2074-07	05/22/2025	23:41	PS030366.D	7.45	0.00
TP-18	Q2074-08	05/23/2025	00:05	PS030367.D	7.45	0.00
IBLK	IBLK	05/23/2025	00:29	PS030368.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	00:54	PS030369.D	7.45	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

L1-WC-7MS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074

SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: Q2071-01MS

Date(s) Analyzed: 05/21/2025 05/21/2025

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		
DICHLORPROP	1	7.79	7.74	7.84	164	4.4
	2	8.32	8.27	8.37	157	
2,4-D	1	8.00	7.95	8.05	188	7.2
	2	8.64	8.59	8.69	175	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	159	3.7
	2	9.51	9.46	9.56	165	
2,4,5-T	1	9.13	9.08	9.18	158	0.6
	2	9.92	9.87	9.97	157	
2,4-DB	1	9.69	9.64	9.74	198	38.6
	2	10.47	10.42	10.52	134	
Dinoseb	1	10.85	10.80	10.90	16.4	26.2
	2	10.84	10.79	10.89	12.6	
DICAMBA	1	7.11	7.06	7.16	150	0.7
	2	7.63	7.58	7.68	149	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

L1-WC-7MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074

SAS No.: Q2074

SDG NO.: Q2074

Lab Sample ID: Q2071-01MSD

Date(s) Analyzed: 05/21/2025 05/21/2025

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		
DICHLORPROP	1	7.79	7.74	7.84	165	5
	2	8.32	8.27	8.37	157	
2,4-D	1	8.01	7.96	8.06	189	7.1
	2	8.64	8.59	8.69	176	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	161	3.7
	2	9.51	9.46	9.56	167	
2,4,5-T	1	9.13	9.08	9.18	160	1.3
	2	9.92	9.87	9.97	158	
2,4-DB	1	9.69	9.64	9.74	198	18.2
	2	10.47	10.42	10.52	165	
DICAMBA	1	7.11	7.06	7.16	151	0.7
	2	7.63	7.58	7.68	150	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168097BS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074

SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168097BS

Date(s) Analyzed: 05/21/2025 05/21/2025

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		
2,4,5-T	1	9.13	9.08	9.18	172	5.4
	2	9.92	9.87	9.97	163	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	171	4.2
	2	9.51	9.46	9.56	164	
2,4-D	1	8.01	7.96	8.06	168	4.3
	2	8.64	8.59	8.69	161	
2,4-DB	1	9.69	9.64	9.74	178	23.9
	2	10.47	10.42	10.52	140	
DICHLORPROP	1	7.79	7.74	7.84	167	6.2
	2	8.32	8.27	8.37	157	
Dinoseb	1	10.85	10.80	10.90	169	5.5
	2	10.85	10.80	10.90	160	
DICAMBA	1	7.11	7.06	7.16	169	6.1
	2	7.63	7.58	7.68	159	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168097BL	SDG No.:	Q2074
Lab Sample ID:	PB168097BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030315.D	1	05/21/25 08:30	05/21/25 16:32	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	417		10 - 141	83%	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\PS052125\
Data File : PS030315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:32
Operator : AR\AJ
Sample : PB168097BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168097BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

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

4) S	2,4-DCAA	6.929	7.442	1188.7E6	286.0E6	417.392	357.366
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Target Compounds

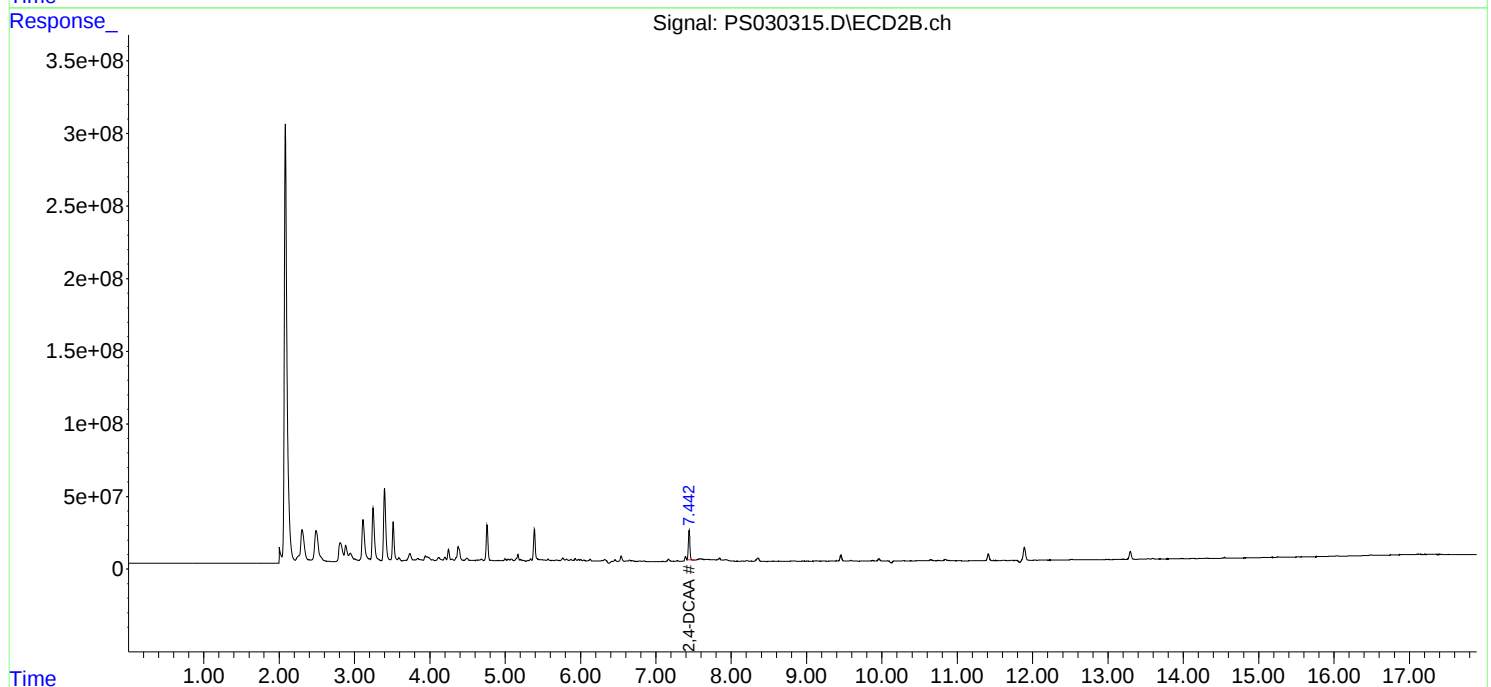
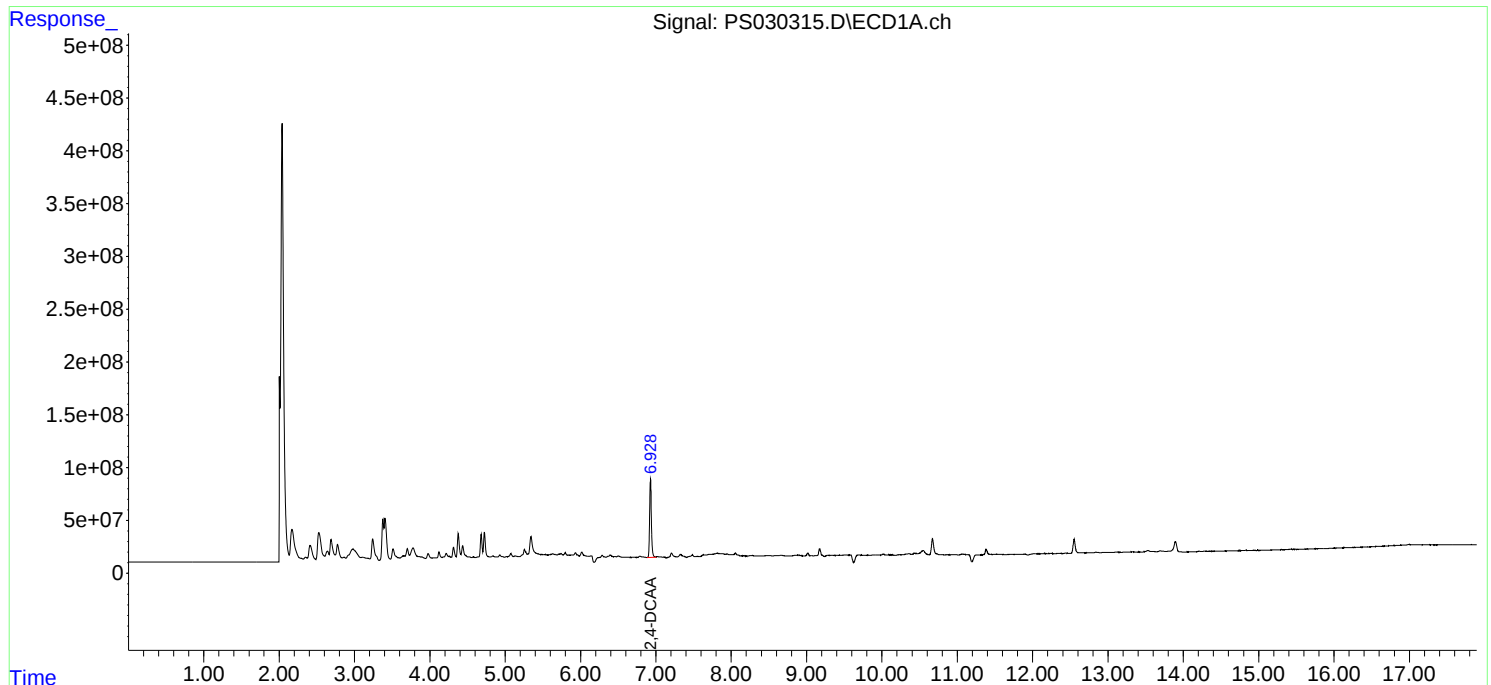
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

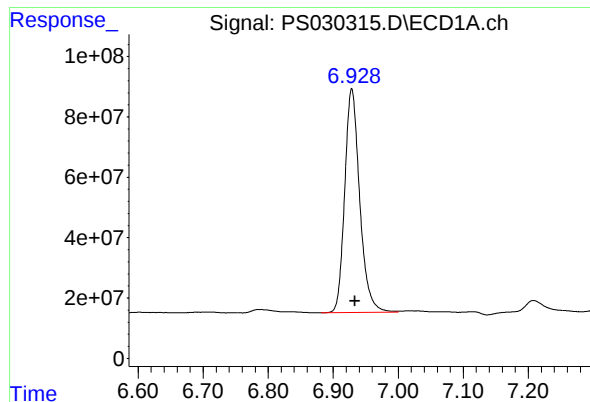
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:32
Operator : AR\AJ
Sample : PB168097BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168097BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





#4 2,4-DCAA

R.T.: 6.929 min

Delta R.T.: -0.005 min

Response: 1188652017

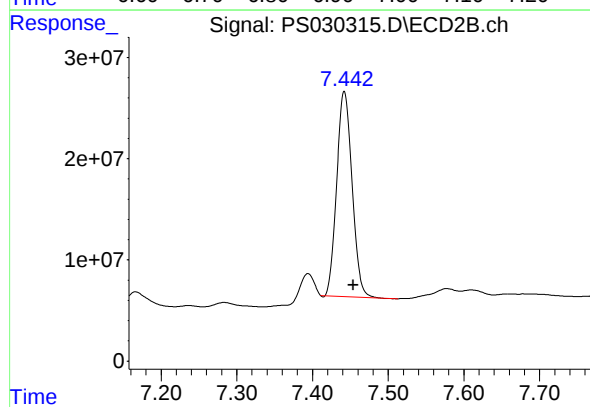
Conc: 417.39 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB168097BL



#4 2,4-DCAA

R.T.: 7.442 min

Delta R.T.: -0.012 min

Response: 285965933

Conc: 357.37 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/12/25
Project:	South River WM Replacement	Date Received:	05/12/25
Client Sample ID:	PIBLK-PS030124.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030124.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030124.D	1		05/12/25	PS051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	419		39 - 175	84%	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\PS051225\
 Data File : PS030124.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:06
 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: May 12 14:30:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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

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

System Monitoring Compounds						
4) S 2,4-DCAA	6.934	7.454	1194.2E6	334.3E6	419.337	417.753

Target Compounds

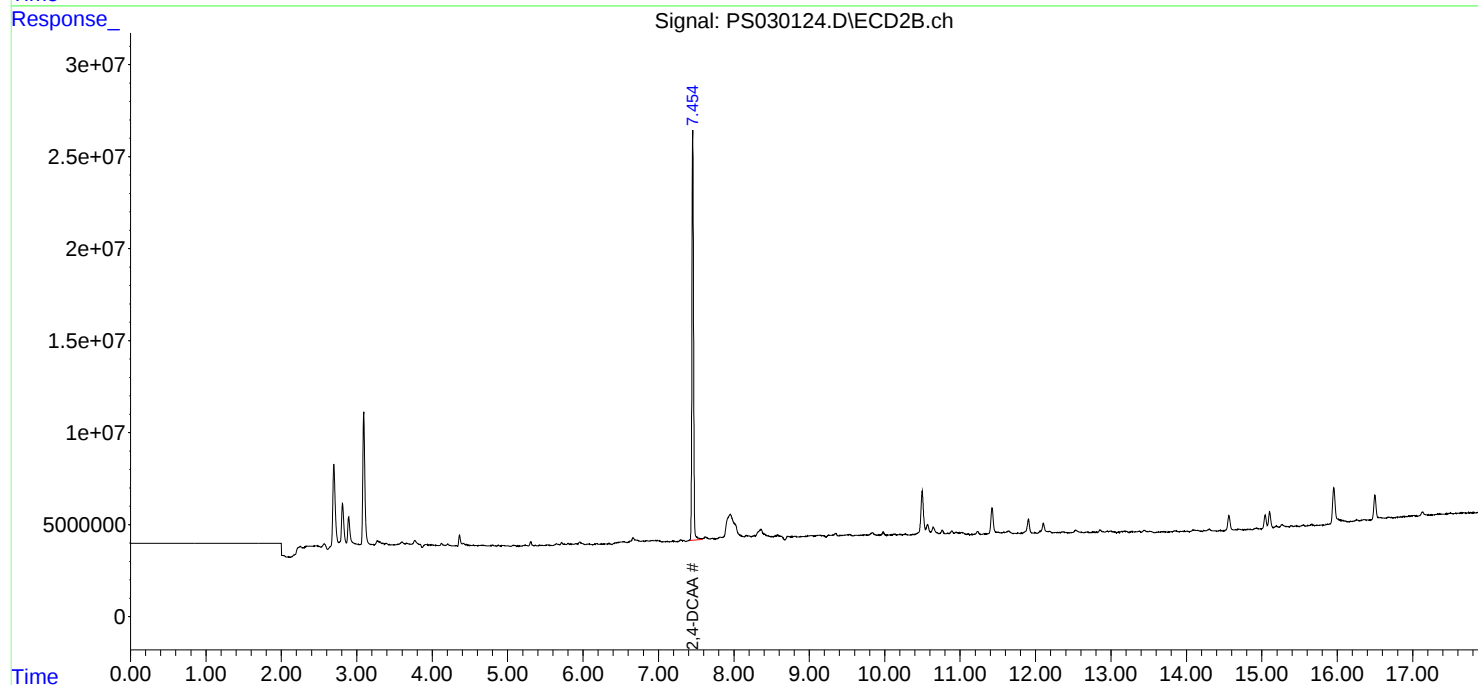
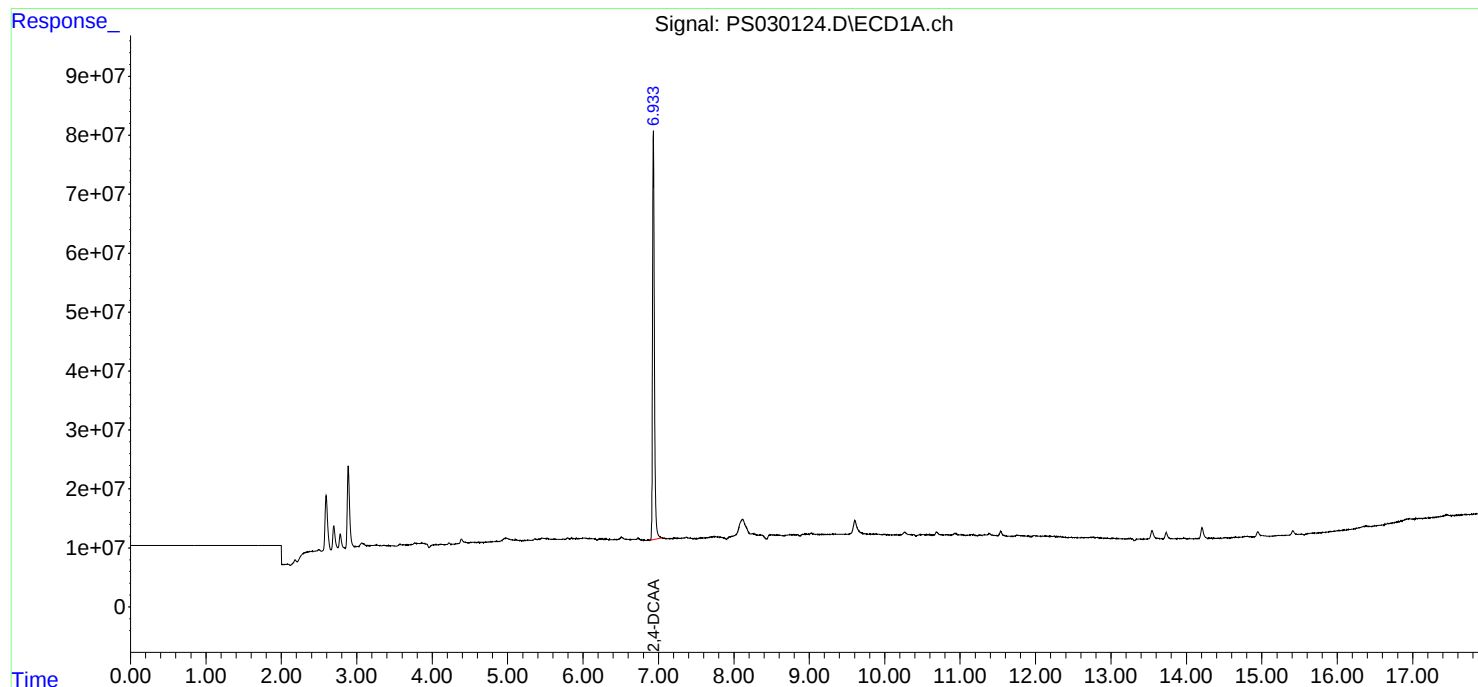
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

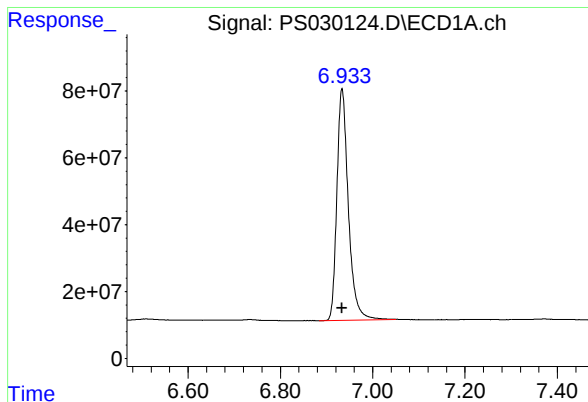
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:06
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 14:30:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

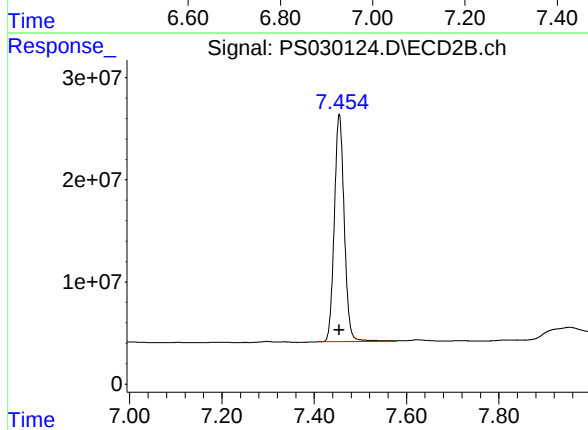




#4 2,4-DCAA

R.T.: 6.934 min
Delta R.T.: 0.000 min
Response: 1194190207
Conc: 419.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.454 min
Delta R.T.: 0.000 min
Response: 334287239
Conc: 417.75 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-PS030313.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030313.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030313.D	1		05/21/25	ps052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	492		39 - 175	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\PS052125\
 Data File : PS030313.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 10:21
 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: May 22 05:52:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

4) S	2,4-DCAA	6.929	7.448	1402.4E6	379.3E6	492.438	473.987
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Target Compounds

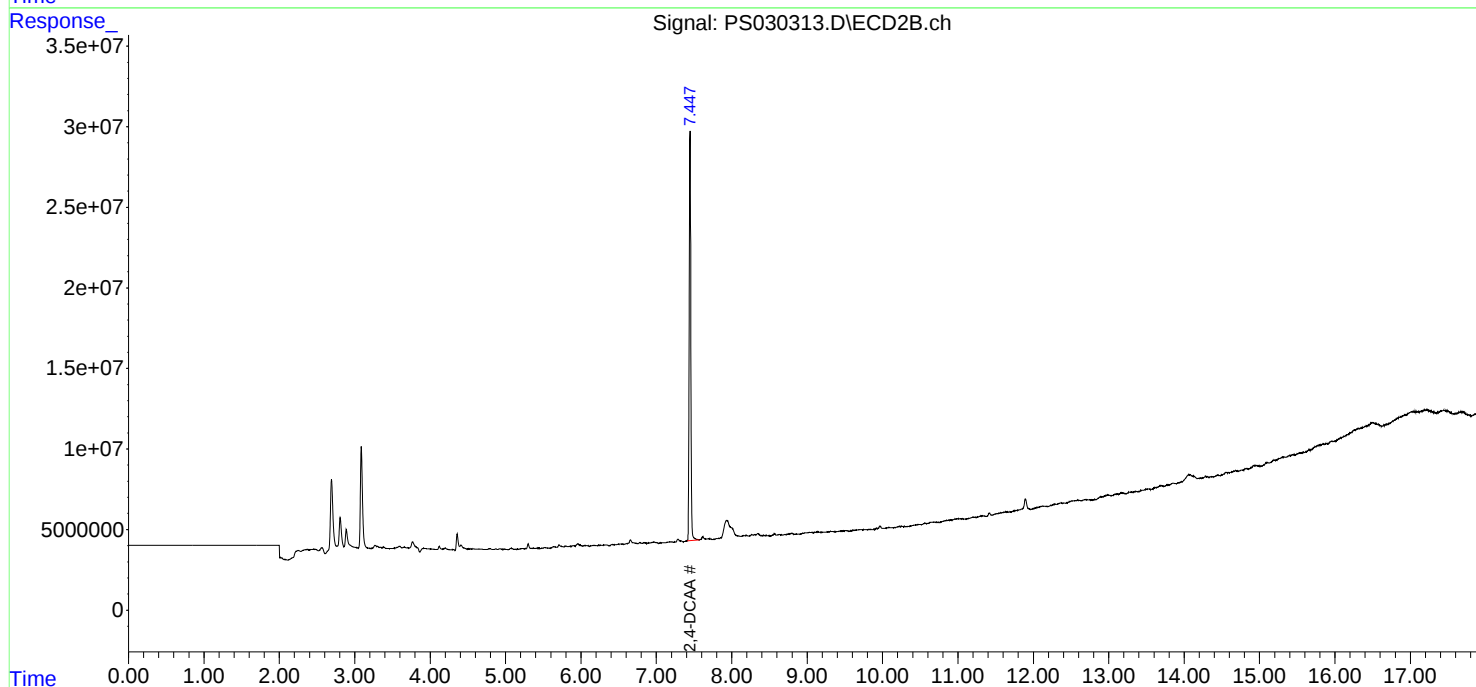
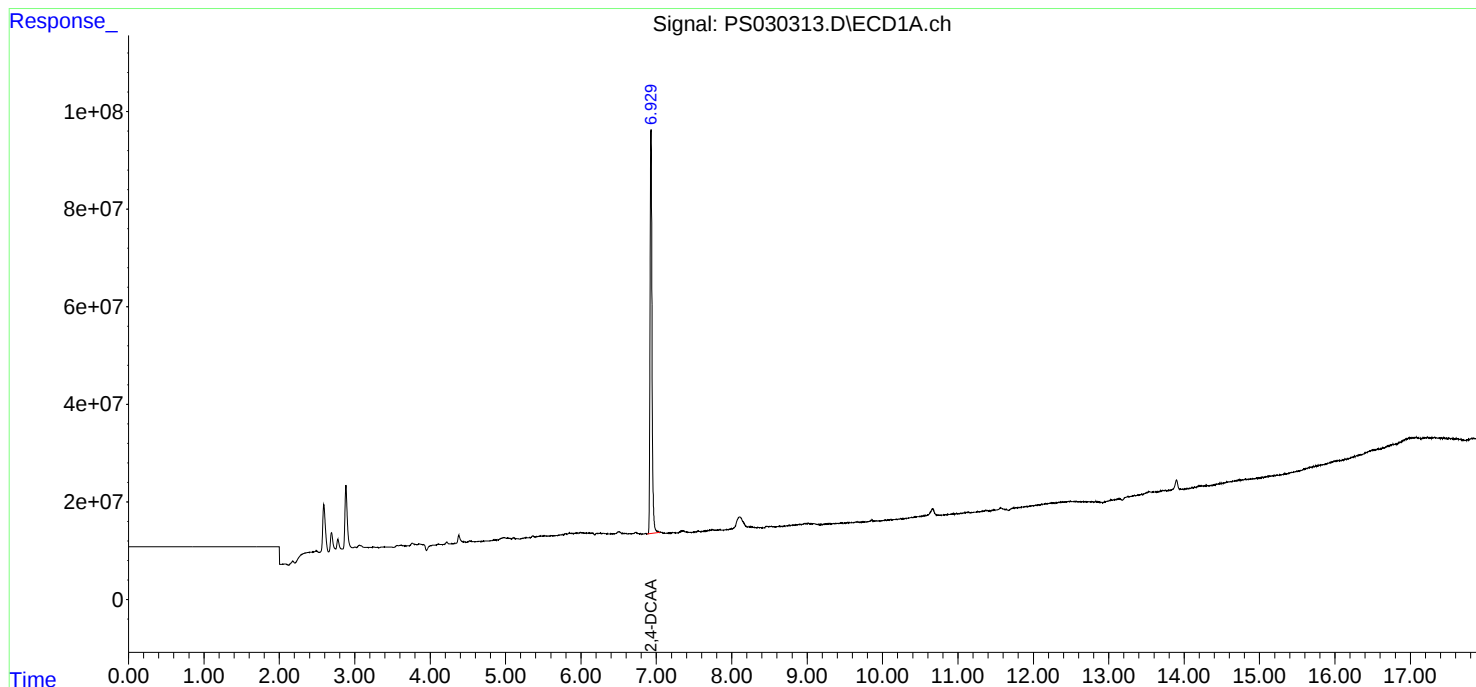
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

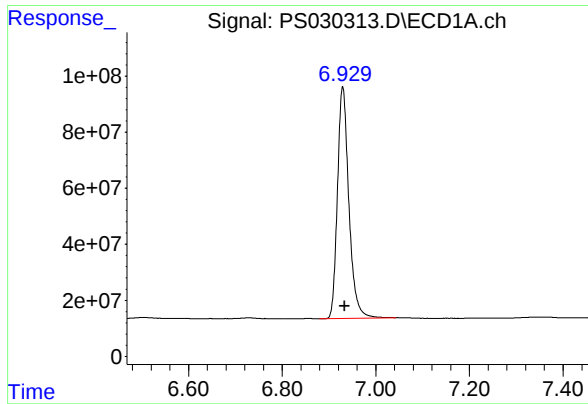
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030313.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 10:21
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

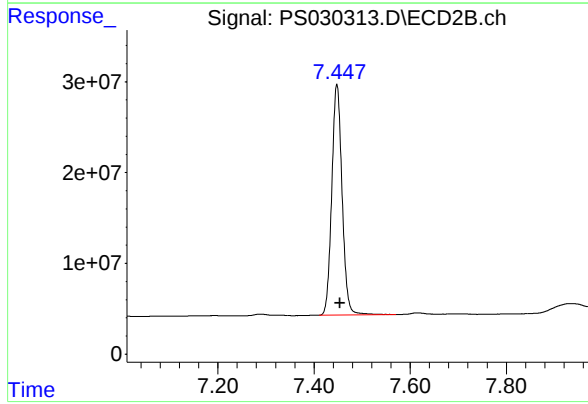




#4 2,4-DCAA

R.T.: 6.929 min
Delta R.T.: -0.004 min
Response: 1402370498
Conc: 492.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.448 min
Delta R.T.: -0.006 min
Response: 379286454
Conc: 473.99 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-PS030323.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030323.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030323.D	1		05/21/25	ps052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		39 - 175	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\PS052125\
 Data File : PS030323.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 19:44
 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: May 22 05:54:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

4) S 2,4-DCAA	6.929	7.448	1415.0E6	393.6E6	496.868	491.906
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Target Compounds

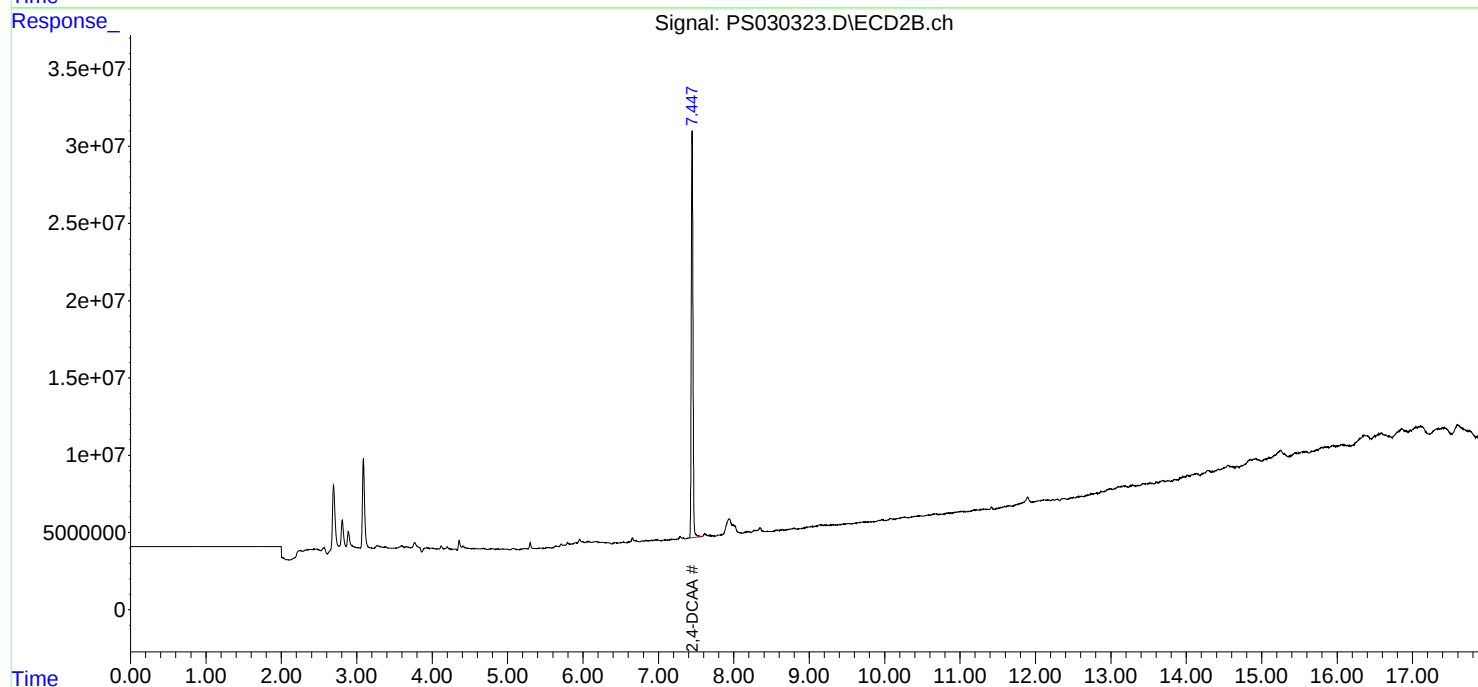
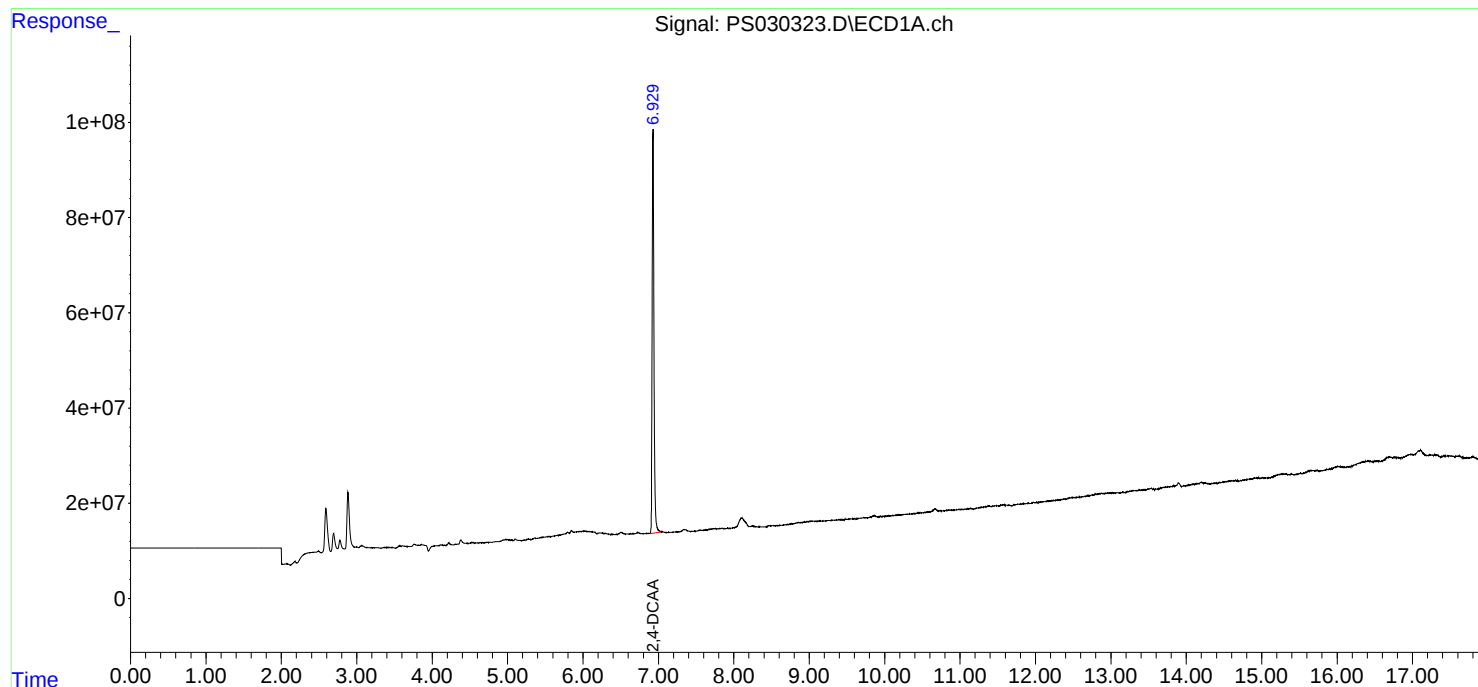
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

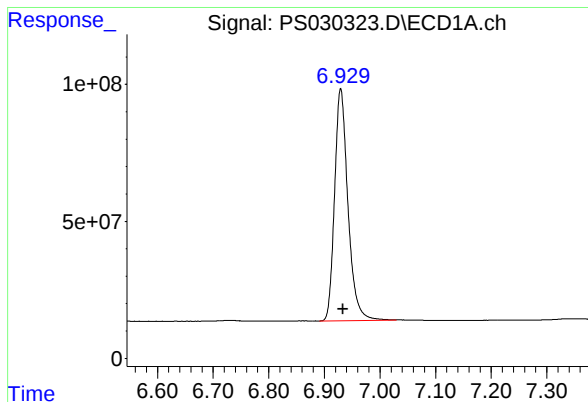
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030323.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 19:44
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:54:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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





#4 2,4-DCAA

R.T.: 6.929 min

Delta R.T.: -0.004 min

Response: 1414986173

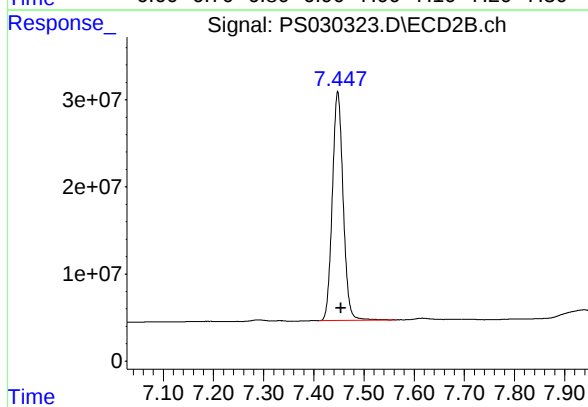
Conc: 496.87 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.448 min

Delta R.T.: -0.006 min

Response: 393625319

Conc: 491.91 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PS030333.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030333.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030333.D	1		05/22/25	ps052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	501		39 - 175	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\PS052125\
Data File : PS030333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 00:57
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: May 22 05:57:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.929	7.448	1426.5E6	396.6E6	500.895	495.631

Target Compounds

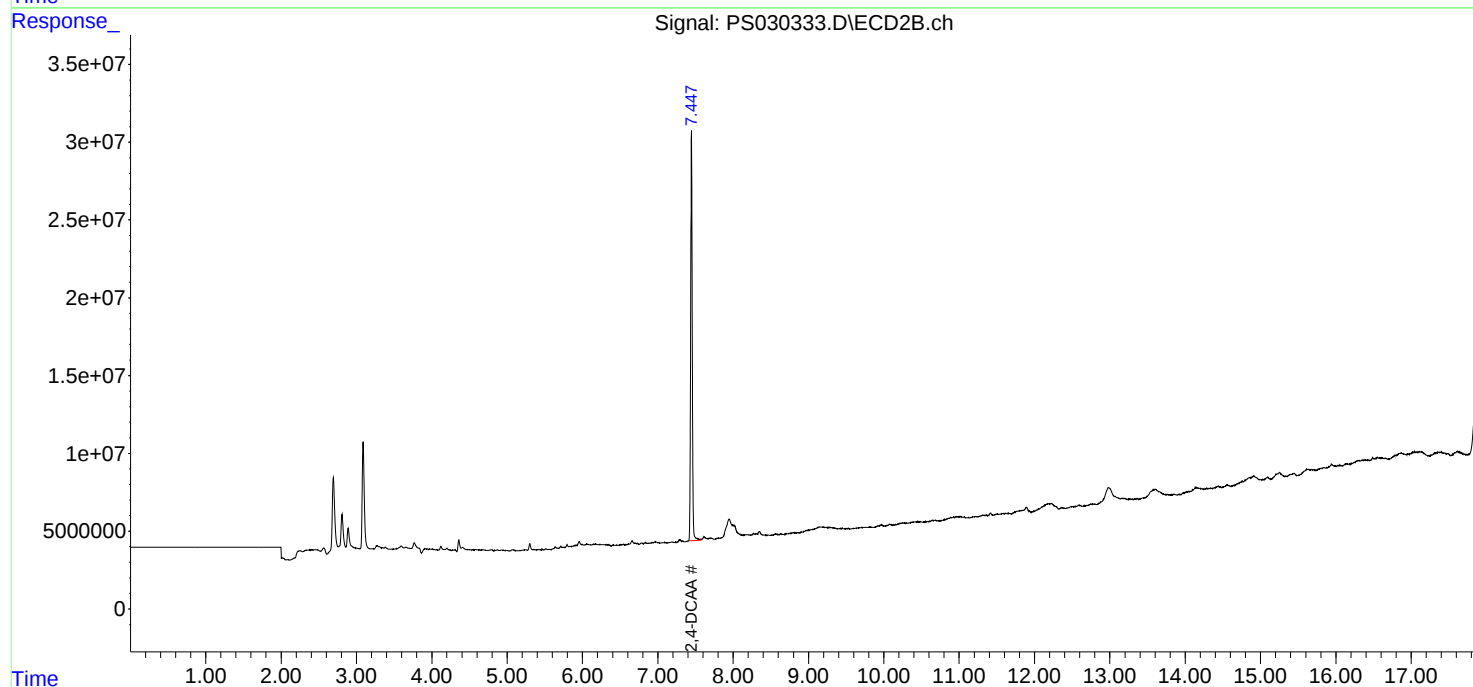
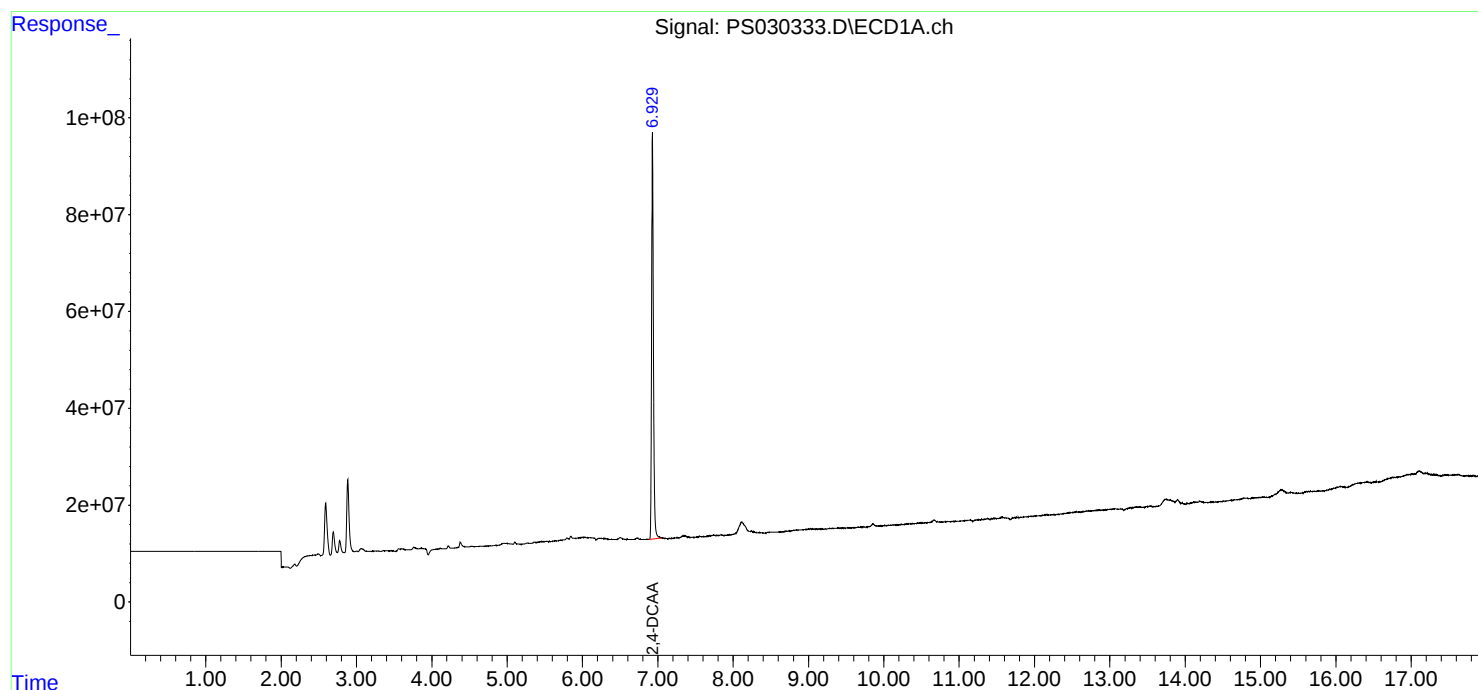
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

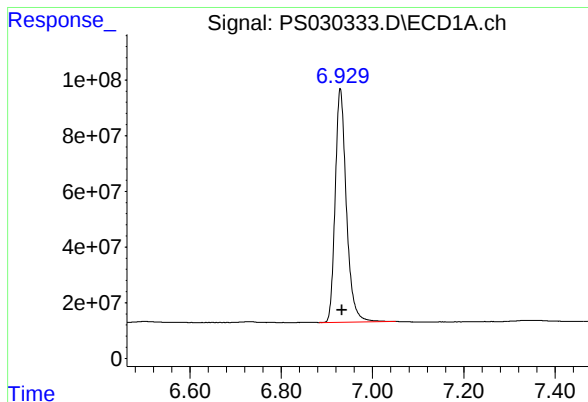
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 00:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:57:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

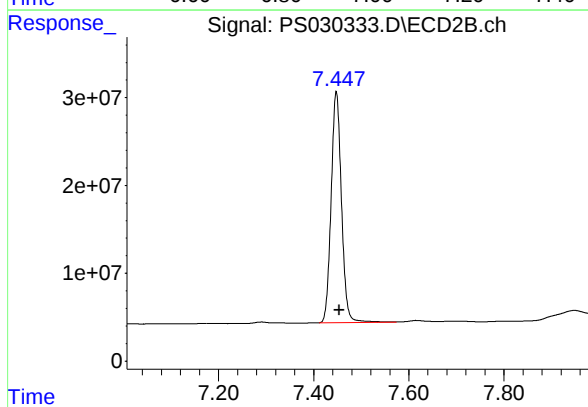




#4 2,4-DCAA

R.T.: 6.929 min
Delta R.T.: -0.004 min
Response: 1426453003
Conc: 500.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.448 min
Delta R.T.: -0.006 min
Response: 396605402
Conc: 495.63 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PS030358.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030358.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030358.D	1		05/22/25	PS052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	513		39 - 175	103%	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\PS052225\
 Data File : PS030358.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 May 2025 20:05
 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: May 22 22:43:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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

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

System Monitoring Compounds						
4) S 2,4-DCAA	6.928	7.446	1461.8E6	401.2E6	513.313	501.378

Target Compounds

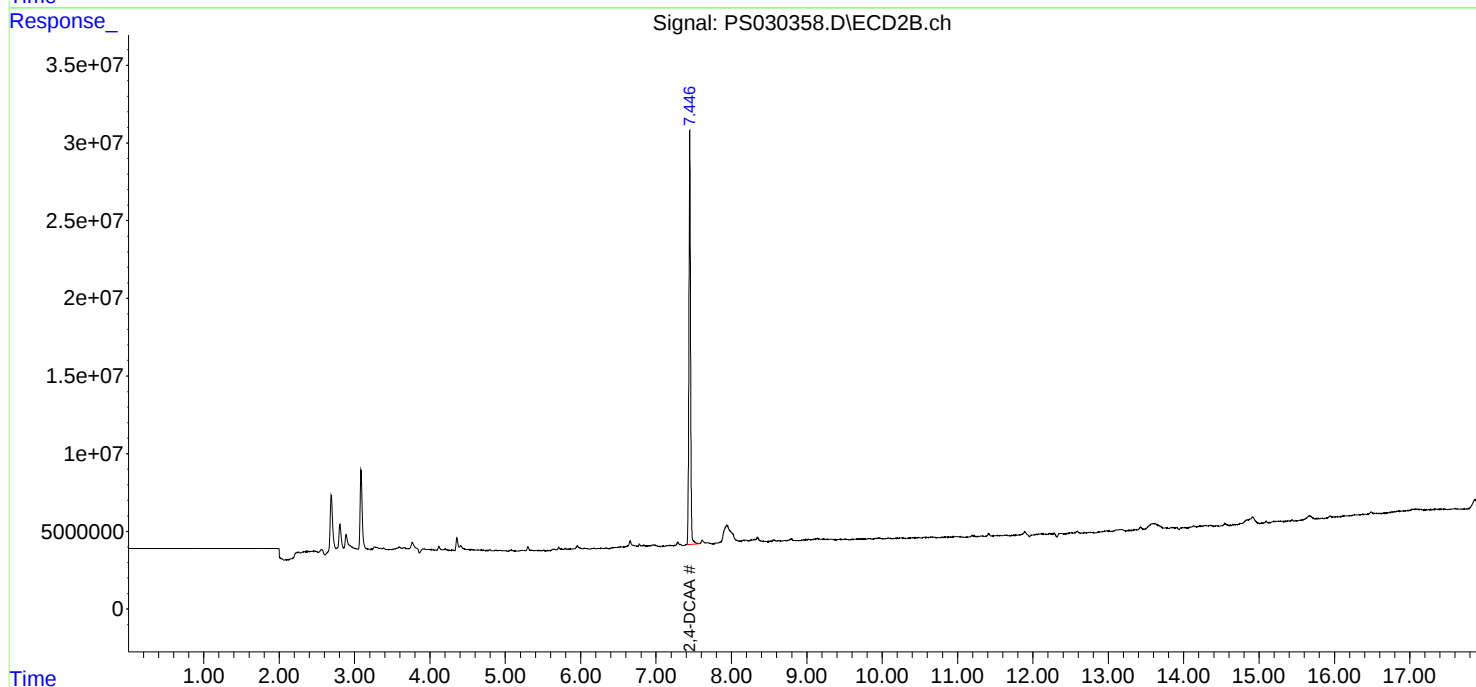
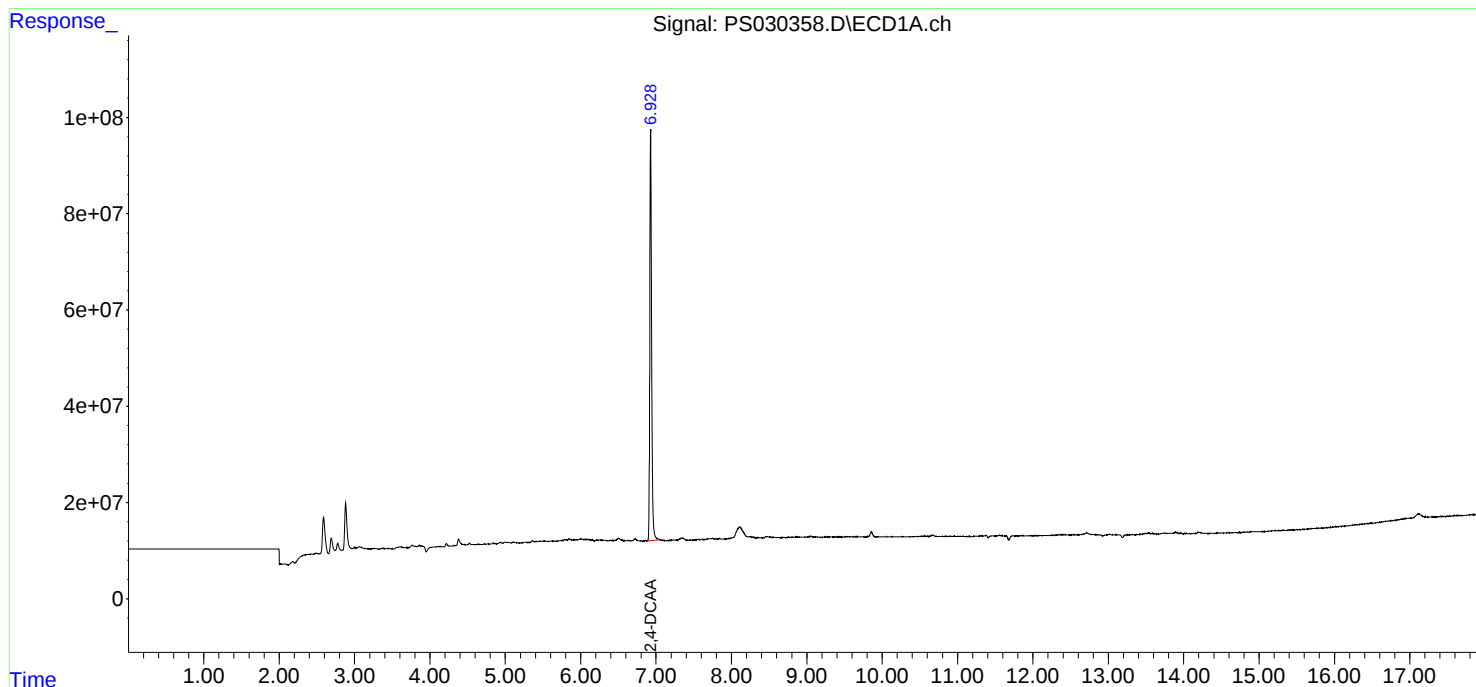
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

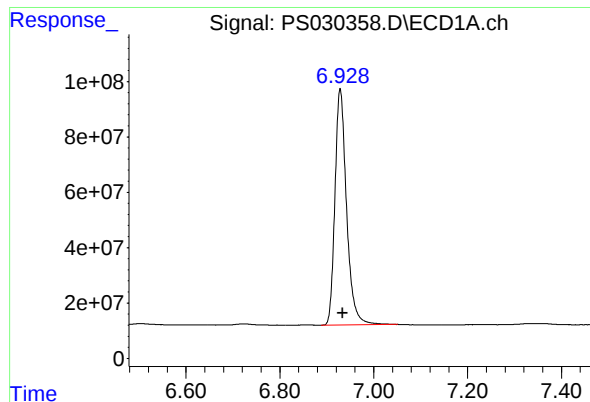
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030358.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 20:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:43:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

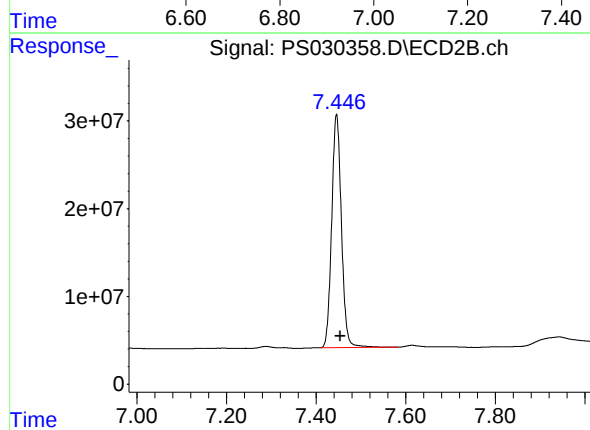




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 1461817279
Conc: 513.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.446 min
Delta R.T.: -0.008 min
Response: 401204146
Conc: 501.38 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-PS030368.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030368.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030368.D	1		05/23/25	PS052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	514		39 - 175	103%	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\PS052225\
 Data File : PS030368.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 00:29
 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: May 23 02:02:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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

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

System Monitoring Compounds

4) S	2,4-DCAA	6.928	7.446	1462.9E6	410.4E6	513.692	512.816
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Target Compounds

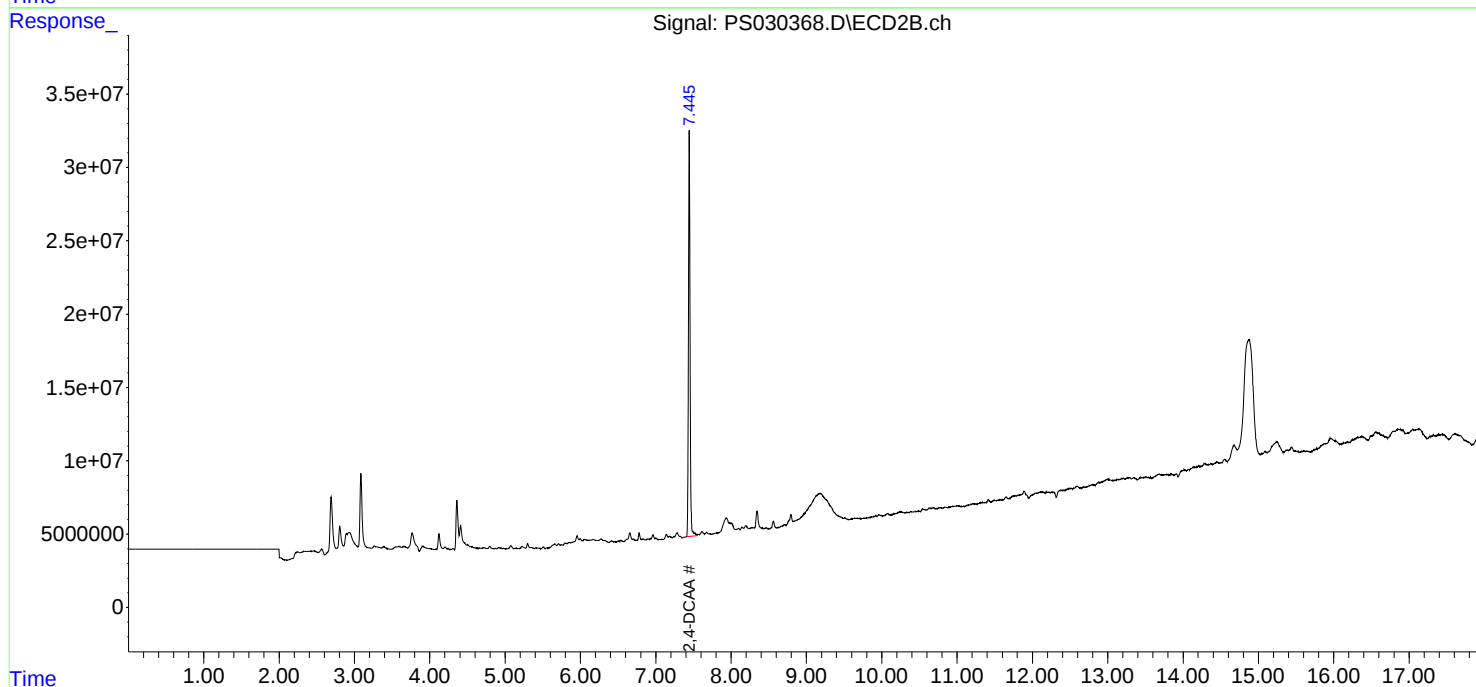
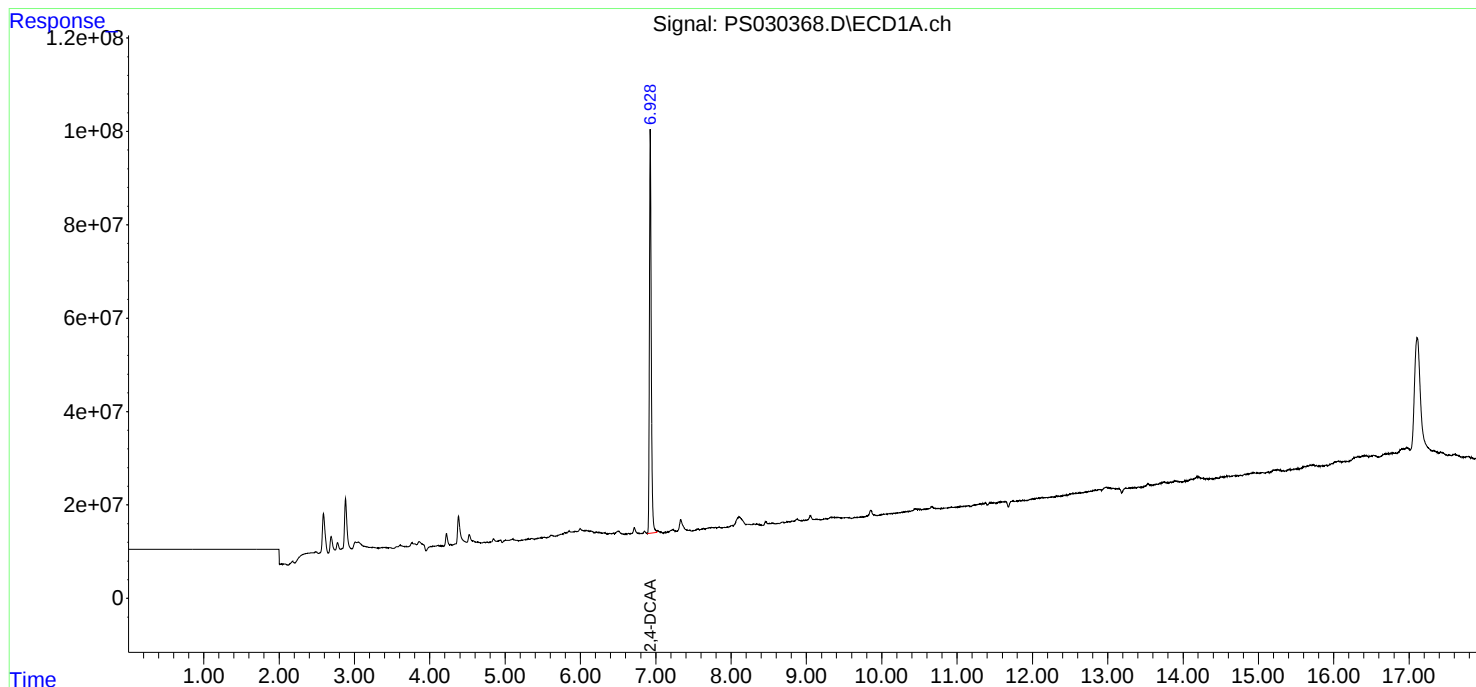
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

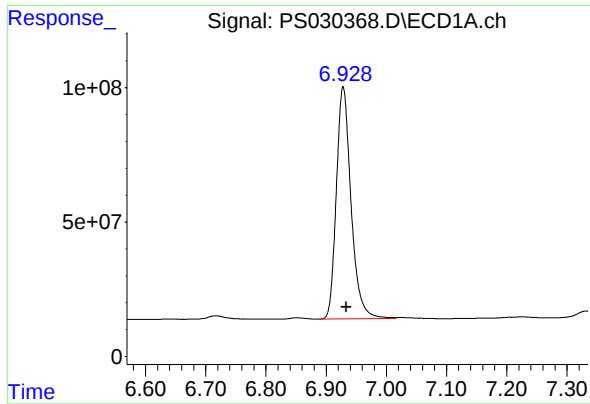
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030368.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 00:29
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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

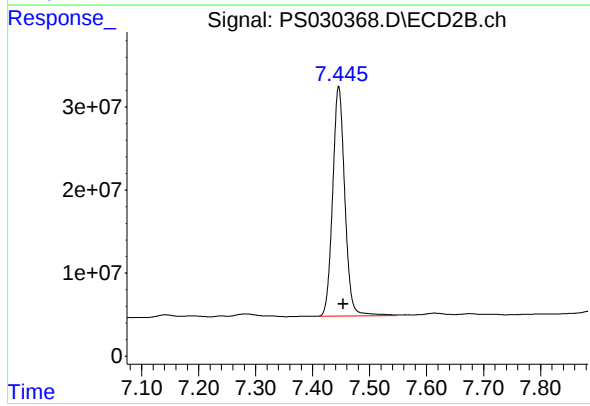




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 1462897877
Conc: 513.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.446 min
Delta R.T.: -0.008 min
Response: 410357173
Conc: 512.82 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168097BS	SDG No.:	Q2074
Lab Sample ID:	PB168097BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030316.D	1	05/21/25 08:30	05/21/25 16:56	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	169		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	167		12.8	67.0	ug/Kg
94-75-7	2,4-D	168		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	171		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	172		8.70	67.0	ug/Kg
94-82-6	2,4-DB	178		24.2	67.0	ug/Kg
88-85-7	DINOSEB	169		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	535		10 - 141	107%	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\PS051225\
 Data File : PS030316.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 16:56
 Operator : AR\AJ
 Sample : PB168097BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB168097BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:52:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.929	7.447	1523.7E6	404.8E6	535.056	505.873
Target Compounds							
1) T	Dalapon	2.444	2.518	2338.8E6	922.7E6	475.821	454.310
2) T	3,5-DICHL...	6.135	6.448	2061.6E6	520.5E6	494.317	446.496
3) T	4-Nitroph...	6.720	6.982	990.0E6	429.8E6	479.286	411.688
5) T	DICAMBA	7.105	7.632	5857.0E6	2258.4E6	506.775	477.659
6) T	MCPD	7.284	7.739	327.3E6	86272929	44.937	46.893
7) T	MCPA	7.426	7.968	493.5E6	123.9E6	47.538	46.987
8) T	DICHLORPROP	7.785	8.324	1464.0E6	558.0E6	501.138	472.310
9) T	2,4-D	8.005	8.636	1649.3E6	624.4E6	502.998	483.876
10) T	Pentachlo...	8.282	9.135	21408.9E6	12377.8E6	528.606	501.433
11) T	2,4,5-TP ...	8.846	9.513	8304.3E6	4857.6E6	512.739	493.140
12) T	2,4,5-T	9.127	9.917	8542.8E6	4493.1E6	517.270	488.190
13) T	2,4-DB	9.685	10.474	1393.7E6	417.5E6	534.041	420.724
14) T	DINOSEB	10.845	10.848	5795.5E6	3285.7E6	506.765	480.923
15) T	Picloram	10.666	11.882	10822.0E6	7896.0E6	506.009	561.070m
16) T	DCPA	11.147	11.878	10406.4E6	5591.3E6	522.632	413.851m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030316.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:56
Operator : AR\AJ
Sample : PB168097BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB168097BS

Manual Integrations

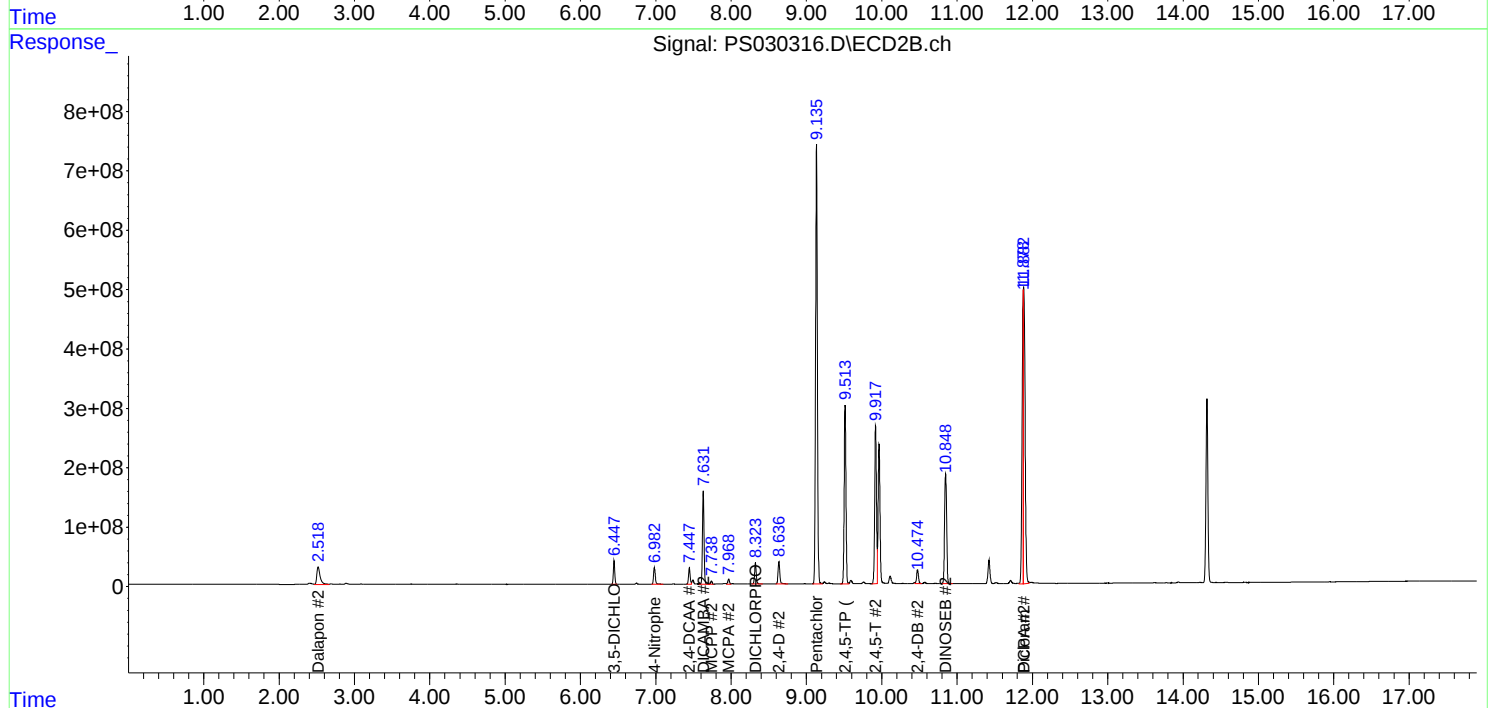
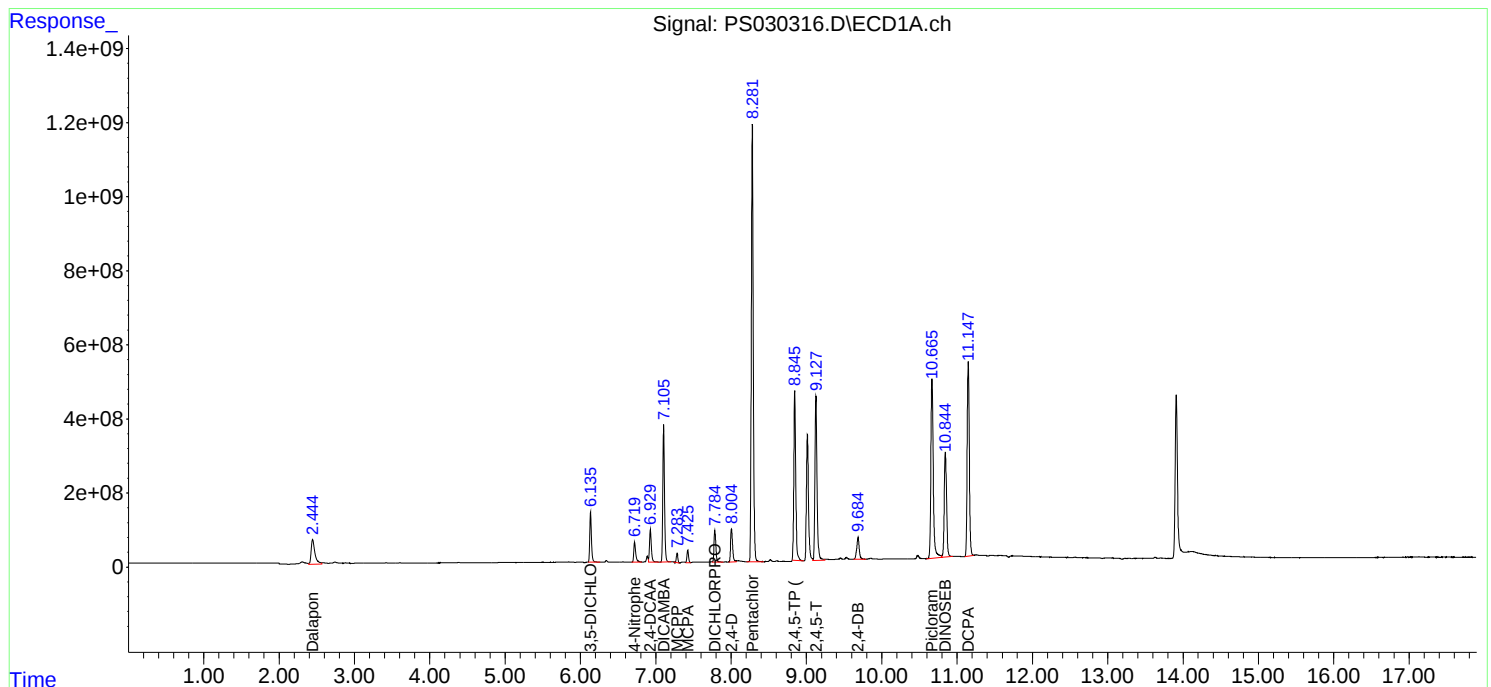
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	L1-WC-7MS	SDG No.:	Q2074
Lab Sample ID:	Q2071-01MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.6
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030326.D	1	05/21/25 08:30	05/21/25 22:09	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	150		8.90	77.3	ug/Kg
120-36-5	DICHLORPROP	164		14.8	77.3	ug/Kg
94-75-7	2,4-D	188		10.4	77.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	165		10.5	77.3	ug/Kg
93-76-5	2,4,5-T	158		10.0	77.3	ug/Kg
94-82-6	2,4-DB	198	P	27.9	77.3	ug/Kg
88-85-7	DINOSEB	16.4	JP	12.5	77.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	517		10 - 141	103%	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\PS051225\
 Data File : PS030326.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 22:09
 Operator : AR\AJ
 Sample : Q2071-01MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

L1-WC-7MS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:56:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.929	7.447	1471.8E6	319.8E6	516.803	399.587
Target Compounds							
1) T	Dalapon	2.442	2.512	1875.6E6	1584.5E6	381.581	780.123 #
2) T	3,5-DICHL...	6.135	6.447	1849.0E6	437.7E6	443.355	375.478m
3) T	4-Nitroph...	6.720	6.982	697.6E6	296.1E6	337.718	283.650
5) T	DICAMBA	7.105	7.632	4519.3E6	1830.8E6	391.032	387.224
6) T	MCPD	7.283	7.738	253.4E6	62247080	34.791	33.834
7) T	MCPA	7.424	7.967	400.1E6	102.0E6	38.544	38.683
8) T	DICHLORPROP	7.785	8.323	1244.0E6	481.4E6	425.826	407.439m
9) T	2,4-D	8.004	8.636	1601.8E6	586.1E6	488.514	454.197
10) T	Pentachlo...	8.281	9.135	15266.2E6	8737.8E6	376.935	353.972
11) T	2,4,5-TP ...	8.845	9.513	6706.2E6	4218.0E6	414.066	428.201
12) T	2,4,5-T	9.127	9.917	6800.6E6	3744.1E6	411.781	406.810
13) T	2,4-DB	9.686	10.474	1344.7E6	346.6E6	515.242	349.254m#
14) T	DINOSEB	10.845	10.844	486.7E6	224.0E6	42.556	32.780m
15) T	Picloram	10.665	11.878	7510.8E6	5745.4E6	351.184	408.255m
16) T	DCPA	11.146	11.877	8202.7E6	4096.1E6	411.960	303.179m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030326.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:09
Operator : AR\AJ
Sample : Q2071-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

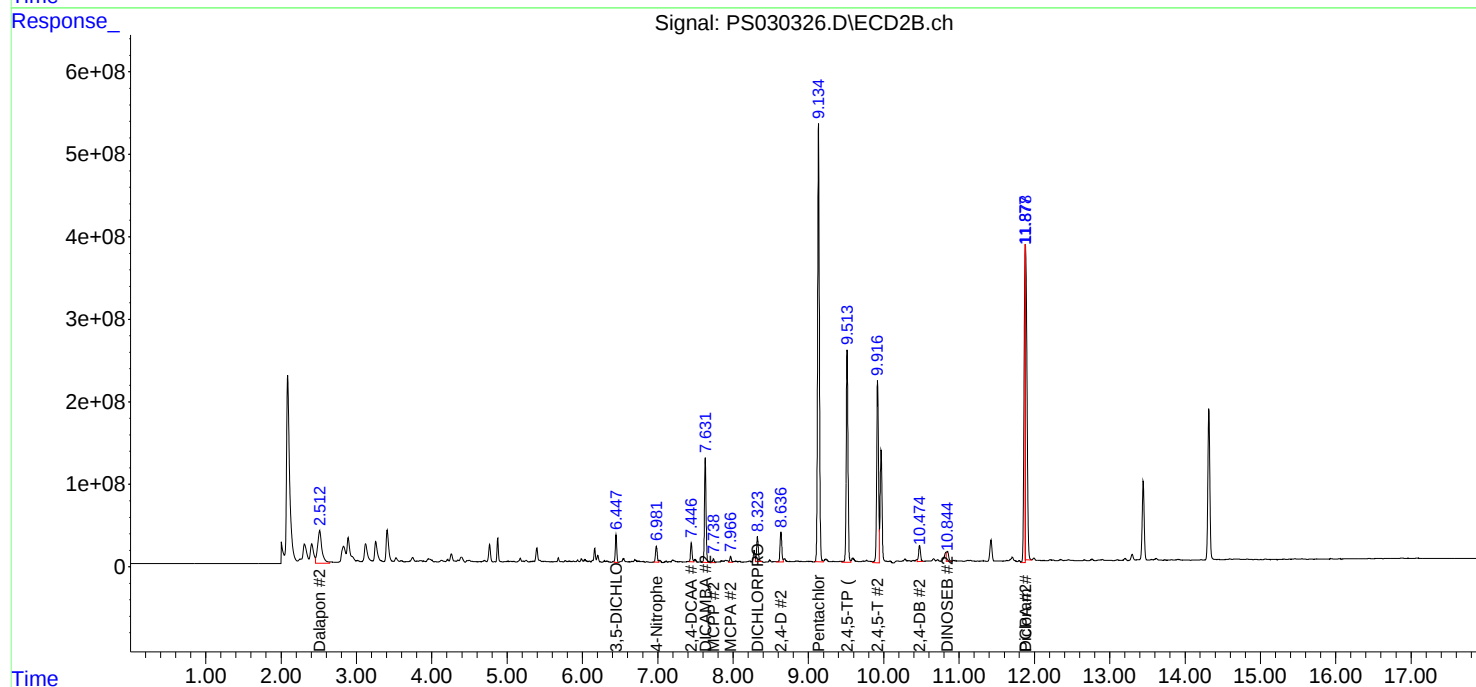
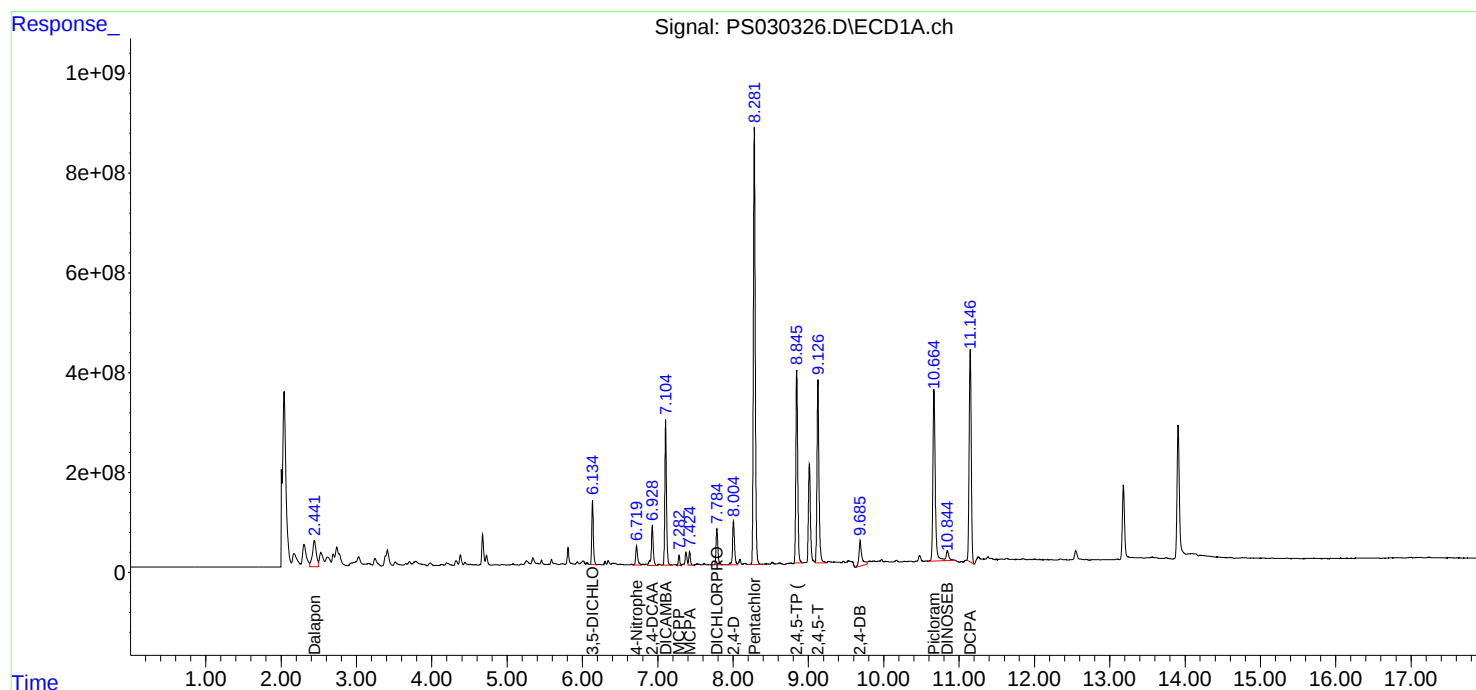
Instrument :
ECD_S
ClientSampleId :
L1-WC-7MS

Manual Integrations
APPROVED

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

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	L1-WC-7MSD	SDG No.:	Q2074
Lab Sample ID:	Q2071-01MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.6
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030327.D	1	05/21/25 08:30	05/21/25 22:33	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	151		8.90	77.3	ug/Kg
120-36-5	DICHLORPROP	165		14.8	77.3	ug/Kg
94-75-7	2,4-D	189		10.4	77.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	167		10.5	77.3	ug/Kg
93-76-5	2,4,5-T	160		10.0	77.3	ug/Kg
94-82-6	2,4-DB	198		27.9	77.3	ug/Kg
88-85-7	DINOSEB	15.8	J	12.5	77.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	518		10 - 141	104%	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\PS051225\
 Data File : PS030327.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 May 2025 22:33
 Operator : AR\AJ
 Sample : Q2071-01MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

L1-WC-7MSD

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 22 05:56:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 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	6.930	7.447	1475.1E6	322.2E6	517.981	402.604
Target Compounds							
1) T	Dalapon	2.442	2.513	1870.1E6	1415.6E6	380.453	696.976 #
2) T	3,5-DICHL...	6.135	6.448	1860.3E6	450.6E6	446.063	386.491m
3) T	4-Nitroph...	6.720	6.982	697.7E6	297.6E6	337.757	285.060
5) T	DICAMBA	7.106	7.632	4543.9E6	1848.2E6	393.159	390.914
6) T	MCP	7.283	7.739	258.5E6	63484102	35.493	34.507
7) T	MCPA	7.425	7.967	401.7E6	107.6E6	38.699	40.809
8) T	DICHLORPROP	7.785	8.323	1255.5E6	483.4E6	429.751	409.155m
9) T	2,4-D	8.005	8.636	1610.8E6	592.0E6	491.242	458.727
10) T	Pentachlo...	8.282	9.135	15356.1E6	8845.9E6	379.155	358.352
11) T	2,4,5-TP ...	8.845	9.514	6790.4E6	4267.7E6	419.264	433.253
12) T	2,4,5-T	9.128	9.917	6857.5E6	3793.2E6	415.223	412.142
13) T	2,4-DB	9.686	10.474	1342.5E6	426.7E6	514.395	430.027
14) T	DINOSEB	10.845	10.844	469.1E6	217.7E6	41.015	31.863m
15) T	Picloram	10.666	11.880	7562.4E6	5465.7E6	353.600	388.381m
16) T	DCPA	11.147	11.879	8272.5E6	4682.6E6	415.466	346.587m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051215\
Data File : PS030327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:33
Operator : AR\AJ
Sample : Q2071-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

L1-WC-7MSD

Manual Integrations

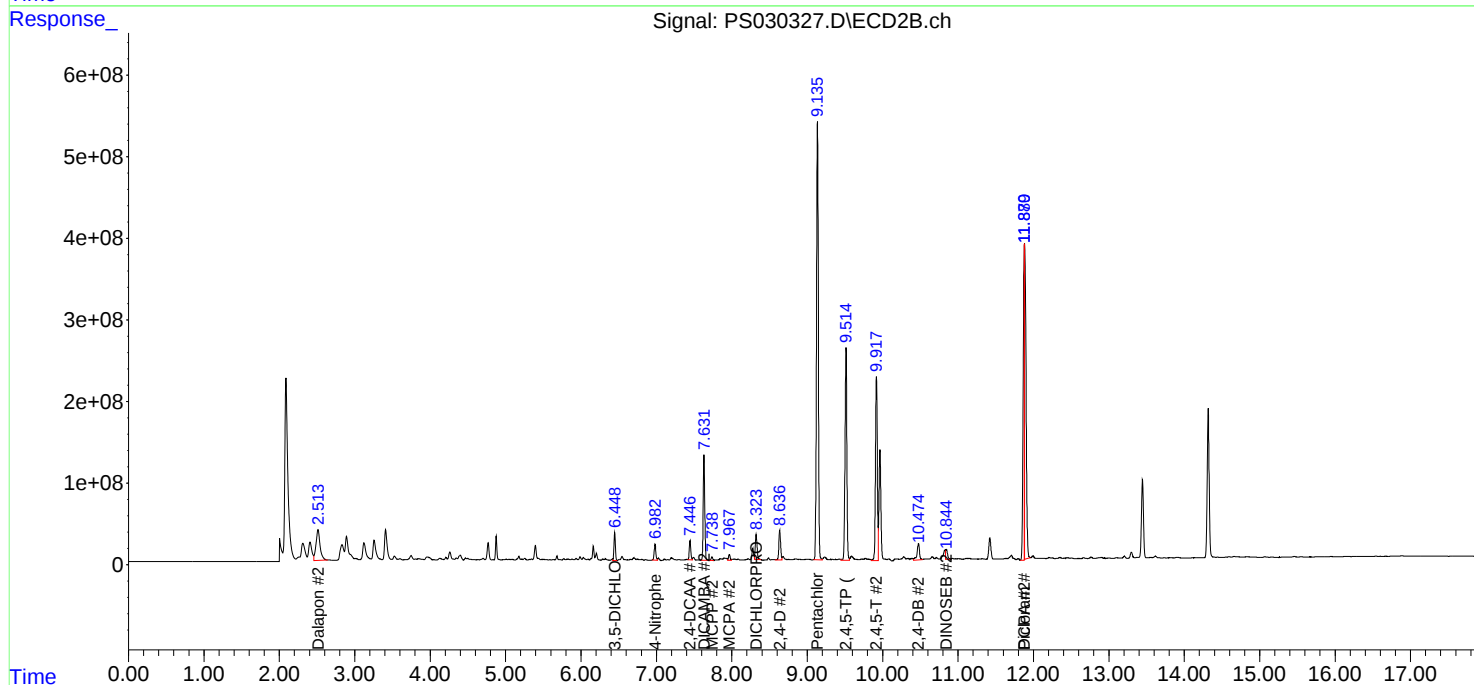
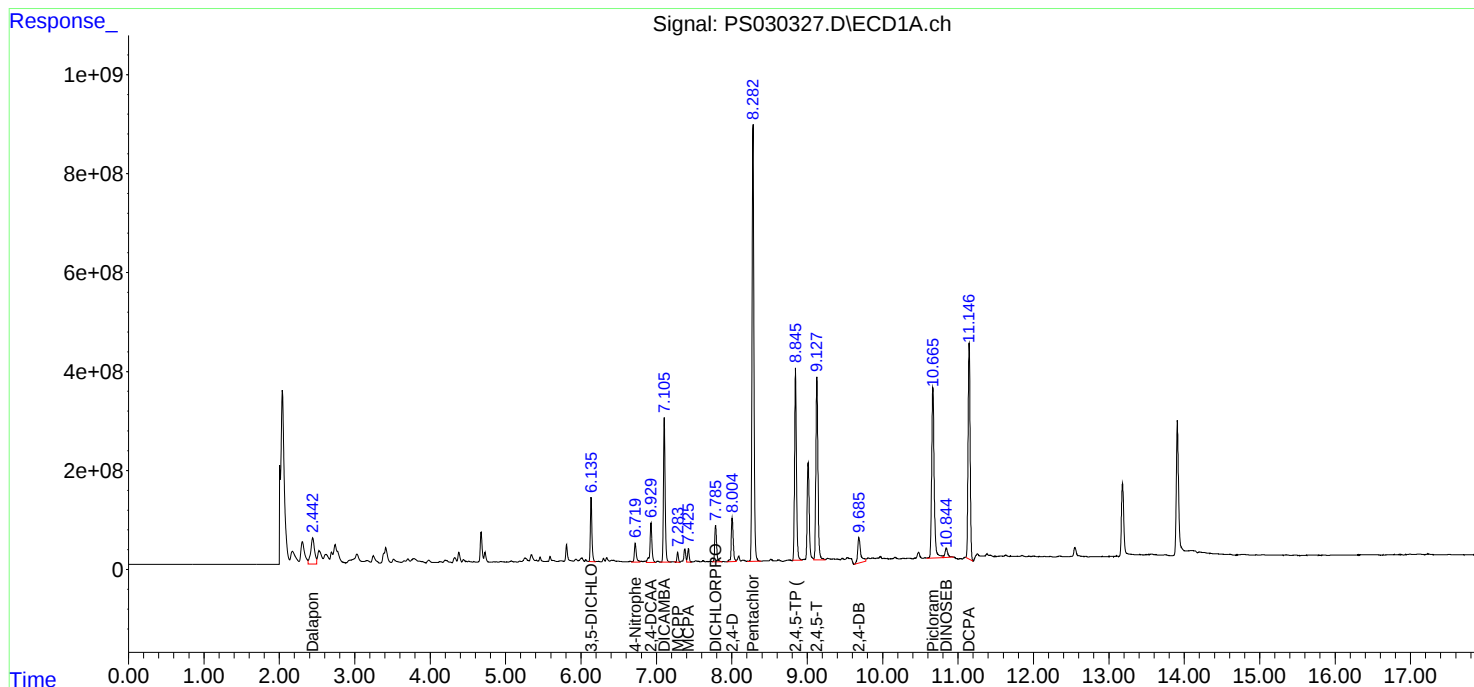
APPROVED

Reviewed By :Abdul Mirza 05/22/2025

Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PS051225	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS030125.D	DCPA #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC200	PS030125.D	Picloram #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	DCPA #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	Picloram #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	DCPA #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	Picloram #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	DCPA #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	Picloram #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	DCPA #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	Picloram #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	DCPA #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	Picloram #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030132.D	DCPA #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

Manual Integration Report

Sequence:	PS051225	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030132.D	Picloram #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	DCPA #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	Picloram #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	DCPA #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	Picloram #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

Manual Integration Report

Sequence:	ps052125	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030314.D	DCPA #2	Abdul	5/22/2025 8:05:06 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030314.D	Picloram #2	Abdul	5/22/2025 8:05:06 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
PB168097BS	PS030316.D	DCPA #2	Abdul	5/22/2025 8:05:10 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
PB168097BS	PS030316.D	Picloram #2	Abdul	5/22/2025 8:05:10 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030324.D	DCPA #2	Abdul	5/22/2025 8:05:41 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030324.D	Picloram #2	Abdul	5/22/2025 8:05:41 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	2,4-DB #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DCPA #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DICHLORPROP #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DINOSEB #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	Picloram #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	3,5-DICHLOROBENZOI C ACID #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software

Manual Integration Report

Sequence:

ps052125

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2071-01MSD	PS030327.D	DCPA #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	DICHLORPROP #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	DINOSEB #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	Picloram #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030334.D	DCPA #2	Abdul	5/22/2025 8:06:26 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030334.D	Picloram #2	Abdul	5/22/2025 8:06:26 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software

Manual Integration Report

Sequence:	PS052225	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030337.D	DCPA #2	Abdul	5/23/2025 8:21:41 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030337.D	Picloram #2	Abdul	5/23/2025 8:21:41 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030348.D	DCPA #2	Abdul	5/23/2025 9:02:57 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030348.D	Picloram #2	Abdul	5/23/2025 9:02:57 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030359.D	DCPA #2	Abdul	5/23/2025 8:22:51 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030359.D	Picloram #2	Abdul	5/23/2025 8:22:51 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-01	PS030360.D	2,4-DCAA #2	Abdul	5/23/2025 8:22:55 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-03	PS030362.D	2,4-DCAA #2	Abdul	5/23/2025 8:22:59 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-04	PS030363.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:03 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-07	PS030366.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:07 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-08	PS030367.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:13 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030369.D	DCPA #2	Abdul	5/23/2025 9:03:01 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030369.D	Picloram #2	Abdul	5/23/2025 9:03:01 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software



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

Manual Integration Report

Sequence:

PS052225

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 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	PS030123.D	12 May 2025 11:42	AR\AJ	Ok
2	I.BLK	PS030124.D	12 May 2025 12:06	AR\AJ	Ok
3	HSTDICC200	PS030125.D	12 May 2025 12:30	AR\AJ	Ok,M
4	HSTDICC500	PS030126.D	12 May 2025 12:54	AR\AJ	Ok,M
5	HSTDICC750	PS030127.D	12 May 2025 13:18	AR\AJ	Ok,M
6	HSTDICC1000	PS030128.D	12 May 2025 13:42	AR\AJ	Ok,M
7	HSTDICC1500	PS030129.D	12 May 2025 14:06	AR\AJ	Ok,M
8	HSTDICV750	PS030130.D	12 May 2025 14:30	AR\AJ	Ok,M
9	I.BLK	PS030131.D	12 May 2025 14:54	AR\AJ	Ok
10	HSTDCCC750	PS030132.D	12 May 2025 15:18	AR\AJ	Ok,M
11	Q1972-01	PS030133.D	12 May 2025 15:42	AR\AJ	ReRun
12	Q1972-01RE	PS030134.D	12 May 2025 16:58	AR\AJ	Confirms
13	Q1972-05	PS030135.D	12 May 2025 17:46	AR\AJ	Ok,M
14	Q1972-05RE	PS030136.D	12 May 2025 18:10	AR\AJ	Not Ok
15	I.BLK	PS030137.D	12 May 2025 18:34	AR\AJ	Ok
16	HSTDCCC750	PS030138.D	12 May 2025 18:58	AR\AJ	Ok,M
17	PB167968BL	PS030139.D	12 May 2025 19:46	AR\AJ	Ok,M
18	PB167968BS	PS030140.D	12 May 2025 20:10	AR\AJ	Ok,M
19	PB167851TB	PS030141.D	12 May 2025 20:34	AR\AJ	Ok
20	Q1956-05	PS030142.D	12 May 2025 20:59	AR\AJ	Ok,M
21	Q1956-05MS	PS030143.D	12 May 2025 21:23	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 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	Q1956-05MSD	PS030144.D	12 May 2025 21:47	AR\AJ	Ok,M
23	I.BLK	PS030145.D	12 May 2025 22:11	AR\AJ	Ok
24	HSTDCCC750	PS030146.D	12 May 2025 22:35	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM
SubDirectory	PS052125	HP Acquire Method	HP Processing Method ps051225 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	PS030312.D	21 May 2025 09:57	AR\AJ	Ok
2	I.BLK	PS030313.D	21 May 2025 10:21	AR\AJ	Ok
3	HSTDCCC750	PS030314.D	21 May 2025 15:25	AR\AJ	Ok,M
4	PB168097BL	PS030315.D	21 May 2025 16:32	AR\AJ	Ok
5	PB168097BS	PS030316.D	21 May 2025 16:56	AR\AJ	Ok,M
6	Q2062-01	PS030317.D	21 May 2025 17:20	AR\AJ	Ok,M
7	Q2062-05	PS030318.D	21 May 2025 17:44	AR\AJ	Ok,M
8	Q2062-09	PS030319.D	21 May 2025 18:08	AR\AJ	Ok,M
9	Q2062-13	PS030320.D	21 May 2025 18:32	AR\AJ	Ok,M
10	Q2062-17	PS030321.D	21 May 2025 18:56	AR\AJ	Ok,M
11	Q2062-21	PS030322.D	21 May 2025 19:20	AR\AJ	Not Ok
12	I.BLK	PS030323.D	21 May 2025 19:44	AR\AJ	Ok
13	HSTDCCC750	PS030324.D	21 May 2025 20:32	AR\AJ	Ok,M
14	Q2071-01	PS030325.D	21 May 2025 21:45	AR\AJ	Ok,M
15	Q2071-01MS	PS030326.D	21 May 2025 22:09	AR\AJ	Ok,M
16	Q2071-01MSD	PS030327.D	21 May 2025 22:33	AR\AJ	Ok,M
17	Q2071-05	PS030328.D	21 May 2025 22:57	AR\AJ	Ok,M
18	Q2071-09	PS030329.D	21 May 2025 23:21	AR\AJ	Ok,M
19	Q2071-13	PS030330.D	21 May 2025 23:45	AR\AJ	Ok
20	Q2071-17	PS030331.D	22 May 2025 00:09	AR\AJ	Ok,M
21	Q2084-01	PS030332.D	22 May 2025 00:33	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM
SubDirectory	PS052125	HP Acquire Method	HP Processing Method ps051225 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	I.BLK	PS030333.D	22 May 2025 00:57	AR\AJ	Ok
23	HSTDCCC750	PS030334.D	22 May 2025 01:45	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM
SubDirectory	PS052225	HP Acquire Method	HP Processing Method ps051225 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	PS030335.D	22 May 2025 08:43	AR\AJ	Ok
2	I.BLK	PS030336.D	22 May 2025 09:07	AR\AJ	Ok
3	HSTDCCC750	PS030337.D	22 May 2025 09:31	AR\AJ	Ok,M
4	Q2080-12	PS030338.D	22 May 2025 09:58	AR\AJ	Ok,M
5	Q2080-06	PS030339.D	22 May 2025 10:22	AR\AJ	Ok,M
6	Q2062-21	PS030340.D	22 May 2025 12:22	AR\AJ	Ok,M
7	Q2080-06MS	PS030341.D	22 May 2025 13:15	AR\AJ	Ok,M
8	Q2080-06MSD	PS030342.D	22 May 2025 13:39	AR\AJ	Ok,M
9	PB168120BL	PS030343.D	22 May 2025 14:03	AR\AJ	Ok,M
10	PB168120BS	PS030344.D	22 May 2025 14:28	AR\AJ	Ok,M
11	PB168067TB	PS030345.D	22 May 2025 14:52	AR\AJ	Ok,M
12	PB168092TB	PS030346.D	22 May 2025 15:16	AR\AJ	Ok,M
13	I.BLK	PS030347.D	22 May 2025 15:40	AR\AJ	Ok
14	HSTDCCC750	PS030348.D	22 May 2025 16:04	AR\AJ	Ok,M
15	Q2084-05	PS030349.D	22 May 2025 16:28	AR\AJ	Ok
16	Q2078-03	PS030350.D	22 May 2025 16:52	AR\AJ	Ok
17	Q2078-07	PS030351.D	22 May 2025 17:16	AR\AJ	Ok,M
18	Q2078-11	PS030352.D	22 May 2025 17:40	AR\AJ	Ok,M
19	Q2078-15	PS030353.D	22 May 2025 18:04	AR\AJ	Ok,M
20	Q2078-19	PS030354.D	22 May 2025 18:28	AR\AJ	Ok,M
21	Q2079-03	PS030355.D	22 May 2025 18:52	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM
SubDirectory	PS052225	HP Acquire Method	HP Processing Method ps051225 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	Q2079-07	PS030356.D	22 May 2025 19:16	AR\AJ	Ok,M
23	Q2079-11	PS030357.D	22 May 2025 19:41	AR\AJ	Ok,M
24	I.BLK	PS030358.D	22 May 2025 20:05	AR\AJ	Ok
25	HSTDCCC750	PS030359.D	22 May 2025 20:29	AR\AJ	Ok,M
26	Q2074-01	PS030360.D	22 May 2025 21:17	AR\AJ	Ok,M
27	Q2074-02	PS030361.D	22 May 2025 21:41	AR\AJ	Ok
28	Q2074-03	PS030362.D	22 May 2025 22:05	AR\AJ	Ok,M
29	Q2074-04	PS030363.D	22 May 2025 22:29	AR\AJ	Ok,M
30	Q2074-05	PS030364.D	22 May 2025 22:53	AR\AJ	Ok
31	Q2074-06	PS030365.D	22 May 2025 23:17	AR\AJ	Ok
32	Q2074-07	PS030366.D	22 May 2025 23:41	AR\AJ	Ok,M
33	Q2074-08	PS030367.D	23 May 2025 00:05	AR\AJ	Ok,M
34	I.BLK	PS030368.D	23 May 2025 00:29	AR\AJ	Ok
35	HSTDCCC750	PS030369.D	23 May 2025 00:54	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 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	PS030123.D	12 May 2025 11:42		AR\AJ	Ok
2	I.BLK	I.BLK	PS030124.D	12 May 2025 12:06		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS030125.D	12 May 2025 12:30		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS030126.D	12 May 2025 12:54		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS030127.D	12 May 2025 13:18		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS030128.D	12 May 2025 13:42		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS030129.D	12 May 2025 14:06		AR\AJ	Ok,M
8	HSTDICV750	ICVPS051225	PS030130.D	12 May 2025 14:30		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030131.D	12 May 2025 14:54		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030132.D	12 May 2025 15:18		AR\AJ	Ok,M
11	Q1972-01	SUB-WC	PS030133.D	12 May 2025 15:42	Surrogate high in both column	AR\AJ	ReRun
12	Q1972-01RE	SUB-WCRE	PS030134.D	12 May 2025 16:58	Surrogate high in both column	AR\AJ	Confirms
13	Q1972-05	WC-B-10	PS030135.D	12 May 2025 17:46		AR\AJ	Ok,M
14	Q1972-05RE	WC-B-10RE	PS030136.D	12 May 2025 18:10	not needed	AR\AJ	Not Ok
15	I.BLK	I.BLK	PS030137.D	12 May 2025 18:34		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS030138.D	12 May 2025 18:58		AR\AJ	Ok,M
17	PB167968BL	PB167968BL	PS030139.D	12 May 2025 19:46		AR\AJ	Ok,M
18	PB167968BS	PB167968BS	PS030140.D	12 May 2025 20:10		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 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		

19	PB167851TB	PB167851TB	PS030141.D	12 May 2025 20:34		AR\AJ	Ok
20	Q1956-05	COMP1	PS030142.D	12 May 2025 20:59		AR\AJ	Ok,M
21	Q1956-05MS	COMP1MS	PS030143.D	12 May 2025 21:23	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
22	Q1956-05MSD	COMP1MSD	PS030144.D	12 May 2025 21:47	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
23	I.BLK	I.BLK	PS030145.D	12 May 2025 22:11		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS030146.D	12 May 2025 22:35		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM
SubDirectory	PS052125	HP Acquire Method	HP Processing Method ps051225 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	PS030312.D	21 May 2025 09:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS030313.D	21 May 2025 10:21		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030314.D	21 May 2025 15:25		AR\AJ	Ok,M
4	PB168097BL	PB168097BL	PS030315.D	21 May 2025 16:32		AR\AJ	Ok
5	PB168097BS	PB168097BS	PS030316.D	21 May 2025 16:56		AR\AJ	Ok,M
6	Q2062-01	L1-WC-1	PS030317.D	21 May 2025 17:20		AR\AJ	Ok,M
7	Q2062-05	L1-WC-2	PS030318.D	21 May 2025 17:44		AR\AJ	Ok,M
8	Q2062-09	L1-WC-3	PS030319.D	21 May 2025 18:08		AR\AJ	Ok,M
9	Q2062-13	L1-WC-4	PS030320.D	21 May 2025 18:32		AR\AJ	Ok,M
10	Q2062-17	L1-WC-5	PS030321.D	21 May 2025 18:56		AR\AJ	Ok,M
11	Q2062-21	L1-WC-6	PS030322.D	21 May 2025 19:20	Surrogate low in both column	AR\AJ	Not Ok
12	I.BLK	I.BLK	PS030323.D	21 May 2025 19:44		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS030324.D	21 May 2025 20:32		AR\AJ	Ok,M
14	Q2071-01	L1-WC-7	PS030325.D	21 May 2025 21:45		AR\AJ	Ok,M
15	Q2071-01MS	L1-WC-7MS	PS030326.D	21 May 2025 22:09	Comp#3,14 recovery fail	AR\AJ	Ok,M
16	Q2071-01MSD	L1-WC-7MSD	PS030327.D	21 May 2025 22:33	Comp#3,14 recovery fail	AR\AJ	Ok,M
17	Q2071-05	L1-WC-8	PS030328.D	21 May 2025 22:57		AR\AJ	Ok,M
18	Q2071-09	L1-WC-9	PS030329.D	21 May 2025 23:21		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM
SubDirectory	PS052125	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC	PP24559		
Internal Standard/PEM	PP24562		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2071-13	L2-WC-5	PS030330.D	21 May 2025 23:45		AR\AJ	Ok
20	Q2071-17	L2-WC-6	PS030331.D	22 May 2025 00:09		AR\AJ	Ok,M
21	Q2084-01	OR-640-COMP-66	PS030332.D	22 May 2025 00:33		AR\AJ	Ok,M
22	I.BLK	I.BLK	PS030333.D	22 May 2025 00:57		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS030334.D	22 May 2025 01:45		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM
SubDirectory	PS052225	HP Acquire Method	HP Processing Method ps051225 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	PS030335.D	22 May 2025 08:43		AR\AJ	Ok
2	I.BLK	I.BLK	PS030336.D	22 May 2025 09:07		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030337.D	22 May 2025 09:31		AR\AJ	Ok,M
4	Q2080-12	PL-HRH-COMP-02	PS030338.D	22 May 2025 09:58		AR\AJ	Ok,M
5	Q2080-06	PL-HRH-COMP-01	PS030339.D	22 May 2025 10:22		AR\AJ	Ok,M
6	Q2062-21	L1-WC-6	PS030340.D	22 May 2025 12:22		AR\AJ	Ok,M
7	Q2080-06MS	PL-HRH-COMP-01MS	PS030341.D	22 May 2025 13:15	Comp #3 Recovery fail	AR\AJ	Ok,M
8	Q2080-06MSD	PL-HRH-COMP-01MSD	PS030342.D	22 May 2025 13:39	Comp #3 Recovery fail	AR\AJ	Ok,M
9	PB168120BL	PB168120BL	PS030343.D	22 May 2025 14:03		AR\AJ	Ok,M
10	PB168120BS	PB168120BS	PS030344.D	22 May 2025 14:28		AR\AJ	Ok,M
11	PB168067TB	PB168067TB	PS030345.D	22 May 2025 14:52		AR\AJ	Ok,M
12	PB168092TB	PB168092TB	PS030346.D	22 May 2025 15:16		AR\AJ	Ok,M
13	I.BLK	I.BLK	PS030347.D	22 May 2025 15:40		AR\AJ	Ok
14	HSTDCCC750	HSTDCCC750	PS030348.D	22 May 2025 16:04		AR\AJ	Ok,M
15	Q2084-05	OR-640-COMP-66	PS030349.D	22 May 2025 16:28		AR\AJ	Ok
16	Q2078-03	WC-A4-04-C	PS030350.D	22 May 2025 16:52		AR\AJ	Ok
17	Q2078-07	WC-A4-05-C	PS030351.D	22 May 2025 17:16		AR\AJ	Ok,M
18	Q2078-11	WC-A1-06A-C	PS030352.D	22 May 2025 17:40		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM
SubDirectory	PS052225	HP Acquire Method	HP Processing Method ps051225 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		

19	Q2078-15	WC-A1-07A-C	PS030353.D	22 May 2025 18:04		AR\AJ	Ok,M
20	Q2078-19	WC-A4-06-C	PS030354.D	22 May 2025 18:28		AR\AJ	Ok,M
21	Q2079-03	WC-A2-01-C	PS030355.D	22 May 2025 18:52		AR\AJ	Ok,M
22	Q2079-07	WC-A2-02-C	PS030356.D	22 May 2025 19:16		AR\AJ	Ok,M
23	Q2079-11	WC-A2-03-C	PS030357.D	22 May 2025 19:41		AR\AJ	Ok,M
24	I.BLK	I.BLK	PS030358.D	22 May 2025 20:05		AR\AJ	Ok
25	HSTDCCC750	HSTDCCC750	PS030359.D	22 May 2025 20:29		AR\AJ	Ok,M
26	Q2074-01	TP-12	PS030360.D	22 May 2025 21:17		AR\AJ	Ok,M
27	Q2074-02	TP-7	PS030361.D	22 May 2025 21:41		AR\AJ	Ok
28	Q2074-03	TP-15	PS030362.D	22 May 2025 22:05		AR\AJ	Ok,M
29	Q2074-04	TP-20	PS030363.D	22 May 2025 22:29		AR\AJ	Ok,M
30	Q2074-05	TP-38	PS030364.D	22 May 2025 22:53		AR\AJ	Ok
31	Q2074-06	TP-19	PS030365.D	22 May 2025 23:17		AR\AJ	Ok
32	Q2074-07	TP-40	PS030366.D	22 May 2025 23:41		AR\AJ	Ok,M
33	Q2074-08	TP-18	PS030367.D	23 May 2025 00:05		AR\AJ	Ok,M
34	I.BLK	I.BLK	PS030368.D	23 May 2025 00:29		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS030369.D	23 May 2025 00:54		AR\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135825

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1984-19	OU4-TB01-050725	1	1.00	1.00	2.00	2.00	100.0	T.B.
Q2074-01	TP-12	2	1.18	10.28	11.46	9.76	83.5	
Q2074-02	TP-7	3	1.18	10.15	11.33	10.18	88.7	
Q2074-03	TP-15	4	1.13	10.33	11.46	10.12	87.0	
Q2074-04	TP-20	5	1.12	10.65	11.77	10.1	84.3	
Q2074-05	TP-38	6	1.18	10.19	11.37	9.53	81.9	
Q2074-06	TP-19	7	1.16	10.12	11.28	9.85	85.9	
Q2074-07	TP-40	8	1.14	9.89	11.03	9.96	89.2	
Q2074-08	TP-18	9	1.15	10.16	11.31	9.07	78.0	
Q2075-01	SS-10	10	1.16	10.56	11.72	9.59	79.8	
Q2075-02	SS-910	11	1.17	10.05	11.22	9.34	81.3	
Q2075-03	SS-11	12	1.18	10.51	11.69	10.37	87.4	
Q2075-04	Q2075-03MS	13	1.18	10.51	11.69	10.37	87.4	
Q2075-05	Q2075-03MSD	14	1.18	10.51	11.69	10.37	87.4	
Q2075-06	SS-MW1-11.5	15	1.14	10.00	11.14	10.24	91.0	
Q2076-01	OILY-DEBRIS	16	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2080-01	PL-HRH-COMP-01	17	1.13	10.62	11.75	10.32	86.5	
Q2080-02	PL-HRH-VOC-01	18	1.17	10.22	11.39	9.6	82.5	
Q2080-03	PL-HRH-01	19	1.12	10.77	11.89	10.16	83.9	
Q2080-04	PL-HRH-02	20	1.16	10.40	11.56	9.82	83.3	
Q2080-05	PL-HRH-03	21	1.15	10.00	11.15	9.43	82.8	
Q2080-07	PL-HRH-COMP-02	22	1.19	10.46	11.65	9.62	80.6	
Q2080-08	PL-HRH-VOC-02	23	1.14	10.76	11.9	9.8	80.5	
Q2080-09	PL-HRH-04	24	1.16	10.70	11.86	9.55	78.4	
Q2080-10	PL-HRH-05	25	1.19	10.43	11.62	9.52	79.9	
Q2080-11	PL-HRH-06	26	1.13	10.74	11.87	10.2	84.5	
Q2081-01	CAULK	27	1.00	1.00	2.00	2.00	100.0	caluk

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

WORKLIST(Hardcopy Internal Chain)

W 135825

WorkList Name : %1-051925 WorkList ID : 189586 Department : Wet-Chemistry Date : 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-19	OU4-TB01-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q2074-01	TP-12	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-02	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-03	TP-15	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-04	TP-20	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-05	TP-38	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-06	TP-19	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-07	TP-40	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-08	TP-18	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-01	SS-10	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-02	SS-910	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-03	SS-11	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-04	Q2075-03MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-05	Q2075-03MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-06	SS-MW1-11.5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2076-01	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-01	PL-HRH-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-02	PL-HRH-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-03	PL-HRH-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-04	PL-HRH-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-05	PL-HRH-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO

Date/Time 05-19-25 15:35
 Raw Sample Received by: W 135825
 Raw Sample Relinquished by: W 135825

WORKLIST(Hardcopy Internal Chain)

135825

WorkList Name : %1-051925 WorkList ID : 189586 Department : Wet-Chemistry Date : 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2080-07	PL-HRH-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-08	PL-HRH-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-09	PL-HRH-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-10	PL-HRH-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-11	PL-HRH-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2081-01	CAULK	Solid	Percent Solids	Cool 4 deg C	ATCE02	L31	05/19/2025	Chemtech -SO

151255

Date/Time 05-19-25
Raw Sample Received by: SP
Raw Sample Relinquished by: SP

Date/Time 05-19-25
Raw Sample Received by: CP
Raw Sample Relinquished by: SP

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,4,5,7

Extraction Start Date : 05/21/2025

Extraction Start Time : 08:30

Extraction End Date : 05/21/2025

Extraction End Time : 16:00

Concentration By: EH

Supervisor By : RUPESH

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24484
Surrogate	1.0ML	5000 PPB	PP24552
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Acidified Na2SO4	N/A	EP2576
Sand	N/A	E2865
HCL	N/A	M6151
DI WATER	N/A	N/A
37% KOH	N/A	EP2594
Methylene Chloride	N/A	E3930
1:3 SULPHURIC ACID	N/A	EP2598
Ether	N/A	E3881
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2608
Hexane	N/A	E3934
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ML Vial Lot # 03-40 BTS723.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/21/25	RS (Ext-Lab)	RS (Ext-Lab)
16:05	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 05/21/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168097BL	HBLK097	Herbicide	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168097BS	HLCS097	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
Q2062-01	L1-WC-1	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		3
Q2062-05	L1-WC-2	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		4
Q2062-09	L1-WC-3	Herbicide	30.02	N/A	ritesh	Evelyn	10	D		5
Q2062-13	L1-WC-4	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		6
Q2062-17	L1-WC-5	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		U3-1
Q2062-21	L1-WC-6	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		2
Q2071-01	L1-WC-7	Herbicide	30.04	N/A	ritesh	Evelyn	10	D		3
Q2071-01MS	L1-WC-7MS	Herbicide	30.01	N/A	ritesh	Evelyn	10	D		4
Q2071-01MS D	L1-WC-7MSD	Herbicide	30.03	N/A	ritesh	Evelyn	10	D		5
Q2071-05	L1-WC-8	Herbicide	30.05	N/A	ritesh	Evelyn	10	D		6
Q2071-09	L1-WC-9	Herbicide	30.08	N/A	ritesh	Evelyn	10	D		U6-1
Q2071-13	L2-WC-5	Herbicide	30.02	N/A	ritesh	Evelyn	10	B		2
Q2071-17	L2-WC-6	Herbicide	30.04	N/A	ritesh	Evelyn	10	D		3
Q2074-01	TP-12	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		4
Q2074-02	TP-7	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		5
Q2074-03	TP-15	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		6
Q2074-04	TP-20	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		U1-1
Q2074-05	TP-38	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		2
Q2074-06	TP-19	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		3
Q2074-07	TP-40	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		4
Q2074-08	TP-18	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		5
Q2084-01	OR-640-COMP-66	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		6



RS
5/21

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2062H

WorkList ID : 189659

Department : Extraction

Date : 05-21-2025 08:25:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2062-01	L1-WC-1	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-05	L1-WC-2	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-09	L1-WC-3	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-13	L1-WC-4	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-17	L1-WC-5	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-21	L1-WC-6	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2071-01	L1-WC-7	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2071-05	L1-WC-8	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-09	L1-WC-9	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-13	L2-WC-5	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-17	L2-WC-6	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2074-01	TP-12	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2074-02	TP-7	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-03	TP-15	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-04	TP-20	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-05	TP-38	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-06	TP-19	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-07	TP-40	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-08	TP-18	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2084-01	OR-640-COMP-66	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/19/2025	8151A

Date/Time 05/21/25 8:25
 Raw Sample Received by: RJ (EXT-106)
 Raw Sample Relinquished by: [Signature]

Date/Time 05/21/25 9:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RJ (EXT-106)

Prep Standard - Chemical Standard Summary

Order ID : Q2074

Test : Herbicide

Prepbatch ID : PB168097,

Sequence ID/Qc Batch ID: ps052125,PS052225,

Standard ID :

EP2576,EP2612,PP24484,PP24552,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,

Chemical ID :

E2865,E3370,E3551,E3929,E3930,E3932,E3933,M5173,M6151,P11182,P11183,P12620,P12630,P12689,P12710,P13532,P13533,P13534,P13968,P13969,P13971,P8829,

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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24484	04/23/2025	10/23/2025	Abdul Mirza	None	None	Yogesh Patel
								05/03/2025

FROM 0.50000ml of P13534 + 1.00000ml of P13532 + 1.00000ml of P13533 + 47.75000ml of E3929 = 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>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24552	05/08/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 1.25000ml of P11182 + 1.25000ml of P13968 + 1.25000ml of P13969 + 195.00000ml of E3933 = Final Quantity: 200.000 ml



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Fax : 908 789 8922

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<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

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>
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

<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

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>
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

<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

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>
1691	750 PPB ICV HERB STD	PP24562	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
05/22/2025								
<u>FROM</u>	0.25000ml of E3933 + 0.75000ml of PP24561 = Final Quantity: 1.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	07/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	04/18/2027	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

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

CHEMICAL RECEIPT LOG BOOK

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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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	11/08/2025	05/08/2025 / Abdul	11/01/2021 / Abdul	P11182

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	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

CHEMICAL RECEIPT LOG BOOK

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

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

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	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

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	11/08/2025	05/08/2025 / Abdul	04/02/2025 / Abdul	P13968

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	11/08/2025	05/08/2025 / Abdul	04/02/2025 / Abdul	P13969

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	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	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	11/12/2025	05/12/2025 / Abdul	08/16/2019 / Stephen	P8829

Sand
Purified
Washed and Ignited



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

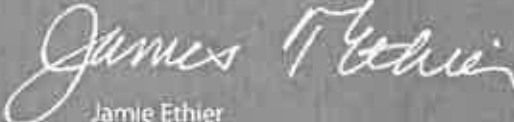
Certificate of Analysis

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

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

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

E 2865


Jamie Ethier
Vice President Global Quality

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

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

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

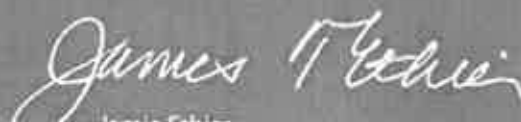
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

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

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3929

Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

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

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

E3930

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

 **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

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 0000281827
 Manufactured Date: 2021/03/30
 Retest Date: 2026/03/29
 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

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

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:

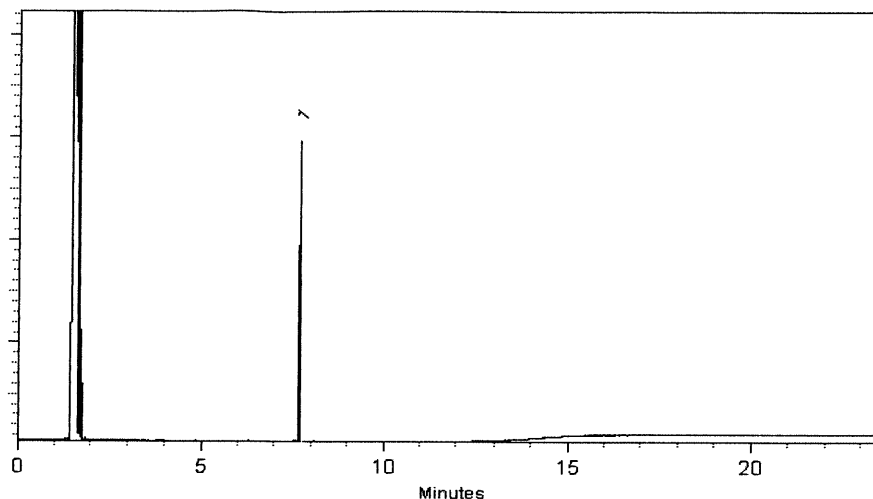
250°C

Det. Temp:

330°C

Det. Type:

FID

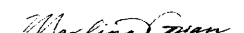


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

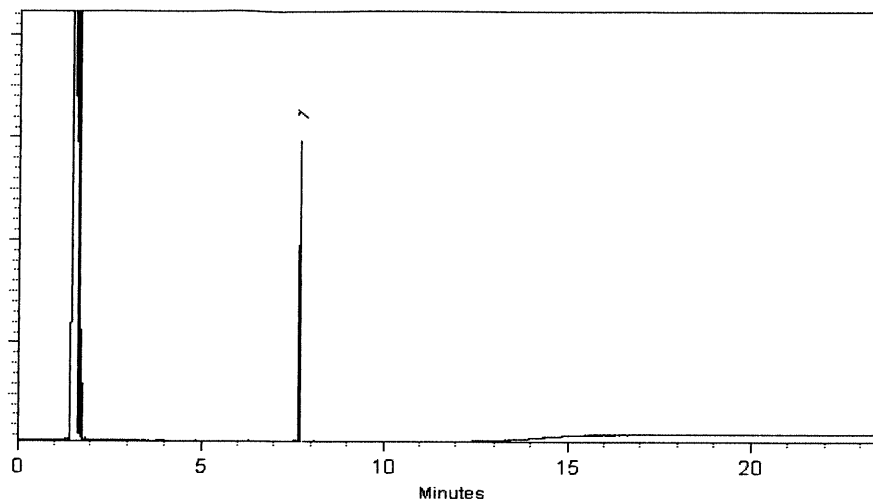
250°C

Det. Temp:

330°C

Det. Type:

FID

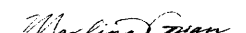


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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
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P11186
—
AR
01/02/21



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

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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:

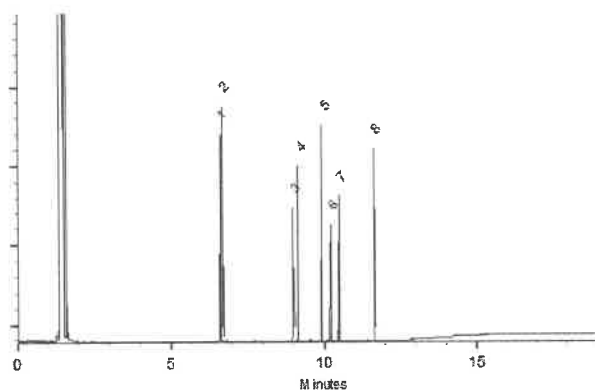
250°C

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:

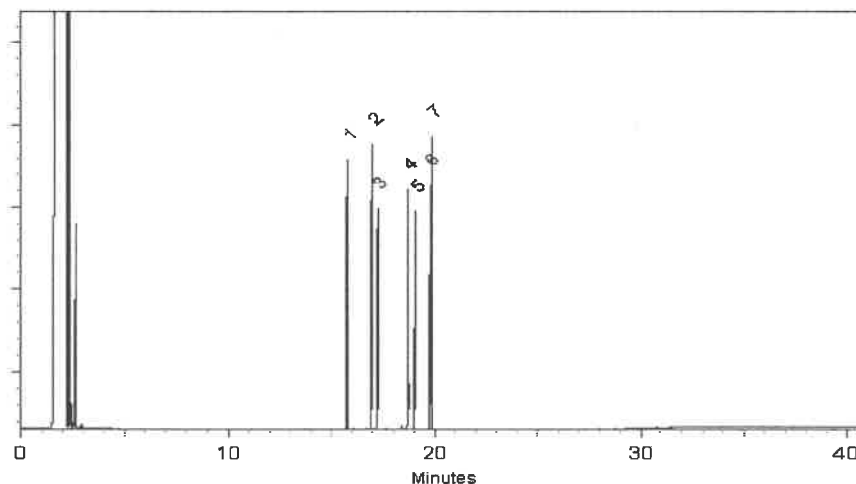
FID

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:

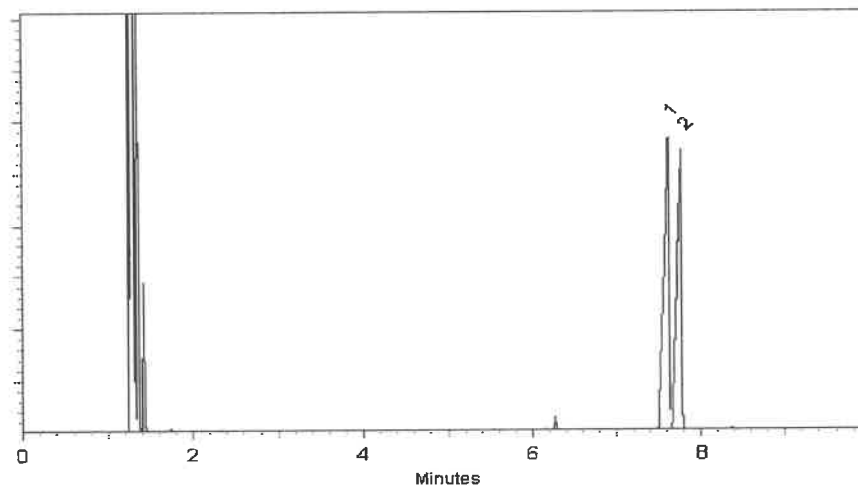
FID

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.

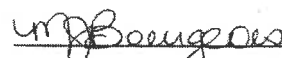
Expiration of Certification:

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.

P13520
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P13536 } (18)

BACF
9/4/2024

**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.

P13520
↓
P13536 } (18)

BACF
9/4/2024

**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.

P13520
↓
P13536 } (18)

BACF
9/4/2024



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

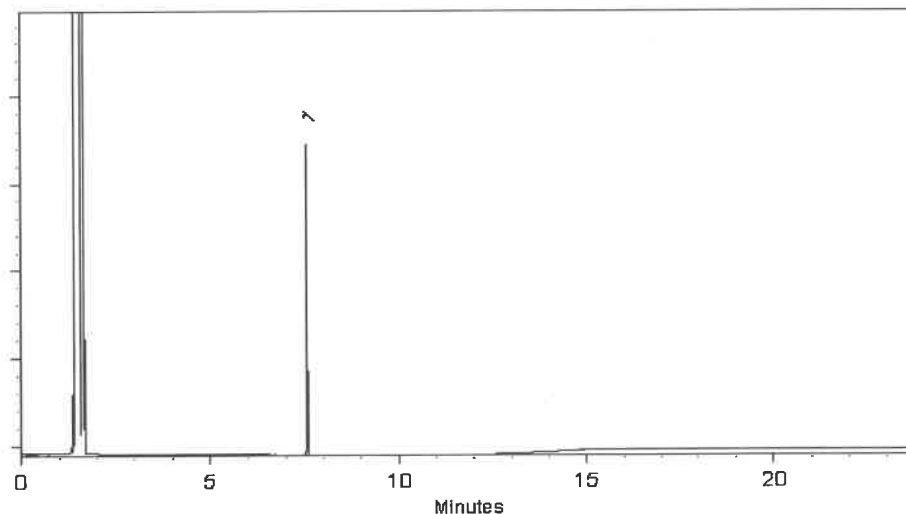
Inj. Temp:
250°C

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.)

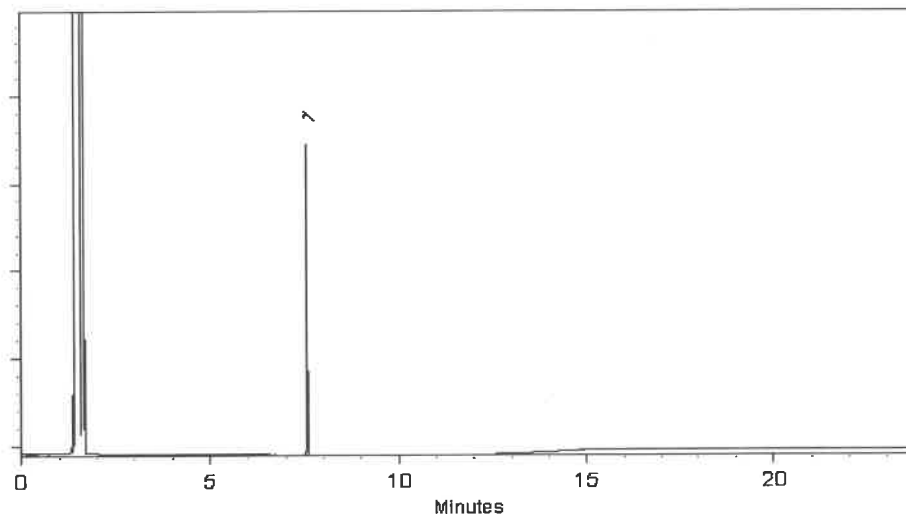
Inj. Temp:
250°C

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

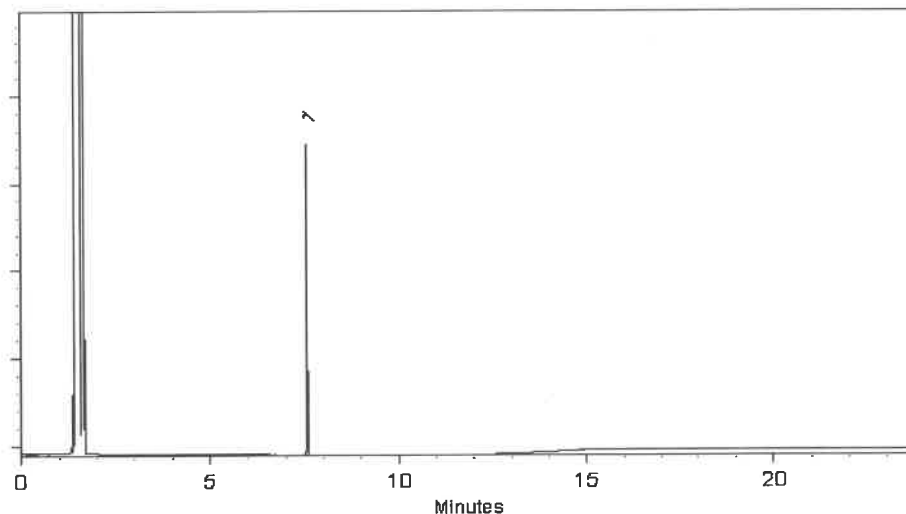
Inj. Temp:
250°C

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:

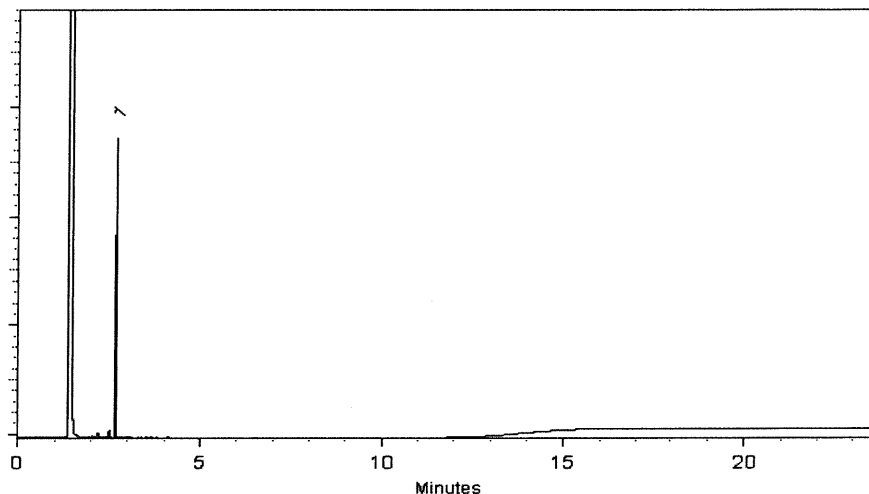
250°C

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

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX: 7322257851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: _____ LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX: 7322257851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#: _____
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

TCL VOC
TCL SVOC
TAL METALS
PCB
PESTICIDES
HERBICIDES
DRO/GRO

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-12	SOIL		X	5/15/25	0800	6	X	X	X	X	X	X	X			E
2.	TP-7	SOIL		X	5/15/25	0920	6	X	X	X	X	X	X	X			E
3.	TP-15	SOIL		X	5/15/25	1035	6	X	X	X	X	X	X	X			E
4.	TP-20	SOIL		X	5/15/25	1115	6	X	X	X	X	X	X	X			E
5.	TP-38	SOIL		X	5/15/25	1200	6	X	X	X	X	X	X	X			E
6.	TP-19	SOIL		X	5/15/25	1415	6	X	X	X	X	X	X	X			E
7.	TP-40	SOIL		X	5/15/25	1450	6	X	X	X	X	X	X	X			E
8.	TP-18	SOIL		X	5/16/25	1010	6	X	X	X	X	X	X	X			E
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. <u>[Signature]</u>	<u>5/16/25 1500</u>	1. <u>[Signature]</u>	Comments: _____
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. <u>[Signature]</u>	<u>5.16.25 1759</u>	3.	

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CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2074	CAMP02	Order Date : 5/16/2025 3:13:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1 NJ Reduced/
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/16/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 17:39	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2074-01	TP-12	Solid	05/16/2025	08:00					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-02	TP-7	Solid	05/16/2025	09:20					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-03	TP-15	Solid	05/16/2025	10:35					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-04	TP-20	Solid	05/16/2025	11:15					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-05	TP-38	Solid	05/16/2025	12:00					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-06	TP-19	Solid	05/16/2025	14:15					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-07	TP-40	Solid	05/16/2025	14:50					
			05/15/2025		VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-08	TP-18	Solid	05/16/2025	10:10					



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2074	CAMP02	Order Date : 5/16/2025 3:13:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level++ NJ Reduced/
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/16/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 1739	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By :
Date / Time : 5/19/25 11:30

Received By :
Date / Time : 05/19/25 11:30 2886
222
Storage Area : VOA Refridgerator Room