

Cover Page

Order ID : Q2301

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

Client : ENTACT

Lab Sample Number

Q2301-01
Q2301-02
Q2301-03
Q2301-04

Client Sample Number

WC-URBAN-FILL-G
WC-URBAN-FILL-C
WC-URBAN-FILL-C
WC-URBAN-FILL-C

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

Signature : _____

Date: 6/18/2025

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 #: Q2301

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: PRADIP PRAJAPATI

Date: 06/18/2025

LAB CHRONICLE

OrderID:	Q2301	OrderDate:	6/12/2025 12:08:00 PM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Austin Farmerie	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2301-02	WC-URBAN-FILL-C	SOIL			06/11/25			06/11/25
			PCB	8082A		06/13/25	06/13/25	
Q2301-03	WC-URBAN-FILL-C	TCLP			06/11/25			06/11/25
			TCLP Herbicide	8151A		06/16/25	06/16/25	
			TCLP Pesticide	8081B		06/13/25	06/13/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2301

Order ID: Q2301

Client: ENTACT

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

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.: Q2301

Client: ENTACT

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS030680.D	PIBLK-PS030680.D	2,4-DCAA	1	500	396	79		70 (61)	130 (136)
		2,4-DCAA	2	500	472	94		70 (61)	130 (136)
I.BLK-PS030697.D	PIBLK-PS030697.D	2,4-DCAA	1	500	446	89		70 (61)	130 (136)
		2,4-DCAA	2	500	477	95		70 (61)	130 (136)
PB168495BL	PB168495BL	2,4-DCAA	1	500	427	85		70 (61)	130 (136)
		2,4-DCAA	2	500	470	94		70 (61)	130 (136)
PB168495BS	PB168495BS	2,4-DCAA	1	500	501	100		70 (61)	130 (136)
		2,4-DCAA	2	500	500	100		70 (61)	130 (136)
PB168428TB	PB168428TB	2,4-DCAA	1	500	448	90		70 (61)	130 (136)
		2,4-DCAA	2	500	451	90		70 (61)	130 (136)
Q2301-03	WC-URBAN-FILL-C	2,4-DCAA	1	500	440	88		70 (61)	130 (136)
		2,4-DCAA	2	500	448	90		70 (61)	130 (136)
Q2301-03MS	WC-URBAN-FILL-CMS	2,4-DCAA	1	500	484	97		70 (61)	130 (136)
		2,4-DCAA	2	500	465	93		70 (61)	130 (136)
Q2301-03MSD	WC-URBAN-FILL-CMSD	2,4-DCAA	1	500	490	98		70 (61)	130 (136)
		2,4-DCAA	2	500	476	95		70 (61)	130 (136)
I.BLK-PS030705.D	PIBLK-PS030705.D	2,4-DCAA	1	500	440	88		70 (61)	130 (136)
		2,4-DCAA	2	500	478	96		70 (61)	130 (136)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2301</u>	Analytical Method:	<u>8151A</u>
Client:	<u>ENTACT</u>	DataFile :	<u>PS030703.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2301-03MS (Column 1)	WC-URBAN-FILL-CMS 2,4-D	50	0	53.7	ug/L	107				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	50.3	ug/L	101				70 (62)	130 (139)	
Client Sample ID: Q2301-03MS (Column 2)	WC-URBAN-FILL-CMS 2,4-D	50	0	45.0	ug/L	90				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	57.9	ug/L	116				70 (62)	130 (139)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2301</u>	Analytical Method:	<u>8151A</u>
Client:	<u>ENTACT</u>	DataFile :	<u>PS030704.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2301-03MSD (Column 1)	WC-URBAN-FILL-CMSD 2,4-D	50	0	55.4	ug/L	111		4		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	51.7	ug/L	103		2		70 (62)	130 (139)	20 (20)
Client Sample ID: Q2301-03MSD (Column 2)	WC-URBAN-FILL-CMSD 2,4-D	50	0	47.6	ug/L	95		5		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	58.9	ug/L	118		2		70 (62)	130 (139)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2301

Analytical Method: 8151A

Client: ENTACT

Datafile : PS030700.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168495BS (Column 1)	2,4-D	5	5.00	ug/L	100				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.10	ug/L	102				70 (78)	130 (127)	
PB168495BS (Column 2)	2,4-D	5	4.80	ug/L	96				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	4.70	ug/L	94				70 (78)	130 (127)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168495BL

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301

SAS No.: Q2301 SDG NO.: Q2301

Lab Sample ID: PB168495BL

Lab File ID: PS030699.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 06/16/2025

Date Analyzed (1): 06/16/2025

Date Analyzed (2): 06/16/2025

Time Analyzed (1): 18:13

Time Analyzed (2): 18:13

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
PB168495BS	PB168495BS	PS030700.D	06/16/2025	06/16/2025
PB168428TB	PB168428TB	PS030701.D	06/16/2025	06/16/2025
WC-URBAN-FILL-C	Q2301-03	PS030702.D	06/16/2025	06/16/2025
WC-URBAN-FILL-CMS	Q2301-03MS	PS030703.D	06/16/2025	06/16/2025
WC-URBAN-FILL-CMSD	Q2301-03MSD	PS030704.D	06/16/2025	06/16/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/16/25
Client Sample ID:	PB168428TB	SDG No.:	Q2301
Lab Sample ID:	PB168428TB	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030701.D	1	06/16/25 08:55	06/16/25 19:01	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	451		70 (61) - 130 (136)	90%	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\PS061625\
Data File : PS030701.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 19:01
Operator : AR\AJ
Sample : PB168428TB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168428TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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	7.350	7.767	1683.2E6	486.9E6	447.565	450.950
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Target Compounds

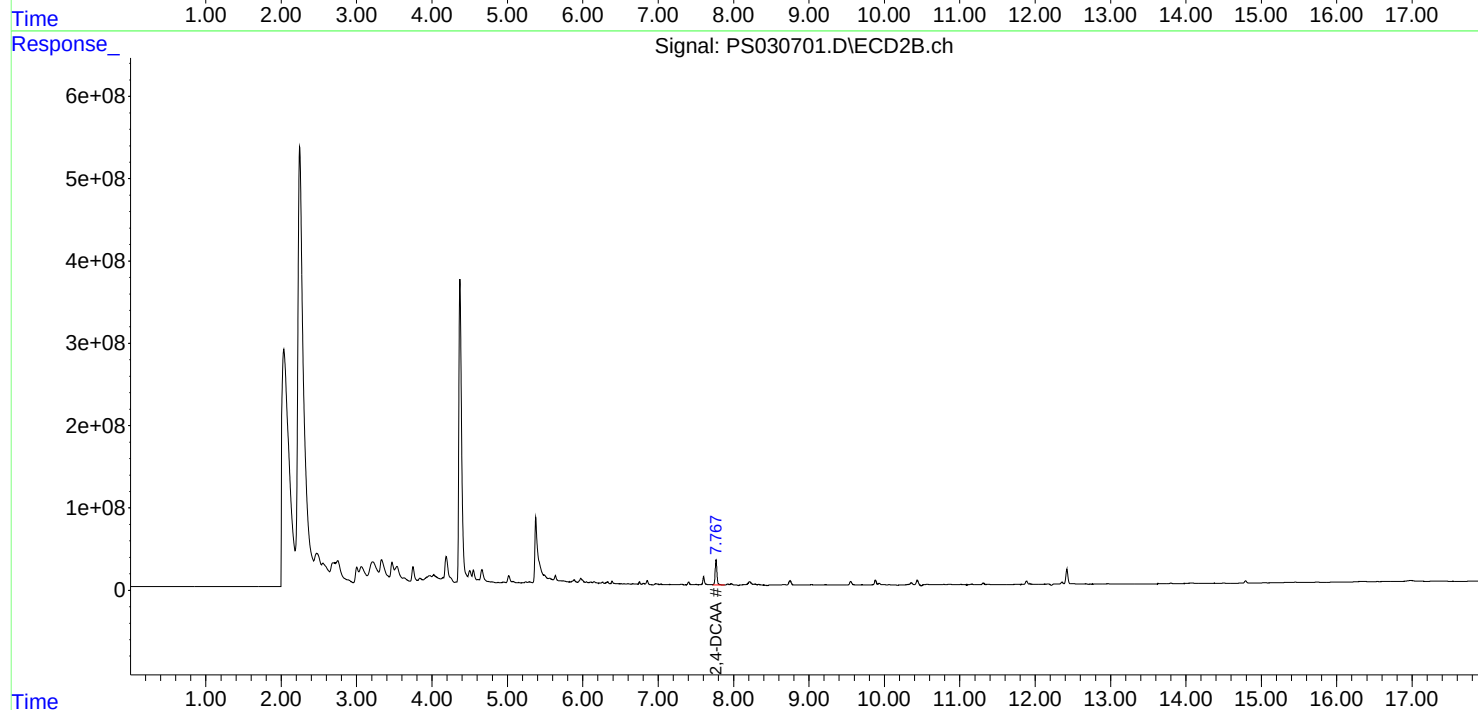
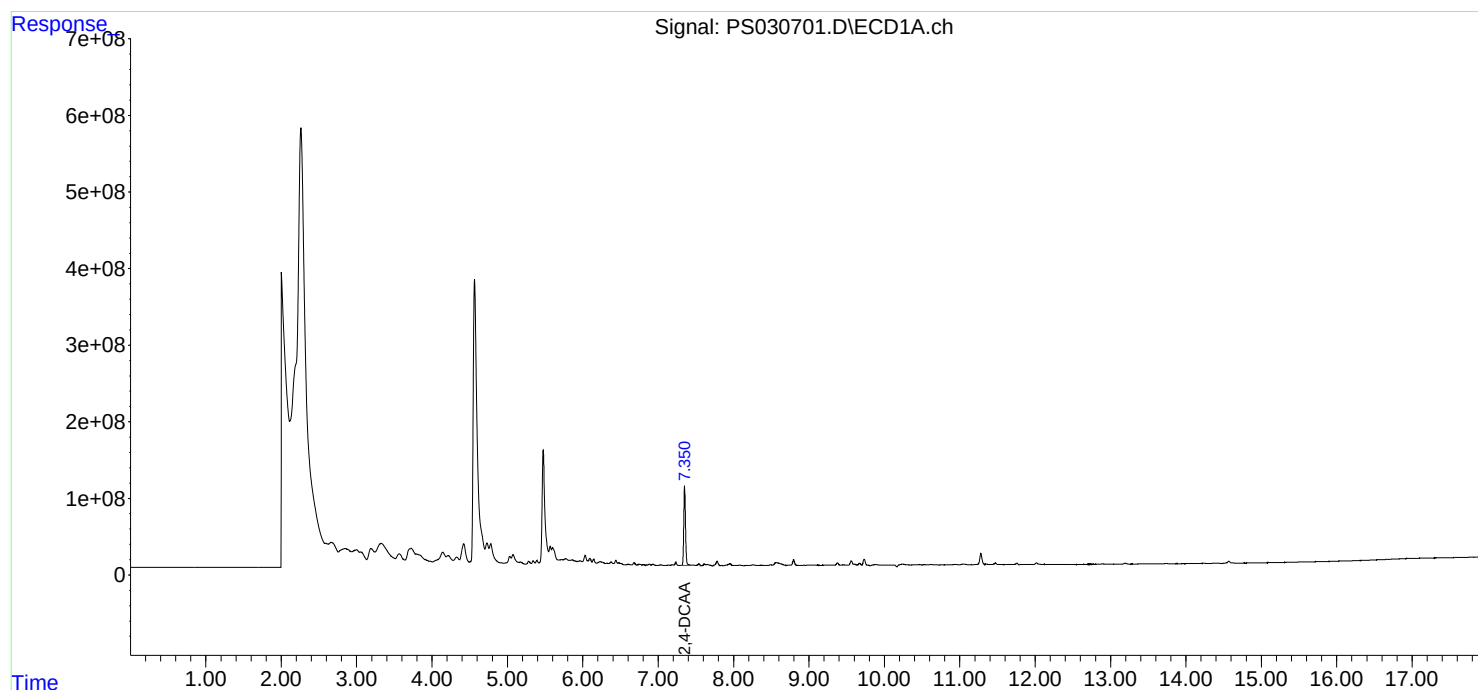
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

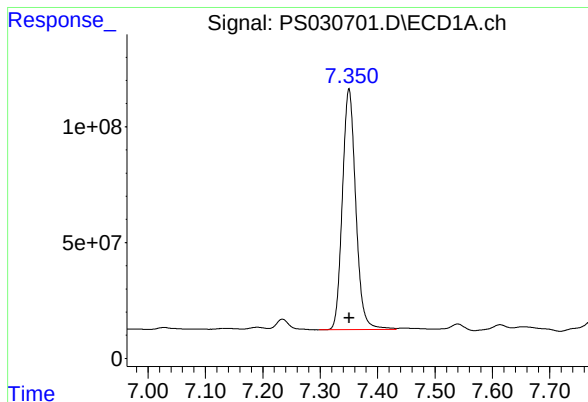
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030701.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 19:01
Operator : AR\AJ
Sample : PB168428TB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168428TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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.: 7.350 min

Delta R.T.: 0.000 min

Response: 1683209374

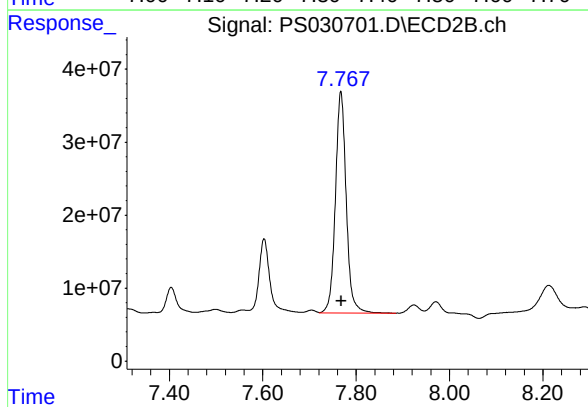
Conc: 447.57 ng/ml

Instrument :

ECD_S

ClientSampleId :

PB168428TB



#4 2,4-DCAA

R.T.: 7.767 min

Delta R.T.: 0.000 min

Response: 486886420

Conc: 450.95 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	06/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-C	SDG No.:	Q2301
Lab Sample ID:	Q2301-03	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030702.D	1	06/16/25 08:55	06/16/25 19:26	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0092	U	0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0078	U	0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	448		70 (61) - 130 (136)	90%	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\PS061625\
 Data File : PS030702.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 19:26
 Operator : AR\AJ
 Sample : Q2301-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-URBAN-FILL-C

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:15:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 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	7.351	7.768	1655.4E6	483.2E6	440.173	447.555
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Target Compounds

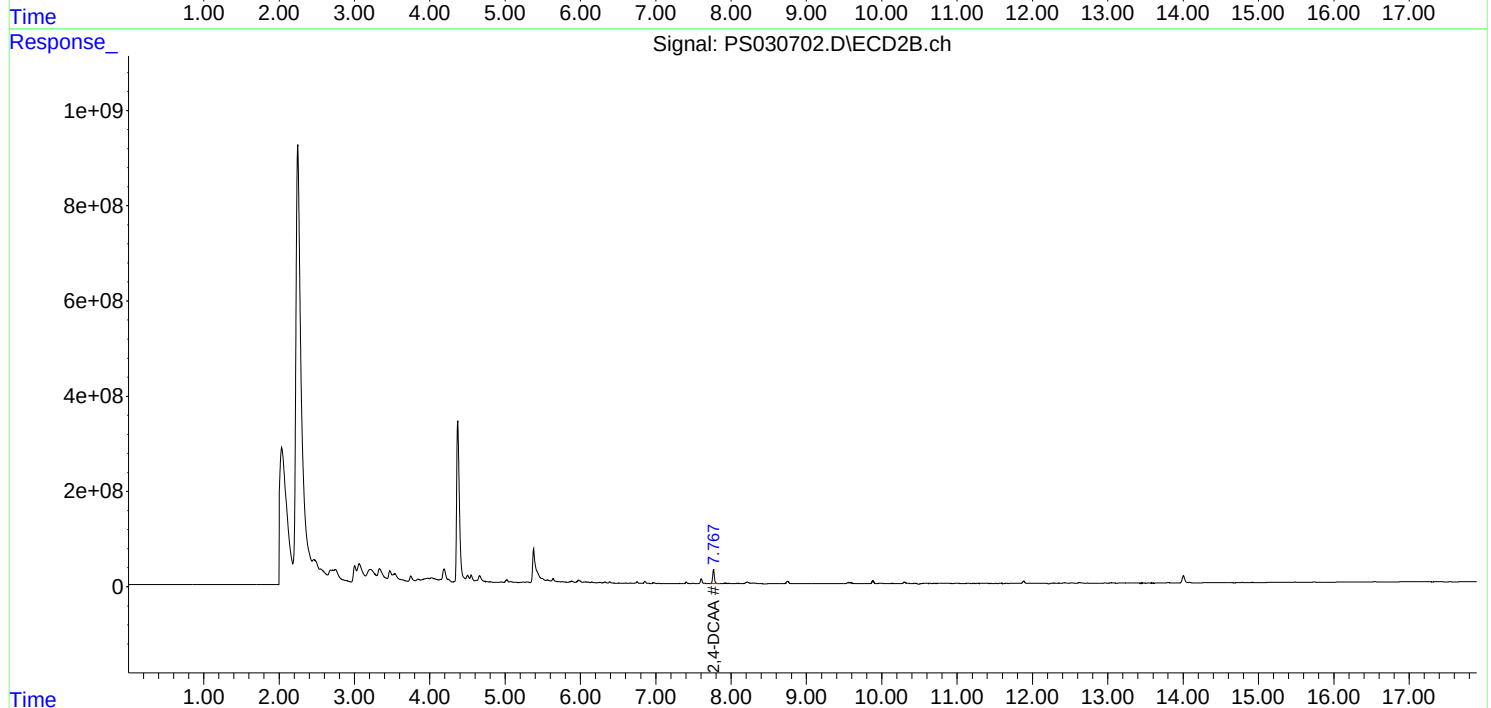
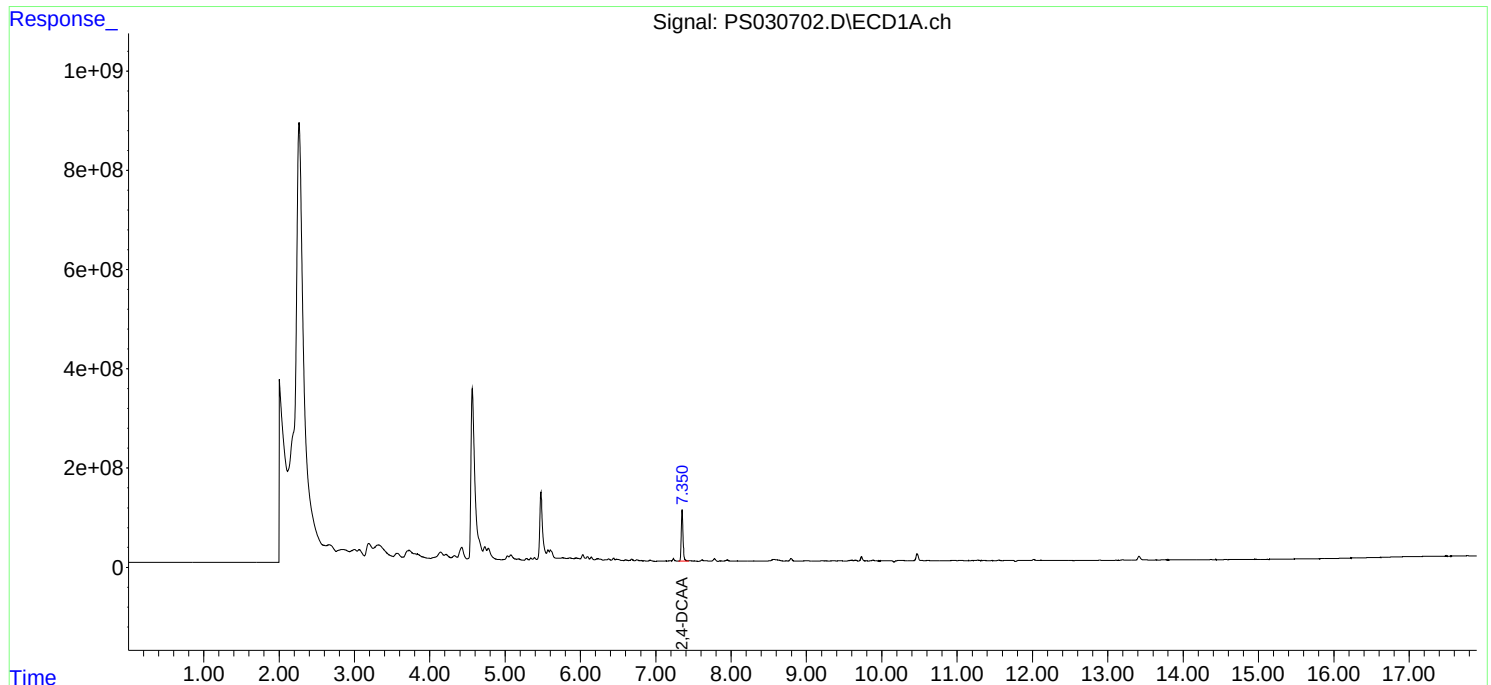
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

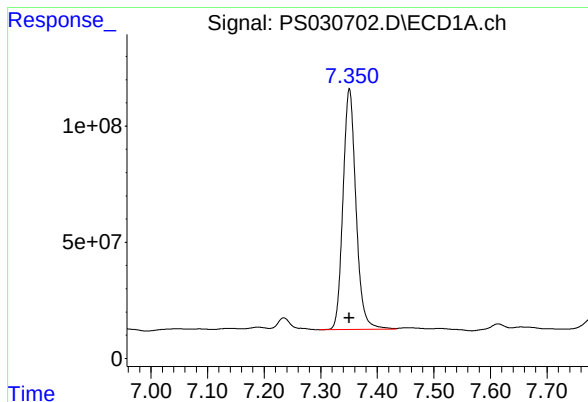
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030702.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 19:26
Operator : AR\AJ
Sample : Q2301-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-URBAN-FILL-C

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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.: 7.351 min

Delta R.T.: 0.000 min

Response: 1655409515

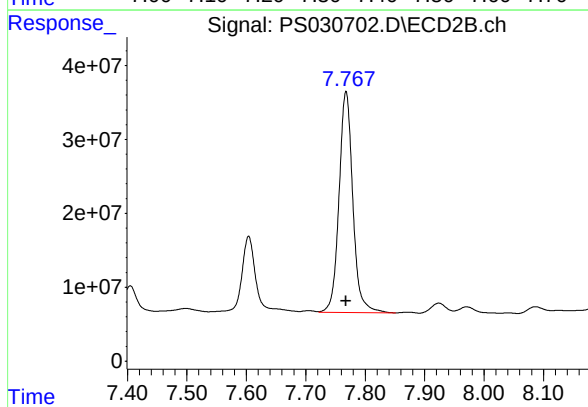
Conc: 440.17 ng/ml

Instrument :

ECD_S

ClientSampleId :

WC-URBAN-FILL-C



#4 2,4-DCAA

R.T.: 7.768 min

Delta R.T.: 0.000 min

Response: 483221278

Conc: 447.56 ng/ml



CALIBRATION SUMMARY

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

LAB FILE ID:	RT 200 =	<u>PS030681.D</u>	RT 500 =	<u>PS030682.D</u>
RT 750 =	PS030683.D	RT 1000 =	PS030684.D	RT 1500 =
				PS030685.D

[illegible]

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

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

Instrument ID: ECD_S

Calibration Date(s): 06/16/2025 06/16/2025

Calibration Times: 09:56 11:33

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

LAB FILE ID:		CF 200 =	<u>PS030681.D</u>	CF 500 =	<u>PS030682.D</u>		
CF 750 =		<u>PS030683.D</u>	CF 1000 =	<u>PS030684.D</u>	CF 1500 =	<u>PS030685.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	23310400000	20262400000	19069000000	19162800000	18229500000	20006800000	10
2,4-D	4118600000	3402180000	3170830000	3194800000	3115400000	3400360000	12
2,4-DCAA	4709630000	3856360000	3484750000	3444780000	3308550000	3760820000	15

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ENTA05
Lab Code: CHEM **Case No.:** Q2301 **SAS No.:** Q2301 **SDG NO.:** Q2301
Instrument ID: ECD_S **Calibration Date(s):** 06/16/2025 06/16/2025
Calibration Times: 09:56 11:33

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

LAB FILE ID:		CF 200 = <u>PS030681.D</u>		CF 500 = <u>PS030682.D</u>			
CF 750 = <u>PS030683.D</u>		CF 1000 = <u>PS030684.D</u>		CF 1500 = <u>PS030685.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	17076700000	14594600000	13656900000	13568800000	12875800000	14354600000	11
2,4-D	2067250000	1684360000	1565840000	1560790000	1503980000	1676450000	14
2,4-DCAA	1334550000	1086460000	1006290000	1005060000	966095000	1079690000	14

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030681.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 09:56
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 11:35:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:23:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.351	7.768	941.9E6	266.9E6	243.064m	240.874
Target Compounds							
1) T	Dalapon	2.708	2.710	1444.4E6	621.3E6	225.072m	215.972
2) T	3,5-DICHL...	6.510	6.713	1261.5E6	371.3E6	225.152	223.801
3) T	4-Nitroph...	7.151	7.299	358.3E6	357.0E6	215.458	206.768
5) T	DICAMBA	7.542	7.971	3504.5E6	1445.5E6	218.642	214.393
6) T	MCP	7.721	8.066	162.1E6	40694511	17.415	18.534
7) T	MCPA	7.871	8.314	226.8E6	60775932	19.187	18.978
8) T	DICHLORPROP	8.257	8.690	907.0E6	356.9E6	238.983	226.711
9) T	2,4-D	8.490	9.025	774.3E6	388.6E6	223.037	226.013
10) T	Pentachlo...	8.797	9.550	12630.4E6	8595.3E6	227.992	217.619
11) T	2,4,5-TP ...	9.378	9.931	4429.0E6	3244.6E6	216.564	220.356
12) T	2,4,5-T	9.673	10.357	3470.5E6	3100.3E6	206.627	219.523
13) T	2,4-DB	10.252	10.925	510.6E6	272.4E6	206.664	224.319
14) T	DINOSEB	11.471	11.310	3090.3E6	2416.1E6	214.074	216.176
15) T	Picloram	11.281	12.419	3391.8E6	4996.7E6	203.312	205.794
16) T	DCPA	11.767	12.354	5786.5E6	4827.3E6	218.156	219.220m

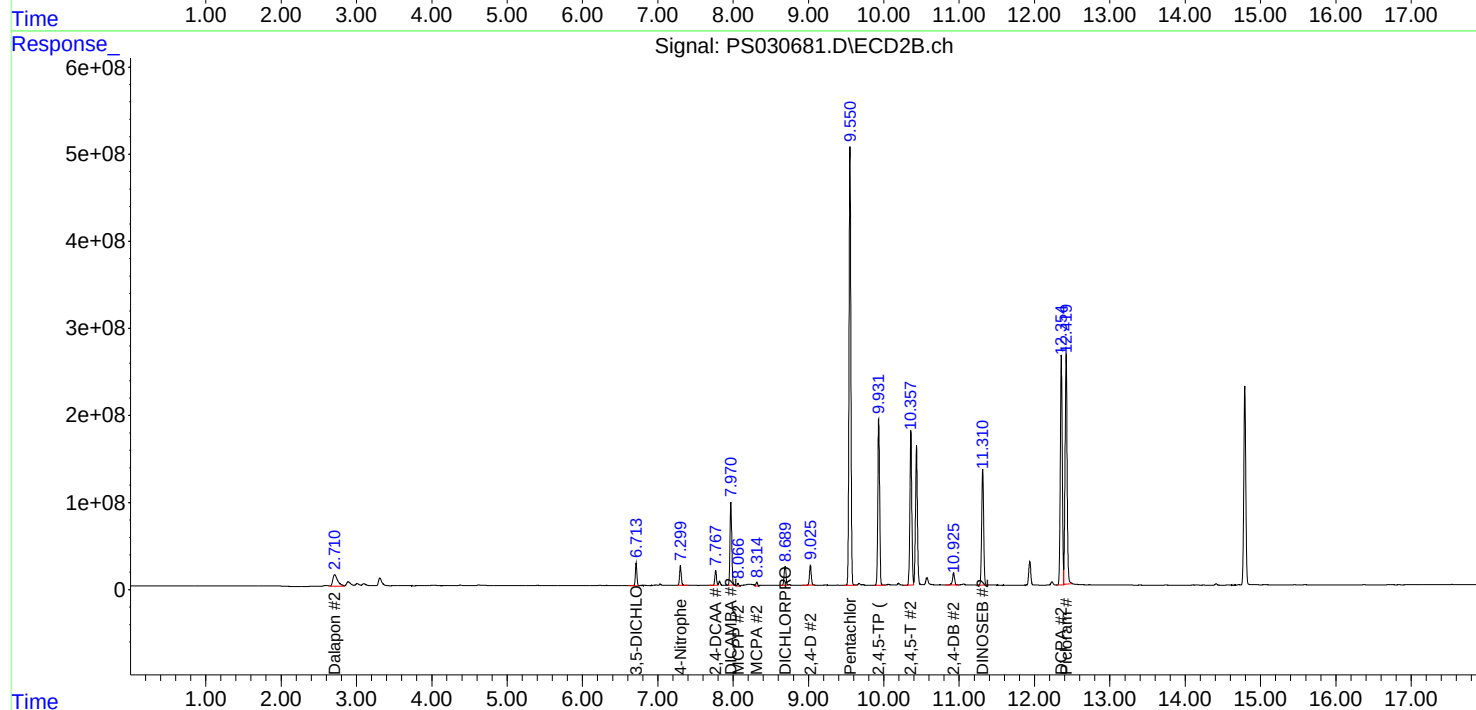
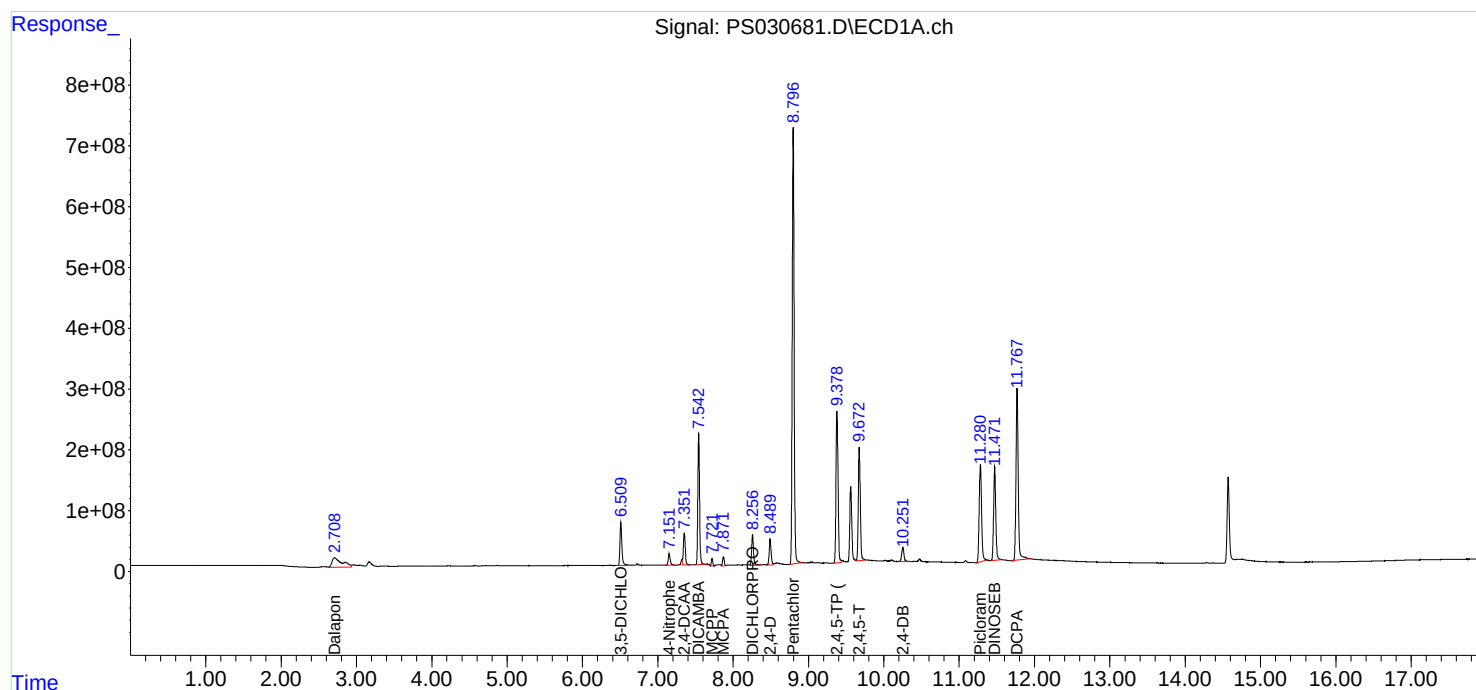
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030681.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 09:56
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:35:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:23:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030682.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 10:20
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 11:32:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:23:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.351	7.768	1928.2E6	543.2E6	535.186m	526.079
Target Compounds							
1) T	Dalapon	2.708	2.710	2765.3E6	1274.0E6	463.050m	472.234
2) T	3,5-DICHL...	6.510	6.713	2564.1E6	753.7E6	492.162	487.367
3) T	4-Nitroph...	7.151	7.299	742.0E6	769.6E6	475.328	466.865
5) T	DICAMBA	7.542	7.971	7439.5E6	3117.8E6	490.802	485.111
6) T	MCP	7.723	8.068	437.7E6	104.2E6	45.879	47.243
7) T	MCPA	7.873	8.317	540.9E6	147.3E6	46.242	46.299
8) T	DICHLORPROP	8.257	8.690	1731.7E6	725.4E6	501.626	494.729
9) T	2,4-D	8.490	9.025	1599.0E6	791.7E6	491.110	493.651
10) T	Pentachlo...	8.797	9.551	26597.4E6	18719.5E6	514.398	498.079
11) T	2,4,5-TP ...	9.378	9.931	9624.6E6	6932.5E6	493.620	497.302
12) T	2,4,5-T	9.673	10.358	7883.0E6	6647.0E6	483.443	496.369
13) T	2,4-DB	10.252	10.925	1150.4E6	568.7E6	479.604	498.377
14) T	DINOSEB	11.471	11.310	6689.8E6	5179.8E6	485.881	487.828
15) T	Picloram	11.279	12.419	7715.4E6	11458.3E6	473.539	485.368
16) T	DCPA	11.767	12.354	12733.7E6	10578.6E6	502.909	504.275m

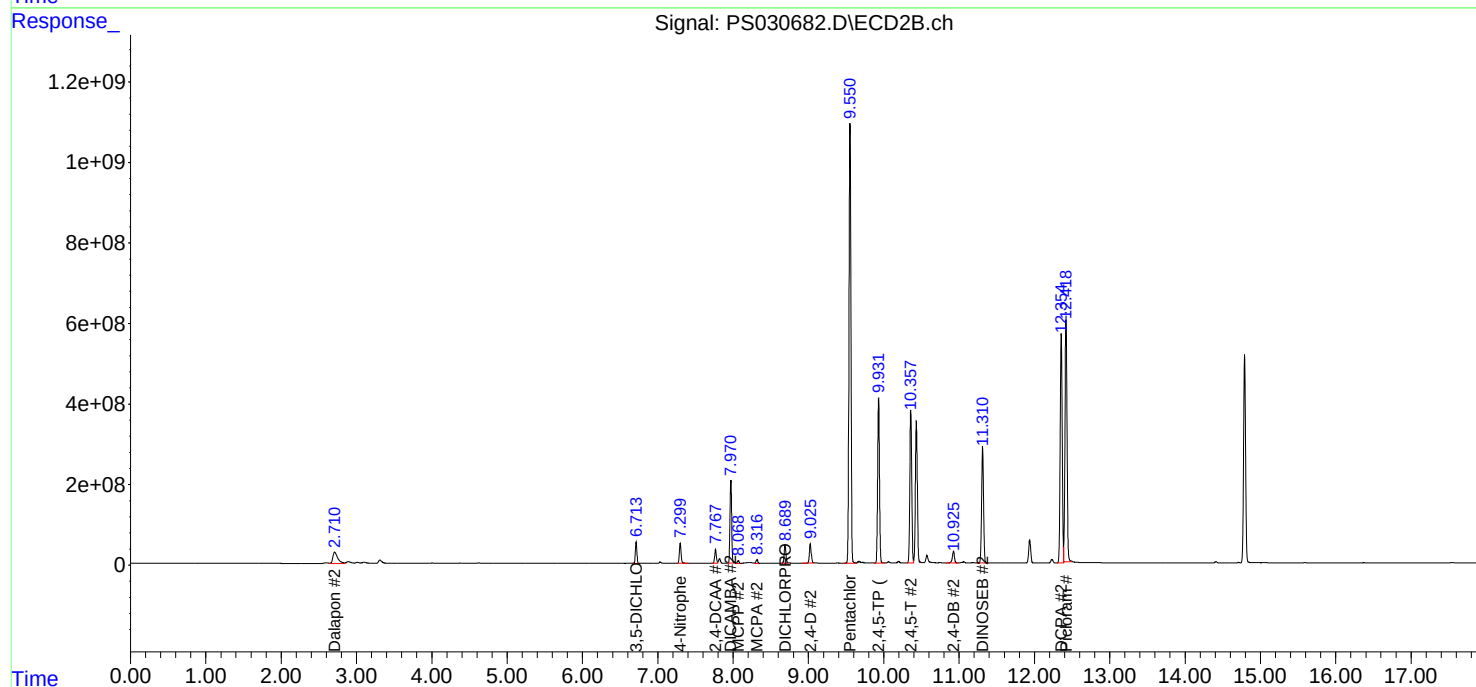
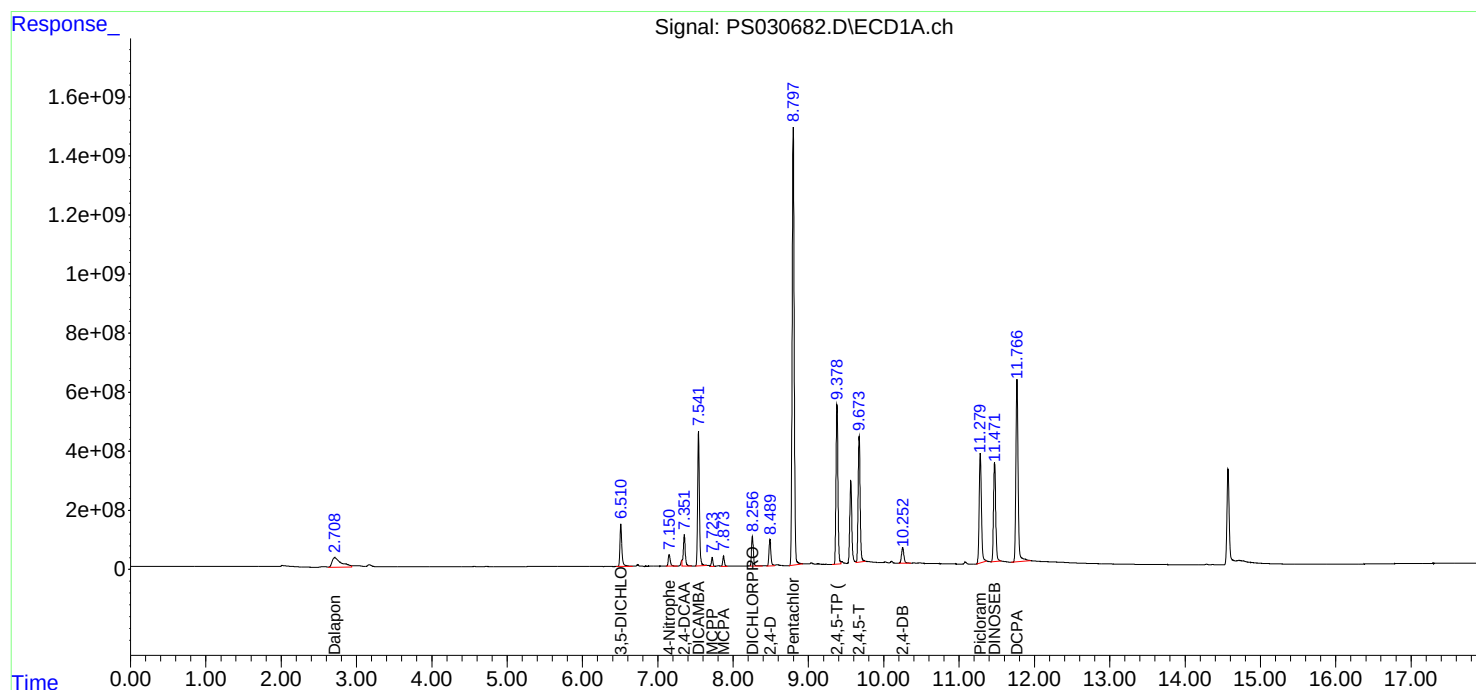
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030682.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 10:20
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:32:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:23:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030683.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 10:44
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 11:24:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:23:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.768	2613.6E6	754.7E6	737.966m	750.000
Target Compounds							
1) T	Dalapon	2.709	2.709	4039.6E6	1799.3E6	682.500	682.500
2) T	3,5-DICHL...	6.509	6.713	3548.4E6	1052.9E6	697.500	697.500
3) T	4-Nitroph...	7.151	7.300	1040.1E6	1102.6E6	682.500	682.500
5) T	DICAMBA	7.542	7.971	10471.5E6	4437.7E6	705.000	705.000
6) T	MCPD	7.724	8.070	662.7E6	153.4E6	70.500	70.500
7) T	MCPA	7.874	8.319	799.8E6	219.4E6	69.750	69.750
8) T	DICHLORPROP	8.256	8.690	2360.0E6	1010.1E6	705.000	705.000
9) T	2,4-D	8.488	9.026	2235.4E6	1103.9E6	705.000	705.000
10) T	Pentachlo...	8.796	9.551	36925.2E6	26257.6E6	712.500	712.500
11) T	2,4,5-TP ...	9.377	9.932	13586.7E6	9730.6E6	712.500	712.500
12) T	2,4,5-T	9.671	10.358	11366.1E6	9338.5E6	712.500	712.500
13) T	2,4-DB	10.250	10.925	1661.3E6	793.3E6	712.500	712.500
14) T	DINOSEB	11.470	11.311	9488.0E6	7329.0E6	705.000	705.000
15) T	Picloram	11.278	12.419	11367.4E6	16595.5E6	712.500	712.500
16) T	DCPA	11.767	12.355	17851.5E6	14761.9E6	720.000	720.000

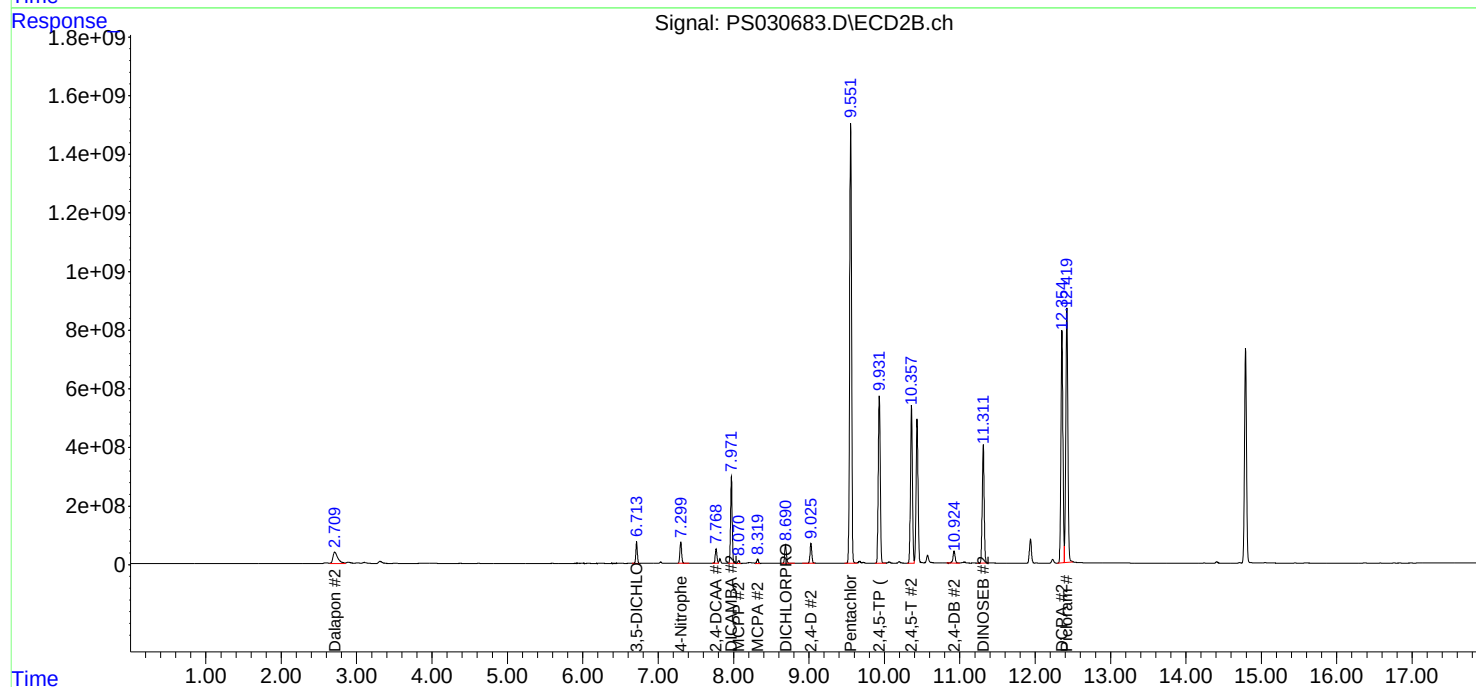
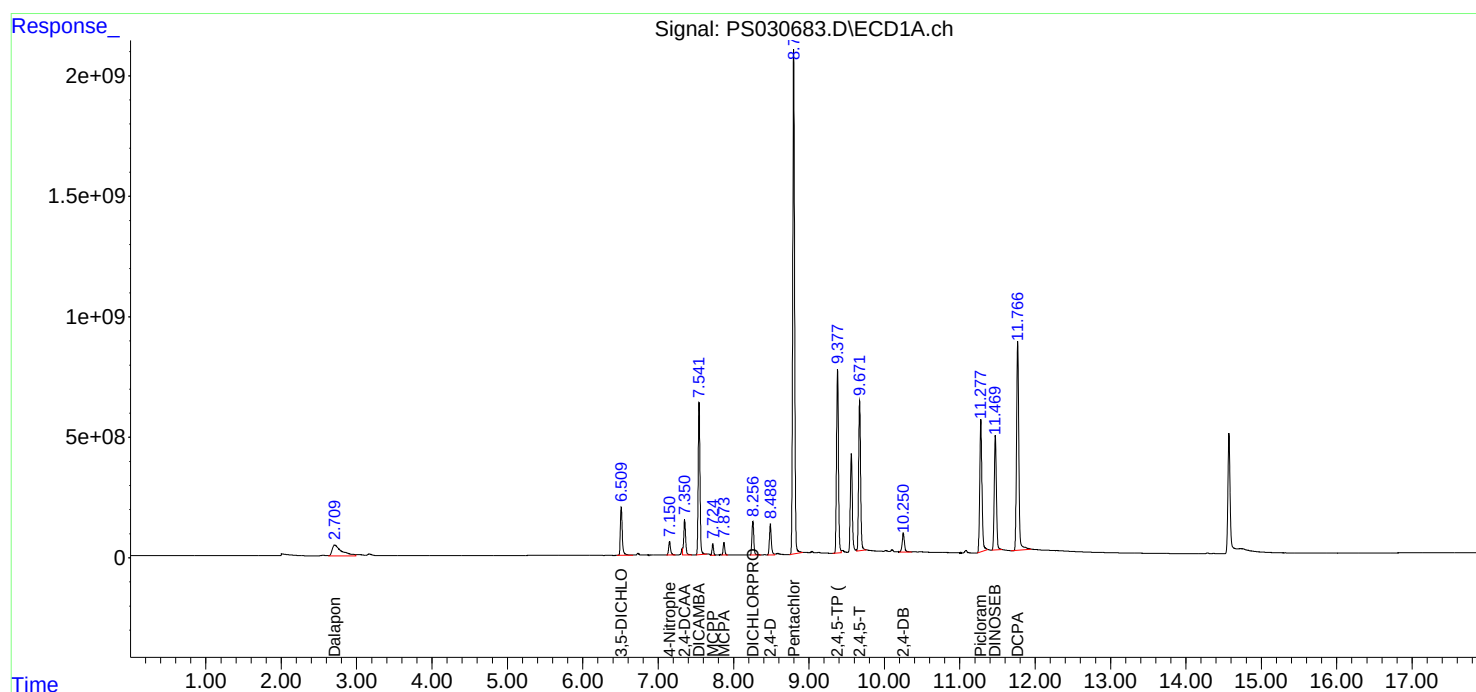
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030683.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 10:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:24:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:23:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030684.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 11:09
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 11:29:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:23:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.351	7.768	3444.8E6	1005.1E6	940.439m	999.390
Target Compounds							
1) T	Dalapon	2.708	2.710	5275.8E6	2418.1E6	900.580	913.612
2) T	3,5-DICHL...	6.510	6.713	4676.3E6	1403.3E6	924.580	929.799
3) T	4-Nitroph...	7.151	7.299	1390.7E6	1490.8E6	911.282	916.371
5) T	DICAMBA	7.542	7.971	13904.0E6	5971.6E6	938.043	944.319
6) T	MCP	7.726	8.072	931.2E6	209.1E6	96.462	95.025
7) T	MCPA	7.876	8.321	1115.4E6	300.4E6	95.087	94.240
8) T	DICHLORPROP	8.257	8.689	3125.1E6	1337.2E6	936.769	936.614
9) T	2,4-D	8.489	9.026	3003.1E6	1467.1E6	943.540	938.482
10) T	Pentachlo...	8.800	9.551	44933.4E6	34663.5E6	906.618	945.274
11) T	2,4,5-TP ...	9.378	9.932	18204.7E6	12890.4E6	952.331	946.925
12) T	2,4,5-T	9.672	10.357	15551.2E6	12419.8E6	962.262	948.798
13) T	2,4-DB	10.251	10.925	2320.2E6	1056.8E6	972.010	949.587
14) T	DINOSEB	11.471	11.310	12796.6E6	9811.2E6	945.391	941.882
15) T	Picloram	11.278	12.419	15847.9E6	22237.3E6	971.186	952.353
16) T	DCPA	11.766	12.354	23652.6E6	19597.5E6	956.978	957.858m

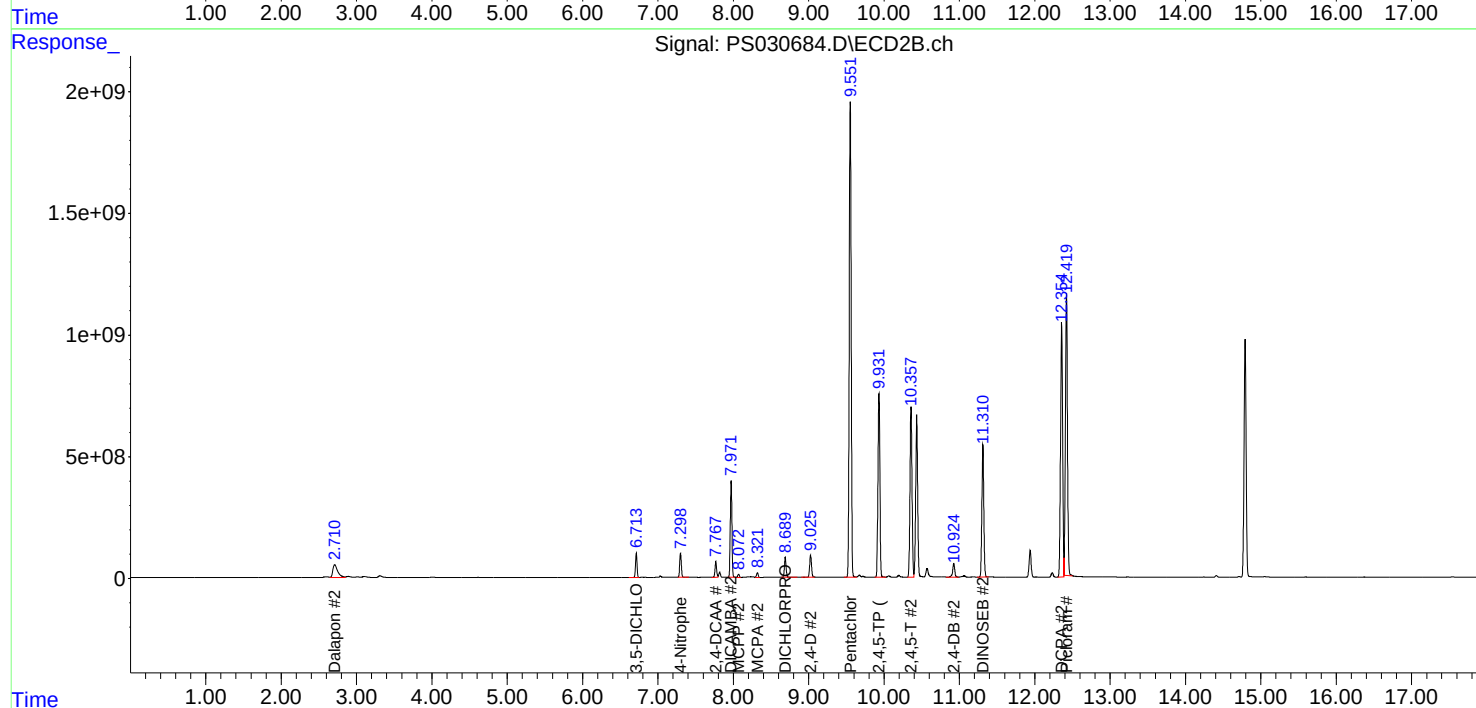
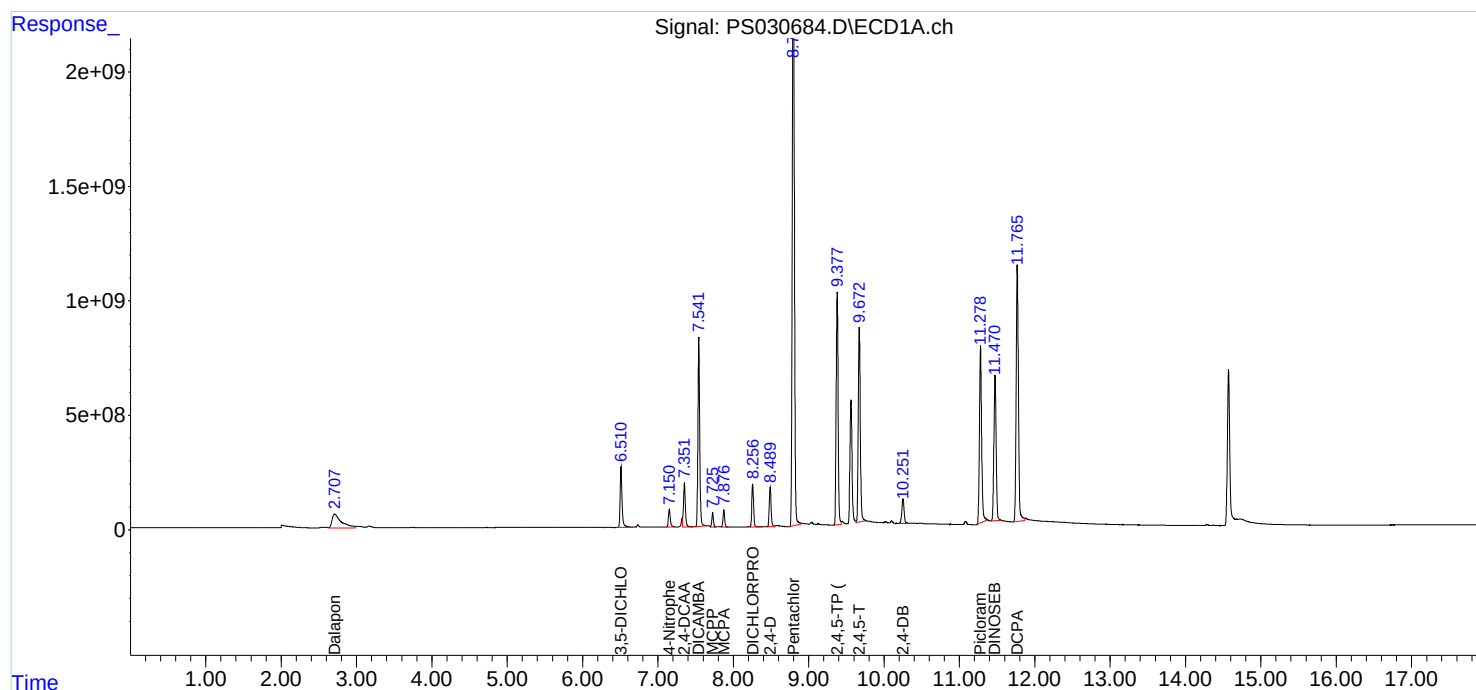
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030684.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 11:09
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:29:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:23:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030685.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 11:33
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 11:51:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:50:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.351	7.768	4962.8E6	1449.1E6	1329.328m	1342.182
Target Compounds							
1) T	Dalapon	2.709	2.710	7566.5E6	3498.9E6	1209.725	1243.331
2) T	3,5-DICHL...	6.510	6.713	6658.3E6	2027.0E6	1224.606	1253.012
3) T	4-Nitroph...	7.150	7.299	2047.2E6	2207.8E6	1255.775	1295.001
5) T	DICAMBA	7.542	7.971	19900.1E6	8717.4E6	1271.935	1314.740
6) T	MCPD	7.728	8.075	1454.0E6	313.6E6	152.874	142.474
7) T	MCPA	7.880	8.325	1715.5E6	449.3E6	143.956	140.136
8) T	DICHLORPROP	8.256	8.690	4505.3E6	1924.3E6	1225.830	1255.758
9) T	2,4-D	8.489	9.025	4392.7E6	2120.6E6	1291.838	1264.946
10) T	Pentachlo...	8.803	9.553	52523.2E6	45159.8E6	1016.112	1191.003
11) T	2,4,5-TP ...	9.378	9.932	25977.1E6	18348.1E6	1298.412	1278.202
12) T	2,4,5-T	9.672	10.357	22738.0E6	17743.5E6	1367.447	1286.827
13) T	2,4-DB	10.251	10.925	3523.2E6	1533.6E6	1425.728	1292.521
14) T	DINOSEB	11.471	11.311	18419.9E6	14215.0E6	1300.713	1297.302
15) T	Picloram	11.278	12.418	23869.1E6	32430.5E6	1429.614	1352.633
16) T	DCPA	11.767	12.354	34239.6E6	27763.8E6	1318.167	1294.984m

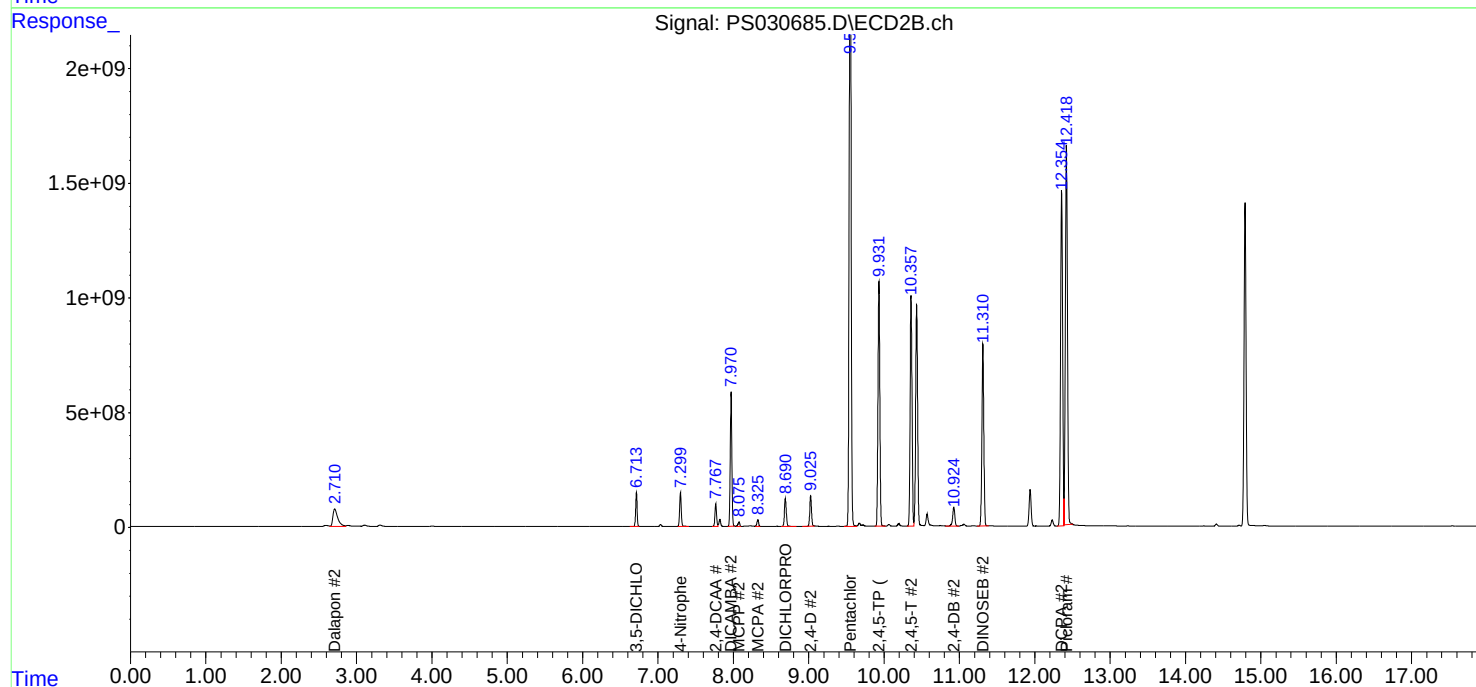
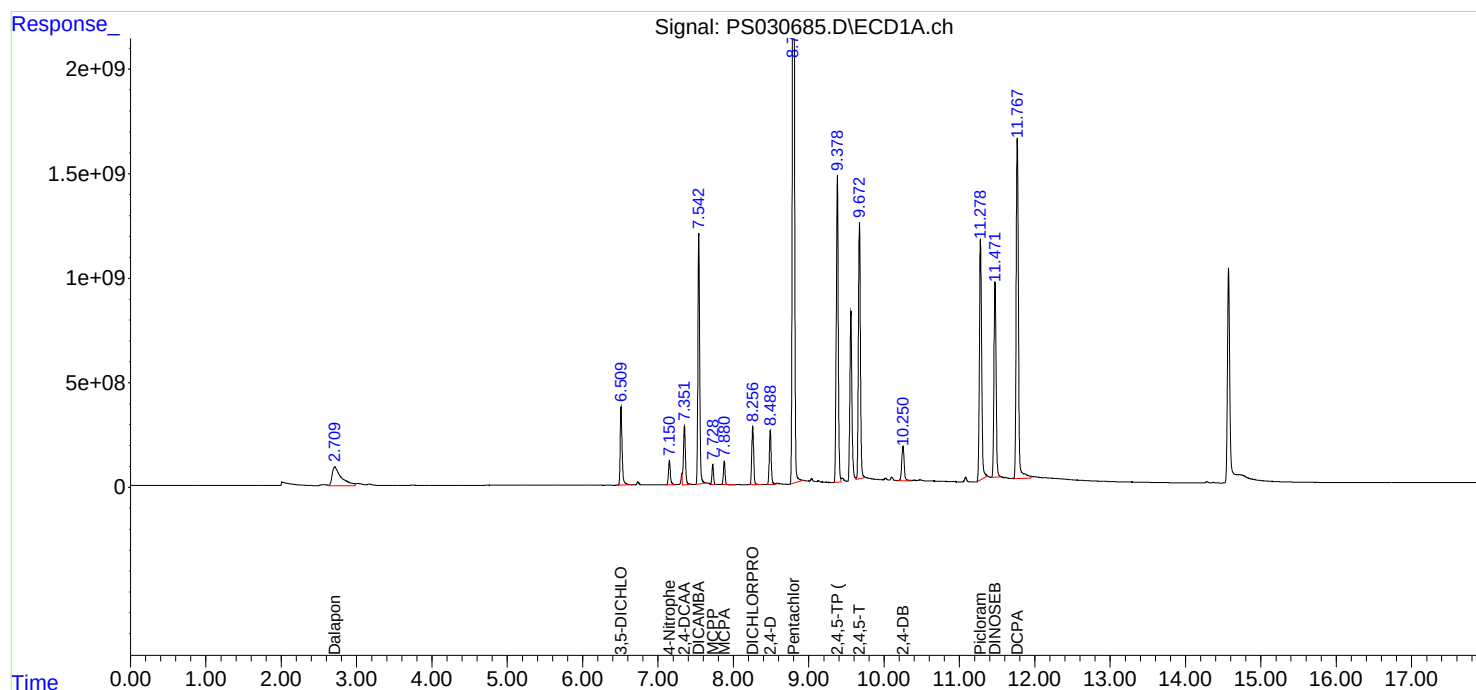
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030685.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 11:33
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:51:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:50:52 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\PS061625\
 Data File : PS030686.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 11:57
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS061625

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 16 12:24:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.767	2558.2E6	759.8E6	680.238m	703.715
Target Compounds							
1) T	Dalapon	2.708	2.709	4014.4E6	1804.1E6	641.812	641.087
2) T	3,5-DICHL...	6.510	6.713	3528.6E6	1059.7E6	648.982	655.055
3) T	4-Nitroph...	7.150	7.299	1033.9E6	1107.1E6	634.193	649.407
5) T	DICAMBA	7.542	7.970	10445.4E6	4464.3E6	667.624	673.299
6) T	MCP	7.724	8.070	663.5E6	154.7E6	69.764	70.267
7) T	MCPA	7.874	8.319	800.3E6	218.4E6	67.159	68.132
8) T	DICHLORPROP	8.256	8.690	2361.7E6	1016.2E6	642.605	663.162
9) T	2,4-D	8.489	9.025	2237.6E6	1120.9E6	658.055	668.594
10) T	Pentachlo...	8.797	9.551	37024.8E6	26410.4E6	716.281	696.183
11) T	2,4,5-TP ...	9.378	9.931	13677.8E6	9797.4E6	683.657	682.524
12) T	2,4,5-T	9.671	10.357	11424.9E6	9399.0E6	687.087	681.655
13) T	2,4-DB	10.251	10.925	1676.4E6	798.8E6	678.397	673.208
14) T	DINOSEB	11.470	11.310	9565.7E6	7384.9E6	675.475	673.969
15) T	Picloram	11.279	12.419	11520.5E6	16837.8E6	690.007	702.281
16) T	DCPA	11.766	12.355	17672.3E6	14867.2E6	680.354	692.283

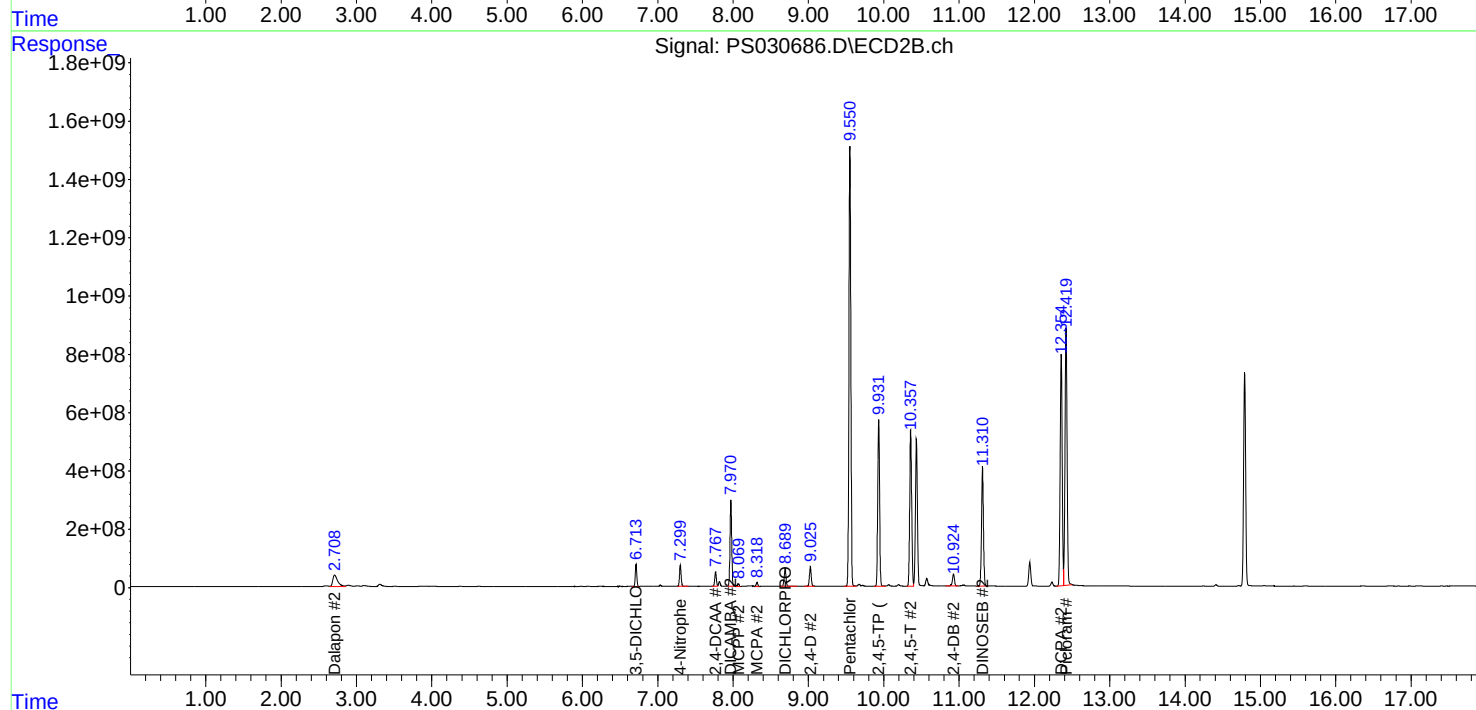
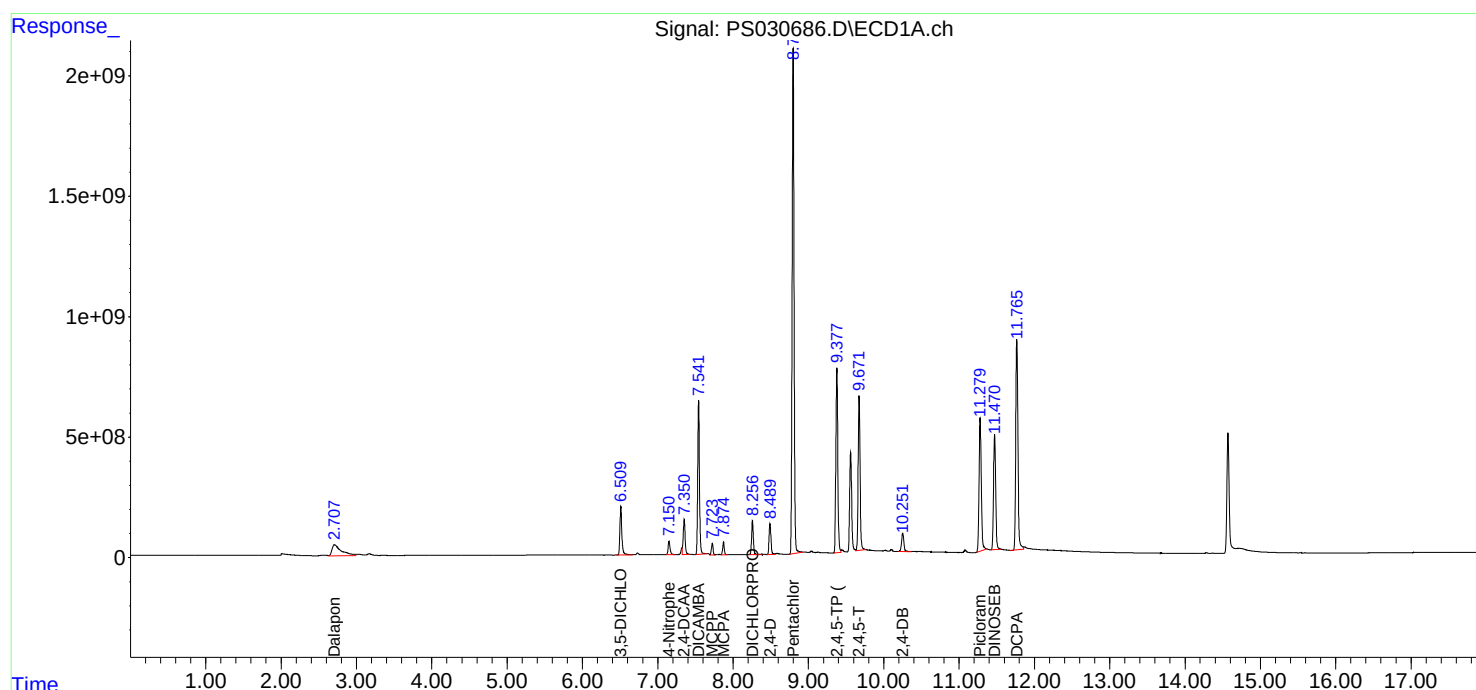
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030686.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 11:57
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS061625

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 12:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

Continuing Calib Date: 06/16/2025 Initial Calibration Date(s): 06/16/2025 06/16/2025

Continuing Calib Time: 17:25 Initial Calibration Time(s): 09:56 11:33

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.35	7.35	7.25	7.45	0.00
2,4-D	8.49	8.49	8.39	8.59	0.00
2,4,5-TP(Silvex)	9.38	9.38	9.28	9.48	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

Continuing Calib Date: 06/16/2025 Initial Calibration Date(s): 06/16/2025 06/16/2025

Continuing Calib Time: 17:25 Initial Calibration Time(s): 09:56 11:33

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

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



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 06/16/2025 06/16/2025

Client Sample No.: CCAL01 Date Analyzed: 06/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS030698.D Time Analyzed: 17:25

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.378	9.277	9.477	724.580	712.500	1.7
2,4-D	8.488	8.388	8.588	728.580	705.000	3.3
2,4-DCAA	7.350	7.250	7.450	712.270	750.000	-5.0



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM **Case No.:** Q2301 **SAS No.:** Q2301 **SDG NO.:** Q2301

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/16/2025 06/16/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/16/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030698.D **Time Analyzed:** 17:25

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.931	9.832	10.032	668.480	712.500	-6.2
2,4-D	9.025	8.926	9.126	667.720	705.000	-5.3
2,4-DCAA	7.768	7.668	7.868	706.810	750.000	-5.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030698.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 17:25
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:14:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.768	2678.7E6	763.1E6	712.274m	706.812
Target Compounds							
1) T	Dalapon	2.708	2.710	4088.7E6	1818.7E6	653.695	646.283
2) T	3,5-DICHL...	6.509	6.714	3379.1E6	975.5E6	621.500	603.029
3) T	4-Nitroph...	7.150	7.299	1164.3E6	1113.0E6	714.182	652.853
5) T	DICAMBA	7.541	7.971	10726.4E6	4477.3E6	685.586	675.258
6) T	MCP	7.723	8.070	683.3E6	150.4E6	71.846	68.307
7) T	MCPA	7.874	8.320	914.8E6	212.3E6	76.765	66.214
8) T	DICHLORPROP	8.256	8.690	2513.2E6	1008.0E6	683.809	657.775
9) T	2,4-D	8.488	9.025	2477.4E6	1119.4E6	728.584	667.719
10) T	Pentachlo...	8.797	9.551	38187.9E6	26588.8E6	738.783	700.887
11) T	2,4,5-TP ...	9.378	9.931	14496.6E6	9595.8E6	724.583	668.481
12) T	2,4,5-T	9.672	10.357	13011.8E6	9496.0E6	782.519	688.685
13) T	2,4-DB	10.250	10.925	1985.0E6	791.1E6	803.269m	666.725
14) T	DINOSEB	11.470	11.310	10290.4E6	7382.6E6	726.649	673.755
15) T	Picloram	11.278	12.419	13609.1E6	16630.2E6	815.104	693.625
16) T	DCPA	11.765	12.354	19064.1E6	15014.6E6	733.934	699.149m

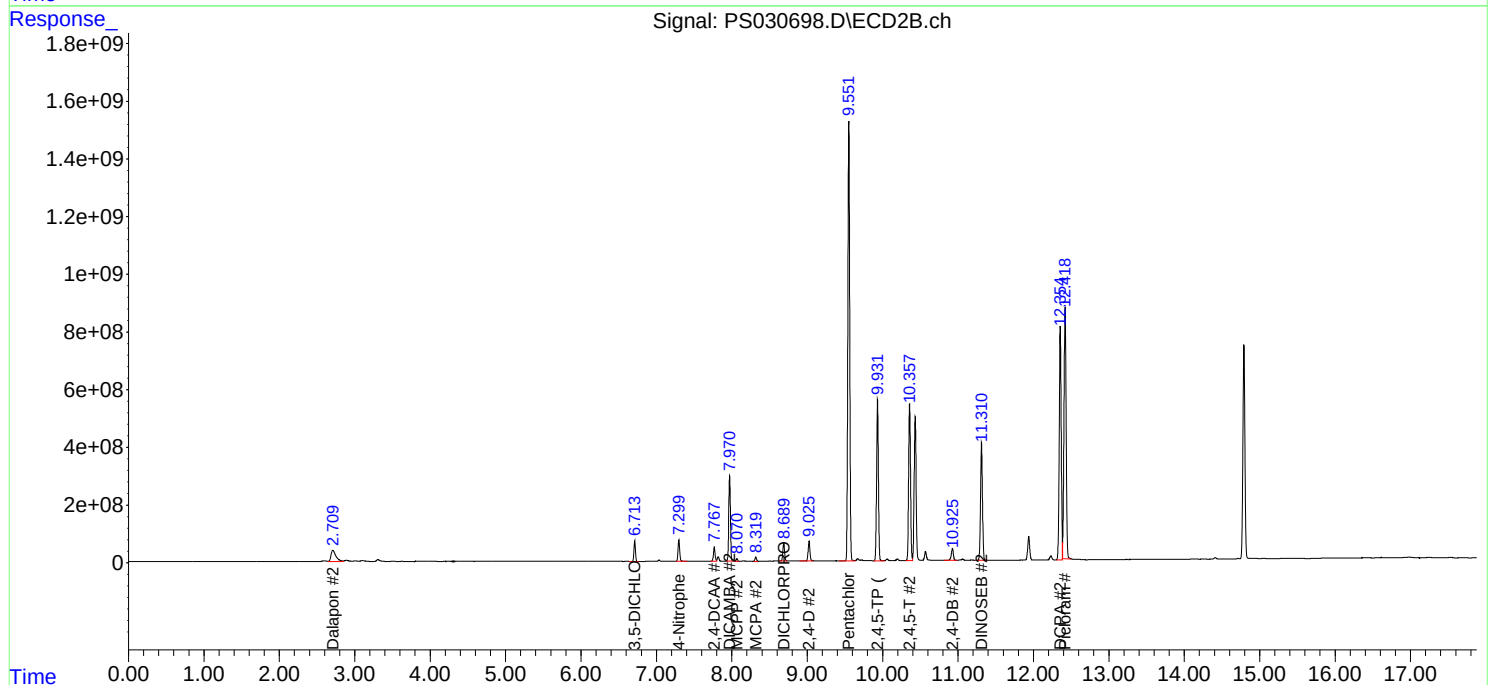
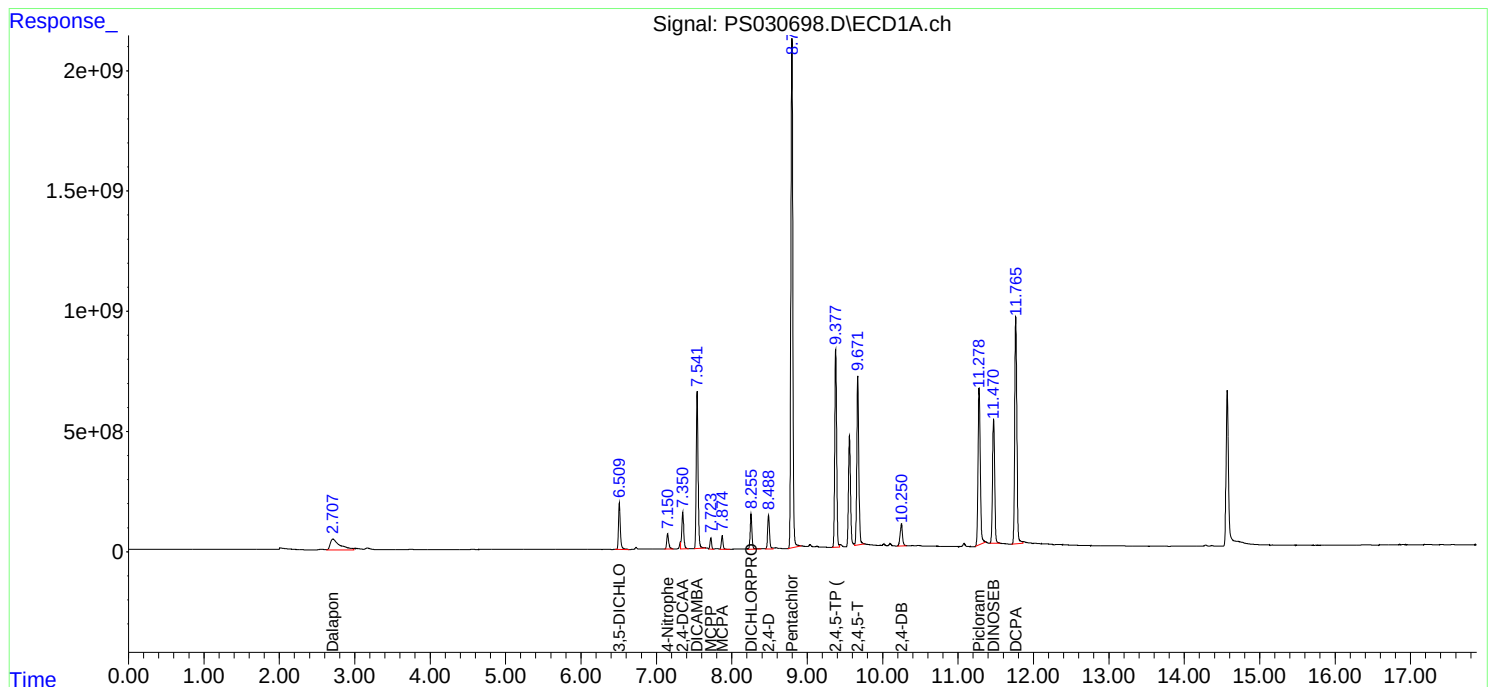
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030698.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 17:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:14:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

Continuing Calib Date: 06/16/2025 Initial Calibration Date(s): 06/16/2025 06/16/2025

Continuing Calib Time: 21:02 Initial Calibration Time(s): 09:56 11:33

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
2,4-DCAA	7.35	7.35	7.25	7.45	0.00
2,4-D	8.49	8.49	8.39	8.59	0.00
2,4,5-TP(Silvex)	9.38	9.38	9.28	9.48	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

Continuing Calib Date: 06/16/2025 Initial Calibration Date(s): 06/16/2025 06/16/2025

Continuing Calib Time: 21:02 Initial Calibration Time(s): 09:56 11:33

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

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



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CALIBRATION VERIFICATION SUMMARY

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301 SAS No.: Q2301 SDG NO.: Q2301

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 06/16/2025 06/16/2025

Client Sample No.: CCAL02 Date Analyzed: 06/16/2025

Lab Sample No.: HSTDCCC750 Data File : PS030706.D Time Analyzed: 21:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.377	9.277	9.477	713.140	712.500	0.1
2,4-D	8.488	8.388	8.588	699.550	705.000	-0.8
2,4-DCAA	7.350	7.250	7.450	709.590	750.000	-5.4



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CALIBRATION VERIFICATION SUMMARY
Contract: ENTA05
Lab Code: CHEM **Case No.:** Q2301 **SAS No.:** Q2301 **SDG NO.:** Q2301
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/16/2025 06/16/2025
Client Sample No.: CCAL02 **Date Analyzed:** 06/16/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030706.D **Time Analyzed:** 21:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-TP(Silvex)	9.932	9.832	10.032	680.650	712.500	-4.5
2,4-D	9.026	8.926	9.126	656.830	705.000	-6.8
2,4-DCAA	7.768	7.668	7.868	705.610	750.000	-5.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030706.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 21:02
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:16:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.768	2668.6E6	761.8E6	709.587m	705.610
Target Compounds							
1) T	Dalapon	2.711	2.711	4015.8E6	1791.6E6	642.036	636.627
2) T	3,5-DICHL...	6.510	6.714	3673.3E6	1064.1E6	675.610	657.817
3) T	4-Nitroph...	7.150	7.300	1137.2E6	1098.2E6	697.562	644.182
5) T	DICAMBA	7.541	7.972	10714.6E6	4454.6E6	684.832	671.839
6) T	MCP	7.723	8.071	676.9E6	152.3E6	71.175	69.168
7) T	MCPA	7.873	8.320	826.9E6	217.5E6	69.384	67.841
8) T	DICHLORPROP	8.255	8.690	2426.4E6	1008.8E6	660.206	658.306
9) T	2,4-D	8.488	9.026	2378.7E6	1101.1E6	699.551	656.829
10) T	Pentachlo...	8.796	9.552	38057.2E6	26552.8E6	736.253	699.937
11) T	2,4,5-TP ...	9.377	9.932	14267.6E6	9770.5E6	713.139	680.650
12) T	2,4,5-T	9.671	10.358	12403.7E6	9394.8E6	745.949	681.346
13) T	2,4-DB	10.248	10.926	1810.0E6	792.1E6	732.464m	667.580
14) T	DINOSEB	11.469	11.311	9931.6E6	7320.3E6	701.317	668.071
15) T	Picloram	11.279	12.420	12036.9E6	15952.9E6	720.935	665.372
16) T	DCPA	11.766	12.355	18872.0E6	14933.0E6	726.539	695.347m

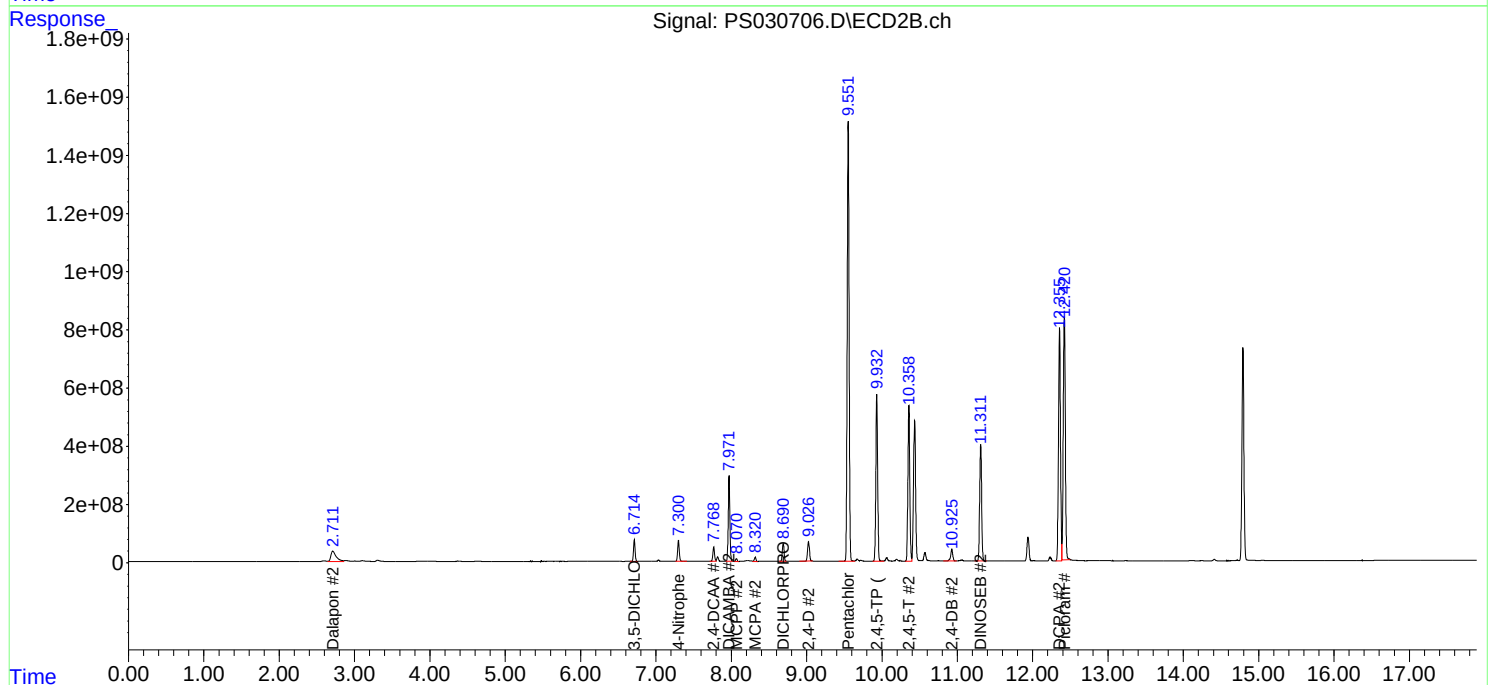
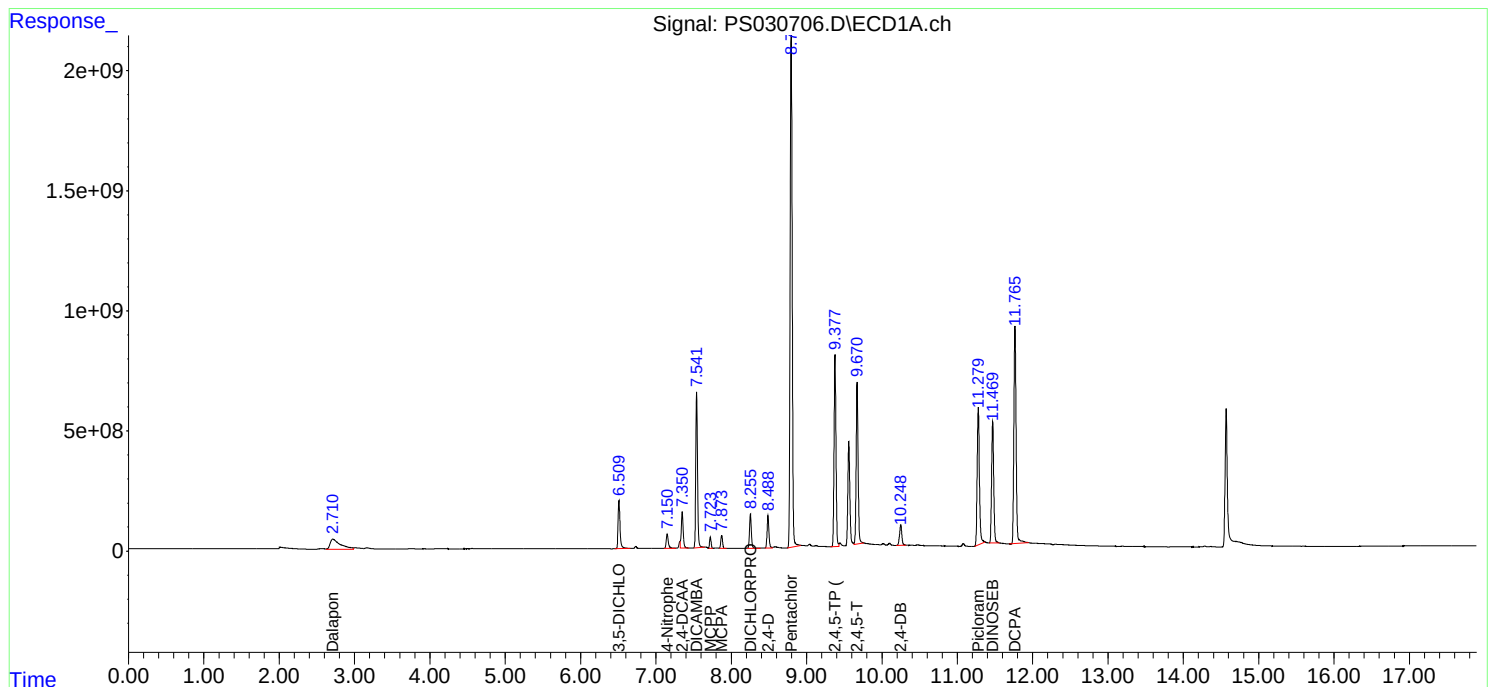
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030706.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 21:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:16:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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



Analytical Sequence

Client: ENTACT	SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 06/16/2025 06/16/2025

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 #
LBLK	LBLK	06/16/2025	09:32	PS030680.D	7.35	0.00
HSTDICC200	HSTDICC200	06/16/2025	09:56	PS030681.D	7.35	0.00
HSTDICC500	HSTDICC500	06/16/2025	10:20	PS030682.D	7.35	0.00
HSTDICC750	HSTDICC750	06/16/2025	10:44	PS030683.D	7.35	0.00
HSTDICC1000	HSTDICC1000	06/16/2025	11:09	PS030684.D	7.35	0.00
HSTDICC1500	HSTDICC1500	06/16/2025	11:33	PS030685.D	7.35	0.00
LBLK	LBLK	06/16/2025	17:01	PS030697.D	7.35	0.00
HSTDCCC750	HSTDCCC750	06/16/2025	17:25	PS030698.D	7.35	0.00
PB168495BL	PB168495BL	06/16/2025	18:13	PS030699.D	7.35	0.00
PB168495BS	PB168495BS	06/16/2025	18:37	PS030700.D	7.35	0.00
PB168428TB	PB168428TB	06/16/2025	19:01	PS030701.D	7.35	0.00
WC-URBAN-FILL-C	Q2301-03	06/16/2025	19:26	PS030702.D	7.35	0.00
WC-URBAN-FILL-CMS	Q2301-03MS	06/16/2025	19:50	PS030703.D	7.35	0.00
WC-URBAN-FILL-CMSD	Q2301-03MSD	06/16/2025	20:14	PS030704.D	7.35	0.00
LBLK	LBLK	06/16/2025	20:38	PS030705.D	7.35	0.00
HSTDCCC750	HSTDCCC750	06/16/2025	21:02	PS030706.D	7.35	0.00

Analytical Sequence

Client: ENTACT	SDG No.: Q2301
Project: 540 Degraw St, Brooklyn, NY - E9309	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 06/16/2025 06/16/2025

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 #
LBLK	LBLK	06/16/2025	09:32	PS030680.D	7.77	0.00
HSTDICC200	HSTDICC200	06/16/2025	09:56	PS030681.D	7.77	0.00
HSTDICC500	HSTDICC500	06/16/2025	10:20	PS030682.D	7.77	0.00
HSTDICC750	HSTDICC750	06/16/2025	10:44	PS030683.D	7.77	0.00
HSTDICC1000	HSTDICC1000	06/16/2025	11:09	PS030684.D	7.77	0.00
HSTDICC1500	HSTDICC1500	06/16/2025	11:33	PS030685.D	7.77	0.00
LBLK	LBLK	06/16/2025	17:01	PS030697.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/16/2025	17:25	PS030698.D	7.77	0.00
PB168495BL	PB168495BL	06/16/2025	18:13	PS030699.D	7.77	0.00
PB168495BS	PB168495BS	06/16/2025	18:37	PS030700.D	7.77	0.00
PB168428TB	PB168428TB	06/16/2025	19:01	PS030701.D	7.77	0.00
WC-URBAN-FILL-C	Q2301-03	06/16/2025	19:26	PS030702.D	7.77	0.00
WC-URBAN-FILL-CMS	Q2301-03MS	06/16/2025	19:50	PS030703.D	7.77	0.00
WC-URBAN-FILL-CMSD	Q2301-03MSD	06/16/2025	20:14	PS030704.D	7.77	0.00
LBLK	LBLK	06/16/2025	20:38	PS030705.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/16/2025	21:02	PS030706.D	7.77	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168495BS

Contract: ENTA05

Lab Code: CHEM

Case No.: Q2301

SAS No.: Q2301

SDG NO.: Q2301

Lab Sample ID: PB168495BS

Date(s) Analyzed: 06/16/2025

06/16/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.49	8.44	8.54	5.00	4.1
	2	9.03	8.98	9.08	4.80	
2,4,5-TP(Silvex)	1	9.38	9.33	9.43	5.10	8.2
	2	9.93	9.88	9.98	4.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-URBAN-FILL-CMS

Contract: ENTA05

Lab Code: CHEM

Case No.: Q2301

SAS No.: Q2301

SDG NO.: Q2301

Lab Sample ID: Q2301-03MS

Date(s) Analyzed: 06/16/2025

06/16/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.49	8.44	8.54	53.7	17.6
	2	9.03	8.98	9.08	45.0	
2,4,5-TP(Silvex)	1	9.38	9.33	9.43	50.3	14
	2	9.93	9.88	9.98	57.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-URBAN-FILL-CMSD

Contract: ENTA05

Lab Code: CHEM Case No.: Q2301

SAS No.: Q2301

SDG NO.: Q2301

Lab Sample ID: Q2301-03MSD

Date(s) Analyzed: 06/16/2025 06/16/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4-D	1	8.49	8.44	8.54	55.4	15.1
	2	9.03	8.98	9.08	47.6	
2,4,5-TP(Silvex)	1	9.38	9.33	9.43	51.7	13
	2	9.93	9.88	9.98	58.9	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB168495BL	SDG No.:	Q2301
Lab Sample ID:	PB168495BL	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030699.D	1	06/16/25 08:55	06/16/25 18:13	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	470		70 (61) - 130 (136)	94%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030699.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 18:13
Operator : AR\AJ
Sample : PB168495BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168495BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:14:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.351	7.767	1607.6E6	507.9E6	427.473	470.370

Target Compounds

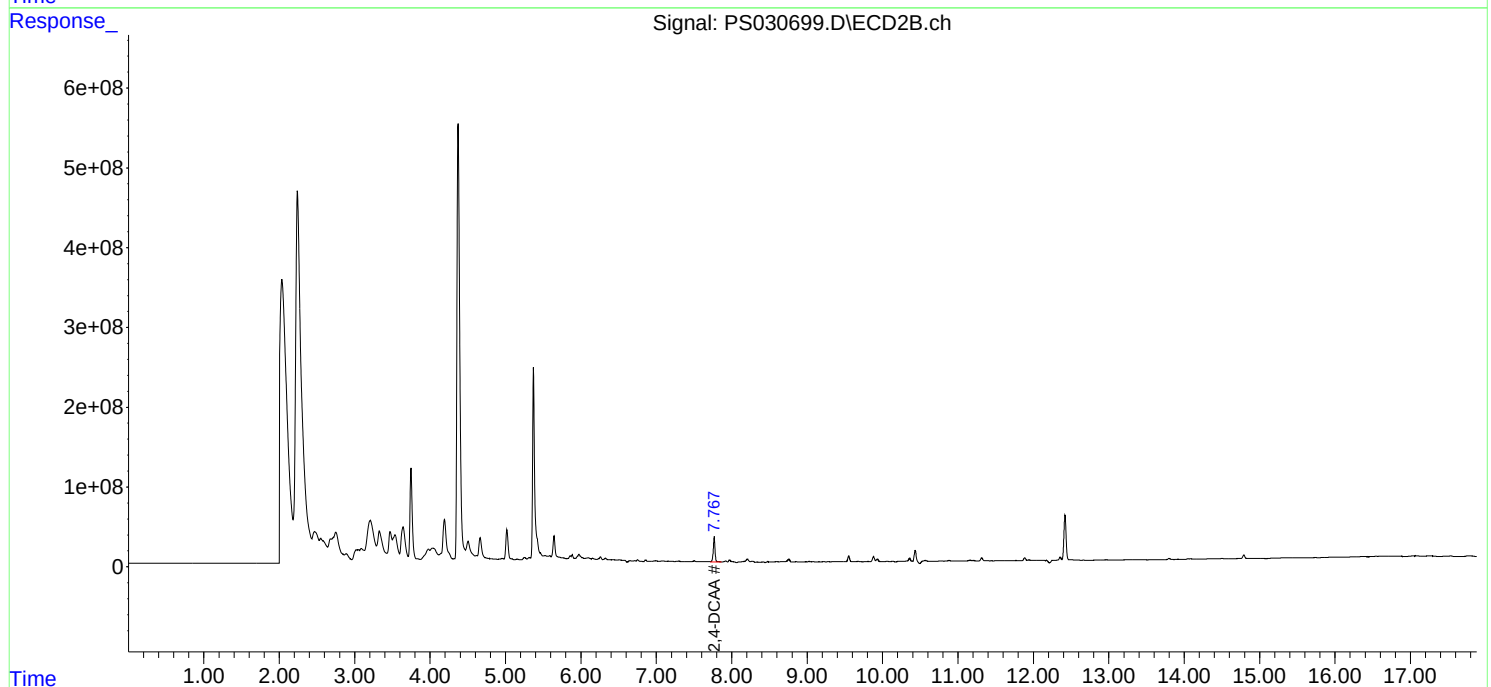
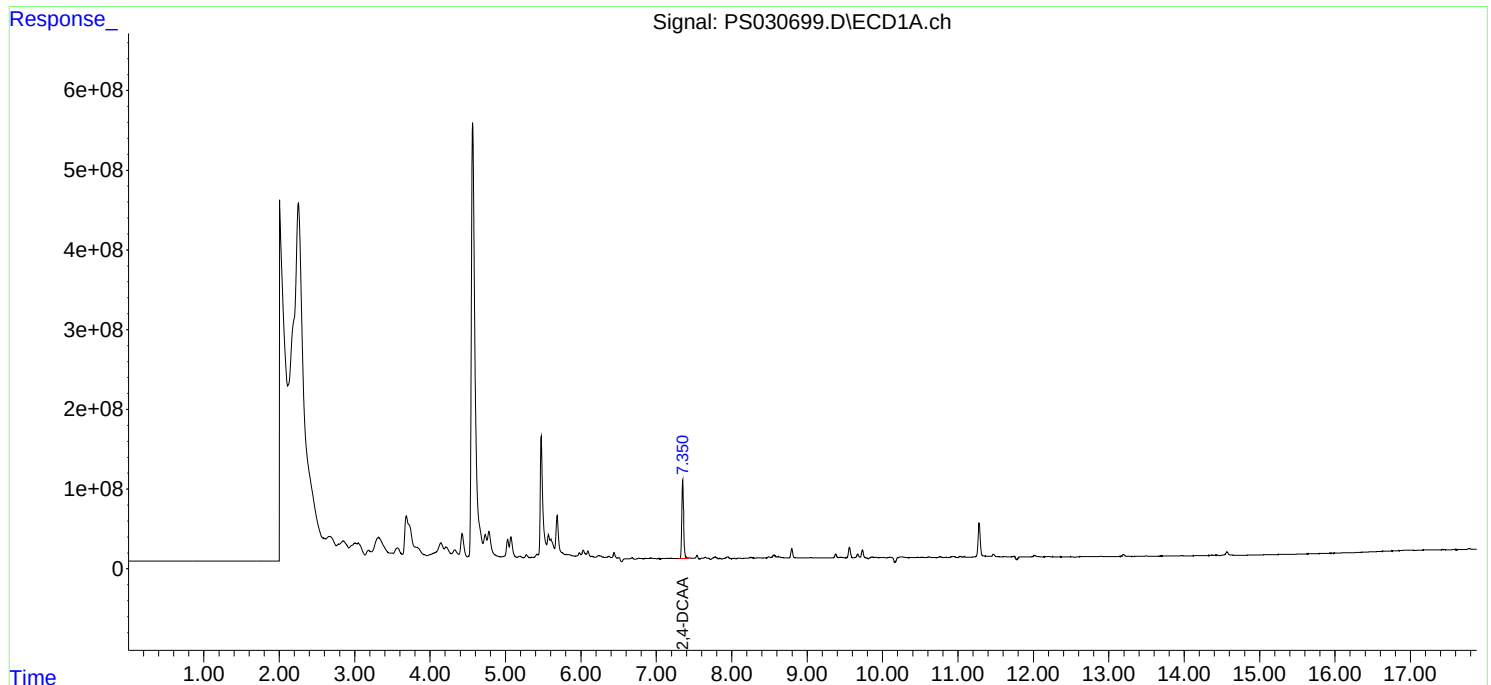
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

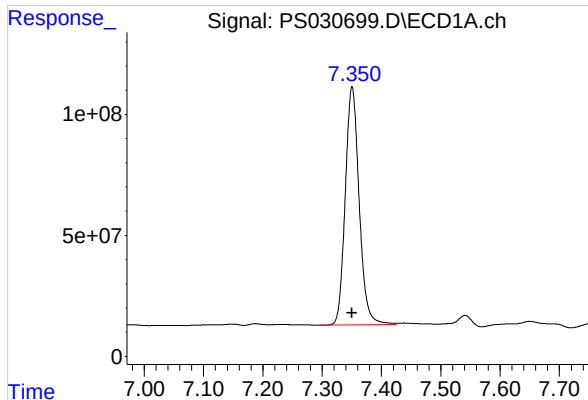
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030699.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 18:13
Operator : AR\AJ
Sample : PB168495BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168495BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:14:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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

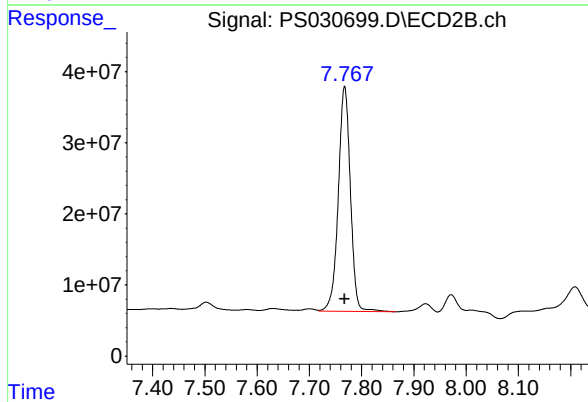




#4 2,4-DCAA

R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 1607645880
Conc: 427.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168495BL



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 507853822
Conc: 470.37 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	06/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/16/25
Client Sample ID:	PIBLK-PS030680.D	SDG No.:	Q2301
Lab Sample ID:	I.BLK-PS030680.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030680.D	1		06/16/25	PS061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	472		70 (61) - 130 (136)	94%	SPK: 500

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030680.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 09:32
 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: Jun 16 11:54:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 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	7.352	7.768	1489.3E6	510.0E6	395.991	472.390
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Target Compounds

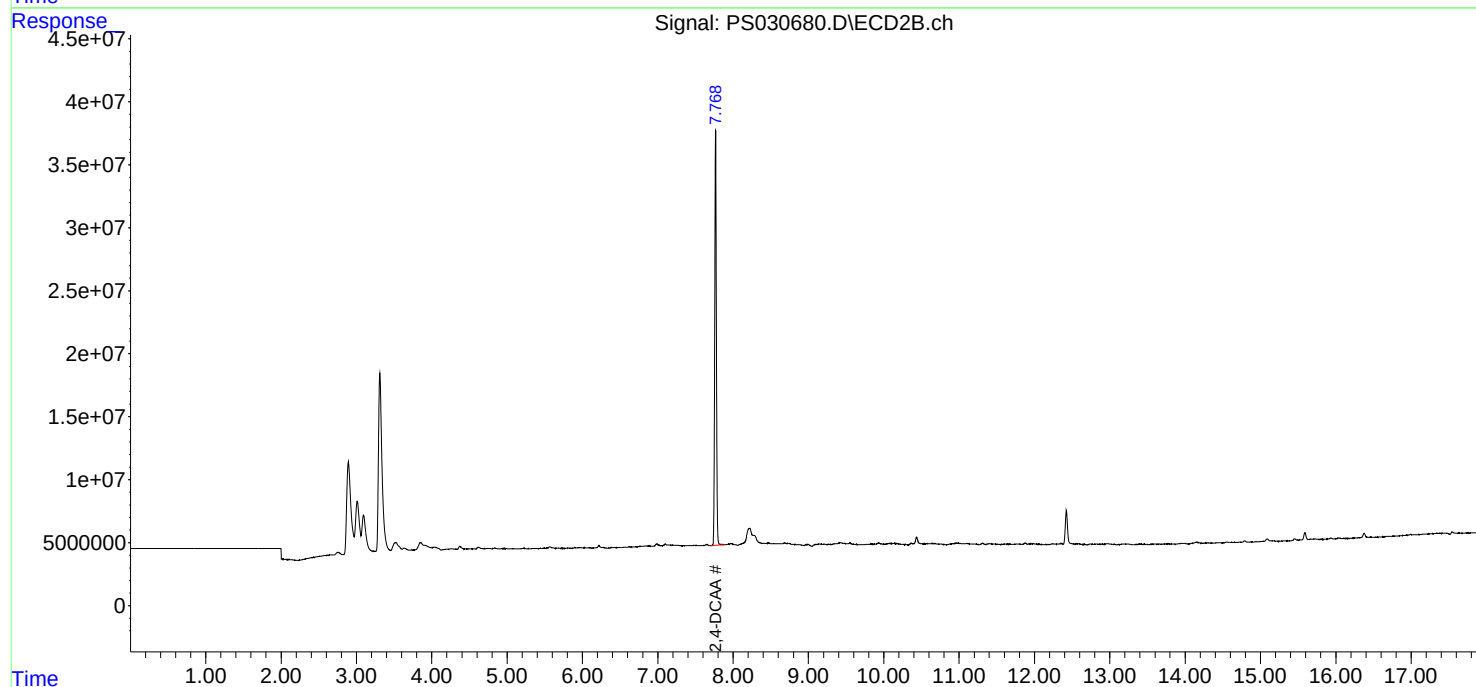
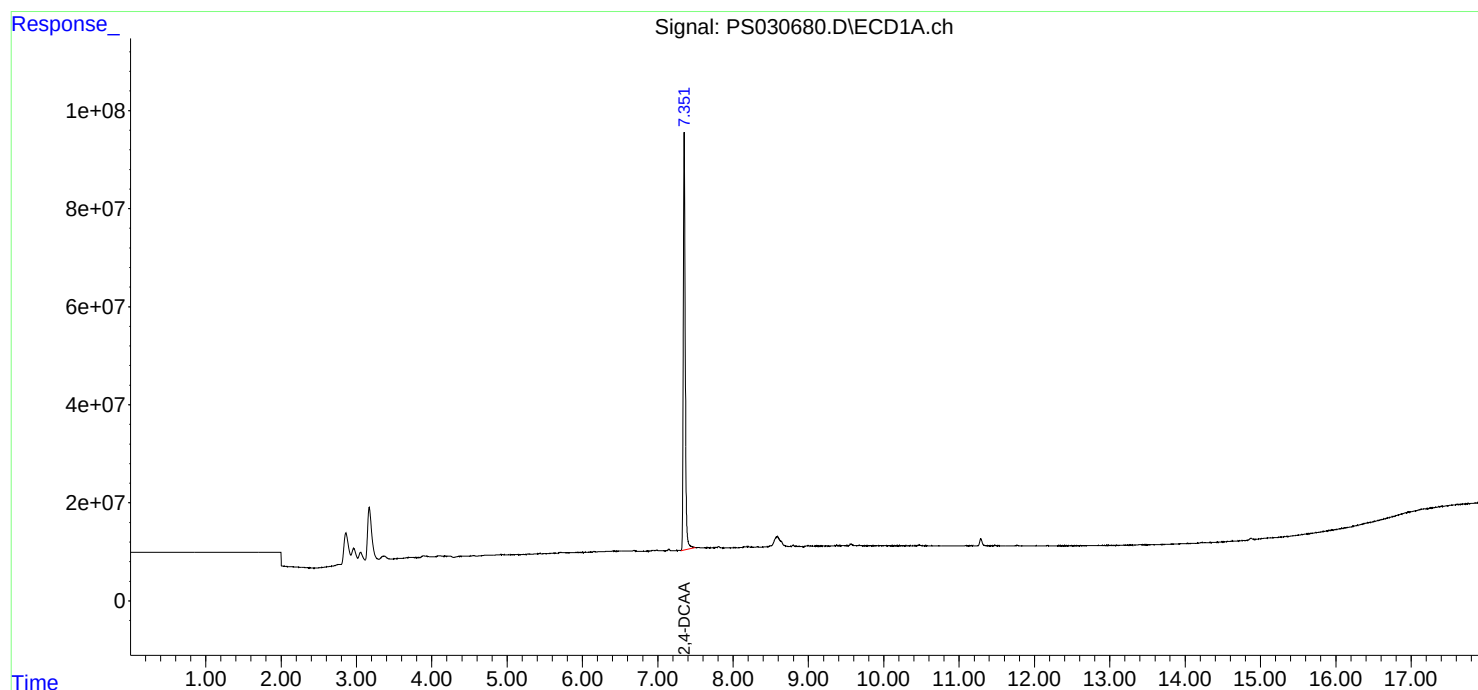
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

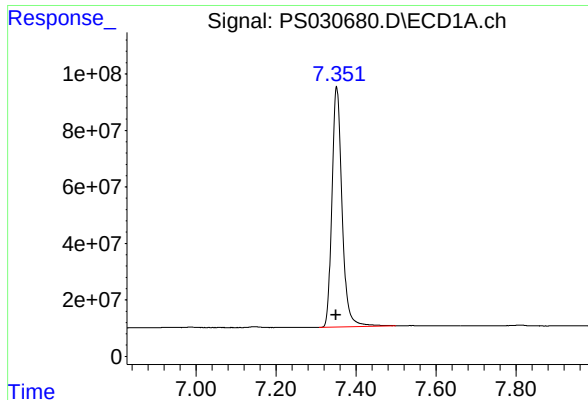
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030680.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 09:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 16 11:54:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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.: 7.352 min

Delta R.T.: 0.001 min

Response: 1489250686

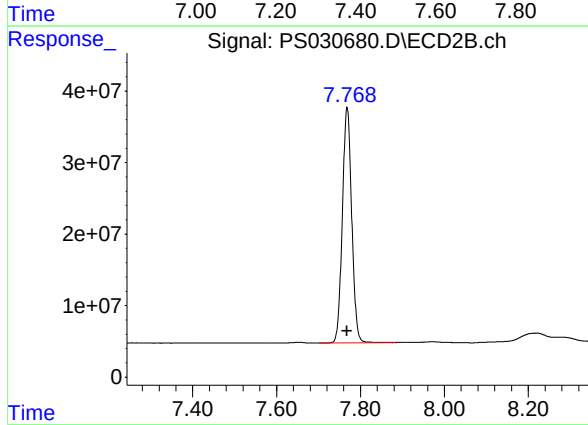
Conc: 395.99 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.768 min

Delta R.T.: 0.000 min

Response: 510035415

Conc: 472.39 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	06/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/16/25
Client Sample ID:	PIBLK-PS030697.D	SDG No.:	Q2301
Lab Sample ID:	I.BLK-PS030697.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030697.D	1		06/16/25	ps061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	477		70 (61) - 130 (136)	95%	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\PS061625\
 Data File : PS030697.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 17:01
 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: Jun 17 04:14:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 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	7.351	7.768	1676.5E6	514.5E6	445.789	476.551
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Target Compounds

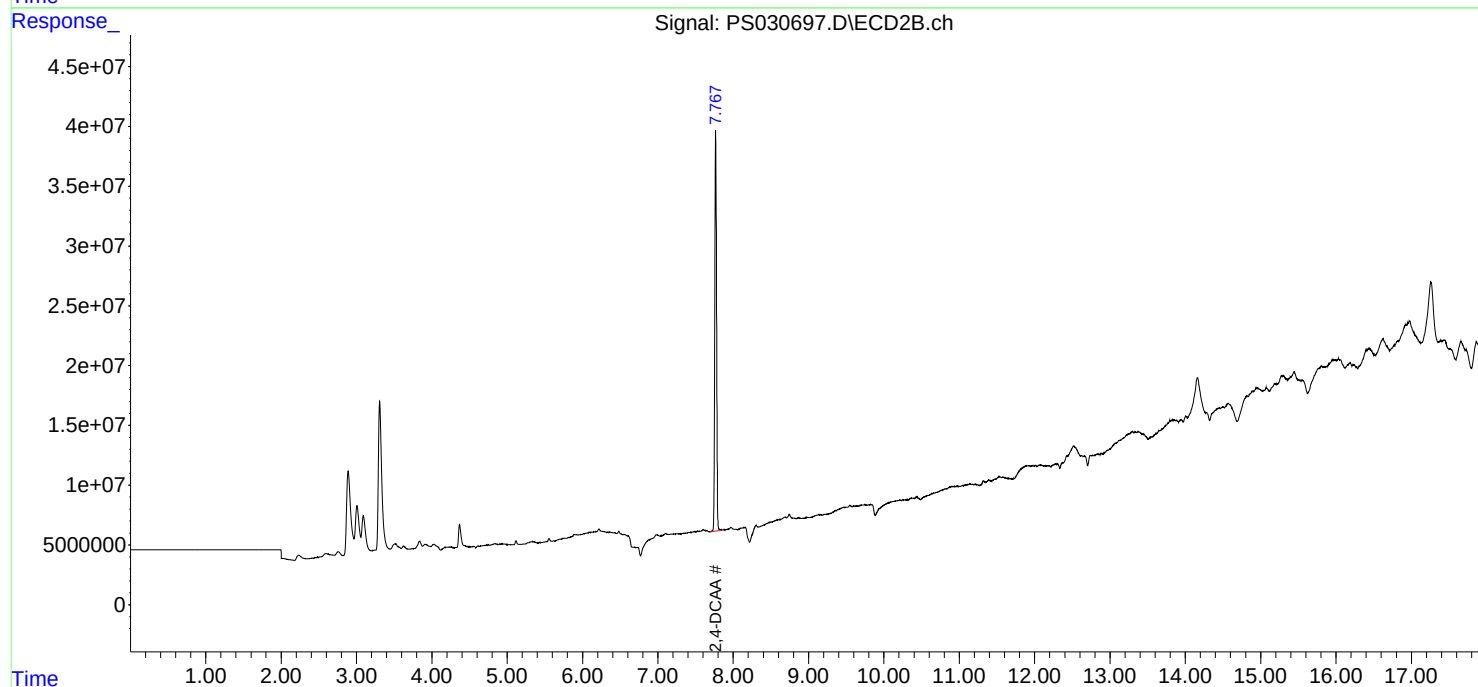
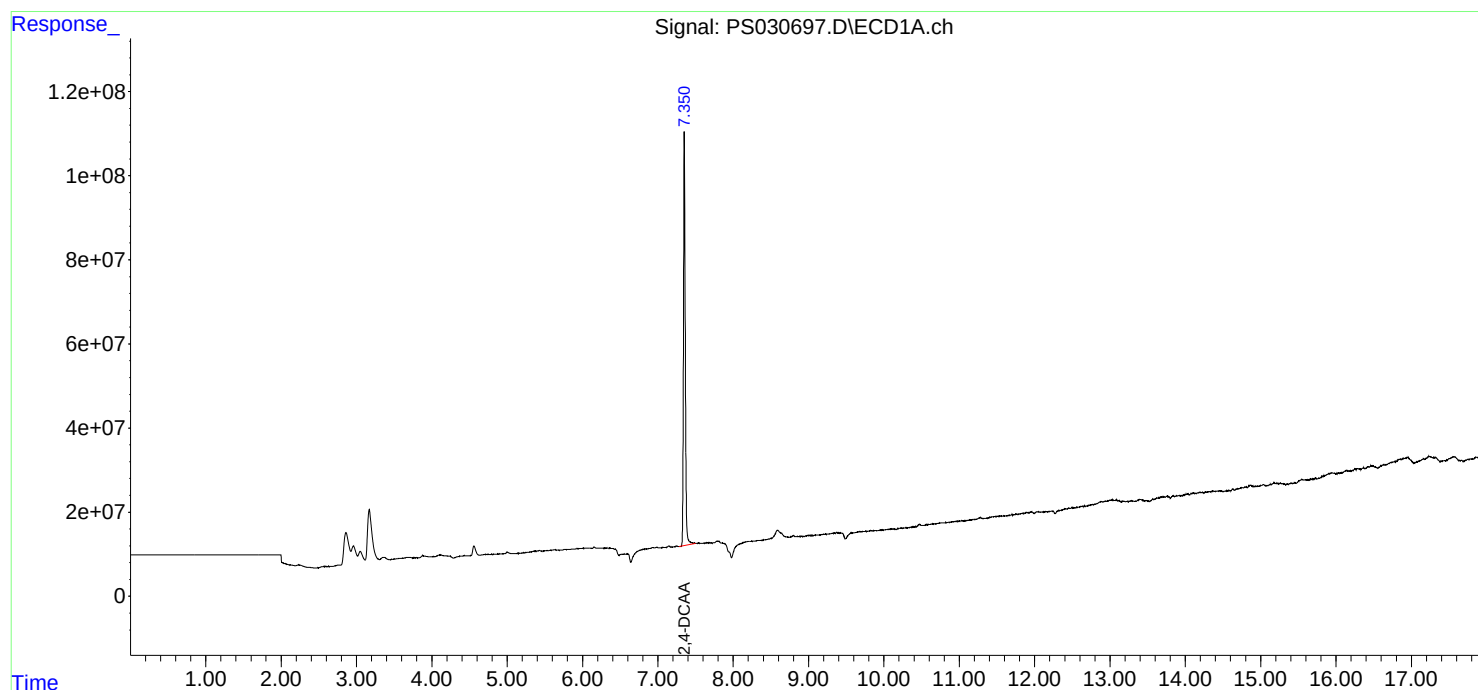
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

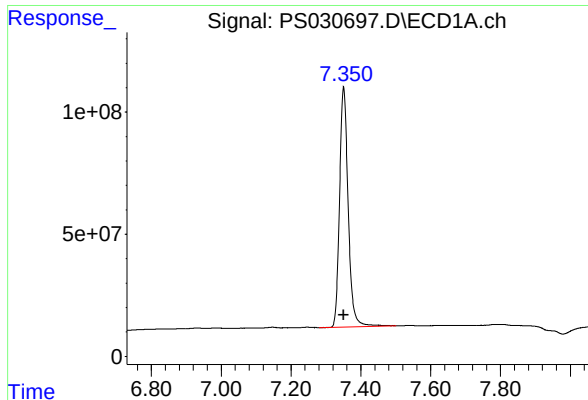
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030697.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 17:01
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:14:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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.: 7.351 min

Delta R.T.: 0.000 min

Response: 1676528219

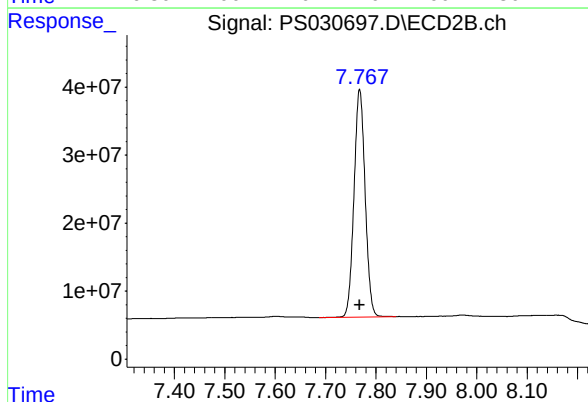
Conc: 445.79 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.768 min

Delta R.T.: 0.000 min

Response: 514527330

Conc: 476.55 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	06/16/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/16/25
Client Sample ID:	PIBLK-PS030705.D	SDG No.:	Q2301
Lab Sample ID:	I.BLK-PS030705.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030705.D	1		06/16/25	ps061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.00092	U	0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.00078	U	0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	478		70 (61) - 130 (136)	96%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030705.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 20:38
 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: Jun 17 04:16:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 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	7.351	7.768	1655.6E6	516.4E6	440.218	478.315
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Target Compounds

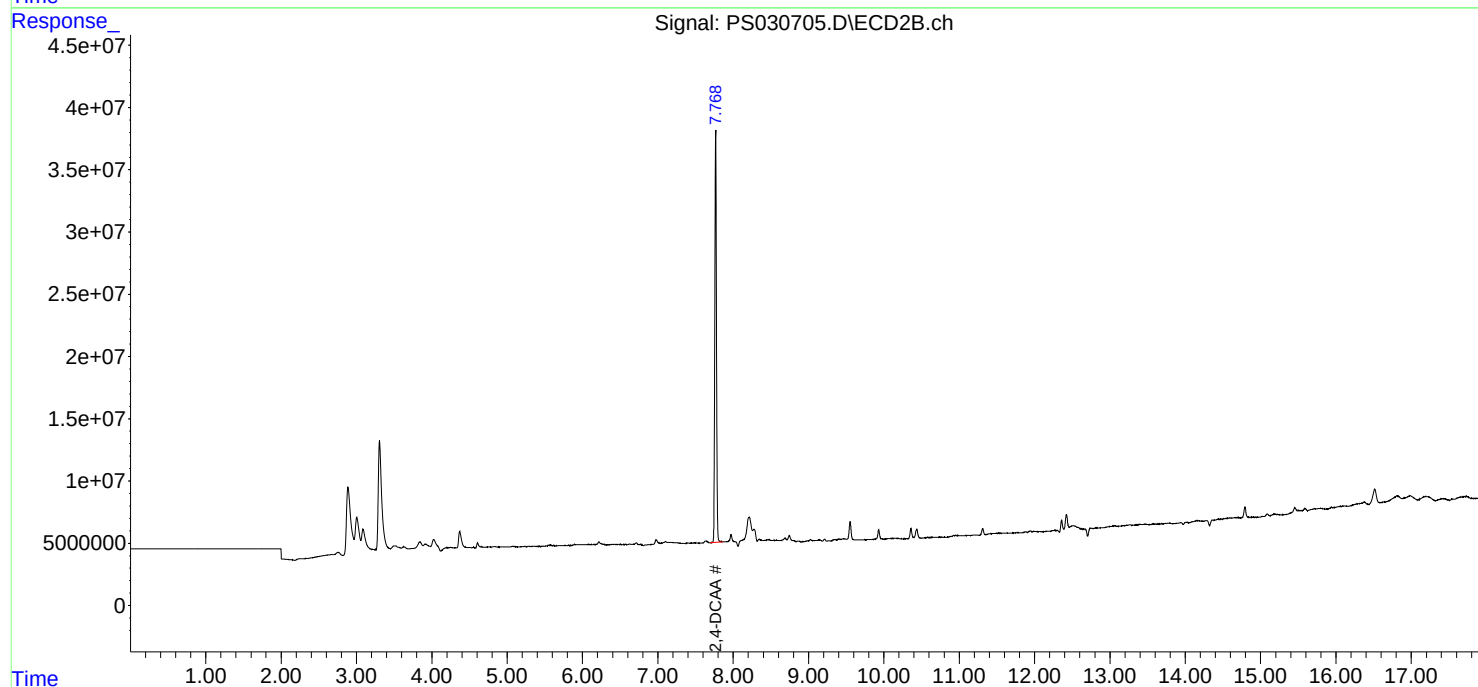
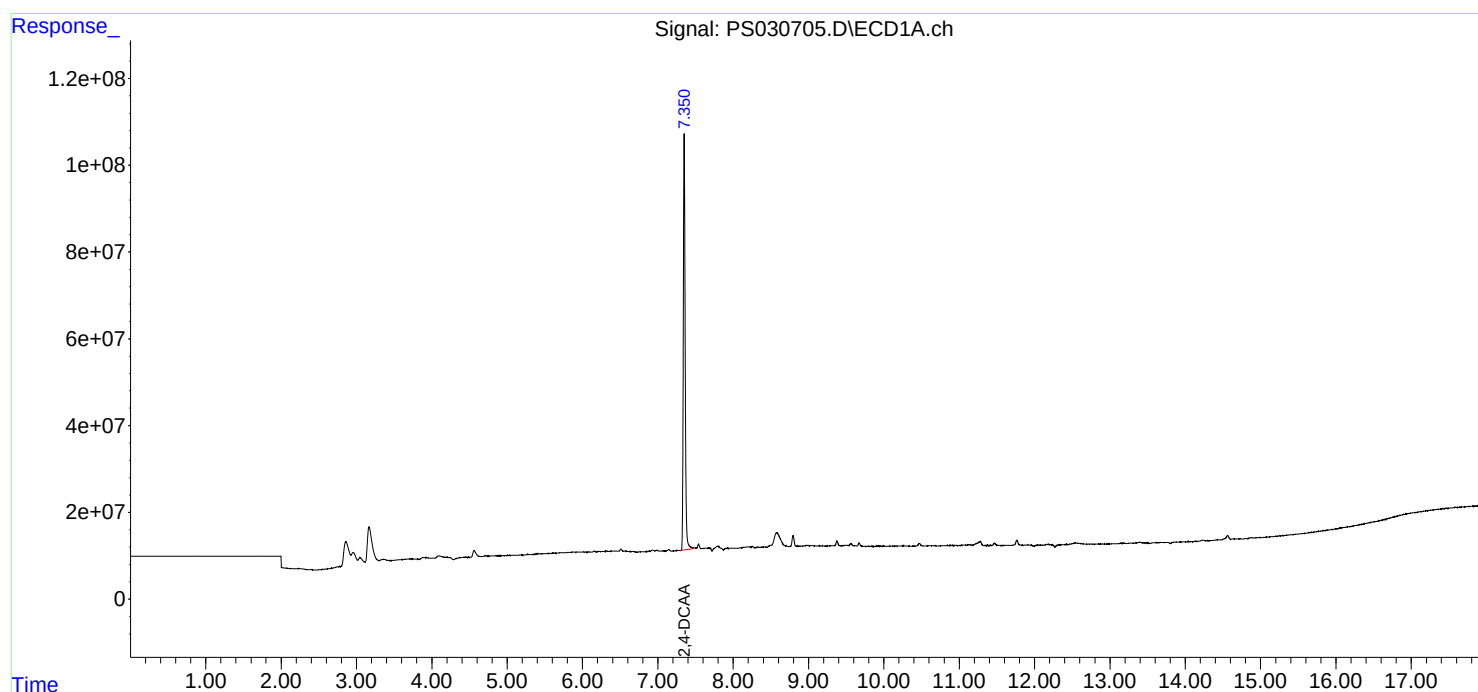
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

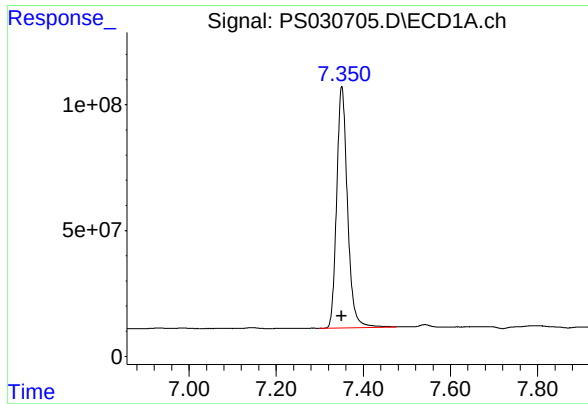
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030705.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 20:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:16:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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

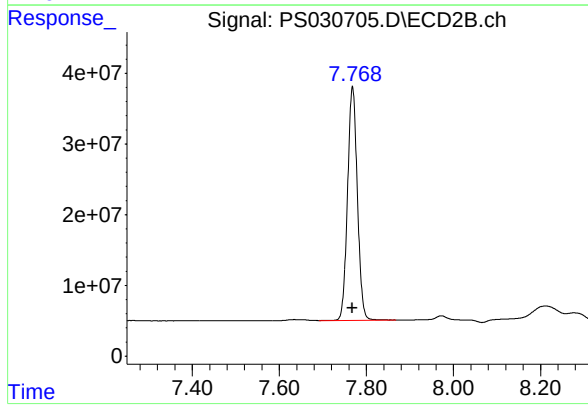




#4 2,4-DCAA

R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 1655578612
Conc: 440.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 516432083
Conc: 478.31 ng/ml

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB168495BS	SDG No.:	Q2301
Lab Sample ID:	PB168495BS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030700.D	1	06/16/25 08:55	06/16/25 18:37	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.0050		0.00092	0.0020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.0051		0.00078	0.0020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	501		70 (61) - 130 (136)	100%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030700.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 18:37
 Operator : AR\AJ
 Sample : PB168495BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB168495BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:15:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.768	1884.8E6	539.7E6	501.159m	499.895
Target Compounds							
1) T	Dalapon	2.710	2.712	3017.1E6	1257.7E6	482.368	446.935
2) T	3,5-DICHL...	6.509	6.714	2536.2E6	715.1E6	466.474	442.062
3) T	4-Nitroph...	7.150	7.300	804.1E6	759.5E6	493.226	445.509
5) T	DICAMBA	7.541	7.971	7513.3E6	3092.8E6	480.217	466.456
6) T	MCP	7.721	8.068	439.3E6	101.1E6	46.192	45.910
7) T	MCPA	7.872	8.317	559.4E6	144.8E6	46.939	45.162
8) T	DICHLORPROP	8.255	8.690	1745.5E6	715.3E6	474.928	466.825
9) T	2,4-D	8.488	9.026	1703.5E6	801.3E6	500.962	477.962
10) T	Pentachlo...	8.796	9.551	26878.4E6	18636.6E6	519.988	491.264
11) T	2,4,5-TP ...	9.377	9.932	10139.8E6	6795.8E6	506.815	473.423
12) T	2,4,5-T	9.671	10.358	8818.2E6	6626.0E6	530.321	480.547
13) T	2,4-DB	10.250	10.925	1367.7E6	554.7E6	553.473	467.447
14) T	DINOSEB	11.470	11.311	7156.4E6	5130.7E6	505.345	468.239
15) T	Picloram	11.278	12.419	8949.6E6	11537.1E6	536.024	481.195
16) T	DCPA	11.765	12.354	13398.2E6	10526.1E6	515.807	490.142m

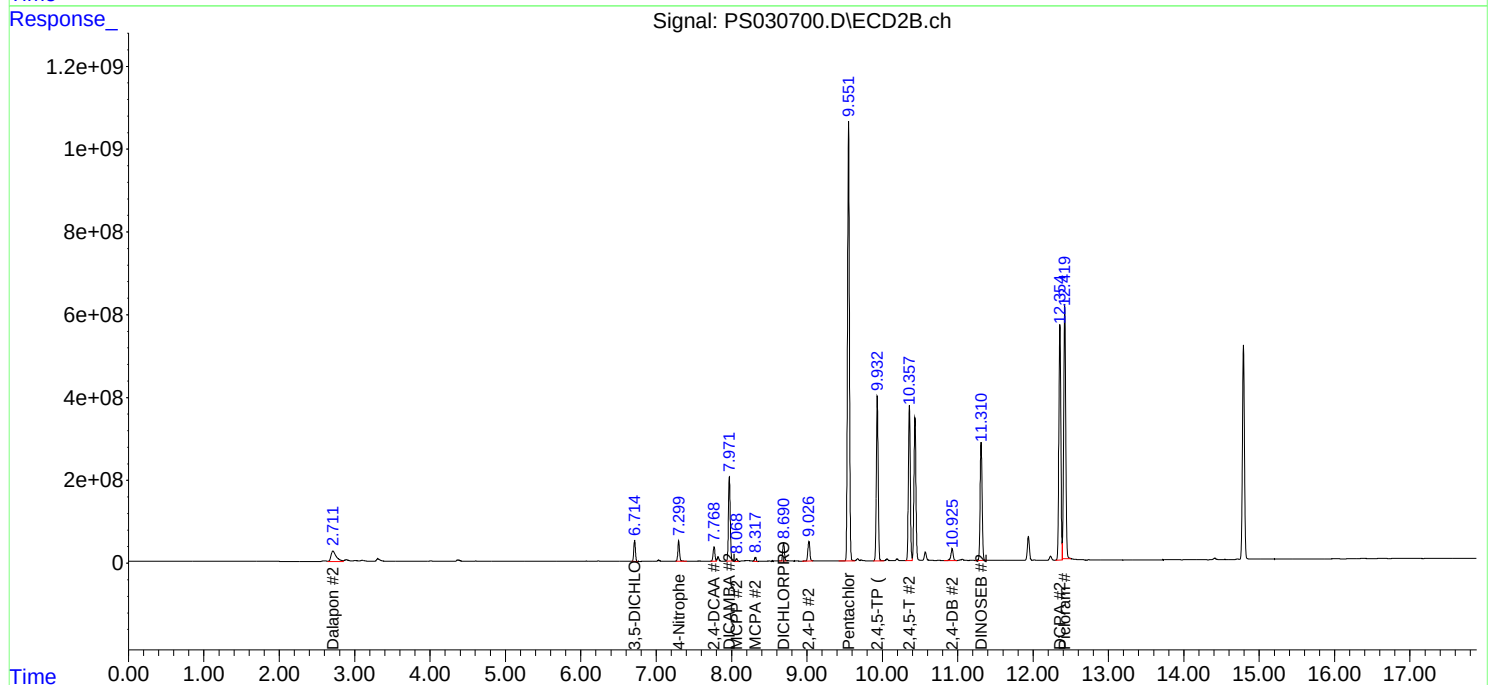
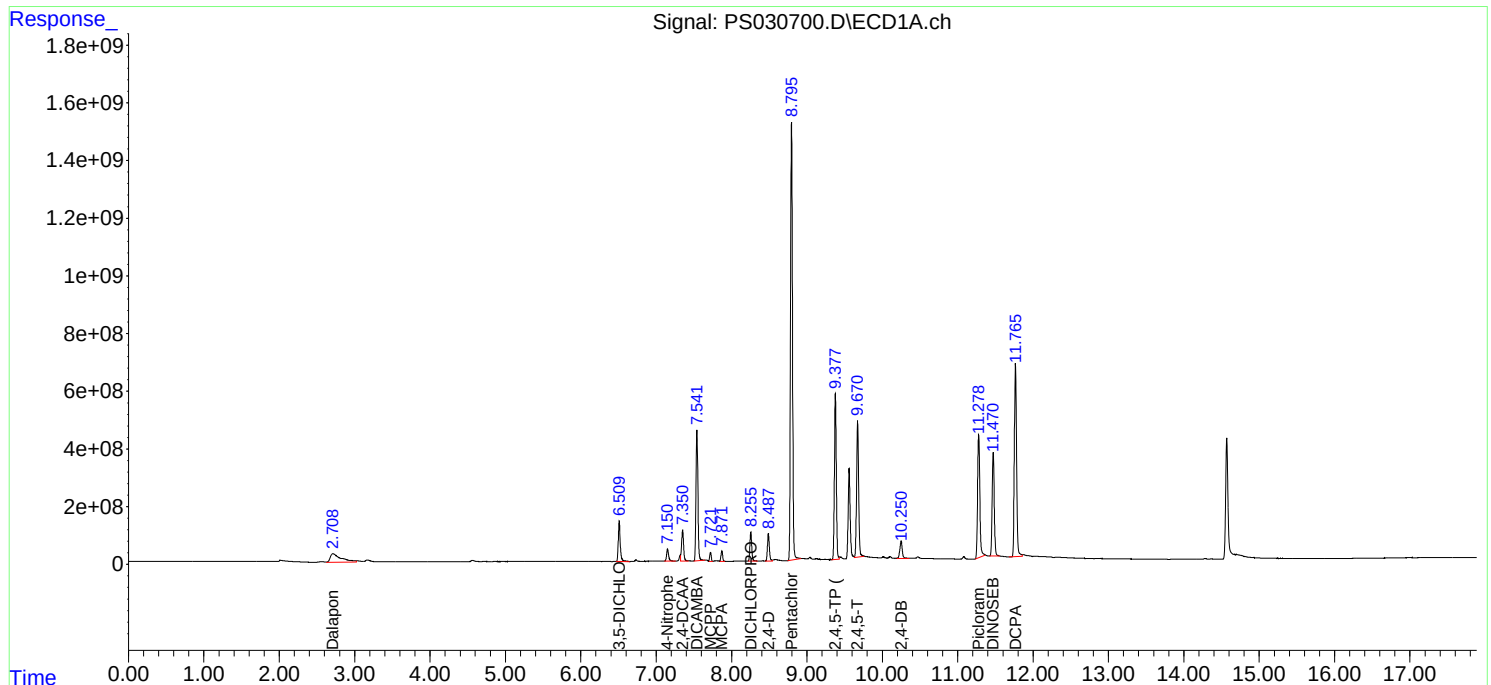
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030700.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 18:37
Operator : AR\AJ
Sample : PB168495BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168495BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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:	ENTACT	Date Collected:	06/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-CMS	SDG No.:	Q2301
Lab Sample ID:	Q2301-03MS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030703.D	1	06/16/25 08:55	06/16/25 19:50	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.054		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.058		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	484		70 (61) - 130 (136)	97%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030703.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 19:50
 Operator : AR\AJ
 Sample : Q2301-03MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-URBAN-FILL-CMS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:15:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
4) S	2,4-DCAA	7.350	7.768	1819.7E6	501.8E6	483.846	464.773
Target Compounds							
1) T	Dalapon	2.703	2.713	4914.5E6	4900.6E6	785.722	1741.407 #
2) T	3,5-DICHL...	6.510	6.714	2259.9E6	666.9E6	415.649	412.287
5) T	DICAMBA	7.541	7.972	6338.3E6	2689.7E6	405.119	405.652
6) T	MCPPE	7.722	8.070	347.0E6	70266678	36.485	31.919
7) T	MCPA	7.872	8.317	472.5E6	122.9E6	39.649	38.345
8) T	DICHLORPROP	8.256	8.691	1625.2E6	670.4E6	442.189	437.491
9) T	2,4-D	8.488	9.026	1825.4E6	754.0E6	536.826	449.741
10) T	Pentachlo...	8.796	9.552	23132.9E6	15688.7E6	447.528	413.558
11) T	2,4,5-TP ...	9.377	9.933	10054.8E6	8314.9E6	502.567	579.253
12) T	2,4,5-T	9.671	10.359	8333.0E6	6104.6E6	501.143	442.728
13) T	2,4-DB	10.251	10.925	995.2E6	513.2E6	402.733m	432.524m
14) T	DINOSEB	11.470	11.311	4780.8E6	3287.6E6	337.591	300.034
15) T	Picloram	11.278	12.419	7557.3E6	9262.6E6	452.638	386.332
16) T	DCPA	11.765	12.355	11087.8E6	9377.3E6	426.860	436.648m

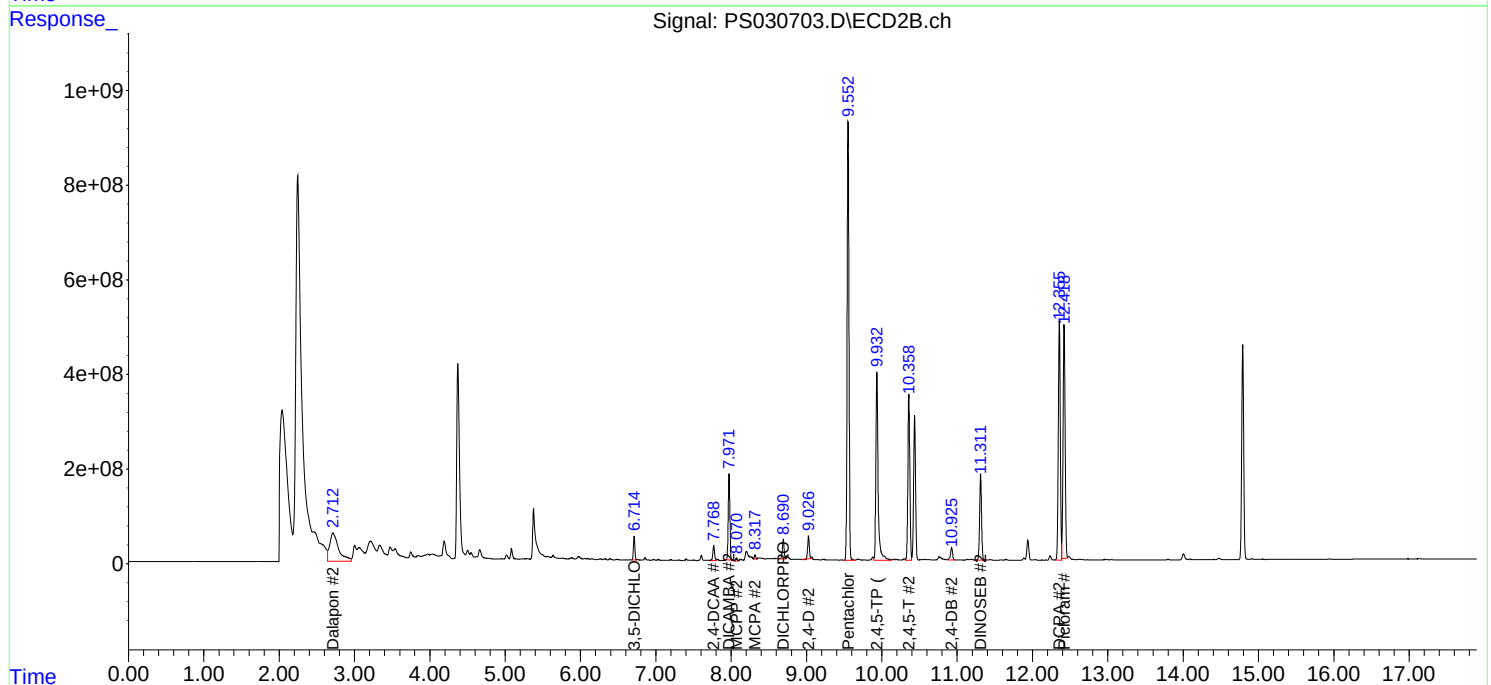
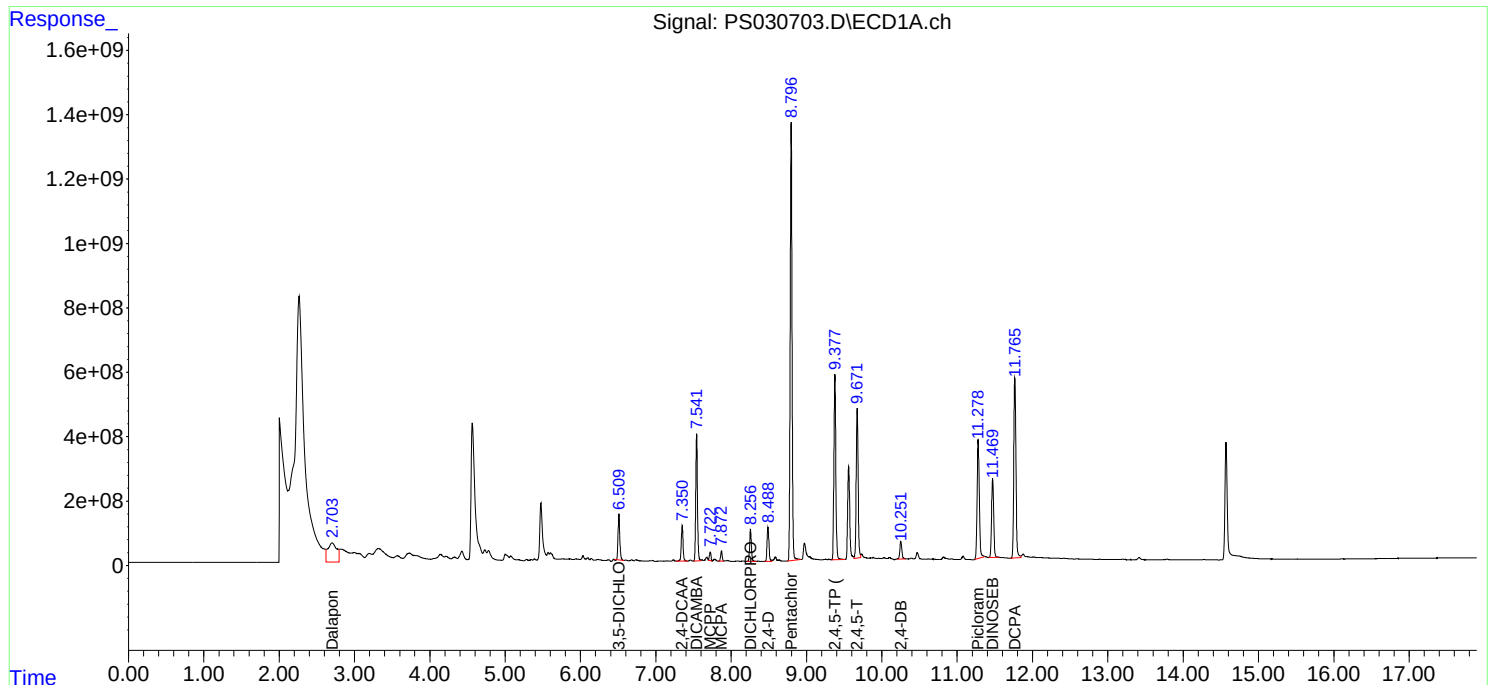
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030703.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 19:50
Operator : AR\AJ
Sample : Q2301-03MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-URBAN-FILL-CMS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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:	ENTACT	Date Collected:	06/11/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	06/11/25
Client Sample ID:	WC-URBAN-FILL-CMSD	SDG No.:	Q2301
Lab Sample ID:	Q2301-03MSD	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030704.D	1	06/16/25 08:55	06/16/25 20:14	PB168495

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.055		0.0092	0.020	mg/L
93-72-1	2,4,5-TP (Silvex)	0.059		0.0078	0.020	mg/L
SURROGATES						
19719-28-9	2,4-DCAA	490		70 (61) - 130 (136)	98%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
 Data File : PS030704.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 16 Jun 2025 20:14
 Operator : AR\AJ
 Sample : Q2301-03MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WC-URBAN-FILL-CMSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 17 04:15:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
 Quant Title : 8080.M
 QLast Update : Mon Jun 16 11:52:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
4) S 2,4-DCAA	7.351	7.768	1844.3E6	514.0E6	490.390	476.032
Target Compounds						
1) T Dalapon	2.702	2.712	5056.9E6	4860.2E6	808.494	1727.050 #
2) T 3,5-DICHL...	6.509	6.714	2422.8E6	687.7E6	445.616m	425.097
5) T DICAMBA	7.542	7.971	6508.3E6	2757.9E6	415.986	415.939
6) T MCPP	7.722	8.070	353.4E6	75805527	37.152	34.435
7) T MCPA	7.872	8.317	486.7E6	126.4E6	40.841	39.421
8) T DICHLORPROP	8.255	8.690	1670.6E6	685.8E6	454.553	447.513
9) T 2,4-D	8.488	9.025	1883.6E6	797.8E6	553.941	475.903
10) T Pentachlo...	8.796	9.551	23955.2E6	16181.2E6	463.437	426.540
11) T 2,4,5-TP ...	9.377	9.932	10337.9E6	8448.8E6	516.719	588.578
12) T 2,4,5-T	9.671	10.358	8605.3E6	6266.3E6	517.516	454.454
13) T 2,4-DB	10.251	10.924	1044.4E6	524.0E6	422.651m	441.643m
14) T DINOSEB	11.470	11.310	4932.4E6	3387.9E6	348.298	309.191
15) T Picloram	11.278	12.418	7856.3E6	9520.7E6	470.542	397.094
16) T DCPA	11.764	12.355	11373.1E6	9602.1E6	437.844	447.118m

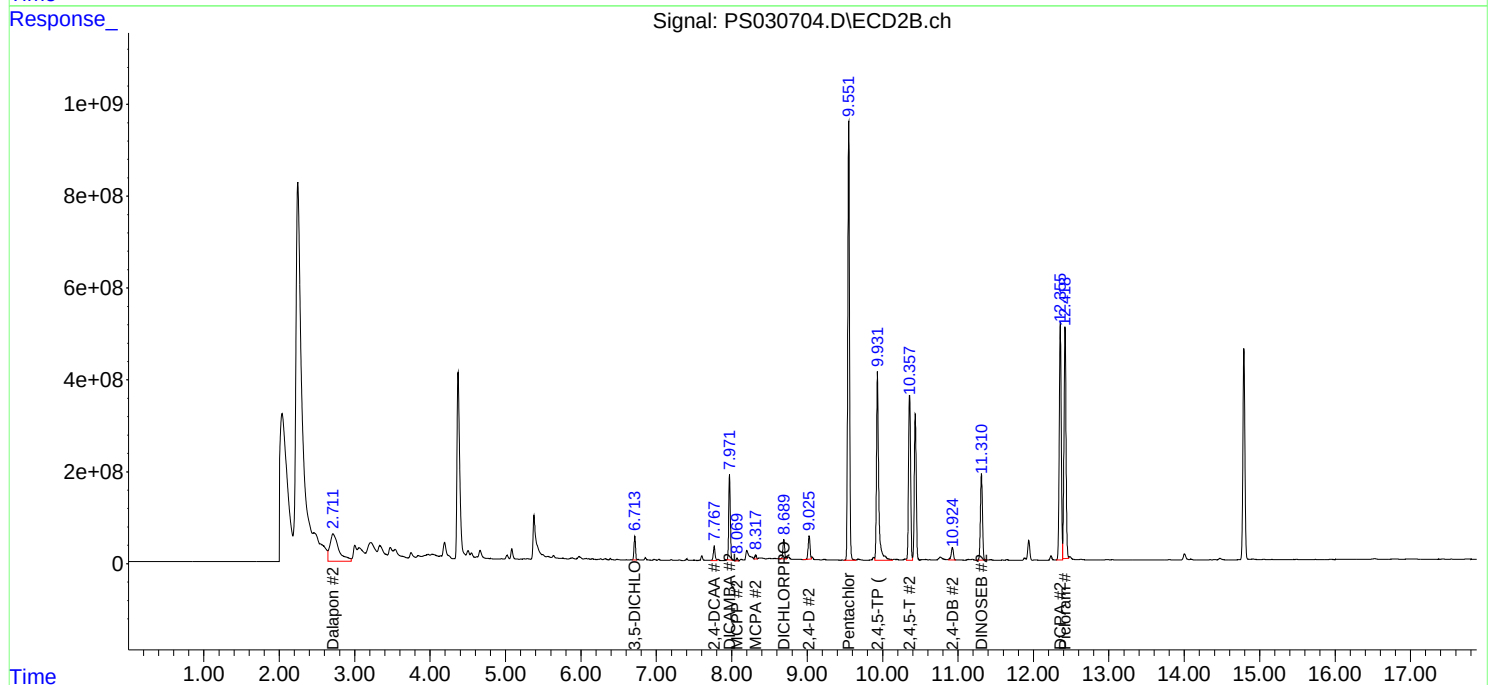
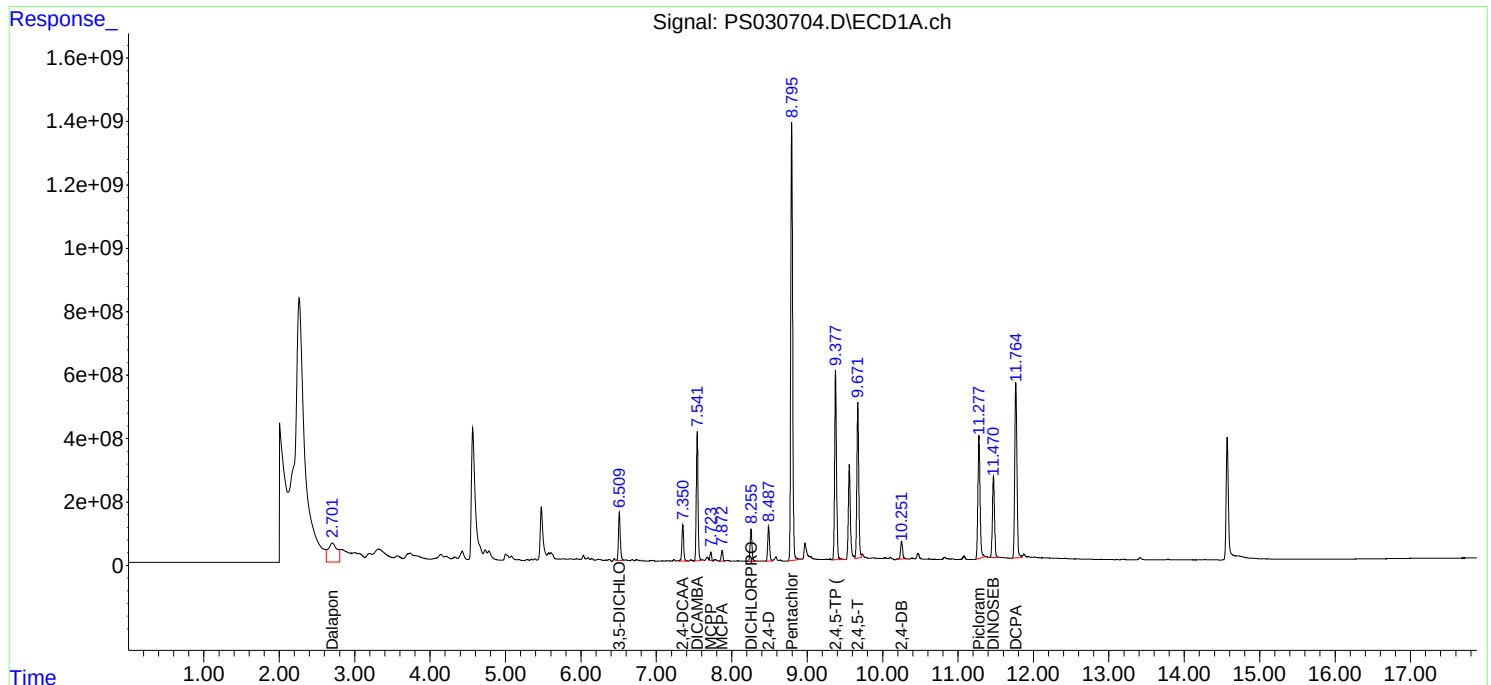
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS061625\
Data File : PS030704.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Jun 2025 20:14
Operator : AR\AJ
Sample : Q2301-03MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-URBAN-FILL-CMSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 17 04:15:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS061625.M
Quant Title : 8080.M
QLast Update : Mon Jun 16 11:52:28 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:	PS061625	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS030681.D	2,4-DCAA	Abdul	6/17/2025 8:55:56 AM	 	 	Peak Integrated by Software
HSTDICC200	PS030681.D	Dalapon	Abdul	6/17/2025 8:55:56 AM	 	 	Peak Integrated by Software
HSTDICC200	PS030681.D	DCPA #2	Abdul	6/17/2025 8:55:56 AM	 	 	Peak Integrated by Software
HSTDICC500	PS030682.D	2,4-DCAA	Abdul	6/17/2025 8:56:00 AM	 	 	Peak Integrated by Software
HSTDICC500	PS030682.D	Dalapon	Abdul	6/17/2025 8:56:00 AM	 	 	Peak Integrated by Software
HSTDICC500	PS030682.D	DCPA #2	Abdul	6/17/2025 8:56:00 AM	 	 	Peak Integrated by Software
HSTDICC750	PS030683.D	2,4-DCAA	Abdul	6/17/2025 8:56:04 AM	 	 	Peak Integrated by Software
HSTDICC1000	PS030684.D	2,4-DCAA	Abdul	6/17/2025 8:56:08 AM	 	 	Peak Integrated by Software
HSTDICC1000	PS030684.D	DCPA #2	Abdul	6/17/2025 8:56:08 AM	 	 	Peak Integrated by Software
HSTDICC1500	PS030685.D	2,4-DCAA	Abdul	6/17/2025 8:56:12 AM	 	 	Peak Integrated by Software
HSTDICC1500	PS030685.D	DCPA #2	Abdul	6/17/2025 8:56:12 AM	 	 	Peak Integrated by Software
HSTDICV750	PS030686.D	2,4-DCAA	Abdul	6/17/2025 8:56:16 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030688.D	2,4-DCAA	Abdul	6/17/2025 8:56:20 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:	PS061625	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030688.D	DCPA #2	Abdul	6/17/2025 8:56:20 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030698.D	2,4-DB	Abdul	6/17/2025 8:56:27 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030698.D	2,4-DCAA	Abdul	6/17/2025 8:56:27 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030698.D	DCPA #2	Abdul	6/17/2025 8:56:27 AM	 	 	Peak Integrated by Software
PB168495BS	PS030700.D	2,4-DCAA	Abdul	6/17/2025 8:56:32 AM	 	 	Peak Integrated by Software
PB168495BS	PS030700.D	DCPA #2	Abdul	6/17/2025 8:56:32 AM	 	 	Peak Integrated by Software
Q2301-03MS	PS030703.D	2,4-DB	Abdul	6/17/2025 8:56:36 AM	 	 	Peak Integrated by Software
Q2301-03MS	PS030703.D	2,4-DB #2	Abdul	6/17/2025 8:56:36 AM	 	 	Peak Integrated by Software
Q2301-03MS	PS030703.D	DCPA #2	Abdul	6/17/2025 8:56:36 AM	 	 	Peak Integrated by Software
Q2301-03MSD	PS030704.D	2,4-DB	Abdul	6/17/2025 8:56:43 AM	 	 	Peak Integrated by Software
Q2301-03MSD	PS030704.D	2,4-DB #2	Abdul	6/17/2025 8:56:43 AM	 	 	Peak Integrated by Software
Q2301-03MSD	PS030704.D	3,5-DICHLOROBENZOI C ACID	Abdul	6/17/2025 8:56:43 AM	 	 	Peak Integrated by Software
Q2301-03MSD	PS030704.D	DCPA #2	Abdul	6/17/2025 8:56:43 AM	 	 	Peak Integrated by Software

Manual Integration Report

Sequence:

PS061625

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030706.D	2,4-DB	Abdul	6/17/2025 8:56:47 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030706.D	2,4-DCAA	Abdul	6/17/2025 8:56:47 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030706.D	DCPA #2	Abdul	6/17/2025 8:56:47 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030716.D	2,4-DB	Abdul	6/17/2025 8:57:12 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030716.D	2,4-DCAA	Abdul	6/17/2025 8:57:12 AM	 	 	Peak Integrated by Software
HSTDCCC750	PS030716.D	DCPA #2	Abdul	6/17/2025 8:57:12 AM	 	 	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS061625

Review By	Abdul	Review On	6/17/2025 8:57:56 AM
Supervise By		Supervise On	
SubDirectory	PS061625	HP Acquire Method	HP Processing Method ps061625 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	PS030679.D	16 Jun 2025 09:09	AR\AJ	Ok
2	I.BLK	PS030680.D	16 Jun 2025 09:32	AR\AJ	Ok
3	HSTDICC200	PS030681.D	16 Jun 2025 09:56	AR\AJ	Ok,NS
4	HSTDICC500	PS030682.D	16 Jun 2025 10:20	AR\AJ	Ok,NS
5	HSTDICC750	PS030683.D	16 Jun 2025 10:44	AR\AJ	Ok,NS
6	HSTDICC1000	PS030684.D	16 Jun 2025 11:09	AR\AJ	Ok,NS
7	HSTDICC1500	PS030685.D	16 Jun 2025 11:33	AR\AJ	Ok,NS
8	HSTDICV750	PS030686.D	16 Jun 2025 11:57	AR\AJ	Ok,NS
9	I.BLK	PS030687.D	16 Jun 2025 12:23	AR\AJ	Ok
10	HSTDCCC750	PS030688.D	16 Jun 2025 13:11	AR\AJ	Ok,NS
11	Q2287-01	PS030689.D	16 Jun 2025 13:35	AR\AJ	Ok
12	PB168465BL	PS030690.D	16 Jun 2025 13:59	AR\AJ	Ok
13	PB168465BS	PS030691.D	16 Jun 2025 14:23	AR\AJ	Ok,NS
14	PB168375BL	PS030692.D	16 Jun 2025 14:53	AR\AJ	Ok
15	Q2286-03RE	PS030693.D	16 Jun 2025 15:17	AR\AJ	Confirms
16	Q2296-01	PS030694.D	16 Jun 2025 15:49	AR\AJ	Ok
17	Q2296-05	PS030695.D	16 Jun 2025 16:13	AR\AJ	Ok
18	Q2296-09	PS030696.D	16 Jun 2025 16:37	AR\AJ	Ok
19	I.BLK	PS030697.D	16 Jun 2025 17:01	AR\AJ	Ok
20	HSTDCCC750	PS030698.D	16 Jun 2025 17:25	AR\AJ	Ok,NS
21	PB168495BL	PS030699.D	16 Jun 2025 18:13	AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS061625

Review By	Abdul	Review On	6/17/2025 8:57:56 AM
Supervise By		Supervise On	
SubDirectory	PS061625	HP Acquire Method	HP Processing Method ps061625 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	PB168495BS	PS030700.D	16 Jun 2025 18:37	AR\AJ	Ok,NS
23	PB168428TB	PS030701.D	16 Jun 2025 19:01	AR\AJ	Ok
24	Q2301-03	PS030702.D	16 Jun 2025 19:26	AR\AJ	Ok
25	Q2301-03MS	PS030703.D	16 Jun 2025 19:50	AR\AJ	Ok,NS
26	Q2301-03MSD	PS030704.D	16 Jun 2025 20:14	AR\AJ	Ok,NS
27	I.BLK	PS030705.D	16 Jun 2025 20:38	AR\AJ	Ok
28	HSTDCCC750	PS030706.D	16 Jun 2025 21:02	AR\AJ	Ok,NS
29	Q2296-13	PS030707.D	16 Jun 2025 21:50	AR\AJ	Ok,NS
30	Q2296-13MS	PS030708.D	16 Jun 2025 22:14	AR\AJ	Ok,NS
31	Q2296-13MSD	PS030709.D	16 Jun 2025 22:38	AR\AJ	Ok,NS
32	Q2296-17	PS030710.D	16 Jun 2025 23:02	AR\AJ	Ok
33	Q2296-21	PS030711.D	16 Jun 2025 23:26	AR\AJ	Ok,NS
34	Q2297-01	PS030712.D	16 Jun 2025 23:50	AR\AJ	Ok
35	Q2298-01	PS030713.D	17 Jun 2025 00:14	AR\AJ	Ok
36	Q2310-01	PS030714.D	17 Jun 2025 00:38	AR\AJ	Ok,NS
37	I.BLK	PS030715.D	17 Jun 2025 01:02	AR\AJ	Ok
38	HSTDCCC750	PS030716.D	17 Jun 2025 01:26	AR\AJ	Ok,NS

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS061625

Review By	Abdul	Review On	6/17/2025 8:57:56 AM
Supervise By		Supervise On	
SubDirectory	PS061625	HP Acquire Method	HP Processing Method ps061625 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	PS030679.D	16 Jun 2025 09:09		AR\AJ	Ok
2	I.BLK	I.BLK	PS030680.D	16 Jun 2025 09:32		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS030681.D	16 Jun 2025 09:56		AR\AJ	Ok,NS
4	HSTDICC500	HSTDICC500	PS030682.D	16 Jun 2025 10:20		AR\AJ	Ok,NS
5	HSTDICC750	HSTDICC750	PS030683.D	16 Jun 2025 10:44	Method fail for comp 10	AR\AJ	Ok,NS
6	HSTDICC1000	HSTDICC1000	PS030684.D	16 Jun 2025 11:09		AR\AJ	Ok,NS
7	HSTDICC1500	HSTDICC1500	PS030685.D	16 Jun 2025 11:33		AR\AJ	Ok,NS
8	HSTDICV750	ICVPS061625	PS030686.D	16 Jun 2025 11:57		AR\AJ	Ok,NS
9	I.BLK	I.BLK	PS030687.D	16 Jun 2025 12:23		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030688.D	16 Jun 2025 13:11		AR\AJ	Ok,NS
11	Q2287-01	CONCRETE-SLAB	PS030689.D	16 Jun 2025 13:35		AR\AJ	Ok
12	PB168465BL	PB168465BL	PS030690.D	16 Jun 2025 13:59		AR\AJ	Ok
13	PB168465BS	PB168465BS	PS030691.D	16 Jun 2025 14:23	DALAPON recovery fail	AR\AJ	Ok,NS
14	PB168375BL	PB168375BL	PS030692.D	16 Jun 2025 14:53		AR\AJ	Ok
15	Q2286-03RE	LAW-25-0084RE	PS030693.D	16 Jun 2025 15:17	Surrogate high in 2nd column	AR\AJ	Confirms
16	Q2296-01	WC-1	PS030694.D	16 Jun 2025 15:49		AR\AJ	Ok
17	Q2296-05	WC-2	PS030695.D	16 Jun 2025 16:13		AR\AJ	Ok
18	Q2296-09	WC-3	PS030696.D	16 Jun 2025 16:37		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS061625

Review By	Abdul	Review On	6/17/2025 8:57:56 AM
Supervise By		Supervise On	
SubDirectory	PS061625	HP Acquire Method	HP Processing Method ps061625 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC	PP24559		
Internal Standard/PEM			
ICV/I.BLK	PP24562		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	I.BLK	I.BLK	PS030697.D	16 Jun 2025 17:01		AR\AJ	Ok
20	HSTDCCC750	HSTDCCC750	PS030698.D	16 Jun 2025 17:25		AR\AJ	Ok,NS
21	PB168495BL	PB168495BL	PS030699.D	16 Jun 2025 18:13		AR\AJ	Ok
22	PB168495BS	PB168495BS	PS030700.D	16 Jun 2025 18:37		AR\AJ	Ok,NS
23	PB168428TB	PB168428TB	PS030701.D	16 Jun 2025 19:01		AR\AJ	Ok
24	Q2301-03	WC-URBAN-FILL-C	PS030702.D	16 Jun 2025 19:26		AR\AJ	Ok
25	Q2301-03MS	WC-URBAN-FILL-CMS	PS030703.D	16 Jun 2025 19:50	Comp#1,14 recovery fail	AR\AJ	Ok,NS
26	Q2301-03MSD	WC-URBAN-FILL-CMS	PS030704.D	16 Jun 2025 20:14	Comp#1,14 recovery fail	AR\AJ	Ok,NS
27	I.BLK	I.BLK	PS030705.D	16 Jun 2025 20:38		AR\AJ	Ok
28	HSTDCCC750	HSTDCCC750	PS030706.D	16 Jun 2025 21:02		AR\AJ	Ok,NS
29	Q2296-13	WC-4	PS030707.D	16 Jun 2025 21:50		AR\AJ	Ok,NS
30	Q2296-13MS	WC-4MS	PS030708.D	16 Jun 2025 22:14	some compound recovery fail	AR\AJ	Ok,NS
31	Q2296-13MSD	WC-4MSD	PS030709.D	16 Jun 2025 22:38	some compound recovery fail , RPD fail	AR\AJ	Ok,NS
32	Q2296-17	WC-5	PS030710.D	16 Jun 2025 23:02		AR\AJ	Ok
33	Q2296-21	WC-6	PS030711.D	16 Jun 2025 23:26		AR\AJ	Ok,NS
34	Q2297-01	TP-3	PS030712.D	16 Jun 2025 23:50		AR\AJ	Ok
35	Q2298-01	AU-05-061125	PS030713.D	17 Jun 2025 00:14		AR\AJ	Ok
36	Q2310-01	TP-7	PS030714.D	17 Jun 2025 00:38		AR\AJ	Ok,NS
37	I.BLK	I.BLK	PS030715.D	17 Jun 2025 01:02		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS061625

Review By	Abdul	Review On	6/17/2025 8:57:56 AM
Supervise By		Supervise On	
SubDirectory	PS061625	HP Acquire Method	HP Processing Method ps061625 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

38	HSTDCCC750	HSTDCCC750	PS030716.D	17 Jun 2025 01:26		ARIAJ	Ok,NS
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M : Manual Integration

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/12/2025 Time : 16:00

End Prep Date : 06/13/2025 Time : 10:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 18

Supervisor By : 12

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2310-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/13/25 11:00	150 A00m	5125 RJ/CH
	Preparation Group	Analysis Group

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168428TB	LEB428	13	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q2287-02	CONCRETE-SLAB	01	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-1
Q2295-04	TP01-MH1-WC	02	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2295-08	TP02-MH5-WC	03	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q2296-04	WC-1	04	100.01	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2296-08	WC-2	05	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2296-12	WC-3	06	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q2296-16	WC-4	07	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2296-20	WC-5	08	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2296-24	WC-6	09	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2297-04	TP-3	10	100.04	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q2301-03	WC-URBAN-FILL-C	11	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2310-04	TP-7	12	100.01	2000	N/A	N/A	N/A	7.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168428TB	LEB428	N/A	N/A	N/A	N/A	N/A	N/A
Q2287-02	CONCRETE-SLAB	N/A	N/A	N/A	N/A	100	N/A
Q2295-04	TP01-MH1-WC	N/A	N/A	N/A	N/A	100	N/A
Q2295-08	TP02-MH5-WC	N/A	N/A	N/A	N/A	100	N/A
Q2296-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q2296-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q2296-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
Q2296-16	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q2296-20	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q2296-24	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q2297-04	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q2301-03	WC-URBAN-FILL-C	N/A	N/A	N/A	N/A	100	N/A
Q2310-04	TP-7	N/A	N/A	N/A	N/A	100	N/A

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

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168428TB	LEB428	N/A	N/A	N/A	N/A	#1	4.93
Q2287-02	CONCRETE-SLAB	5.04	96.5	11.5	4.5	#1	4.93
Q2295-04	TP01-MH1-WC	5.02	96.5	10.5	4.5	#1	4.93
Q2295-08	TP02-MH5-WC	5.01	96.5	9.1	4.0	#1	4.93
Q2296-04	WC-1	5.02	96.5	8.0	3.0	#1	4.93
Q2296-08	WC-2	5.03	96.5	8.0	3.0	#1	4.93
Q2296-12	WC-3	5.04	96.5	7.6	2.5	#1	4.93
Q2296-16	WC-4	5.03	96.5	8.0	3.0	#1	4.93
Q2296-20	WC-5	5.02	96.5	8.0	3.0	#1	4.93
Q2296-24	WC-6	5.01	96.5	7.6	2.5	#1	4.93
Q2297-04	TP-3	5.02	96.5	9.5	4.0	#1	4.93
Q2301-03	WC-URBAN-FILL-C	5.01	96.5	8.2	3.5	#1	4.93
Q2310-04	TP-7	5.02	96.5	9.3	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip q2301

WorkList ID : 190152

Department : TCLP Extraction

Date : 06-12-2025 12:58:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2287-02	CONCRETE-SLAB	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	06/11/2025	1311
Q2295-04	TP01-MH1-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N42	06/10/2025	1311
Q2295-08	TP02-MH5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N42	06/10/2025	1311
Q2296-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2296-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2296-12	WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2296-16	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2296-20	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2296-24	WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2297-04	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03		06/11/2025	1311
Q2301-03	WC-URBAN-FILL-C	Solid	TCLP Extraction	Cool 4 deg C	ENTA05	D41	06/11/2025	1311
Q2310-04	TP-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	06/12/2025	1311

Date/Time 06-12-25 15:30

Raw Sample Received by: SP GRC

Raw Sample Relinquished by: SP GRC

Date/Time 06-12-25 17:30

Raw Sample Received by: SP GRC

Raw Sample Relinquished by: SP GRC

SOP ID: M8151A-Herbicide-23

Clean Up SOP #: N/A

Extraction Start Date : 06/16/2025

Matrix : Water

Extraction Start Time : 08:55

Weigh By: N/A

Extraction By: EH

Extraction End Date : 06/16/2025

Balance check: N/A

Filter By: RS

Extraction End Time : 16:00

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,7

Supervisor By : RUPESH

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24595
Surrogate	1.0ML	5000 PPB	PP24601
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3881
Acidified Na2SO4	N/A	EP2621
12N H2SO4	N/A	EP2605
NAOH 6N	N/A	EP2606
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2618
Hexane	N/A	E3938
NACL	N/A	M4459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

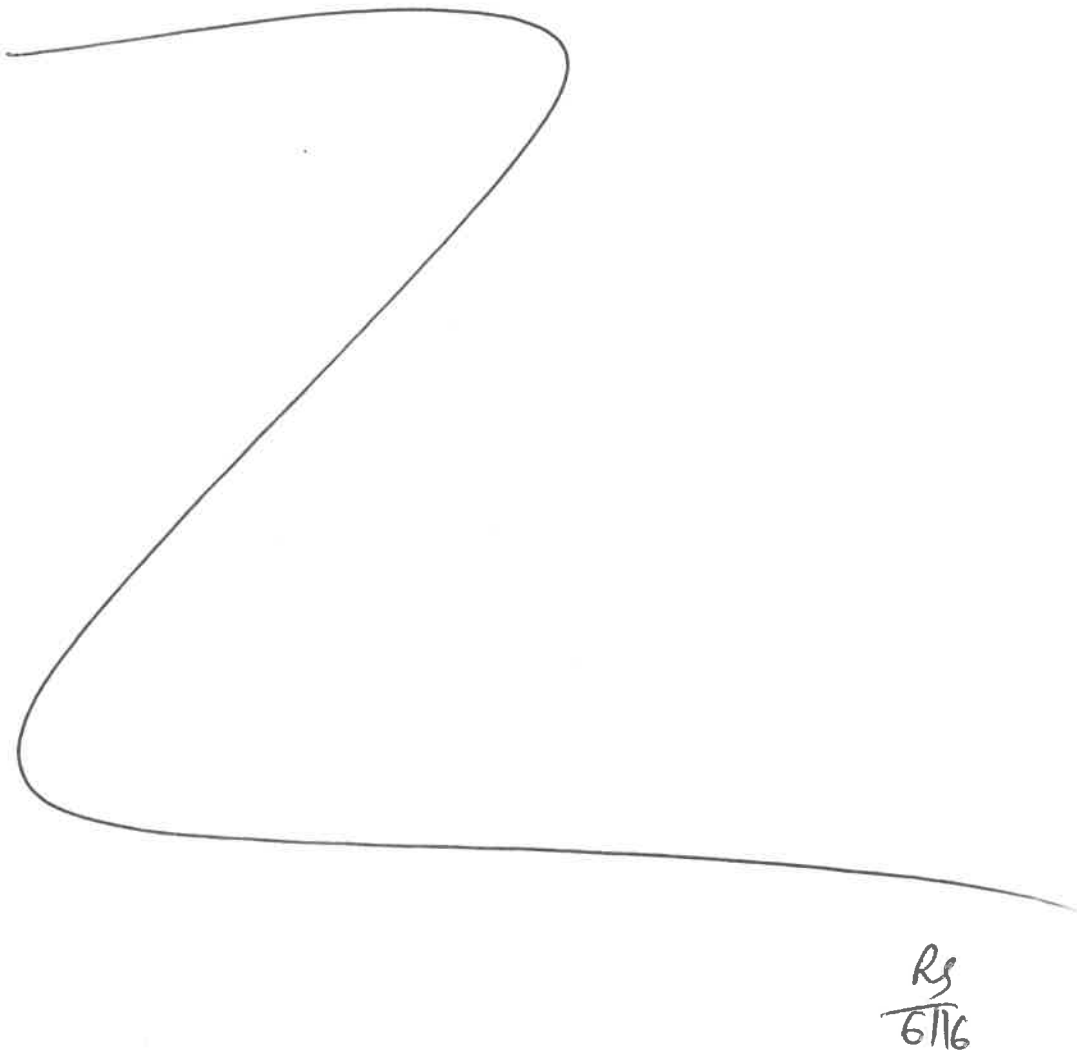
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/16/25 16:05	RS (Ext Lab)	R. Patel - PCB Lab
	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-23

Concentration Date: 06/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168428TB	PB168428TB	TCLP Herbicide	100	6	Evelyn	RUPESH	10			SEP-1
PB168495BL	HBLK495	TCLP Herbicide	1000	6	Evelyn	RUPESH	10			2
PB168495BS	HLCS495	TCLP Herbicide	1000	6	Evelyn	RUPESH	10			3
Q2301-03	WC-URBAN-FILL-C	TCLP Herbicide	100	6	Evelyn	RUPESH	10	A		4
Q2301-03MS	WC-URBAN-FILL-CMS	TCLP Herbicide	100	6	Evelyn	RUPESH	10	A		5
Q2301-03MS D	WC-URBAN-FILL-CMSD	TCLP Herbicide	100	6	Evelyn	RUPESH	10	A		6



Rs
6/16

TCLP EXTRACTION LOGPAGE

PB168428

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168428TB	LEB428	13	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q2287-02	CONCRETE-SLAB	01	100.04	2000	N/A	N/A	N/A	11.0	1.5	T-1
Q2295-04	TP01-MH1-WC	02	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q2295-08	TP02-MH5-WC	03	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q2296-04	WC-1	04	100.01	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2296-08	WC-2	05	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2296-12	WC-3	06	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q2296-16	WC-4	07	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2296-20	WC-5	08	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2296-24	WC-6	09	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2297-04	TP-3	10	100.04	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q2301-03	WC-URBAN-FILL-C	11	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2310-04	TP-7	12	100.01	2000	N/A	N/A	N/A	7.0	1.0	T-2

06/13/25
11:00

Prep Standard - Chemical Standard Summary

Order ID : Q2301

Test : TCLP Herbicide

Prepbatch ID : PB168495,

Sequence ID/Qc Batch ID: ps061625,

Standard ID :

EP2605,EP2606,EP2621,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,PP24595,PP24601,

Chemical ID :

E3551,E3554,E3657,E3881,E3932,E3933,M6041,M6157,P11183,P12620,P12630,P12689,P12710,P13535,P13536,P13542,P13971,P13972,P13973,P13974,P13975,P8829,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3883	12N H2SO4 solution	EP2605	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
04/21/2025								

FROM 333.00000ml of M6041 + 667.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3884	6 N NAOH	EP2606	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
04/21/2025								

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



<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>
601	Acidified Sodium Sulphate 2	EP2621	06/03/2025	08/14/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/03/2025
<u>FROM</u>	100.00000ml of E3881 + 150.00000ml of M6157 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<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>
1321	2/200 PPM Herb Mega Mix	PP24553	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel 05/22/2025
<u>FROM</u>	0.20000ml of P8829 + 1.00000ml of P11183 + 1.00000ml of P12620 + 1.00000ml of P12630 + 1.00000ml of P12689 + 95.80000ml of E3933 = Final Quantity: 100.000 ml							

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24554	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of P13971 + 1.00000ml of P12710 + 48.50000ml of E3933 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24556	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.90000ml of E3933 + 0.10000ml of PP24553 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24557	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.75000ml of E3933 + 0.25000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24558	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24553 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24559	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24558 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24560	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24553 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24561	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24554 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24562	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

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

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)	PP24595	05/20/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of P13542 + 1.00000ml of P13535 + 1.00000ml of P13536 + 47.50000ml of E3932 = 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)	PP24601	05/22/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								06/11/2025

FROM 1.25000ml of P13972 + 1.25000ml of P13973 + 1.25000ml of P13974 + 1.25000ml of P13975 + 195.00000ml of E3933 = Final Quantity: 200.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9335-02 / Iso-Octane (2,2,4-Trimethypentane) Ultra Resi-Analyzed Grade	63160	11/05/2025	08/09/2023 / Rajesh	08/09/2023 / Rajesh	E3554

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC04977-3 / Ether, Anhydrous, Glass Distilled, HRGC/HPLC, 4L	242789	08/14/2025	02/14/2025 / Rajesh	01/06/2025 / Rajesh	E3881

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-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	11/20/2025	05/20/2025 / Abdul	09/03/2024 / Abdul	P13535

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	11/20/2025	05/20/2025 / Abdul	09/03/2024 / Abdul	P13535

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	11/20/2025	05/20/2025 / Abdul	09/03/2024 / Abdul	P13536

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	11/20/2025	05/20/2025 / Abdul	09/03/2024 / Abdul	P13536

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	11/20/2025	05/20/2025 / Abdul	09/24/2024 / Abdul	P13542

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	11/20/2025	05/20/2025 / Abdul	09/24/2024 / Abdul	P13542

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	11/22/2025	05/22/2025 / Abdul	04/02/2025 / Abdul	P13972

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	11/22/2025	05/22/2025 / Abdul	04/02/2025 / Abdul	P13973

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	11/22/2025	05/22/2025 / Abdul	04/02/2025 / Abdul	P13974

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	11/22/2025	05/22/2025 / Abdul	04/02/2025 / Abdul	P13975

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

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



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Certificate of Analysis



Date of Release: 6/9/2023
Name: 2,2,4-Trimethylpentane [Isooctane]
OmniSolv®
Item No: TX1389 all size codes
Lot / Batch No: 63160
Country of Origin: Germany

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay (GC)	99.5		> 99.99	%
Capillary ECD responsive substances (as PCNB)		5	0.24	ng/L
Color (APHA)		10	< 10	
Evaporation residue		1	< 0.5	ppm
Filtered through 0.2 µm filter			Passes test	
Fluorescence (as quinine base)		250	71	ppt
Form			Clear liquid	
Infrared Spectrum			Conforms	
Refractive index (at 20°C)			1.3915	
UV Abs. at 200 nm		1.00	0.137	AU
UV Abs. at 220 nm		0.05	0.024	AU
UV Abs. at 230 nm		0.02	0.003	AU
UV Abs. at 250 nm		0.005	0.003	AU
UV Abs. at 270 nm		0.005	0.002	AU
UV Abs. at 300 nm		0.005	0.004	AU
UV Cut-off		200	191.1	nm
Water (H ₂ O)		0.01	0.001	%

Michael Hutchinson,

Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany
EMD Millipore Corporation
400 Summit Drive,
Burlington, MA 01803
U.S.A.

Recd by RP on 8/9/23

E3554



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

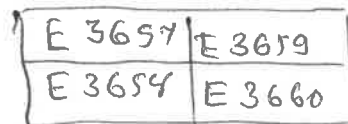
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Certificate of Analysis

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

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

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

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

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

Kalyan Paruchuri

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

E 3881

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

*Based on suggested storage condition.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

 **avantors**TM



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

avantor™



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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

 **avantor™**

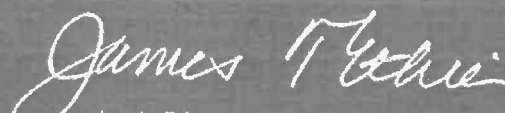


Material No.: 9673-33
Batch No.: 23D2462010

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

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

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

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

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

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

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

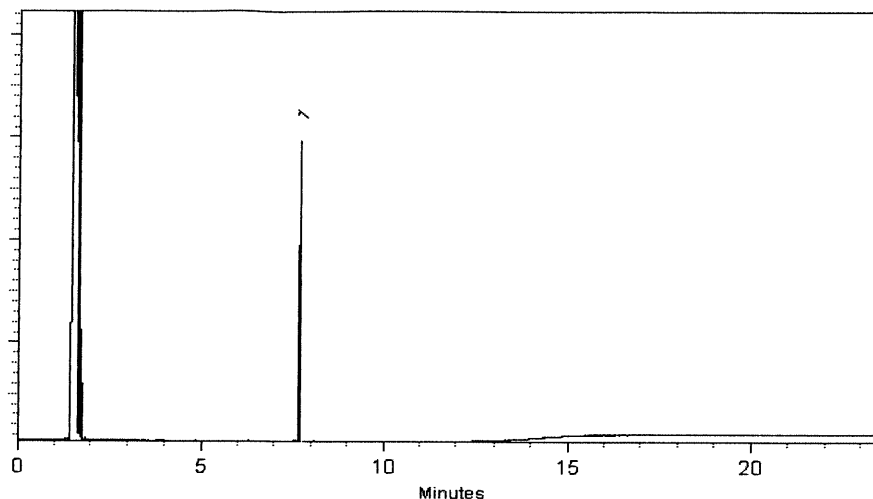
250°C

Det. Temp:

330°C

Det. Type:

FID

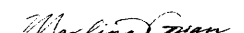


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

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

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

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

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

CERTIFIED VALUES

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

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

P11177
↓
P11186
—
AR
01/02/21



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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. : 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
Date = 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)

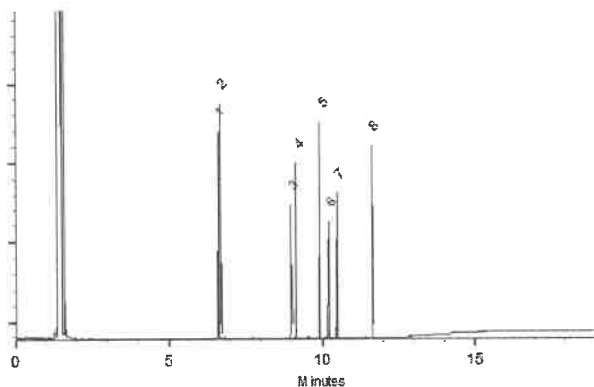
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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



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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

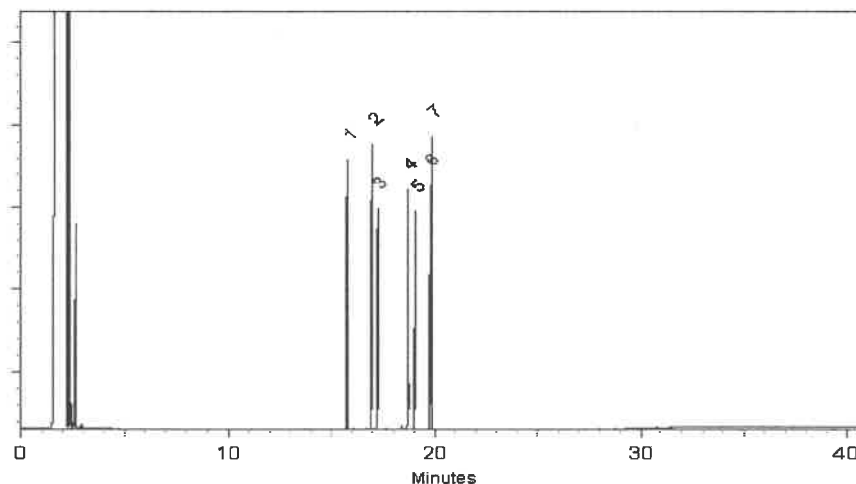
FID

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



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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. : 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:

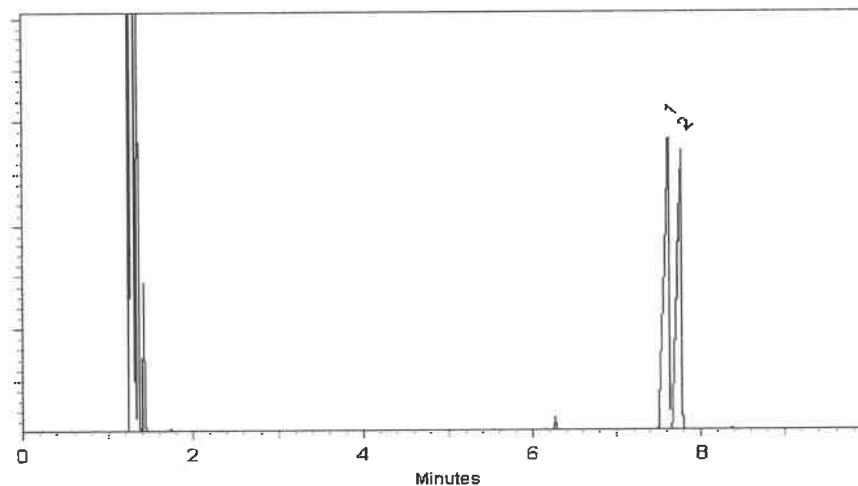
FID

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.

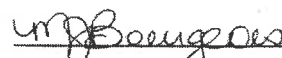
Expiration of Certification:

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
↓
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.

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Homogeneity:

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

P13541
↓
P13561
20
9/25/2024



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

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

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

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

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

CERTIFIED VALUES

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

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

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

13968
↓
13977

10

AWF
4/16/2025

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

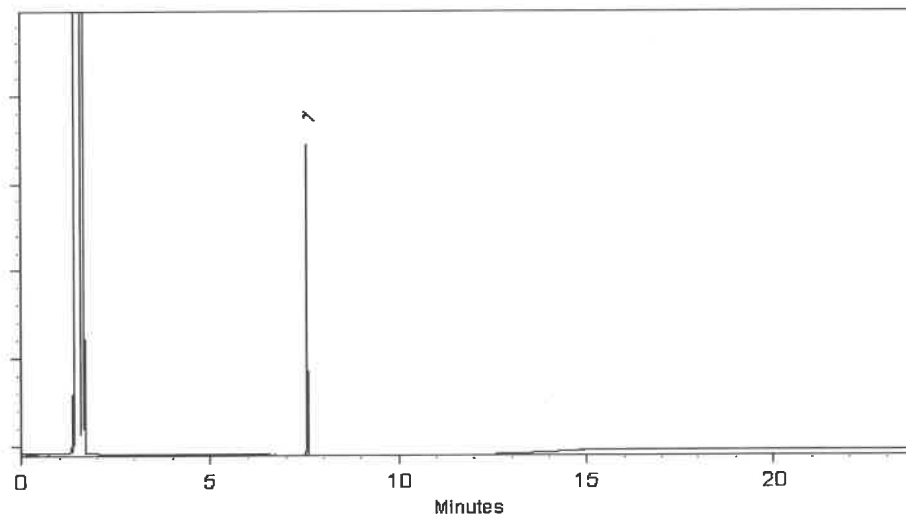
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

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



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

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

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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.)

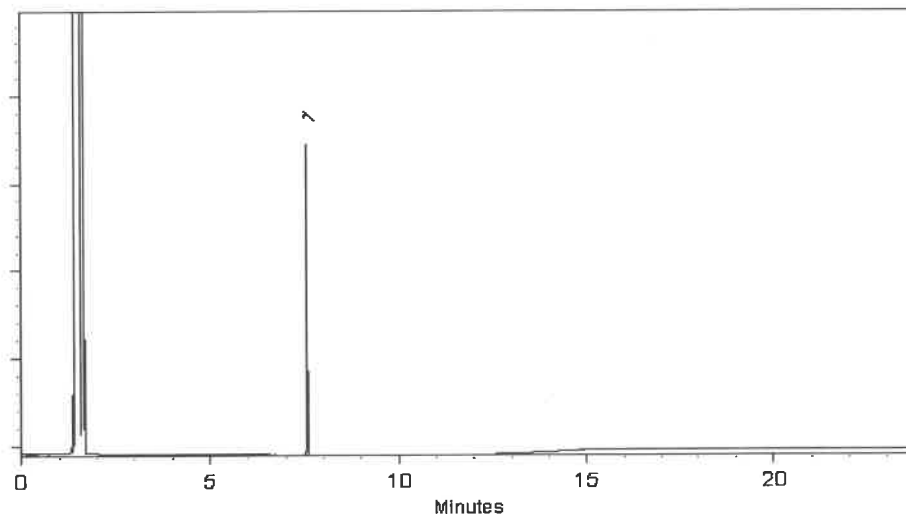
Inj. Temp:
250°C

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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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:

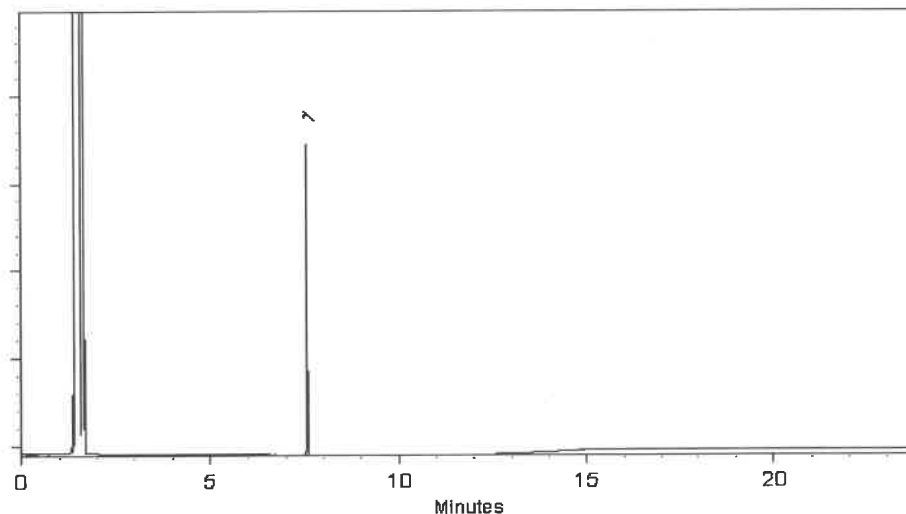
FID

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



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

Catalog No. : 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.)

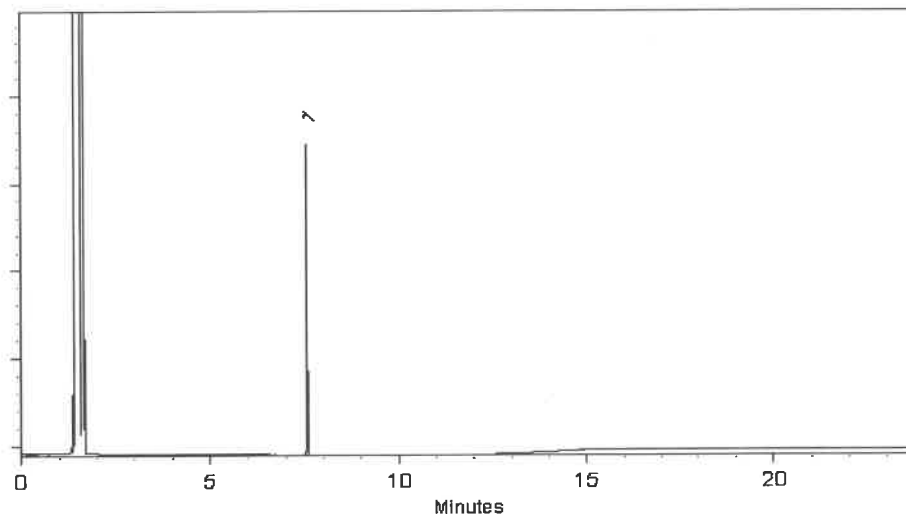
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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

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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:

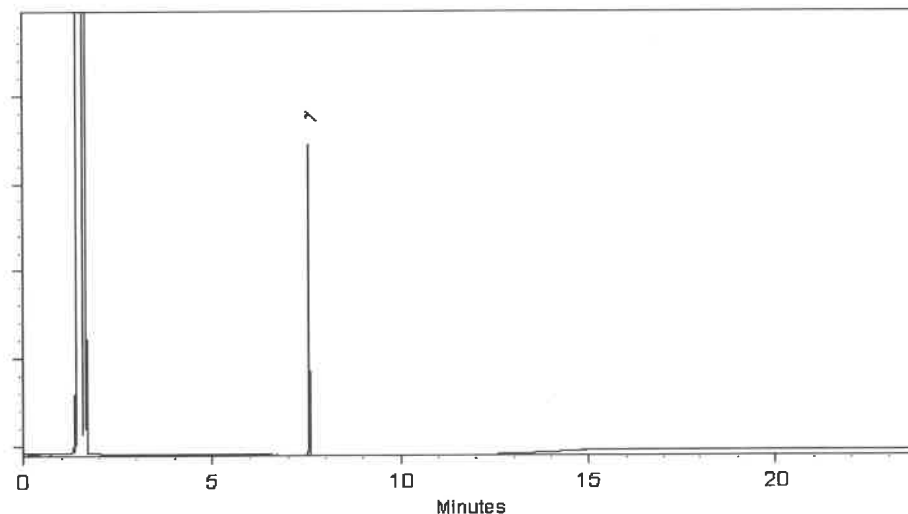
FID

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
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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	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric
	CAS # 17640-02-7 (Lot 1764600)		+/- 34.4896 µg/mL Unstressed
	Purity 98%		+/- 34.4896 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

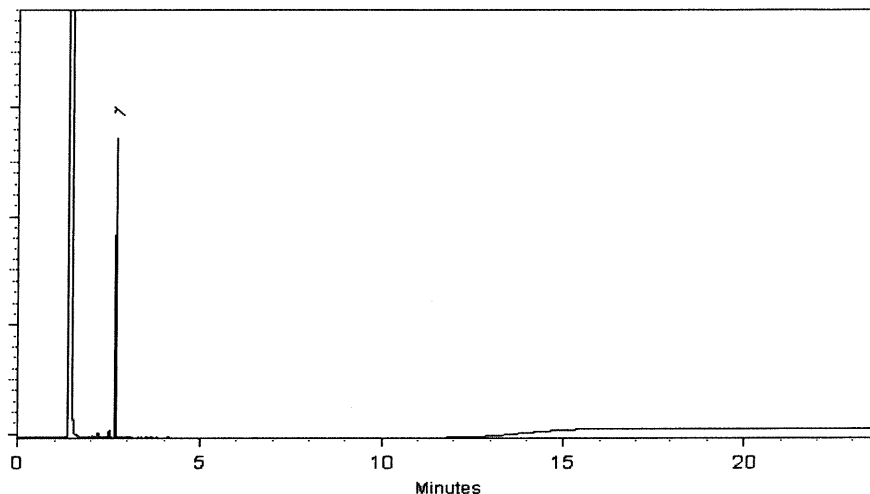
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019

Balance: 1127510105

Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

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



SHIPPING DOCUMENTS



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

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q2301

COC Number: 2042113

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Austin Farmerie
PHONE: 412-716-1366 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Austin Farmerie
E-MAIL: afarmerie@entact.com
PHONE: 412-716-1366 FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC PO# E9309
ADDRESS: 999 Oakmont Plaza Drive, Suite 300
CITY: Westmont STATE: IL ZIP: 60559
ATTENTION: Wendy Murray PHONE: 800-936-8228

ANALYSIS

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

PRESERVATIVES

COMMENTS

DATA TURNAROUND INFORMATION

FAX: _____ 3 _____ DAYS*
HARD COPY: _____ DAYS*
EDD _____ 3 _____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

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

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

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

RELINQUISHED BY SAMPLER 1. Austin Farmerie	DATE/TIME 6/11 12:00	RECEIVED BY 1. [Signature] 12:52	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0°C Ice in Cooler? Yes
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:
2. [Signature]		2. [Signature]	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. [Signature]	6.11.2025 1745	3. [Signature]	

Page _____ of _____

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

Shipment Complete
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY



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

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q2301

COC Number: 2042113

Page 2 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Austin Farmerie
PHONE: 412-716-1366 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Austin Farmerie
E-MAIL: afarmerie@entact.com
PHONE: 412-716-1366 FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC PO# E9309
ADDRESS: 999 Oakmont Plaza Drive, Suite 300
CITY: Westmont STATE: IL ZIP: 60559
ATTENTION: Wendy Murray PHONE: 800-936-8228

DATA TURNAROUND INFORMATION

FAX: 3 DAYS*
HARD COPY: 3 DAYS*
EDD 3 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

ASTM COD	ASTM Ammonia Nitrogen	ASTM O&G	ASTM TS	TS, TVS	pH	Paint Filter
10	11	12	13	14	15	16

PRESERVATIVES

COMMENTS

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

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

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

RELINQUISHED BY SAMPLER 1. Austin Farmerie	DATE/TIME 6-11-2025 12:32	RECEIVED BY 1. [Signature]	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.02
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments: Ice in Cooler?: Yes
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. [Signature]	6-11-2025 1745	3. [Signature]	
Page ____ of ____			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight ALLIANCE: ☐ Picked Up ☐ Overnight
			Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

Laboratory Certification

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