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

Cover Page

Order ID : P5380

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
P5380-01	TAPIAL3-IDW-SOIL-122024-T1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1

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: 1/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions
Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Project # N/A
Chemtech Project # P5380
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 12/21/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis
.
The Surrogate recoveries met the acceptable criteria except for WC-SOIL-20241219MS [2,4-DCAA(1) - 143%], WC-SOIL-20241219MSD [2,4-DCAA(1) - 143%] Due to matrix interference. TAPIAL3-IDW-SOIL-122024-T1 [2,4-DCAA(1) - 159%], TAPIAL3-IDW-SOIL-122024-T1RE [2 and4-DCAA(1) - 172%] All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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

E. Additional Comments:
The not QT review data is reported in the Miscellaneous
.
F. Calculation for Concentration in Water Samples:

$$\text{Concentration ug/L} = \frac{(Ax)\,(Vt)\,(DF)\,(GPC)}{(CF)\,(Vo)\,(Vi)}$$

Where,
Ax = Response (peak area or height) of the compound to be measured.
CF = Mean Calibration Factor from the initial calibration (area/ng).
Vo = Volume of water extracted in mL.
Vi = Volume of extract injected in uL.
Vt = Volume of the concentrated extract in uL
GPC = $\frac{Vin}{Vout}$ = GPC factor (If no GPC is performed, GPC=1)
Vin = Volume of extract loaded onto GPC column.
Vout = Volume of extract collected after GPC cleanup.
DF = Dilution Factor.

G. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5380 MATRIX: TCLP

METHOD: 8151A/3510/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for WC-SOIL-20241219MS [2,4-DCAA(1) - 143%], WC-SOIL-20241219MSD [2,4-DCAA(1) - 143%] Due to matrix interference. TAPIAL3-IDW-SOIL-122024-T1 [2,4-DCAA(1) - 159%], TAPIAL3-IDW-SOIL-122024-T1RE [2 and4-DCAA(1) - 172%] All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The Blank Spike met requirements for all samples . The RPD met criteria .			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

The not QT review data is reported in the Miscellaneous.

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5380**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **01/03/2025**

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

LAB CHRONICLE

OrderID:	P5380	**OrderDate:**	12/23/2024 9:50:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	N31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5380-01	**TAPIAL3-IDW-SOIL-122024-T1**	**SOIL**			**12/20/24**			**12/21/24**
			PCB	8082A		12/26/24	12/26/24	
P5380-02	**TAPIAL3-IDW-SOIL-122024-T1**	**TCLP**			**12/20/24**			**12/21/24**
			TCLP Herbicide	8151A		12/27/24	12/27/24	
			TCLP Pesticide	8081B		12/27/24	12/27/24	
P5380-02RE	**TAPIAL3-IDW-SOIL-122024-T1RE**	**TCLP**			**12/20/24**			**12/21/24**
			TCLP Herbicide	8151A		12/27/24	12/30/24	

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

Hit Summary Sheet
SW-846

SDG No.: P5380 **Order ID:** P5380

Client: Weston Solutions **Project ID:** Ft Meade Tipton Airfield Parcel RI - P

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

Client ID :

Total Concentration: **0.000**

QC
SUMMARY

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

Surrogate Summary

SDG No.: P5380

Client: Weston Solutions

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028786.D	PIBLK-PS028786.D	2,4-DCAA	1	500	469	94		32	138
		2,4-DCAA	2	500	482	96		32	138
I.BLK-PS028836.D	PIBLK-PS028836.D	2,4-DCAA	1	500	568	114		32	138
		2,4-DCAA	2	500	514	103		32	138
PB165896BL	PB165896BL	2,4-DCAA	1	500	580	116		32	138
		2,4-DCAA	2	500	504	101		32	138
PB165896BS	PB165896BS	2,4-DCAA	1	500	575	115		32	138
		2,4-DCAA	2	500	522	104		32	138
P5362-02MS	WC-SOIL-20241219MS	2,4-DCAA	1	500	716	143	*	32	138
		2,4-DCAA	2	500	394	79		32	138
P5362-02MSD	WC-SOIL-20241219MSD	2,4-DCAA	1	500	715	143	*	32	138
		2,4-DCAA	2	500	394	79		32	138
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	2,4-DCAA	1	500	796	159	*	32	138
		2,4-DCAA	2	500	386	77		32	138
I.BLK-PS028845.D	PIBLK-PS028845.D	2,4-DCAA	1	500	570	114		32	138
		2,4-DCAA	2	500	515	103		32	138
I.BLK-PS028848.D	PIBLK-PS028848.D	2,4-DCAA	1	500	599	120		32	138
		2,4-DCAA	2	500	512	102		32	138
P5380-02RE	TAPIAL3-IDW-SOIL-122024-T1RE	2,4-DCAA	1	500	860	172	*	32	138
		2,4-DCAA	2	500	390	78		32	138
I.BLK-PS028852.D	PIBLK-PS028852.D	2,4-DCAA	1	500	602	120		32	138
		2,4-DCAA	2	500	515	103		32	138
I.BLK-PS028861.D	PIBLK-PS028861.D	2,4-DCAA	1	500	591	118		32	138
		2,4-DCAA	2	500	513	103		32	138
PB165858TB	PB165858TB	2,4-DCAA	1	500	634	127		32	138
		2,4-DCAA	2	500	355	71		32	138
I.BLK-PS028864.D	PIBLK-PS028864.D	2,4-DCAA	1	500	600	120		32	138
		2,4-DCAA	2	500	519	104		32	138

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5380

Client: Weston Solutions

Analytical Method: 8151A **DataFile :** PS028842.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WC-SOIL-20241219MS**											
P5362-02MS	2,4-D	50	0	56.3	ug/L	113				45	152	
	2,4,5-TP(Silvex)	50	0	60.6	ug/L	121				51	134	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5380

Client: Weston Solutions

Analytical Method: 8151A **DataFile :** PS028843.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-SOIL-20241219MSD**											
P5362-02MSD	2,4-D	50	0	55.1	ug/L	110		3		45	152	20
	2,4,5-TP(Silvex)	50	0	62.5	ug/L	125		3		51	134	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5380

Client: Weston Solutions

Analytical Method: 8151A **Datafile :** PS028839.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165896BS	2,4-D	5	5.30	ug/L	106				45	152	
	2,4,5-TP(Silvex)	5	5.60	ug/L	112				51	134	

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165896BL

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG NO.: P5380

Lab Sample ID: PB165896BL Lab File ID: PS028838.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 12/27/2024

Date Analyzed (1): 12/27/2024 Date Analyzed (2): 12/27/2024

Time Analyzed (1): 21:08 Time Analyzed (2): 21:08

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
PB165896BS	PB165896BS	PS028839.D	12/27/2024	12/27/2024
WC-SOIL-20241219MS	P5362-02MS	PS028842.D	12/27/2024	12/27/2024
WC-SOIL-20241219MSD	P5362-02MSD	PS028843.D	12/27/2024	12/27/2024
TAPIAL3-IDW-SOIL-122024-T1	P5380-02	PS028844.D	12/27/2024	12/27/2024
PB165858TB	PB165858TB	PS028863.D	12/31/2024	12/31/2024

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PS028844.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/20/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/21/24
Client Sample ID:	TAPIAL3-IDW-SOIL-122024-T1	SDG No.:	P5380
Lab Sample ID:	P5380-02	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028844.D	1	12/27/24 10:20	12/27/24 23:32	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	796	*	32 - 138		159%	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

Sample Results: **PS028844.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:32
Operator : AR\AJ
Sample : P5380-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.693	1801.3E6	434.9E6	796.334	386.435m#
	Target Compounds						

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:32
Operator : AR\AJ
Sample : P5380-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

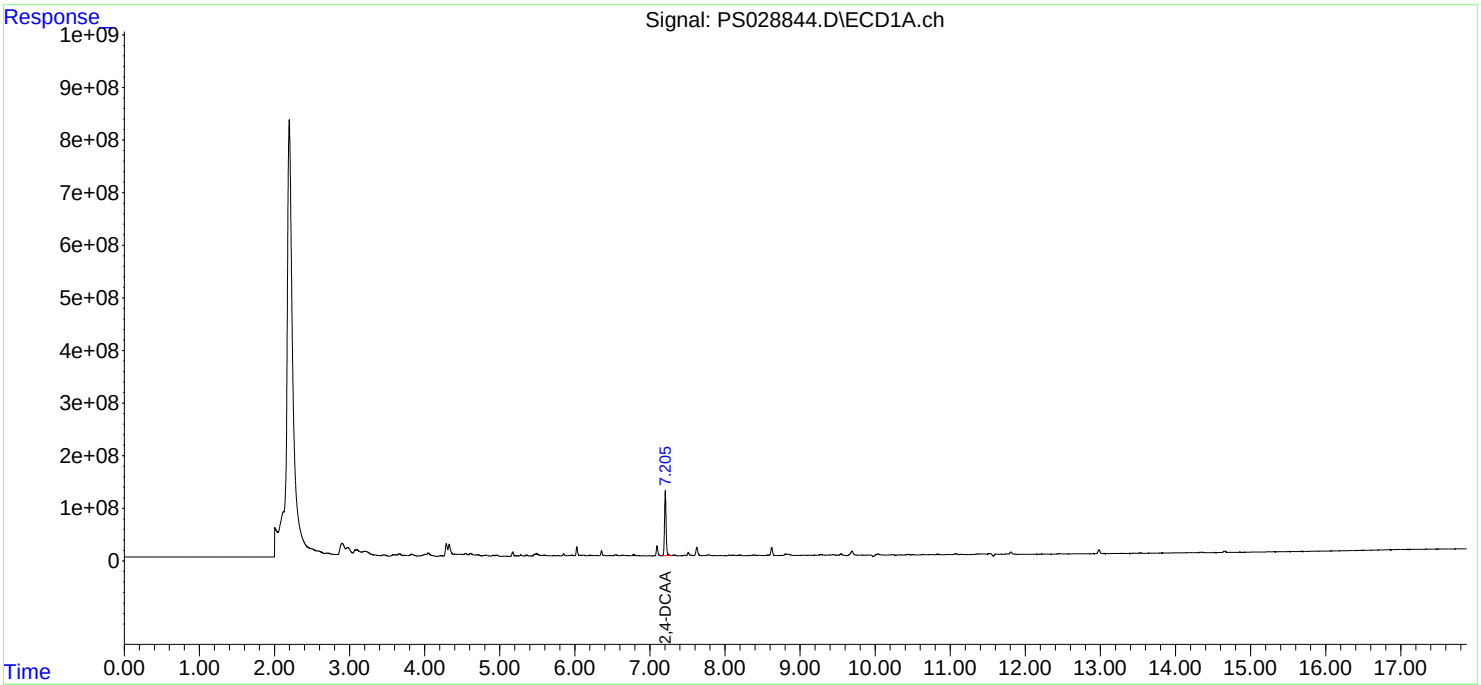
Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

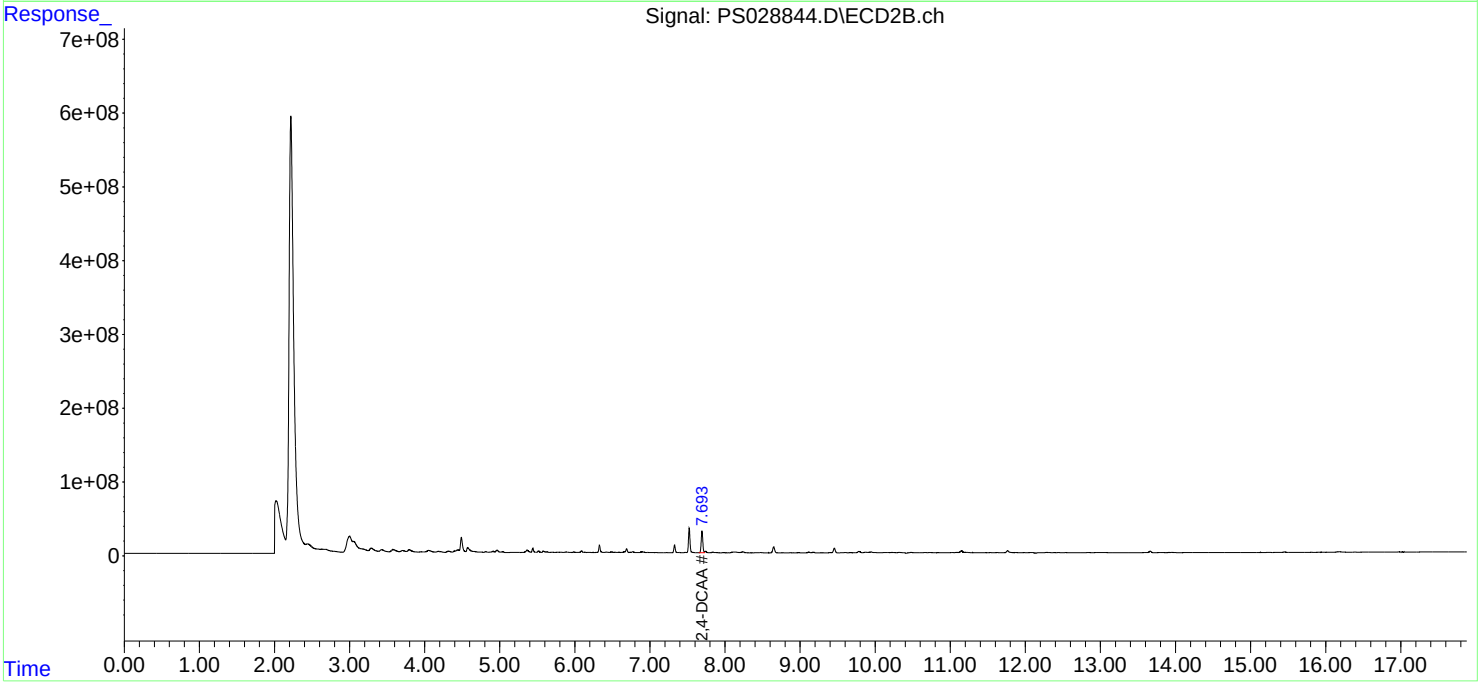
Manual Integrations APPROVED

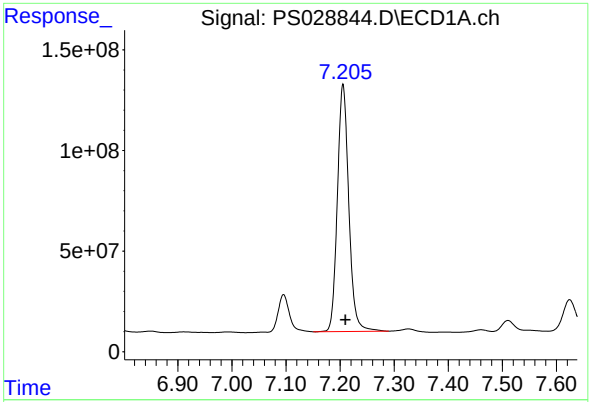
Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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







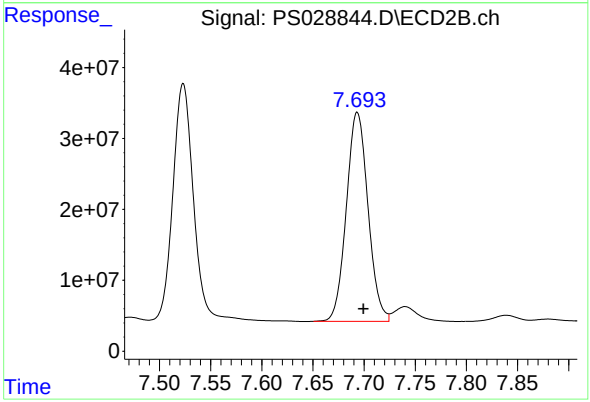
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1801327266
Conc: 796.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



#4 2,4-DCAA

R.T.: 7.693 min
Delta R.T.: -0.007 min
Response: 434947447
Conc: 386.44 ng/ml m

Raw Data: **PS028850.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/20/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/21/24
Client Sample ID:	TAPIAL3-IDW-SOIL-122024-T1RE	SDG No.:	P5380
Lab Sample ID:	P5380-02RE	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028850.D	1	12/27/24 10:20	12/30/24 10:50	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	860	*	32 - 138		172%	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

Sample Results: **PS028850.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028850.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:50
Operator : AR\AJ
Sample : P5380-02RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.210	7.694	1945.8E6	438.9E6	860.191m	389.915	#
	Target Compounds							

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028850.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:50
Operator : AR\AJ
Sample : P5380-02RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

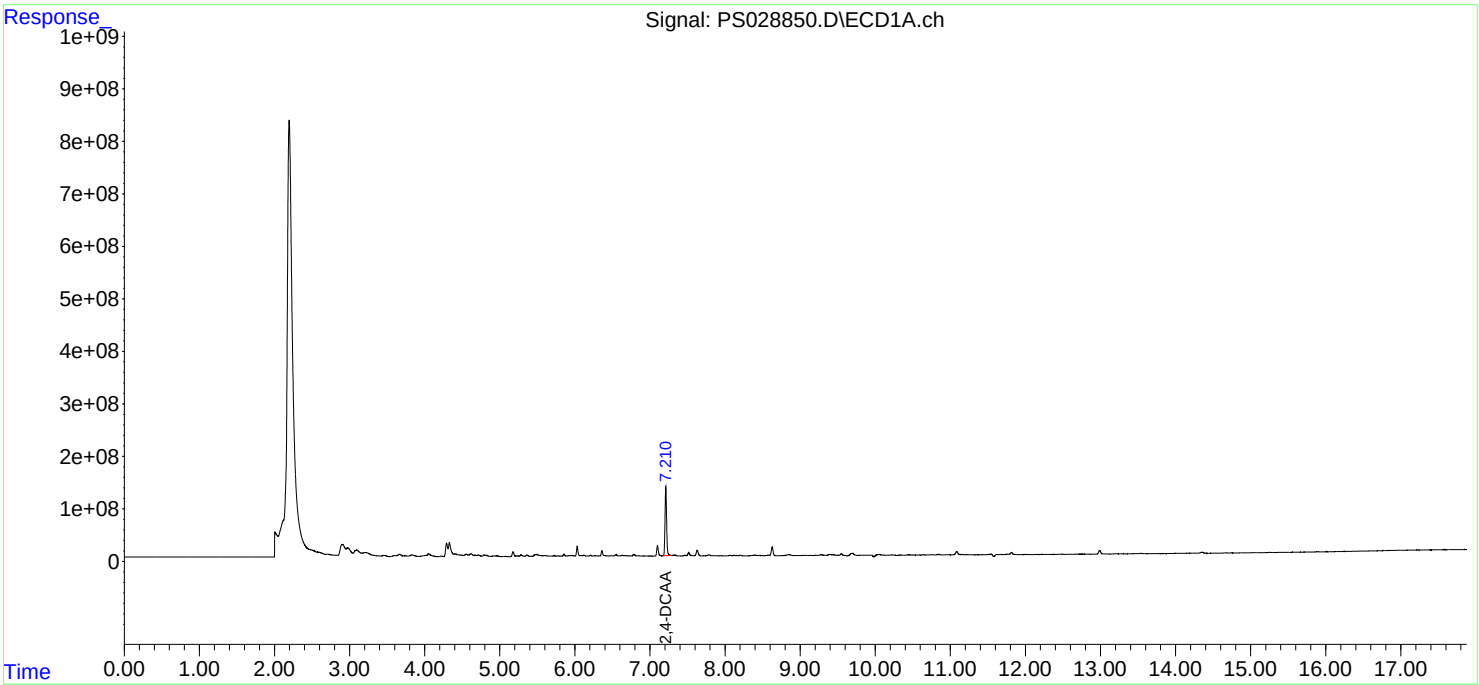
Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE

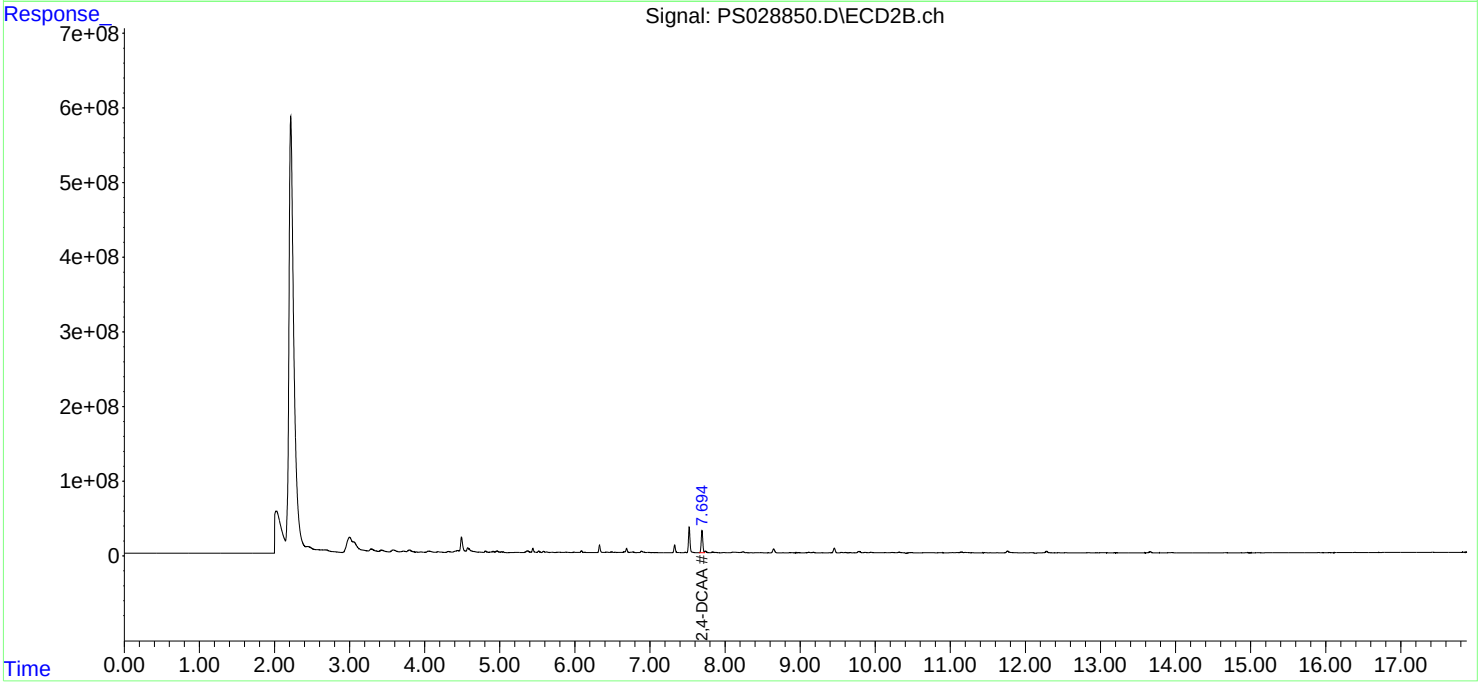
Manual Integrations APPROVED

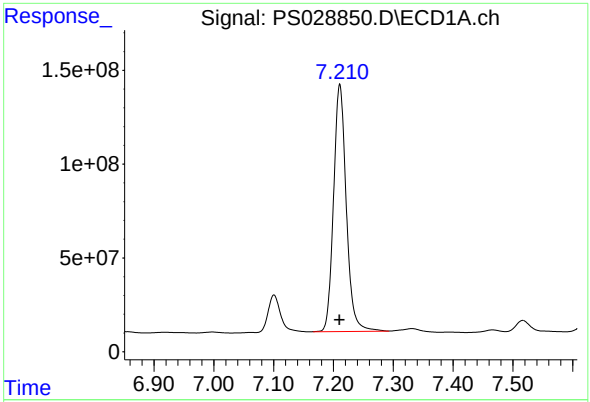
Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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







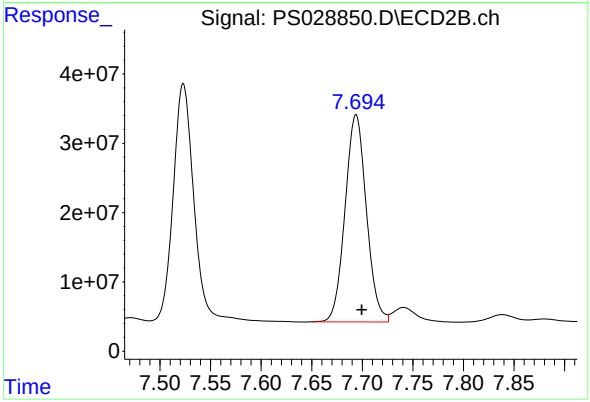
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1945775049
Conc: 860.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 438864149
Conc: 389.92 ng/ml

Raw Data: **PS028863.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/27/24
Client Sample ID:	PB165858TB	SDG No.:	P5380
Lab Sample ID:	PB165858TB	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028863.D	1	12/27/24 10:20	12/31/24 11:52	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	634		32 - 138		127%	SPK: 500

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028863.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 11:52
Operator : AR\AJ
Sample : PB165858TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165858TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.208	7.689	1435.2E6	399.2E6	634.476	354.692	#
	Target Compounds							

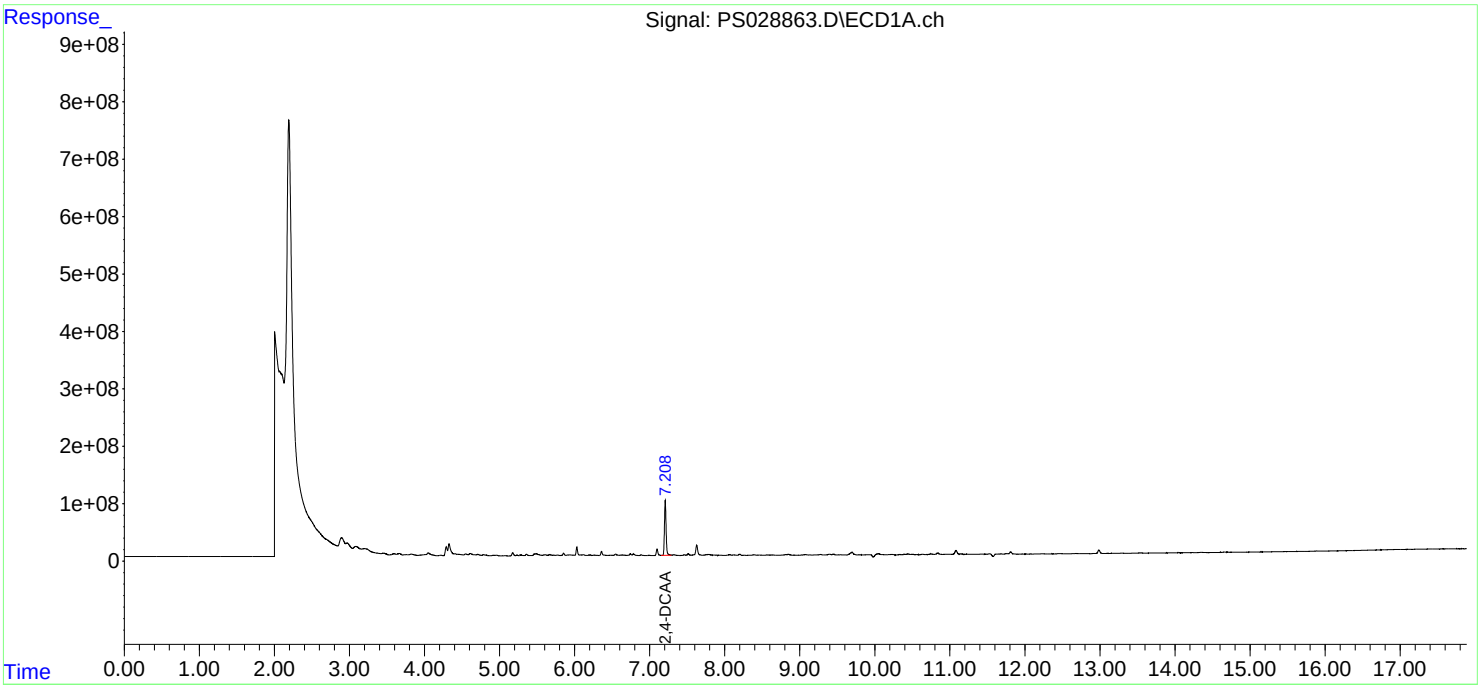
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

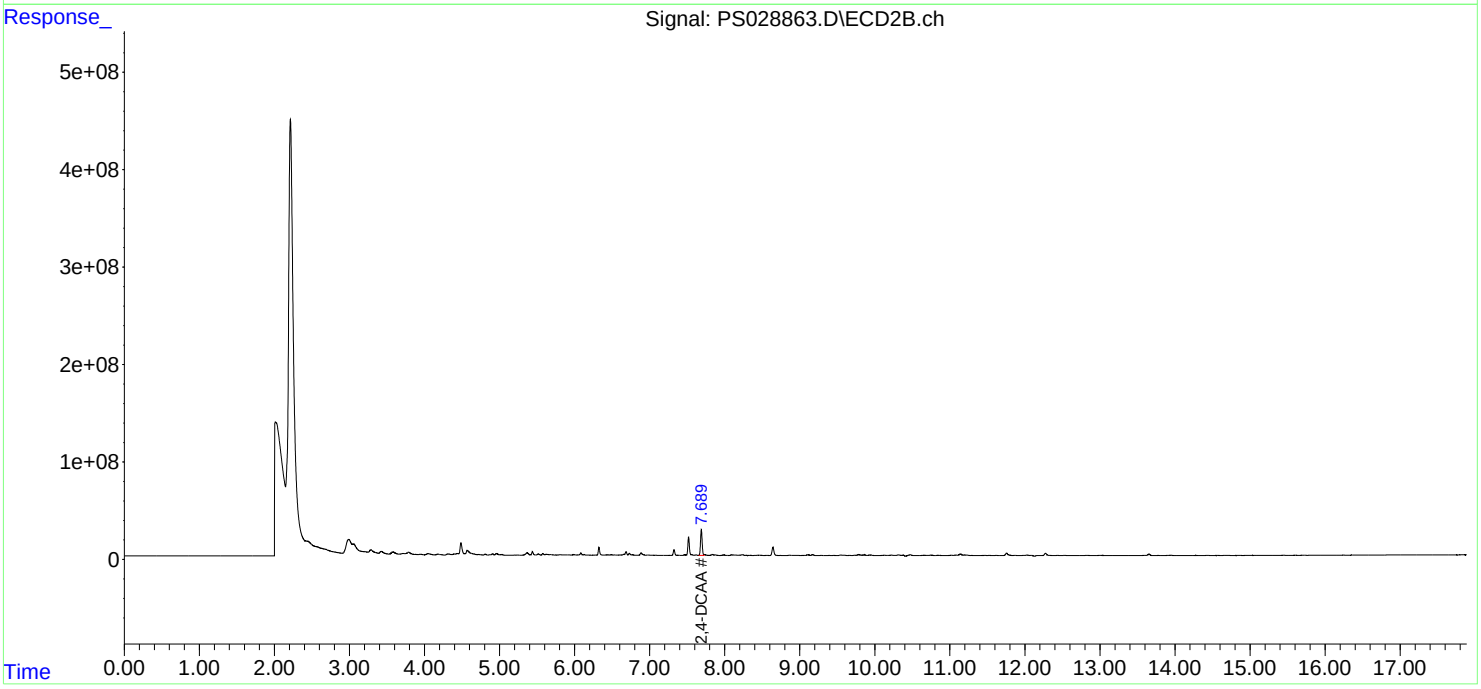
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028863.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 11:52
Operator : AR\AJ
Sample : PB165858TB
Misc :
ALS Vial : 4 Sample Multiplier: 1

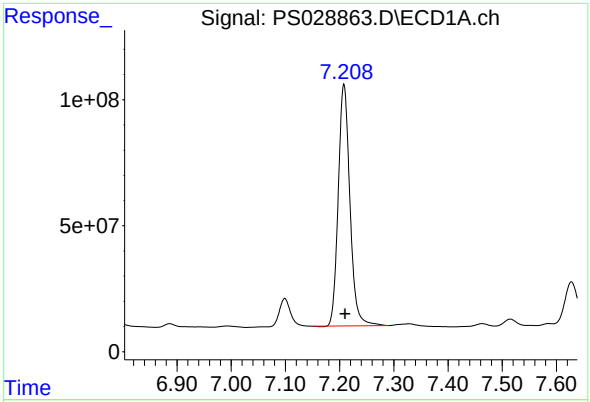
Instrument :
ECD_S
ClientSampleId :
PB165858TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



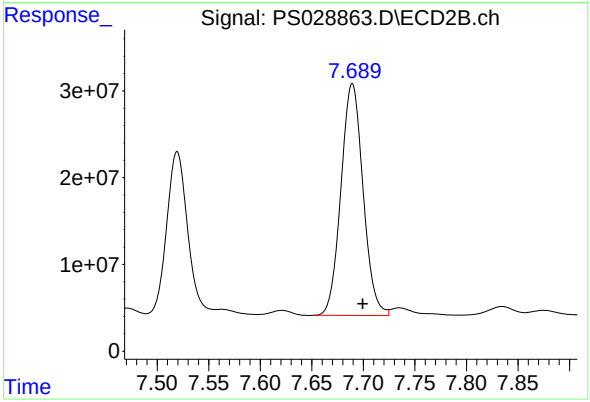




#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1435201381
Conc: 634.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165858TB



#4 2,4-DCAA

R.T.: 7.689 min
Delta R.T.: -0.010 min
Response: 399218780
Conc: 354.69 ng/ml

CALIBRATION SUMMARY

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 11:23 12:59

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

LAB FILE ID: RT 200 = PS028787.D RT 500 = PS028788.D

RT 750 = PS028789.D RT 1000 = PS028790.D RT 1500 = PS028791.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.21	9.21	9.21	9.21	9.21	9.21	9.11	9.31
2,4-D	8.33	8.33	8.33	8.33	8.33	8.33	8.23	8.43
2,4-DCAA	7.21	7.21	7.21	7.21	7.21	7.21	7.11	7.31

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 11:23 12:59

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

LAB FILE ID: RT 200 = PS028787.D RT 500 = PS028788.D

RT 750 = PS028789.D RT 1000 = PS028790.D RT 1500 = PS028791.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
2,4-D	8.94	8.94	8.94	8.94	8.94	8.94	8.84	9.04
2,4-DCAA	7.70	7.70	7.70	7.70	7.70	7.70	7.60	7.80

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 11:23 12:59

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

LAB FILE ID: **CF 200 =** PS028787.D **CF 500 =** PS028788.D

CF 750 = PS028789.D **CF 1000 =** PS028790.D **CF 1500 =** PS028791.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	16812700000	15996100000	15801400000	15298000000	14638400000	15709300000	5
2,4-D	3146520000	2896320000	2842430000	2725340000	2637060000	2849530000	7
2,4-DCAA	2519360000	2280310000	2254700000	2149750000	2106010000	2262030000	7

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Instrument ID: ECD_S **Calibration Date(s):** 12/23/2024 12/23/2024

Calibration Times: 11:23 12:59

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

LAB FILE ID: **CF 200 =** PS028787.D **CF 500 =** PS028788.D

CF 750 = PS028789.D **CF 1000 =** PS028790.D **CF 1500 =** PS028791.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	9147430000	9053780000	9109830000	8920050000	8686470000	8983510000	2
2,4-D	1472990000	1449810000	1452790000	1429890000	1410250000	1443150000	2
2,4-DCAA	1184820000	1126220000	1123240000	1104090000	1089310000	1125540000	3

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.699	503.9E6	237.0E6	222.752	210.534
	Target Compounds						
1) T	Dalapon	2.620	2.673	500.0E6	362.7E6	177.529	184.238
2) T	3,5-DICHL...	6.385	6.661	668.9E6	323.0E6	203.004	194.854
3) T	4-Nitroph...	7.008	7.228	299.9E6	166.2E6	199.645	198.584
5) T	DICAMBA	7.396	7.897	1911.4E6	998.4E6	193.846	181.867
6) T	MCPP	7.574	7.997	100.3E6	58391123	16.119m	17.869
7) T	MCPA	7.723	8.239	151.0E6	85488472	17.227	18.453
8) T	DICHLORPROP	8.101	8.611	551.3E6	266.5E6	207.799	193.146
9) T	2,4-D	8.331	8.939	591.5E6	276.9E6	207.594	191.888
10) T	Pentachlo...	8.628	9.464	8263.2E6	4286.0E6	211.512	196.616
11) T	2,4,5-TP ...	9.205	9.842	3194.4E6	1738.0E6	203.346	193.467
12) T	2,4,5-T	9.498	10.260	3340.3E6	1703.5E6	205.314	195.600
13) T	2,4-DB	10.069	10.826	695.4E6	175.1E6	222.773	180.294
14) T	DINOSEB	11.276	11.204	2736.5E6	1244.5E6	203.581	202.062
15) T	Picloram	11.084	12.292	5334.3E6	2328.7E6	198.947	181.377
16) T	DCPA	11.570	12.245	4983.4E6	2065.0E6	207.201	192.188

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

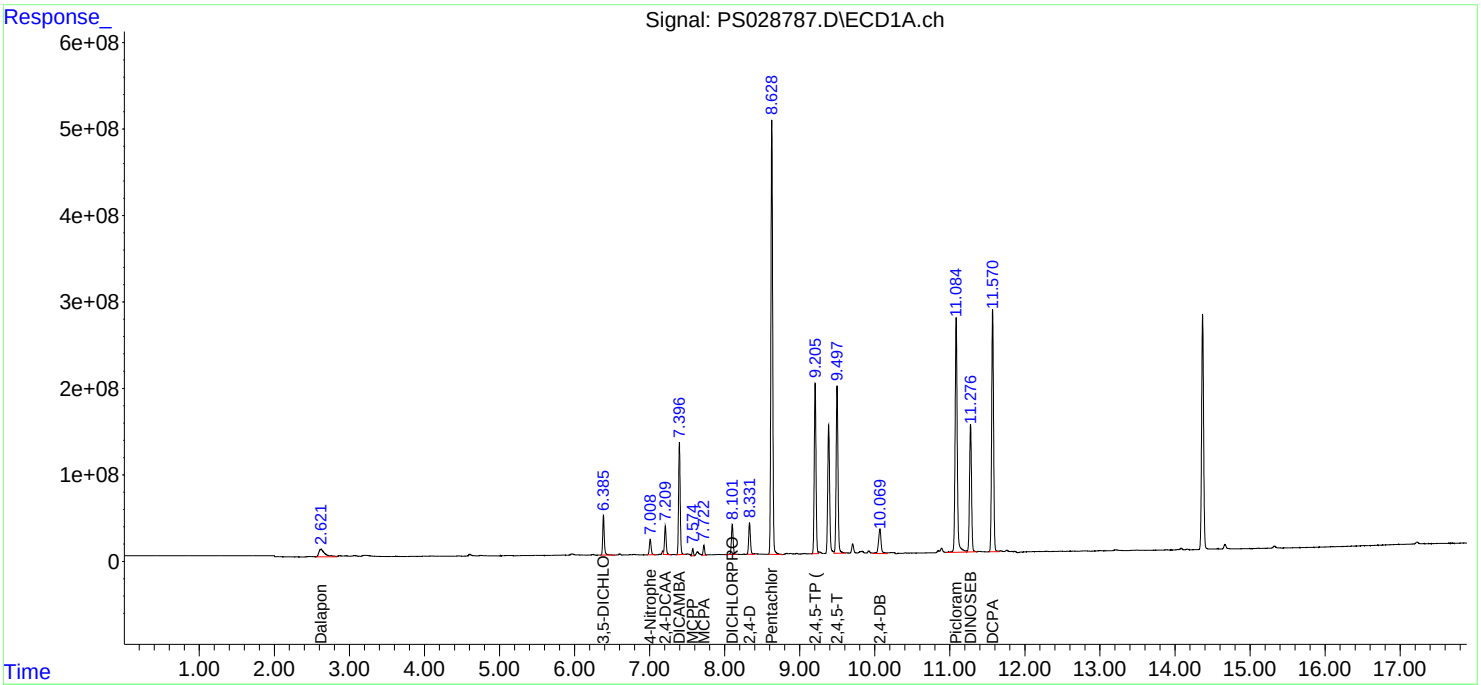
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

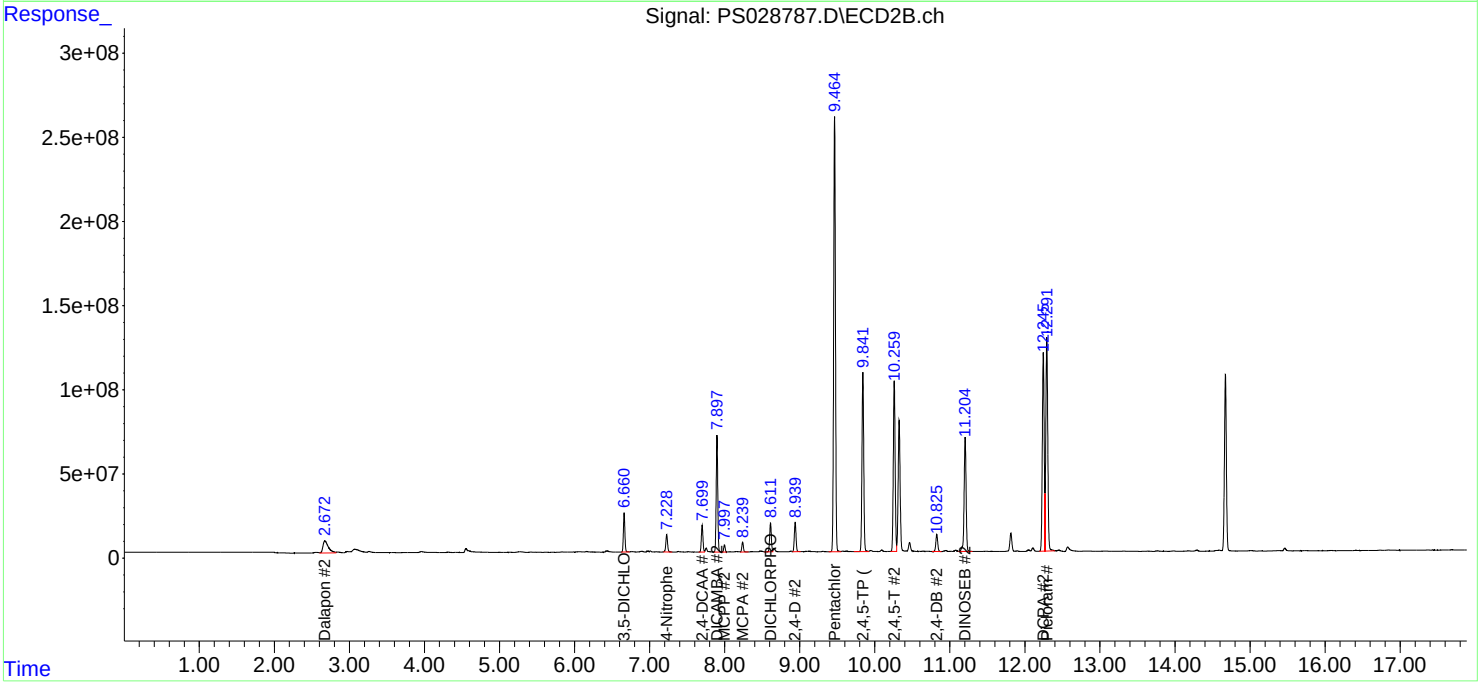
Manual Integrations APPROVED

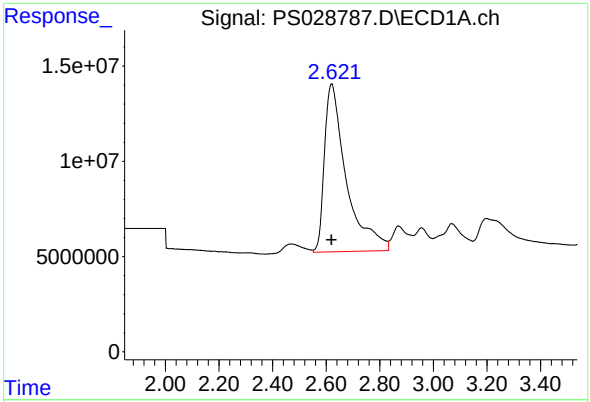
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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 0.25µm







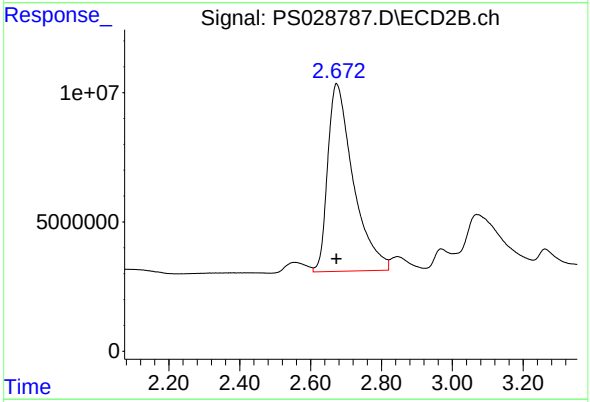
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 500038468
Conc: 177.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

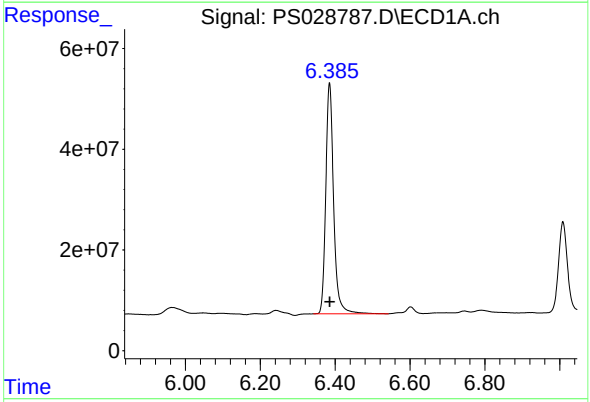
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



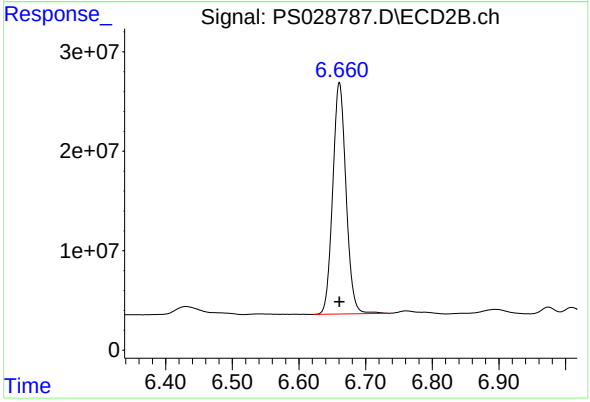
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 362691844
Conc: 184.24 ng/ml



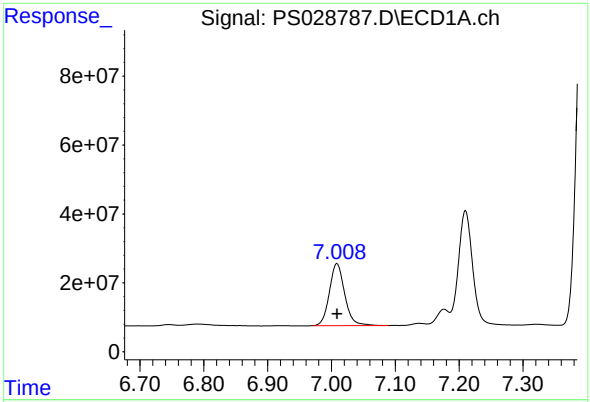
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 668926243
Conc: 203.00 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 322985148
Conc: 194.85 ng/ml



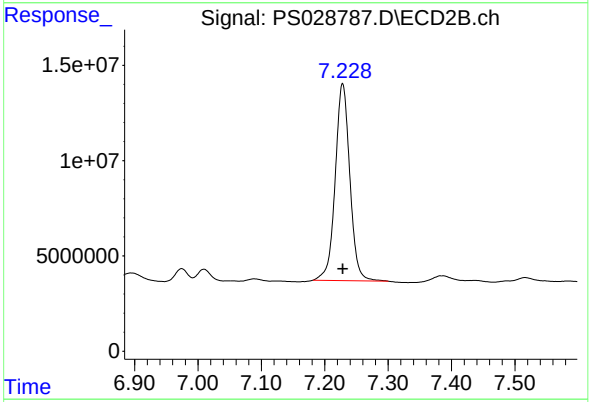
#3 4-Nitrophenol

R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 299878461
Conc: 199.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

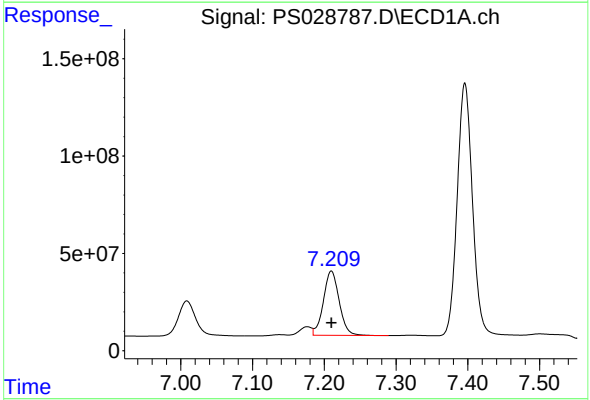
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



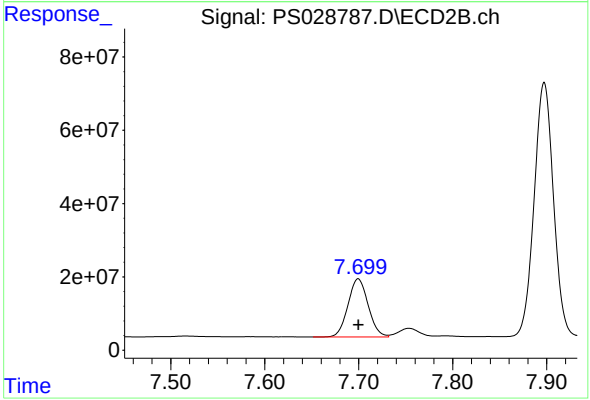
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 166193367
Conc: 198.58 ng/ml



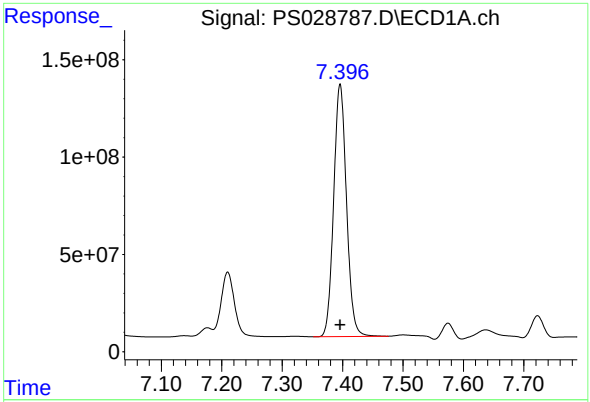
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 503871113
Conc: 222.75 ng/ml



#4 2,4-DCAA

R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 236963416
Conc: 210.53 ng/ml



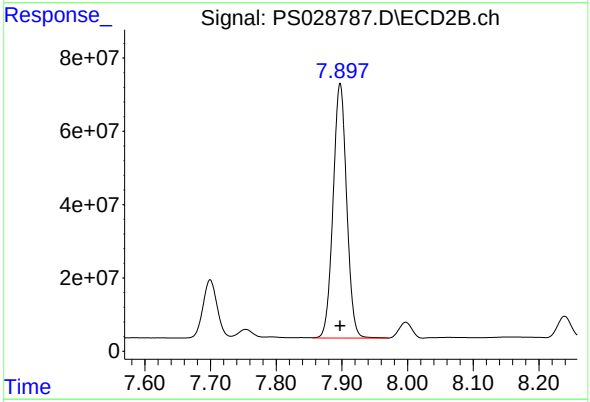
#5 DICAMBA

R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 1911442793
Conc: 193.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

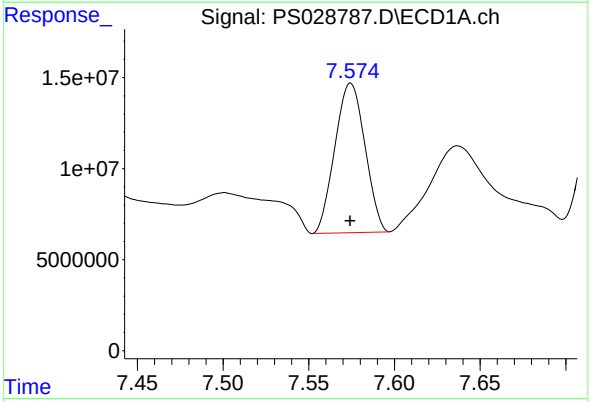
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



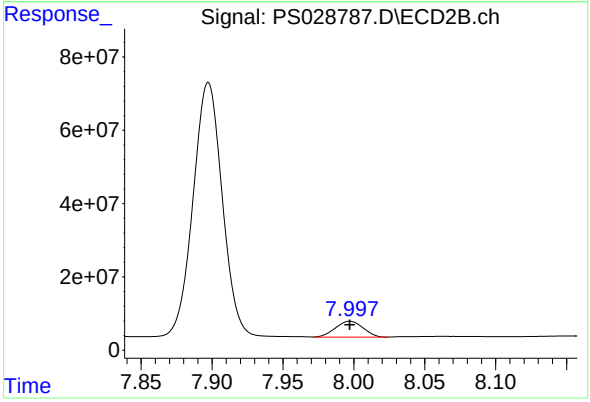
#5 DICAMBA

R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 998426779
Conc: 181.87 ng/ml



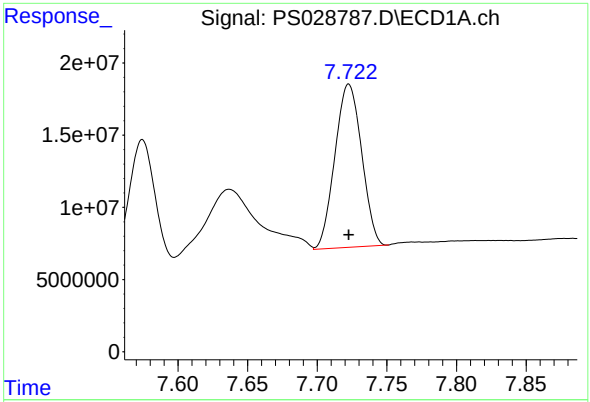
#6 MCPP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 100286284
Conc: 16.12 ug/ml m



#6 MCPP

R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 58391123
Conc: 17.87 ug/ml



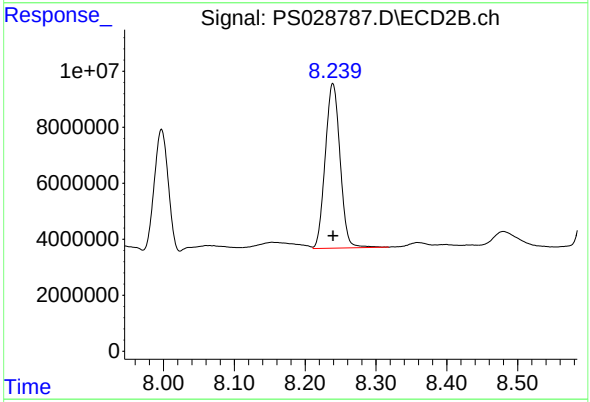
#7 MCPA

R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 151004248
Conc: 17.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

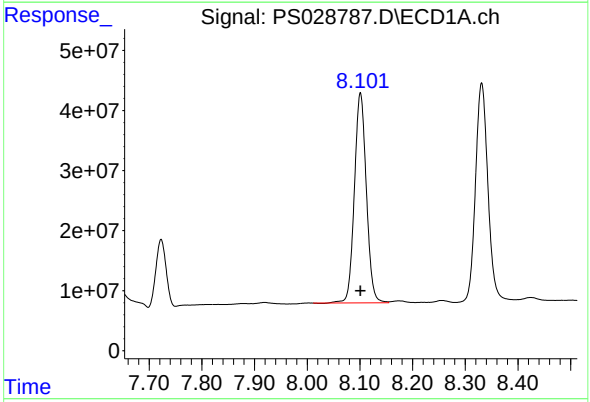
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



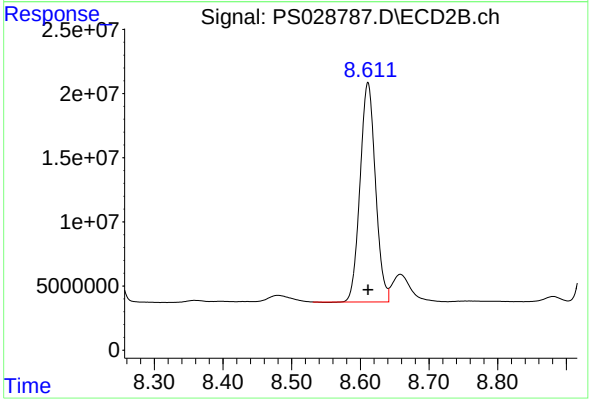
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 85488472
Conc: 18.45 ug/ml



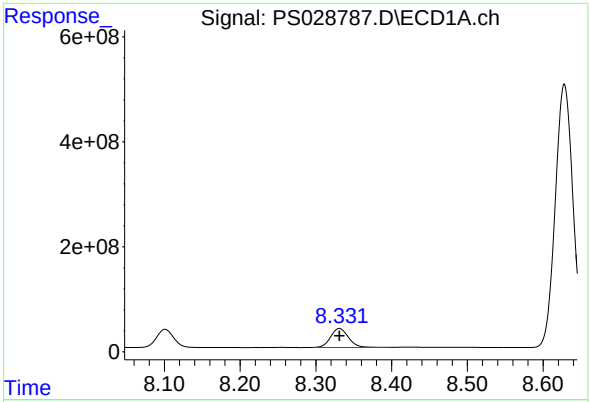
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 551327966
Conc: 207.80 ng/ml



#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 266475549
Conc: 193.15 ng/ml



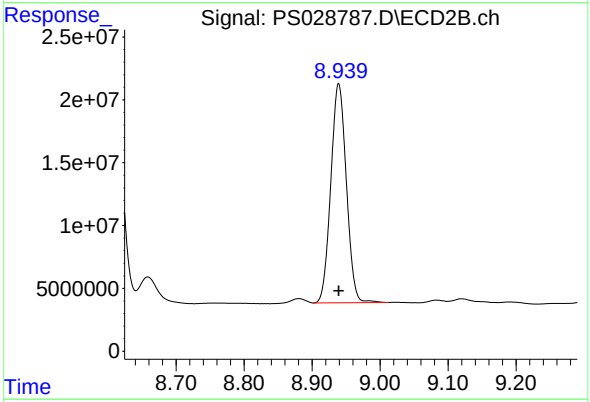
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 591545661
Conc: 207.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

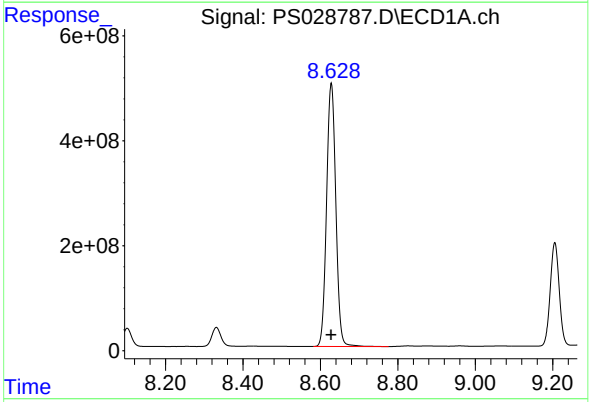
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



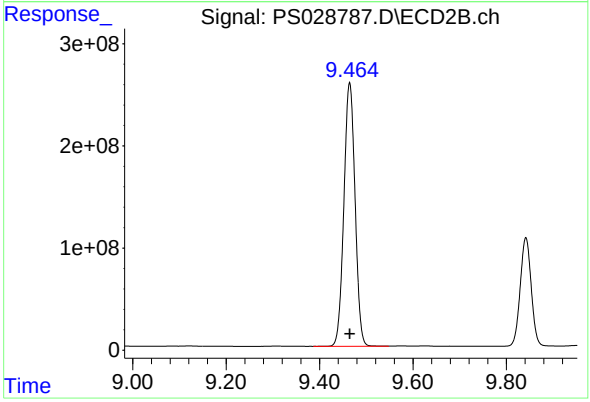
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 276921663
Conc: 191.89 ng/ml



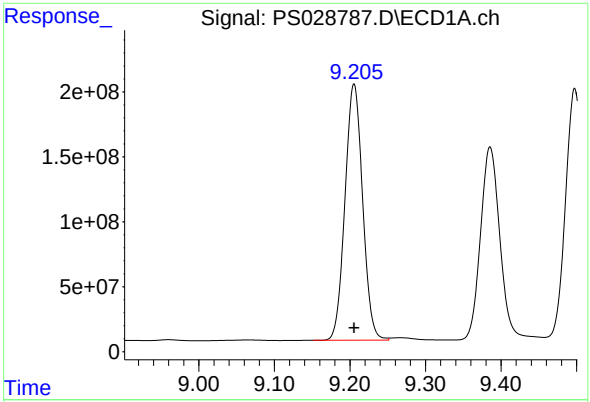
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 8263150461
Conc: 211.51 ng/ml



#10 Pentachlorophenol

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4285983917
Conc: 196.62 ng/ml



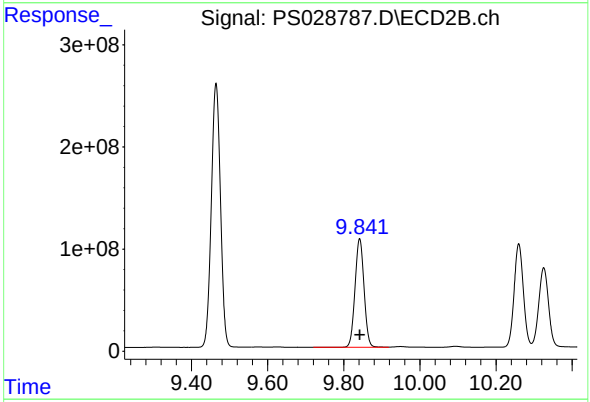
#11 2,4,5-TP (SILVEX)

R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 3194421416
Conc: 203.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

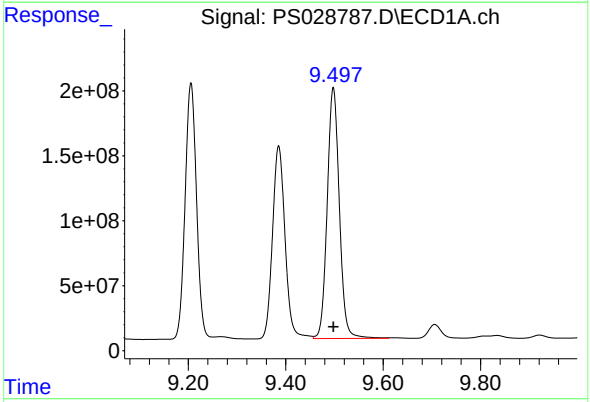
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



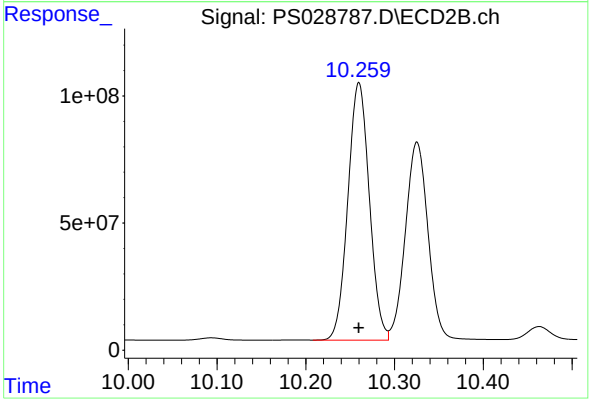
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 1738011876
Conc: 193.47 ng/ml



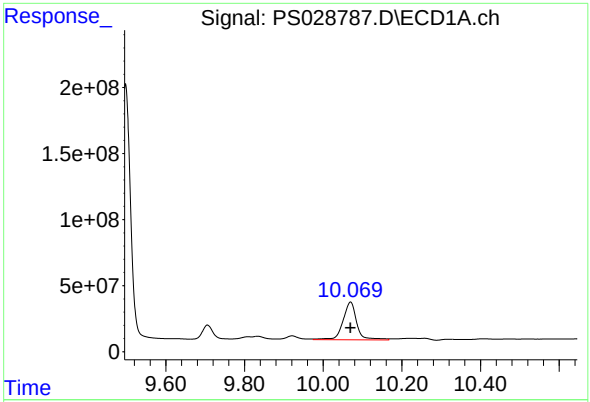
#12 2,4,5-T

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 3340298408
Conc: 205.31 ng/ml



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 1703520011
Conc: 195.60 ng/ml



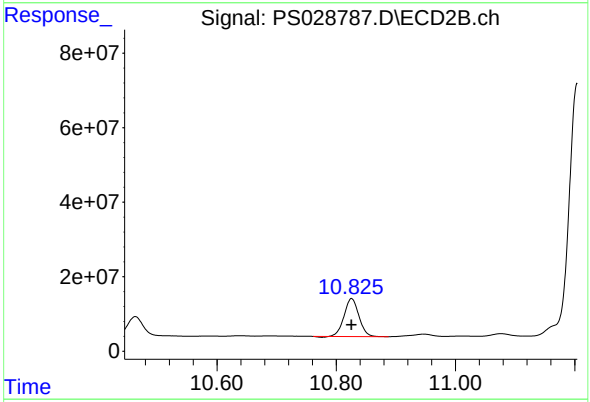
#13 2,4-DB

R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 695408240
Conc: 222.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

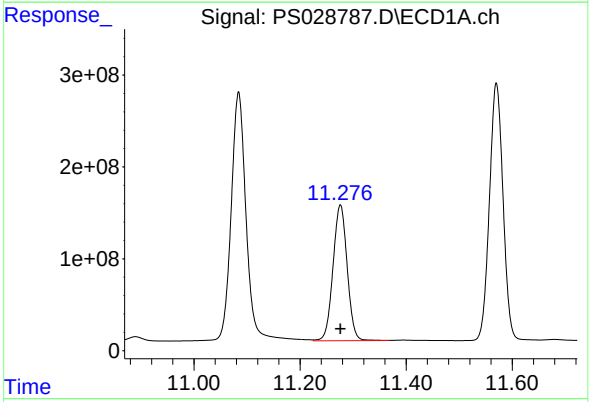
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



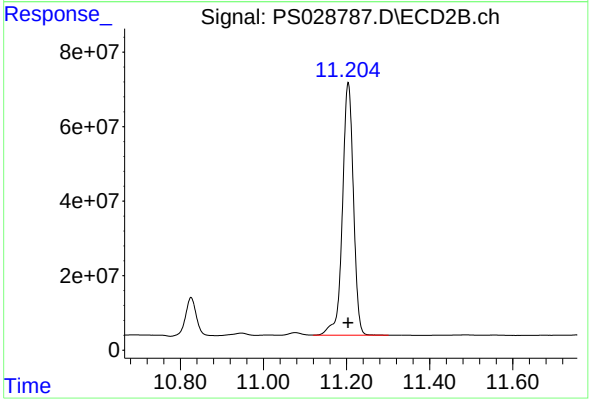
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 175083291
Conc: 180.29 ng/ml



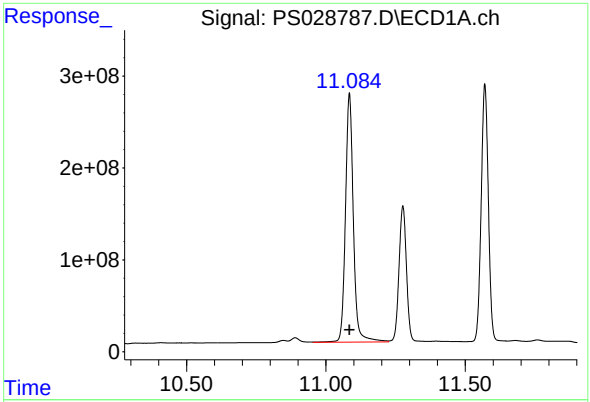
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml



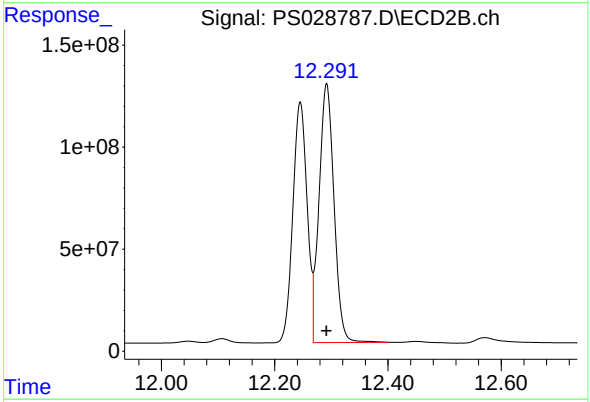
#15 Picloram

R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 5334309678
Conc: 198.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

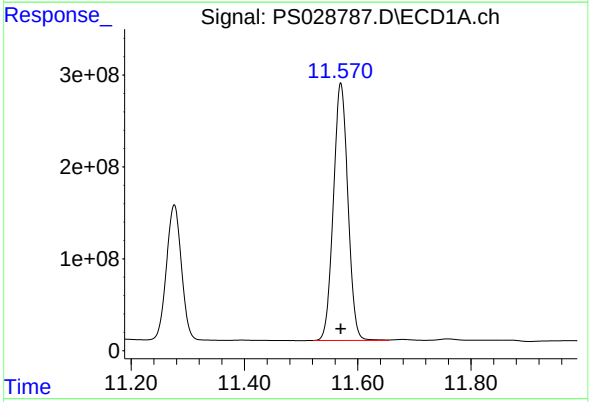
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



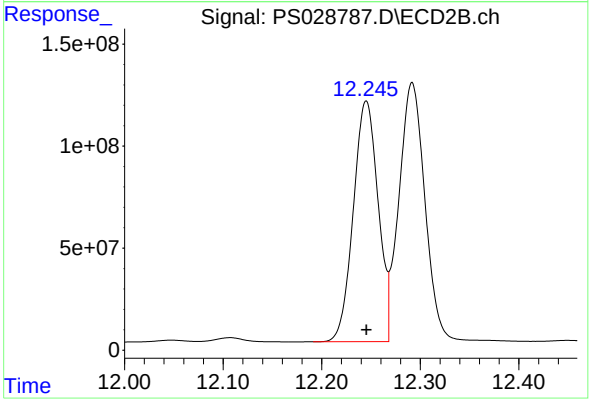
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 2328698069
Conc: 181.38 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 4983398928
Conc: 207.20 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 2064979082
Conc: 192.19 ng/ml

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:47
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: Dec 23 13:41:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.699	1140.2E6	563.1E6	518.796	506.979
		Target Compounds						
1)	T	Dalapon	2.620	2.675	1267.0E6	893.4E6	447.085	455.201
2)	T	3,5-DICHL...	6.385	6.660	1544.2E6	770.3E6	479.600	470.291
3)	T	4-Nitroph...	7.009	7.228	669.6E6	375.2E6	456.834	458.816
5)	T	DICAMBA	7.396	7.898	4672.9E6	2557.2E6	477.606	462.038
6)	T	MCPP	7.577	8.000	285.1E6	152.1E6	44.195	45.964
7)	T	MCPA	7.726	8.242	401.7E6	215.2E6	44.993	46.357
8)	T	DICHLORPROP	8.102	8.611	1259.5E6	649.7E6	487.537	474.162
9)	T	2,4-D	8.331	8.940	1361.3E6	681.4E6	490.497	474.623
10)	T	Pentachlo...	8.629	9.465	19572.0E6	10612.4E6	515.580	491.111
11)	T	2,4,5-TP ...	9.206	9.842	7598.2E6	4300.5E6	492.316	480.909
12)	T	2,4,5-T	9.497	10.260	7903.8E6	4172.3E6	495.804	482.629
13)	T	2,4-DB	10.069	10.826	1449.6E6	464.1E6	485.291	471.846
14)	T	DINOSEB	11.276	11.204	6410.2E6	2875.2E6	486.980	475.713
15)	T	Picloram	11.085	12.293	12828.2E6	6048.5E6	484.133	465.818
16)	T	DCPA	11.571	12.245	11834.6E6	5192.5E6	502.000	483.387

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

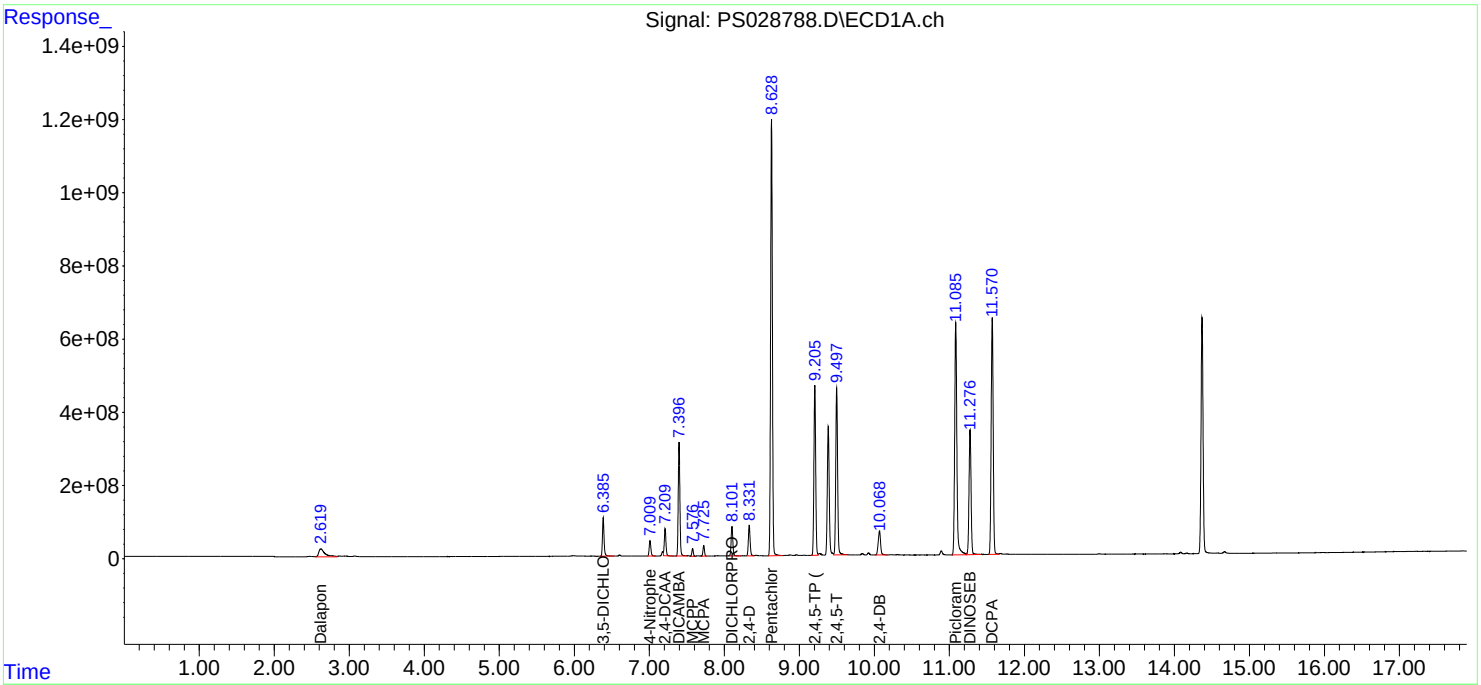
ICAL Form

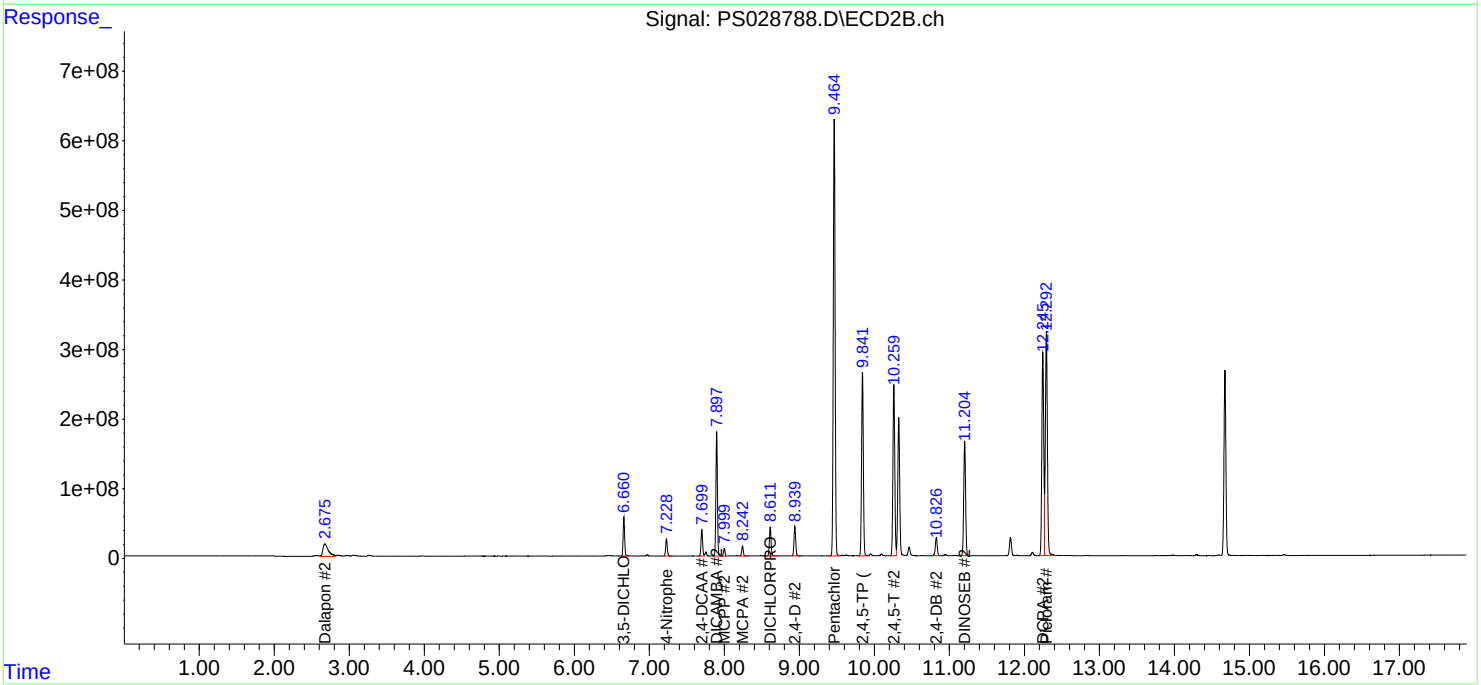
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:47
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

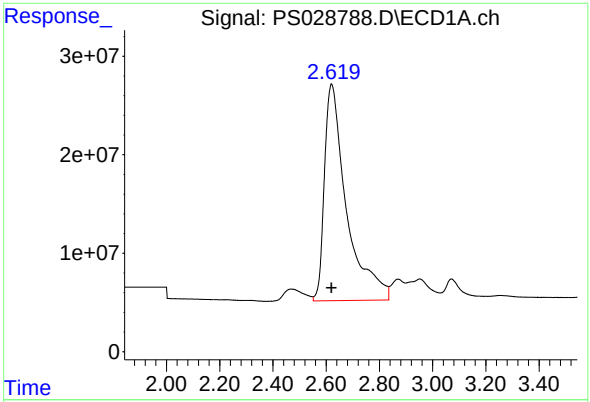
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:41:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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 0.25µm



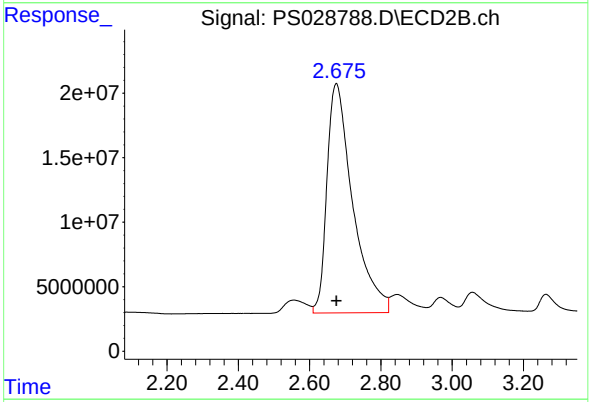




#1 Dalapon

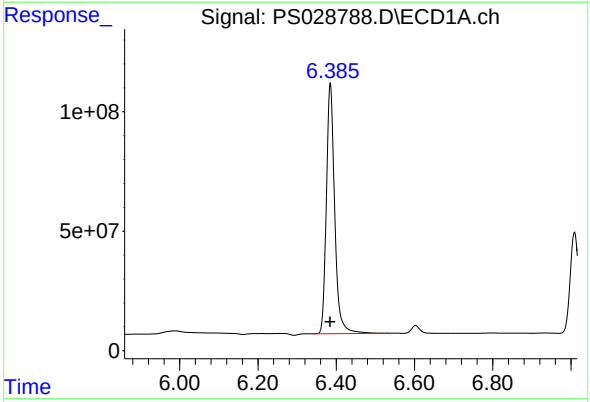
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1267014462
Conc: 447.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



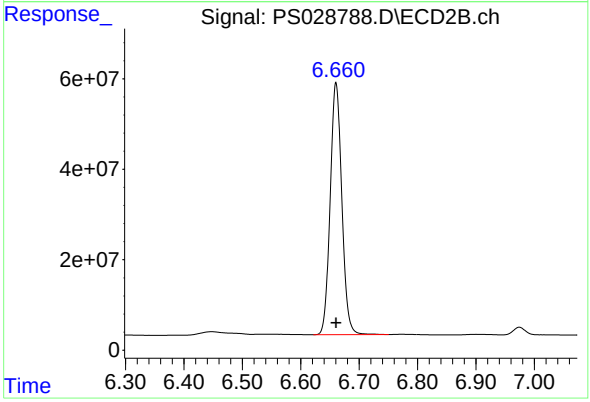
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 893354018
Conc: 455.20 ng/ml



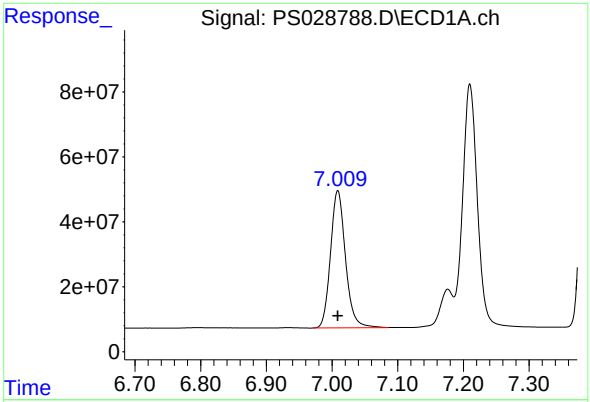
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 1544227113
Conc: 479.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

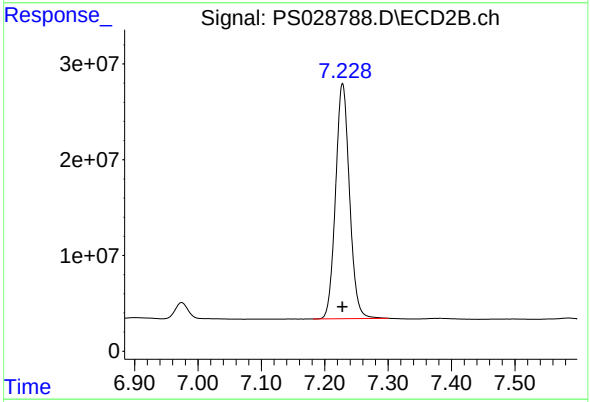
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 770264057
Conc: 470.29 ng/ml



#3 4-Nitrophenol

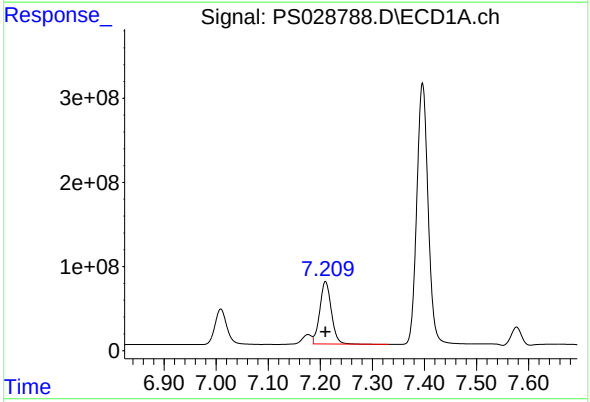
R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 669559334
Conc: 456.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



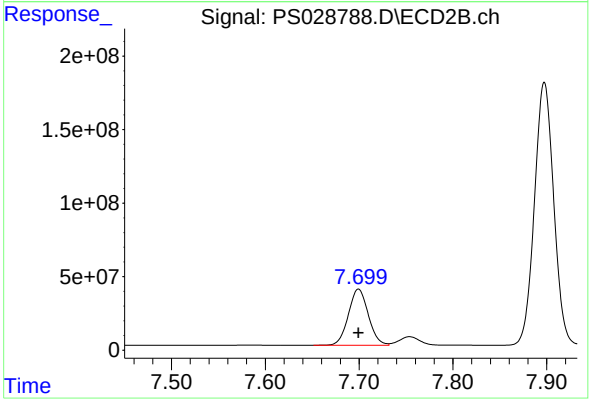
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 375233371
Conc: 458.82 ng/ml



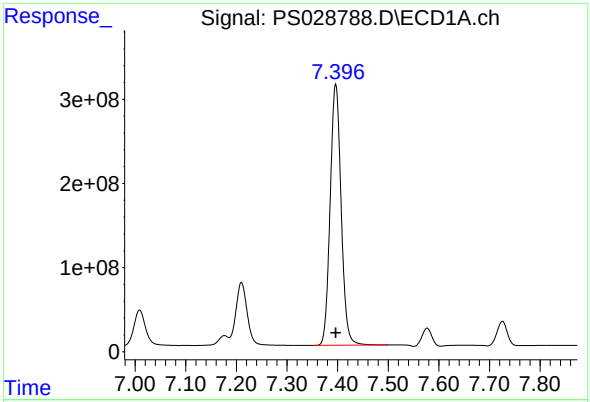
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1140153645
Conc: 518.80 ng/ml



#4 2,4-DCAA

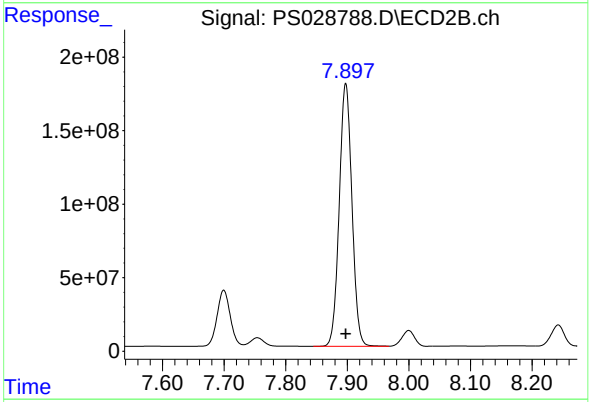
R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 563110781
Conc: 506.98 ng/ml



#5 DICAMBA

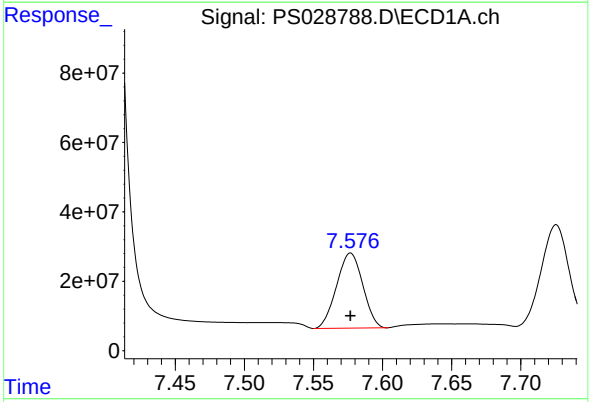
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 4672891528
Conc: 477.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



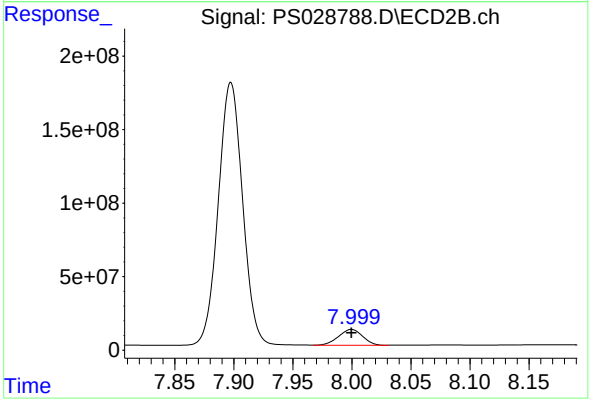
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 2557214077
Conc: 462.04 ng/ml



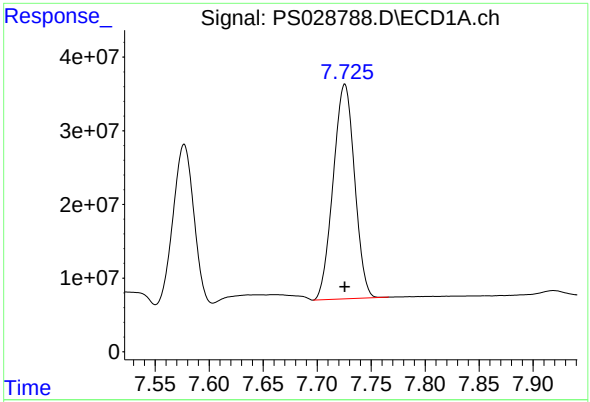
#6 MCPP

R.T.: 7.577 min
Delta R.T.: 0.000 min
Response: 285079042
Conc: 44.20 ug/ml



#6 MCPP

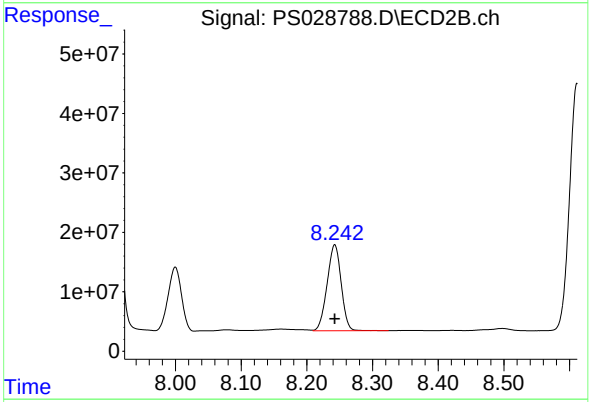
R.T.: 8.000 min
Delta R.T.: 0.000 min
Response: 152060546
Conc: 45.96 ug/ml



#7 MCPA

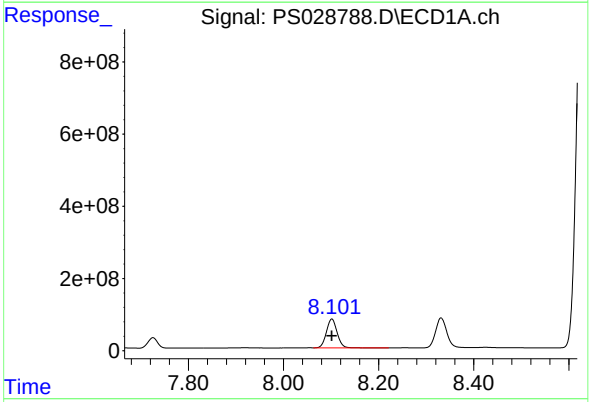
R.T.: 7.726 min
Delta R.T.: 0.000 min
Response: 401657279
Conc: 44.99 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



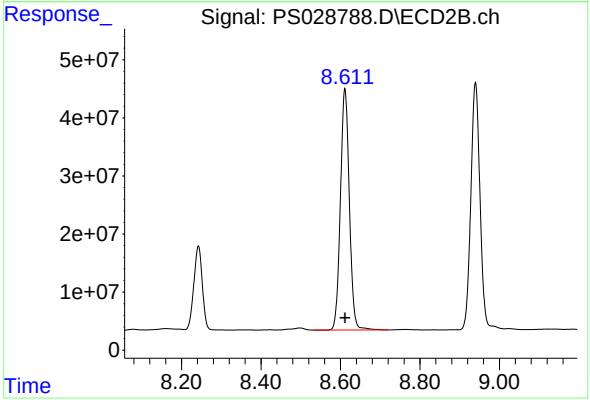
#7 MCPA

R.T.: 8.242 min
Delta R.T.: 0.000 min
Response: 215192782
Conc: 46.36 ug/ml



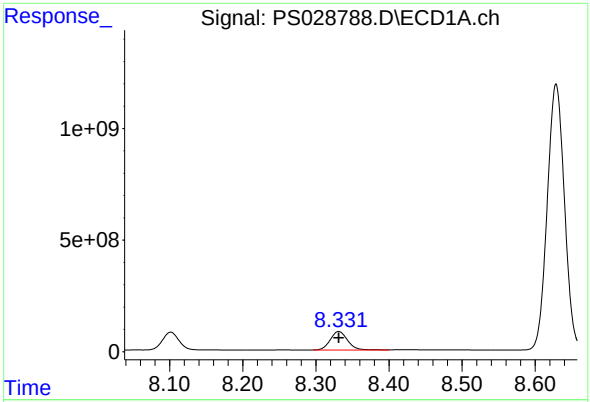
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1259463977
Conc: 487.54 ng/ml



#8 DICHLORPROP

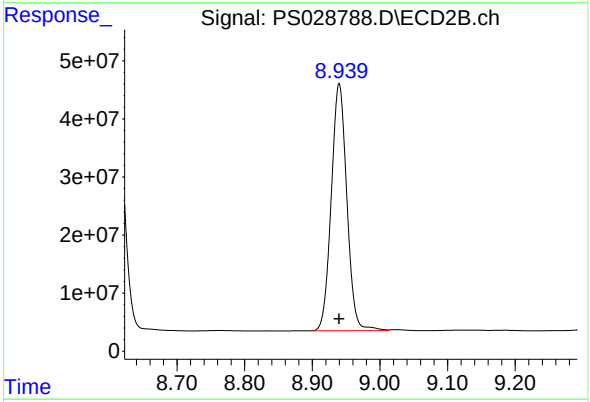
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 649705655
Conc: 474.16 ng/ml



#9 2,4-D

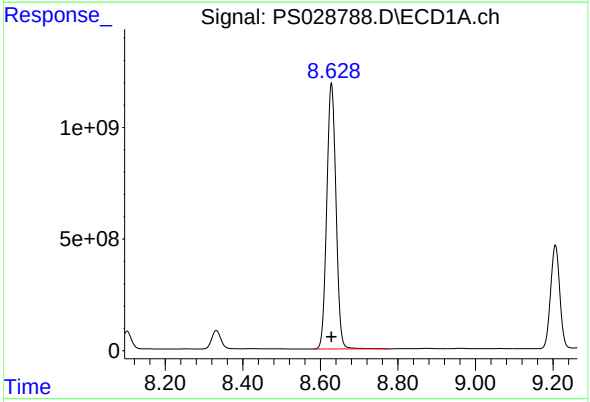
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 1361269635
Conc: 490.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



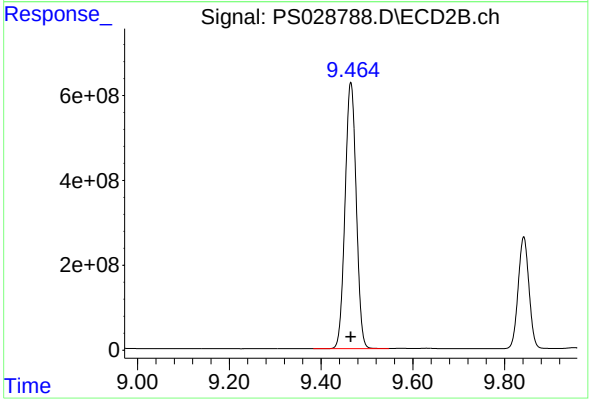
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 681409441
Conc: 474.62 ng/ml



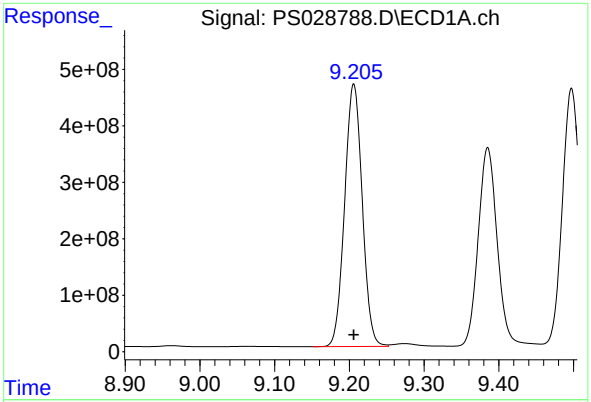
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 19572039175
Conc: 515.58 ng/ml



#10 Pentachlorophenol

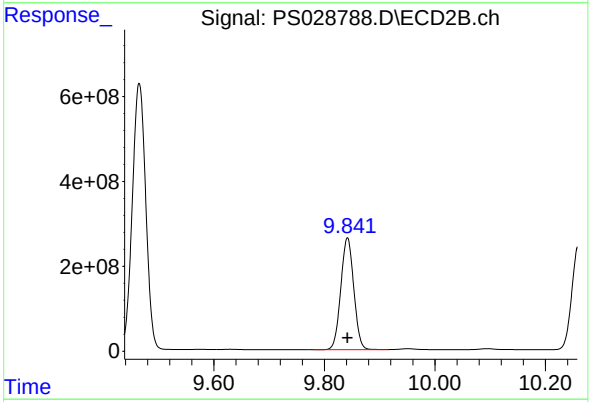
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 10612380681
Conc: 491.11 ng/ml



#11 2,4,5-TP (SILVEX)

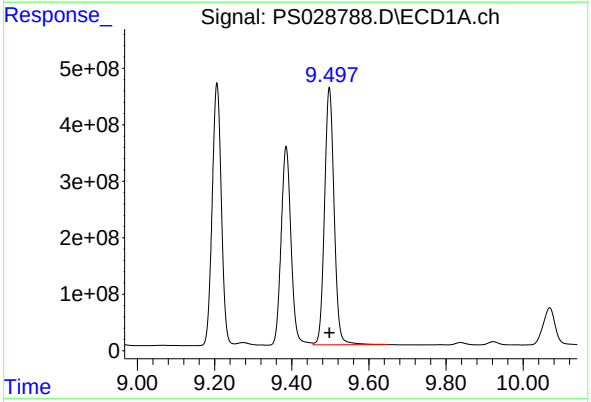
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 7598153113
Conc: 492.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



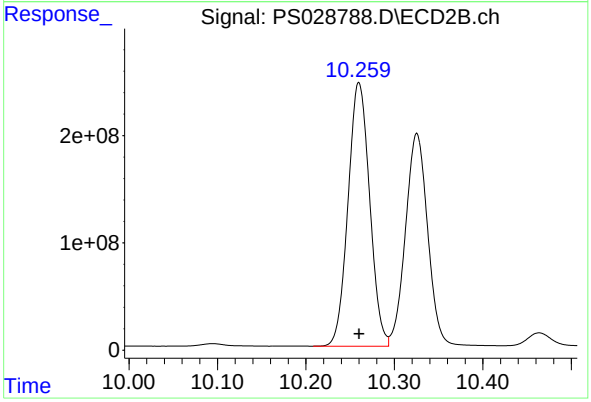
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 4300547739
Conc: 480.91 ng/ml



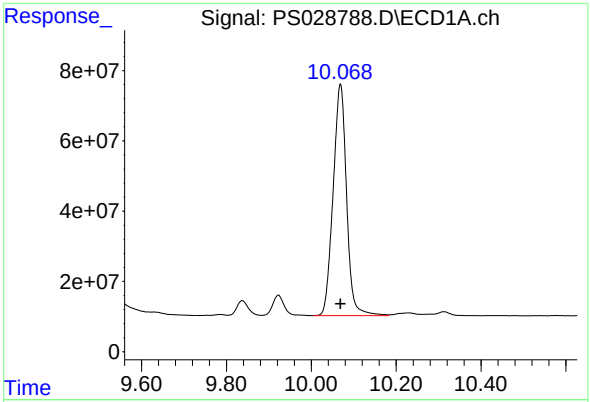
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 7903783723
Conc: 495.80 ng/ml



#12 2,4,5-T

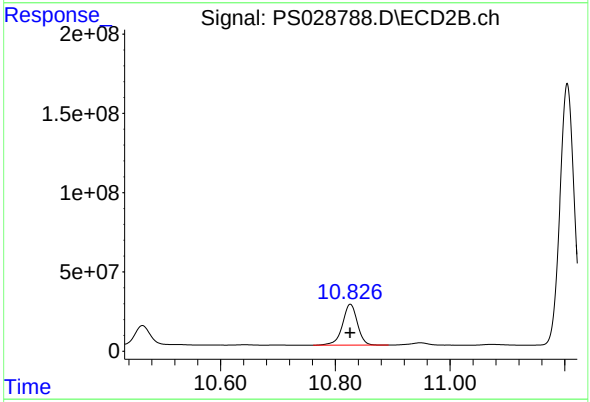
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 4172330240
Conc: 482.63 ng/ml



#13 2,4-DB

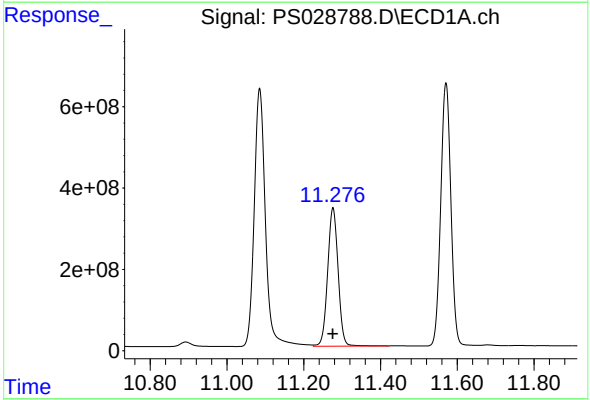
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 1449558622
Conc: 485.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



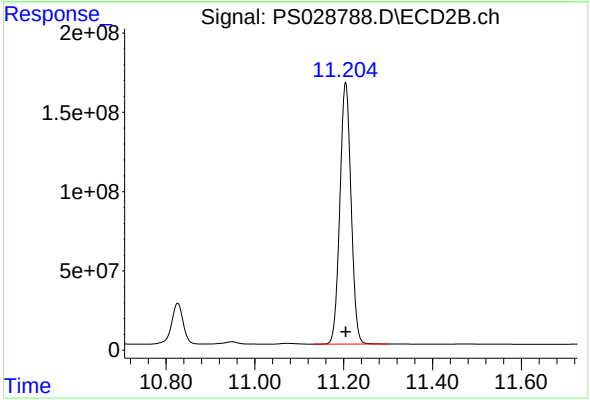
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 464060495
Conc: 471.85 ng/ml



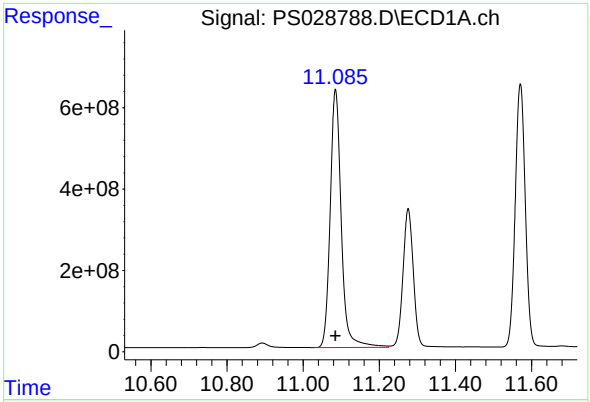
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 6410222068
Conc: 486.98 ng/ml



#14 DINOSEB

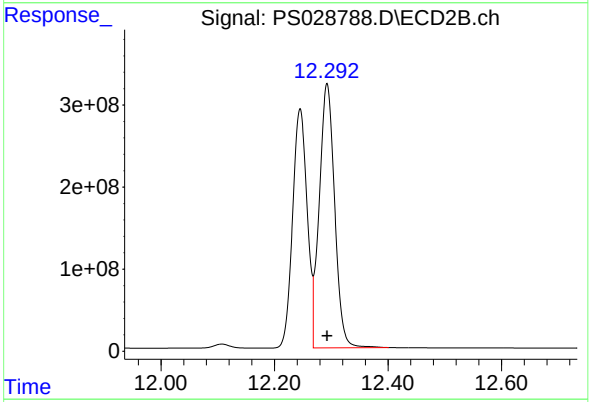
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 2875195093
Conc: 475.71 ng/ml



#15 Picloram

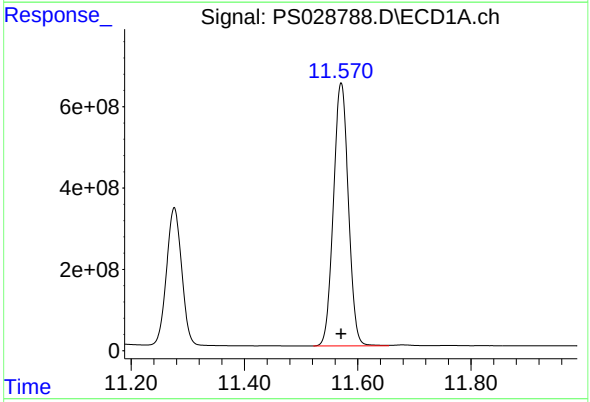
R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 12828150222
Conc: 484.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



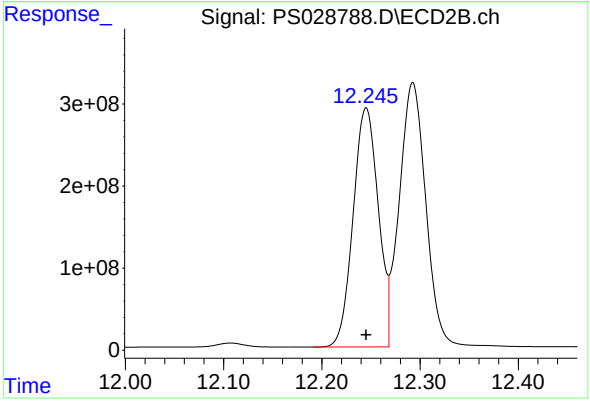
#15 Picloram

R.T.: 12.293 min
Delta R.T.: 0.000 min
Response: 6048506679
Conc: 465.82 ng/ml



#16 DCPA

R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 11834645347
Conc: 502.00 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 5192521894
Conc: 483.39 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028789.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:11
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: Dec 23 13:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.700	1691.0E6	842.4E6	750.000	750.000
		Target Compounds						
1)	T	Dalapon	2.620	2.674	1942.8E6	1349.3E6	682.500	682.500
2)	T	3,5-DICHL...	6.385	6.660	2285.6E6	1155.6E6	697.500	697.500
3)	T	4-Nitroph...	7.009	7.228	1007.9E6	559.5E6	682.500	682.500
5)	T	DICAMBA	7.397	7.898	7011.9E6	3936.4E6	705.000	705.000
6)	T	MCPP	7.579	8.002	455.0E6	235.2E6	70.500	70.500
7)	T	MCPA	7.729	8.245	625.6E6	327.4E6	69.750	69.750
8)	T	DICHLORPROP	8.102	8.612	1852.8E6	978.9E6	705.000	705.000
9)	T	2,4-D	8.332	8.940	2003.9E6	1024.2E6	705.000	705.000
10)	T	Pentachlo...	8.629	9.465	28730.9E6	15836.1E6	712.500	712.500
11)	T	2,4,5-TP ...	9.206	9.842	11258.5E6	6490.8E6	712.500	712.500
12)	T	2,4,5-T	9.497	10.260	11647.7E6	6266.0E6	712.500	712.500
13)	T	2,4-DB	10.069	10.826	2161.1E6	705.6E6	712.500	712.500
14)	T	DINOSEB	11.276	11.204	9500.8E6	4334.9E6	705.000	705.000
15)	T	Picloram	11.085	12.292	19296.4E6	9378.2E6	712.500	712.500
16)	T	DCPA	11.571	12.245	17447.7E6	7888.2E6	720.000	720.000

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

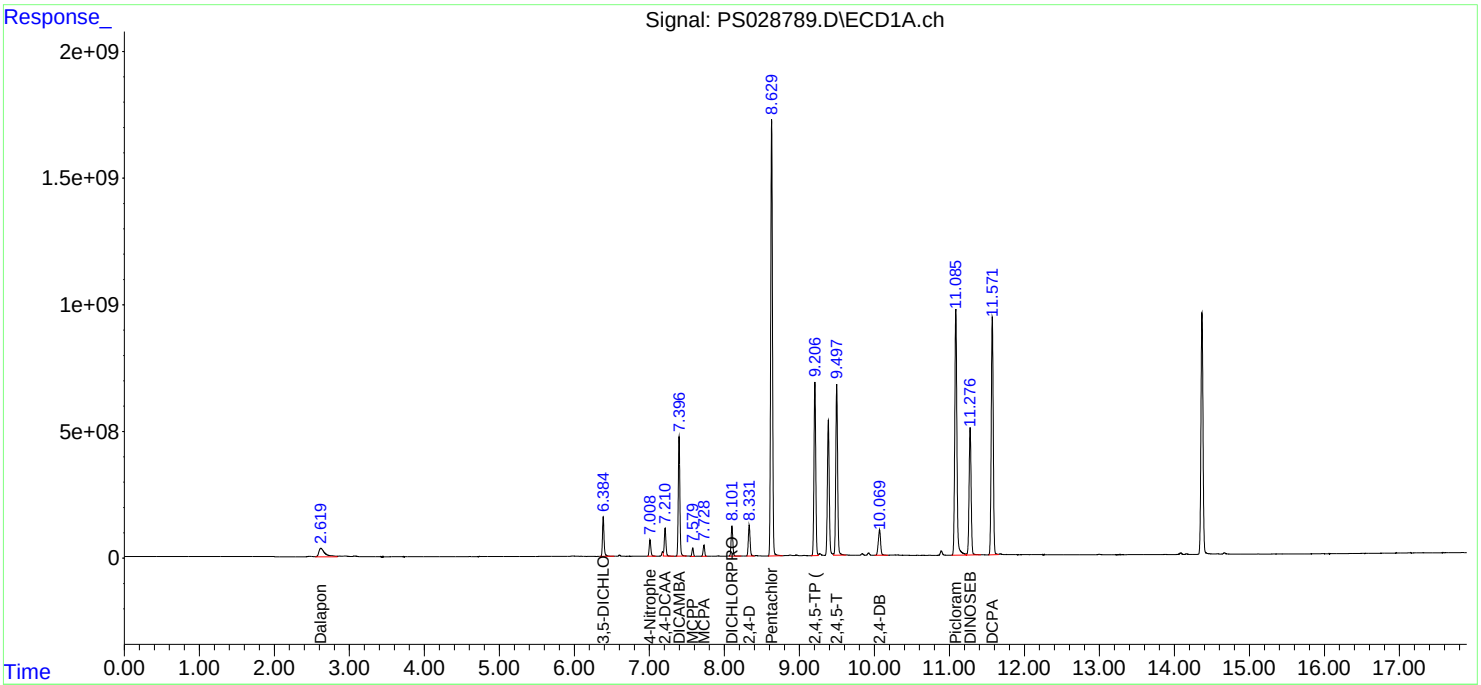
ICAL Form

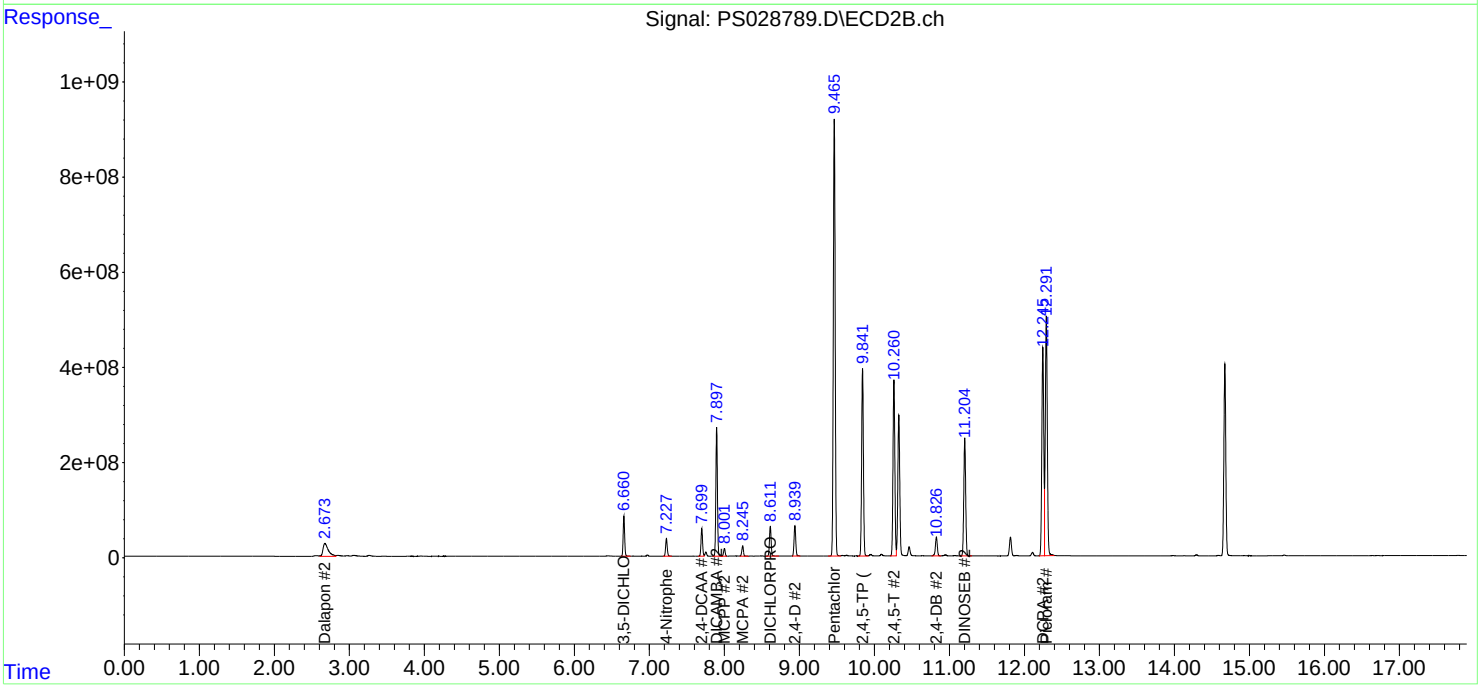
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028789.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:11
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

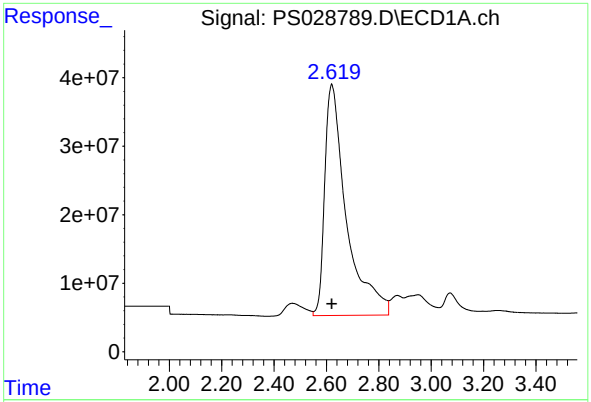
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:35:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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 0.25µm



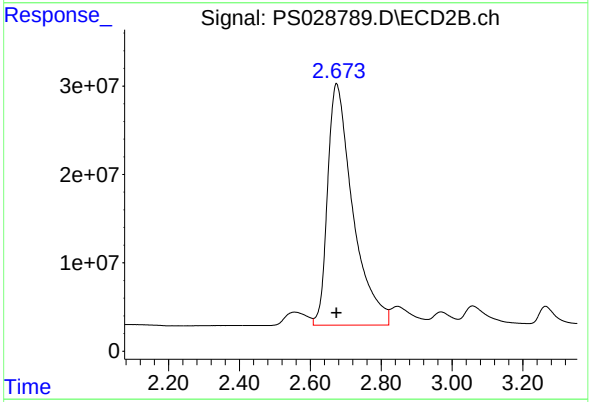




#1 Dalapon

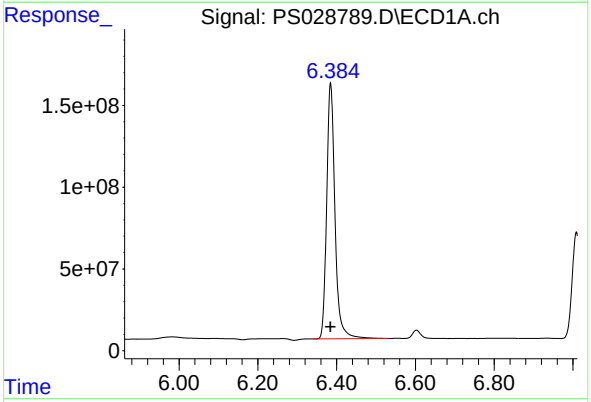
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1942818105
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



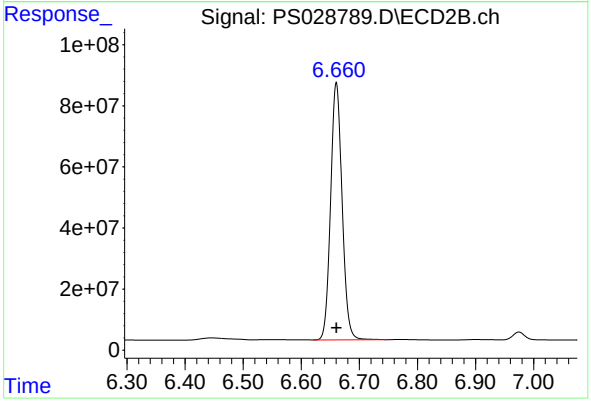
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 1349337704
Conc: 682.50 ng/ml



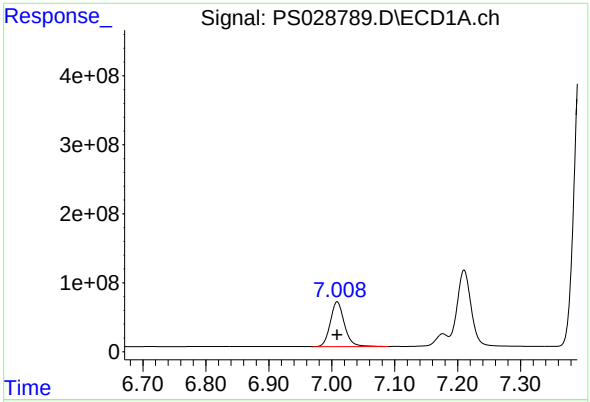
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2285586505
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

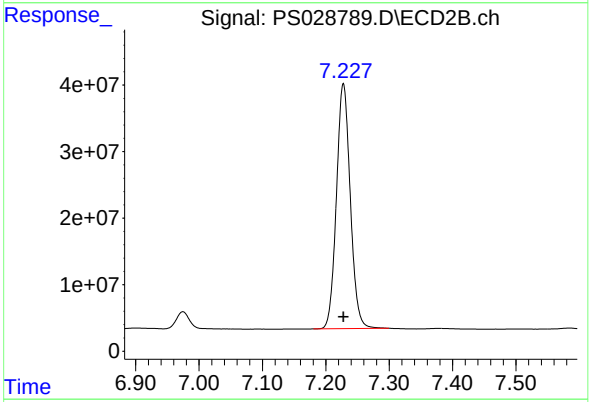
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1155579085
Conc: 697.50 ng/ml



#3 4-Nitrophenol

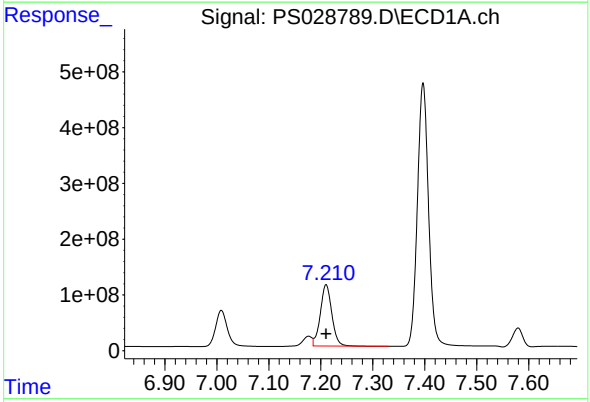
R.T.: 7.009 min
Delta R.T.: 0.000 min
Response: 1007897476
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



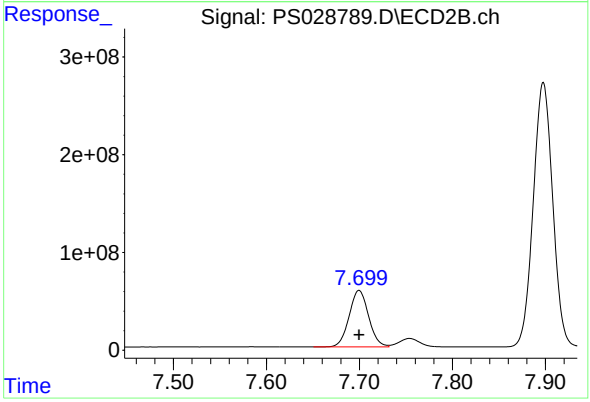
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 559532310
Conc: 682.50 ng/ml



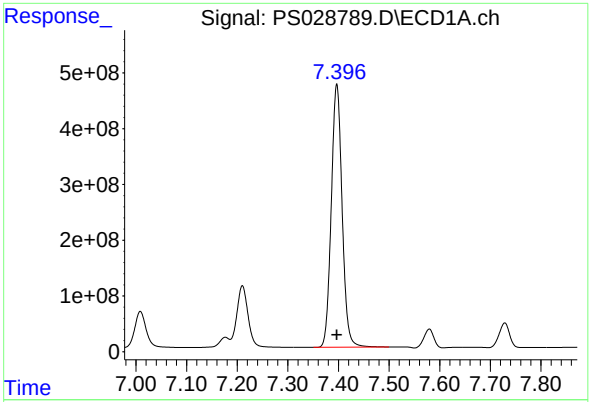
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1691026527
Conc: 750.00 ng/ml



#4 2,4-DCAA

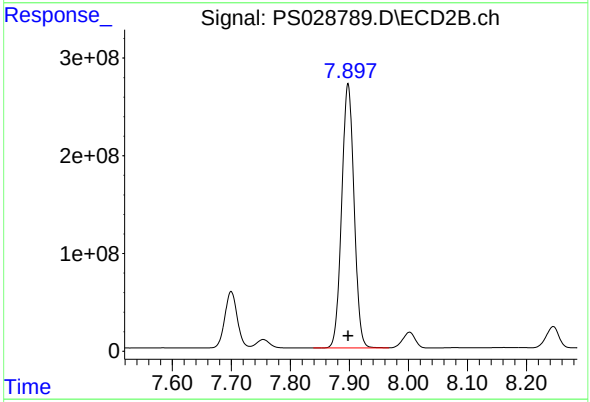
R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 842430336
Conc: 750.00 ng/ml



#5 DICAMBA

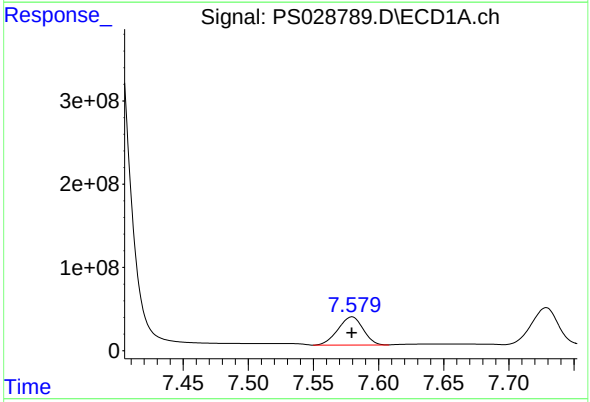
R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 7011922706
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



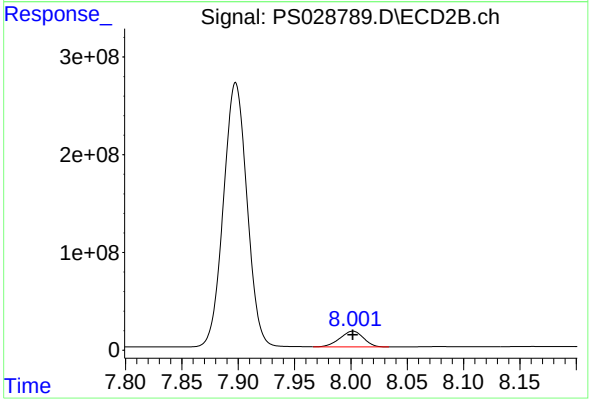
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3936433556
Conc: 705.00 ng/ml



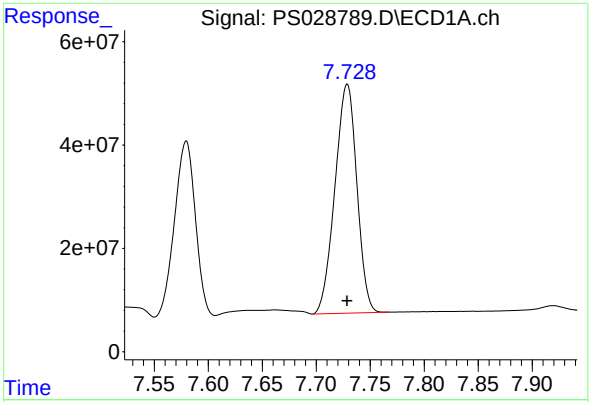
#6 MCPP

R.T.: 7.579 min
Delta R.T.: 0.000 min
Response: 454999618
Conc: 70.50 ug/ml



#6 MCPP

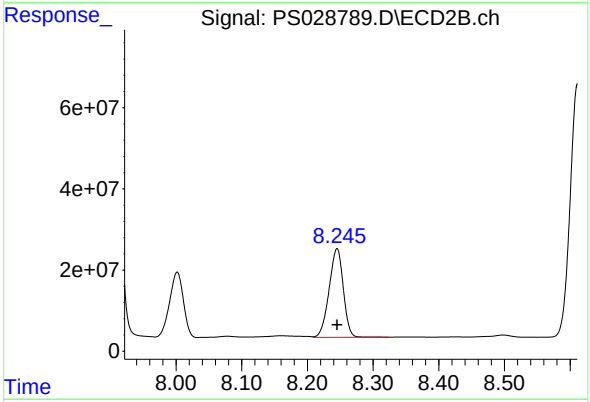
R.T.: 8.002 min
Delta R.T.: 0.000 min
Response: 235166572
Conc: 70.50 ug/ml



#7 MCPA

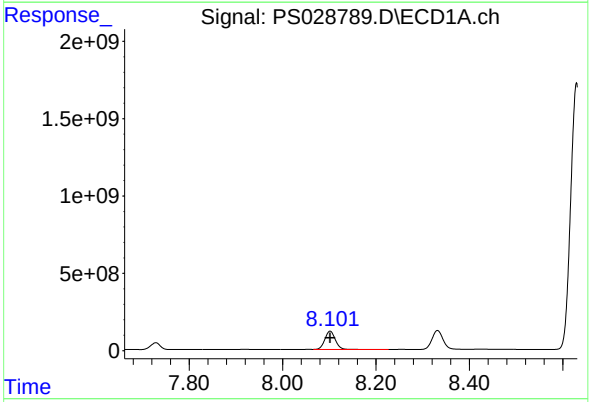
R.T.: 7.729 min
Delta R.T.: 0.000 min
Response: 625598808
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



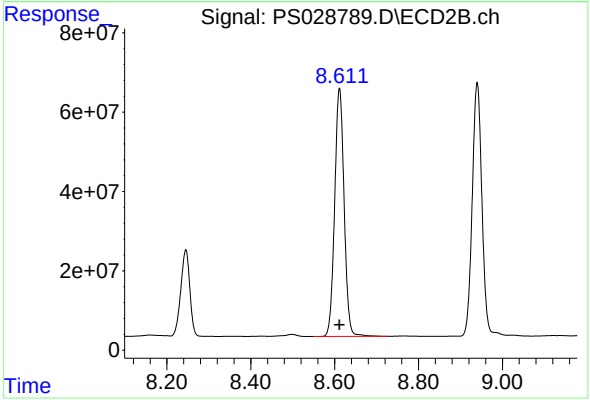
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.000 min
Response: 327396163
Conc: 69.75 ug/ml



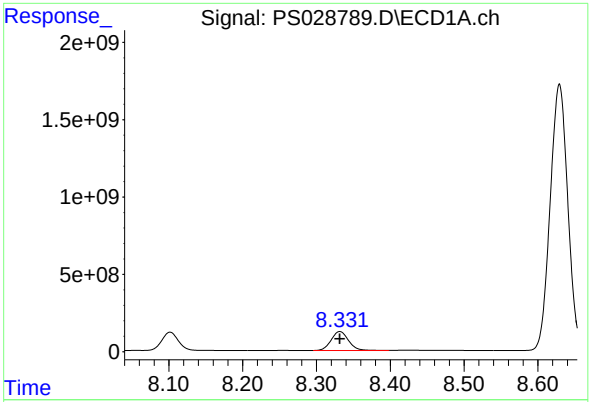
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 1852766267
Conc: 705.00 ng/ml



#8 DICHLORPROP

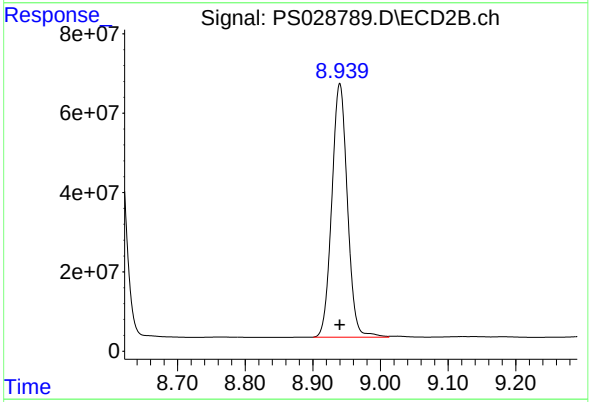
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 978869433
Conc: 705.00 ng/ml



#9 2,4-D

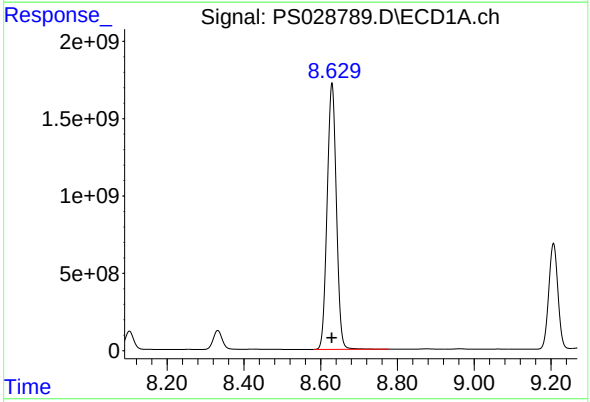
R.T.: 8.332 min
Delta R.T.: 0.000 min
Response: 2003909814
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



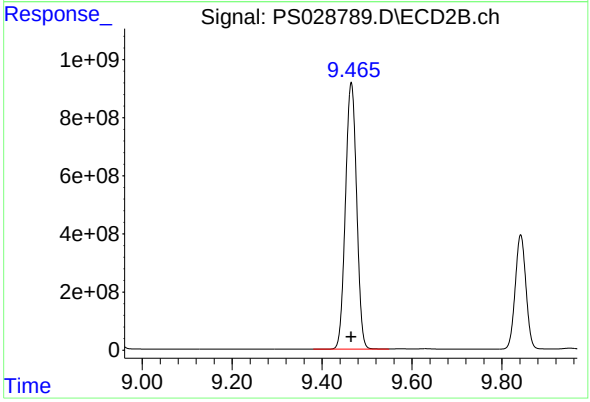
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1024218782
Conc: 705.00 ng/ml



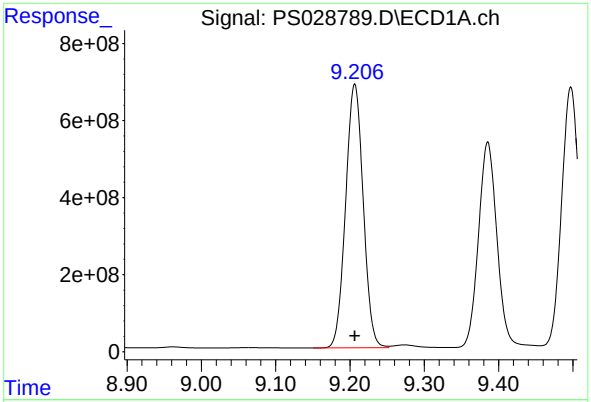
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 28730925166
Conc: 712.50 ng/ml



#10 Pentachlorophenol

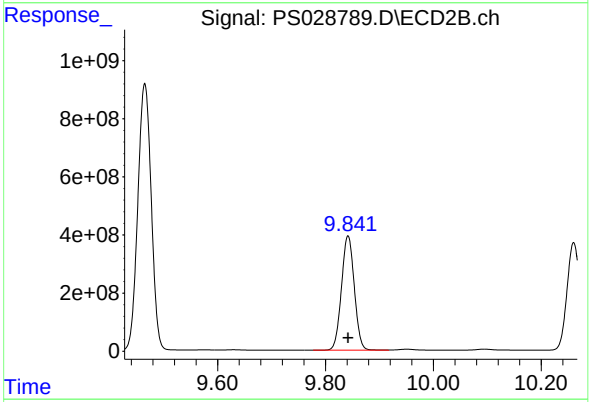
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15836075707
Conc: 712.50 ng/ml



#11 2,4,5-TP (SILVEX)

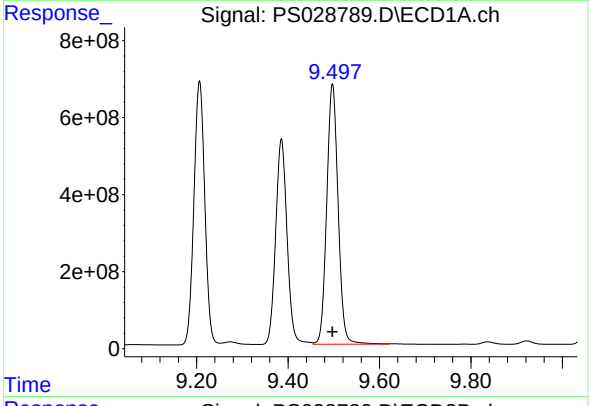
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 11258465941
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



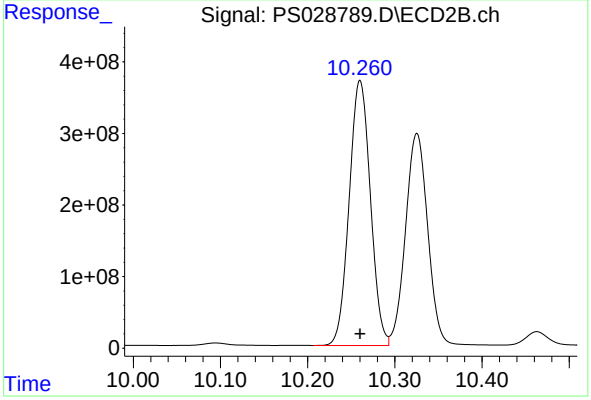
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6490757412
Conc: 712.50 ng/ml



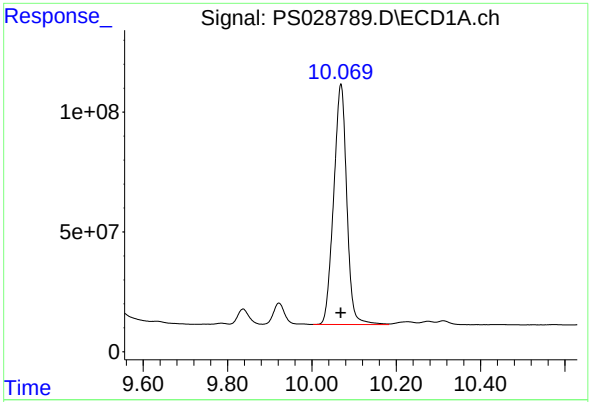
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 11647661713
Conc: 712.50 ng/ml



#12 2,4,5-T

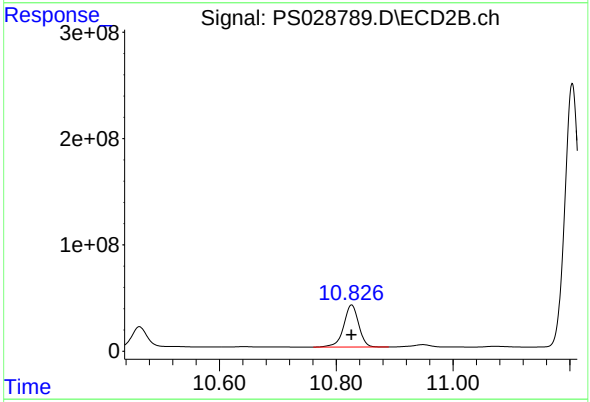
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6266023592
Conc: 712.50 ng/ml



#13 2,4-DB

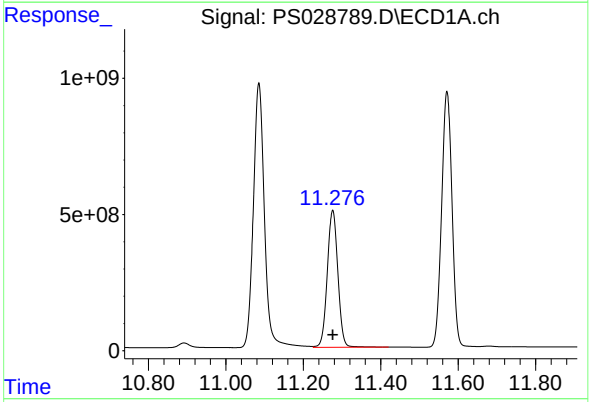
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2161070472
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



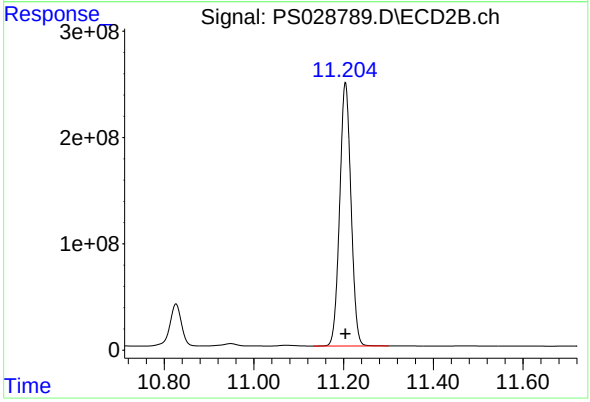
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 705569948
Conc: 712.50 ng/ml



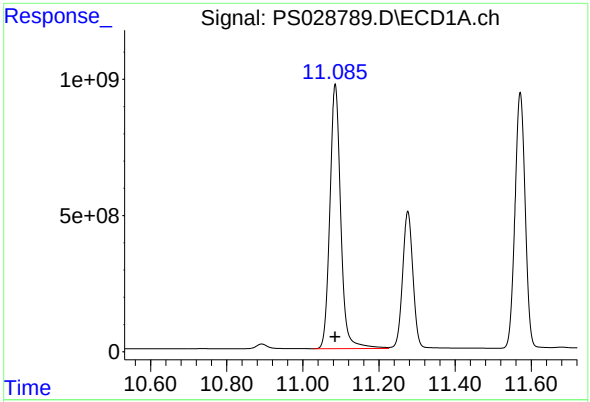
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 9500799958
Conc: 705.00 ng/ml



#14 DINOSEB

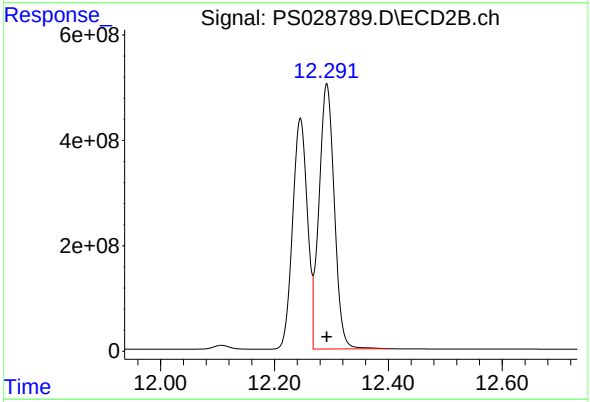
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4334922840
Conc: 705.00 ng/ml



#15 Picloram

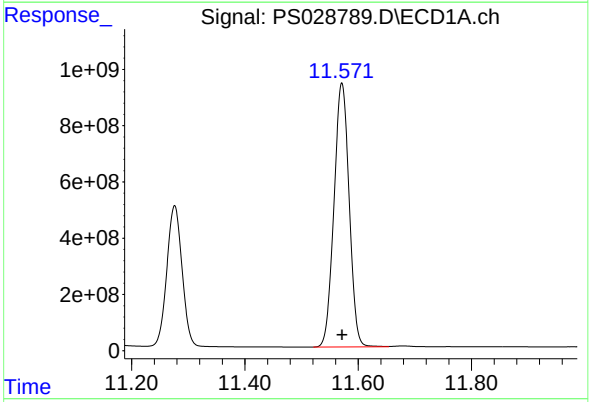
R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 19296433932
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



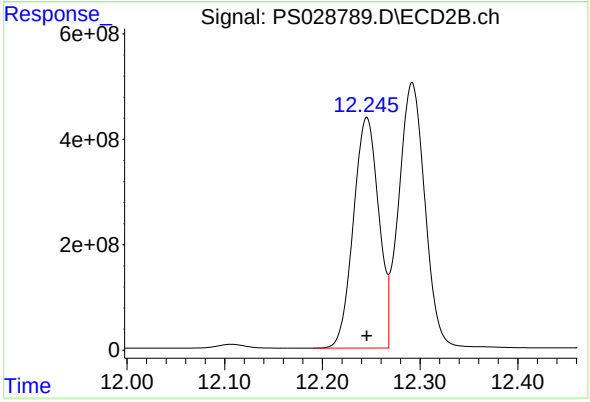
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9378150390
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 17447708328
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7888172996
Conc: 720.00 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.700	2149.7E6	1104.1E6	994.267m	998.684
	Target Compounds						
1) T	Dalapon	2.620	2.675	2590.1E6	1784.2E6	908.696	909.276
2) T	3,5-DICHL...	6.385	6.660	2970.3E6	1521.1E6	932.245	932.254
3) T	4-Nitroph...	7.008	7.228	1335.0E6	747.4E6	912.099	916.441
5) T	DICAMBA	7.397	7.898	9168.9E6	5233.4E6	942.217	940.257
6) T	MCPP	7.581	8.004	613.6E6	312.6E6	93.266	93.797
7) T	MCPA	7.731	8.247	836.7E6	431.0E6	92.726	92.759
8) T	DICHLORPROP	8.102	8.611	2407.7E6	1281.5E6	943.767	937.998
9) T	2,4-D	8.331	8.940	2561.8E6	1344.1E6	936.700	939.288
10) T	Pentachlo...	8.629	9.465	36738.0E6	20389.3E6	996.145	954.348
11) T	2,4,5-TP ...	9.206	9.842	14533.1E6	8474.0E6	953.244	951.557
12) T	2,4,5-T	9.497	10.260	14990.1E6	8190.7E6	954.258	952.545
13) T	2,4-DB	10.069	10.826	2816.6E6	933.2E6	949.832	946.746
14) T	DINOSEB	11.276	11.204	12260.6E6	5663.4E6	942.779	940.845
15) T	Picloram	11.085	12.292	25059.4E6	12444.4E6	951.841	952.255
16) T	DCPA	11.570	12.245	22401.4E6	10328.8E6	964.963	963.806

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

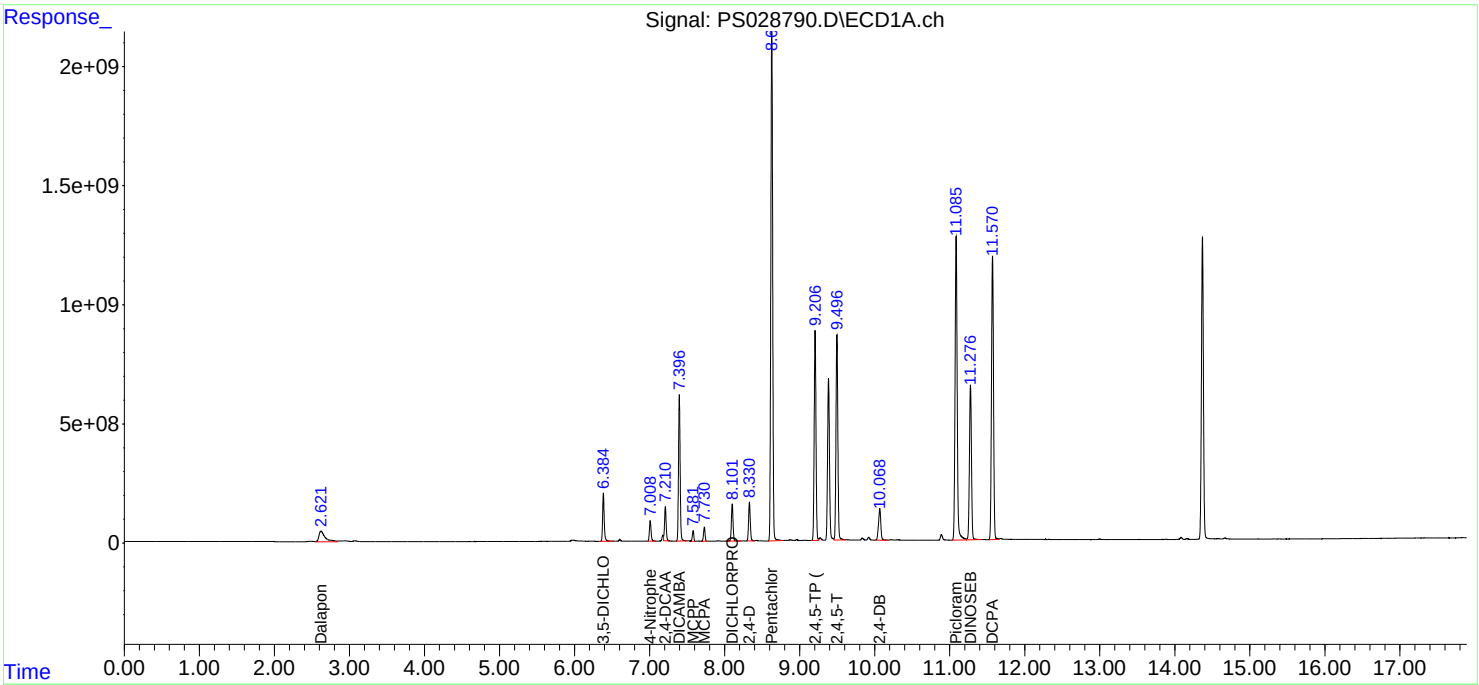
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

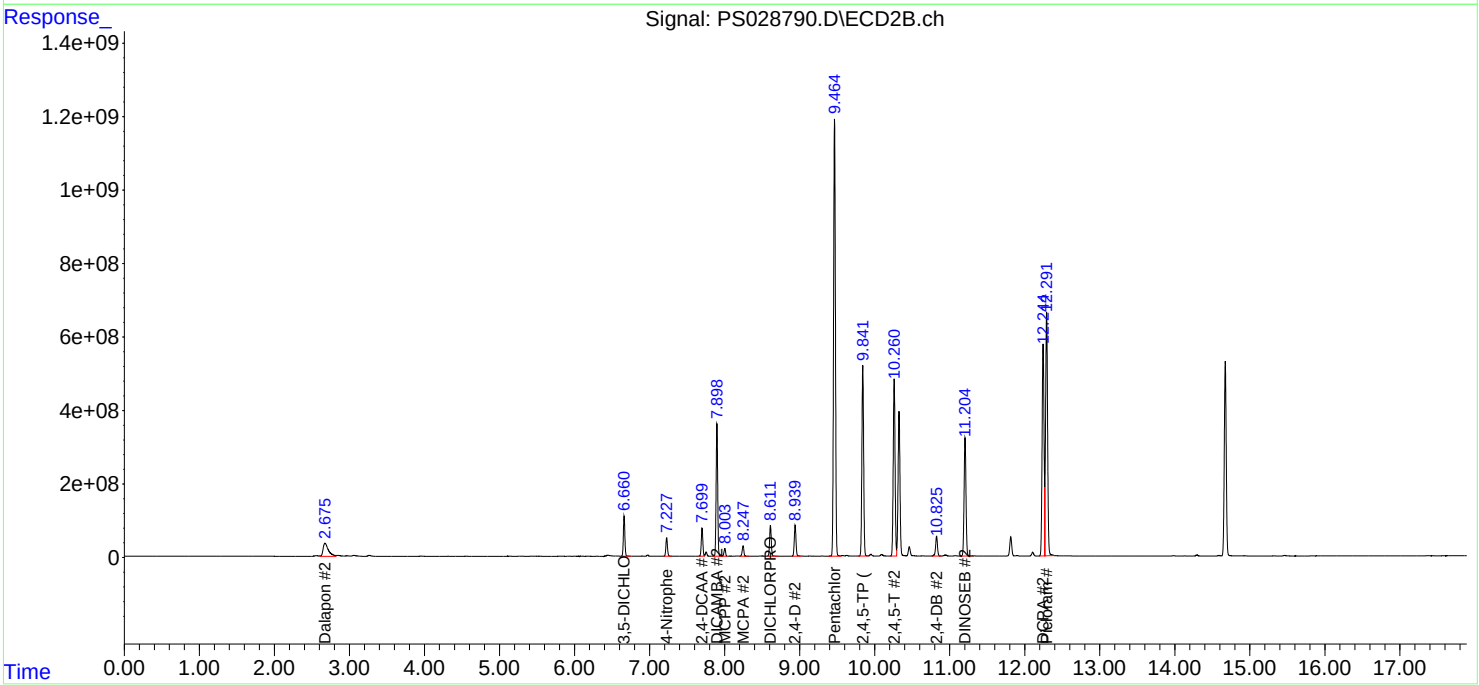
Manual Integrations APPROVED

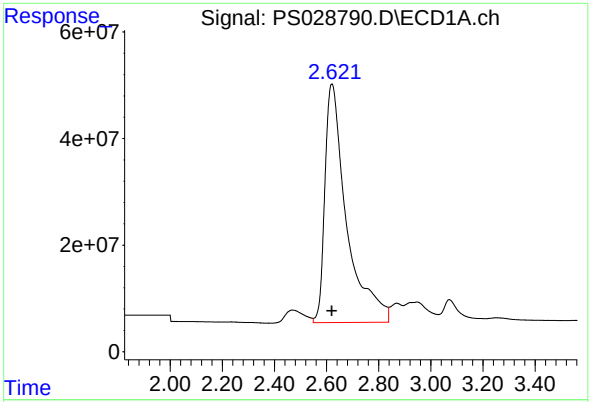
Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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







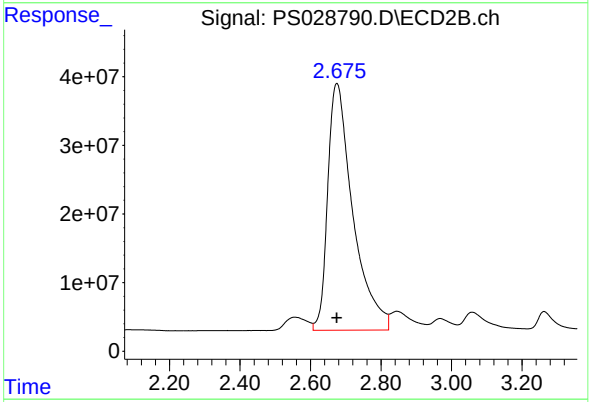
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2590128401
Conc: 908.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

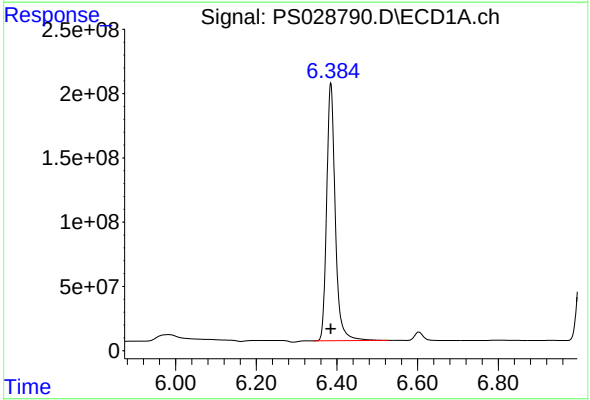
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



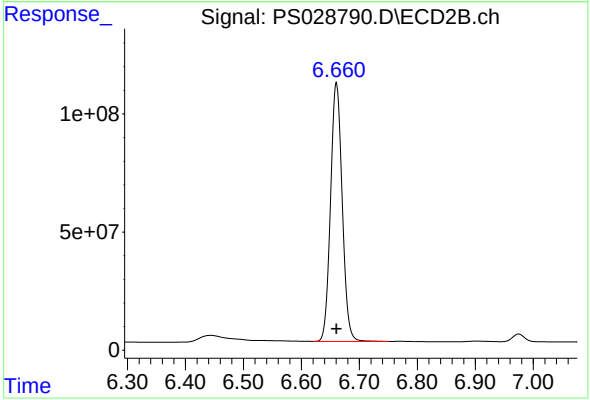
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 1784237725
Conc: 909.28 ng/ml



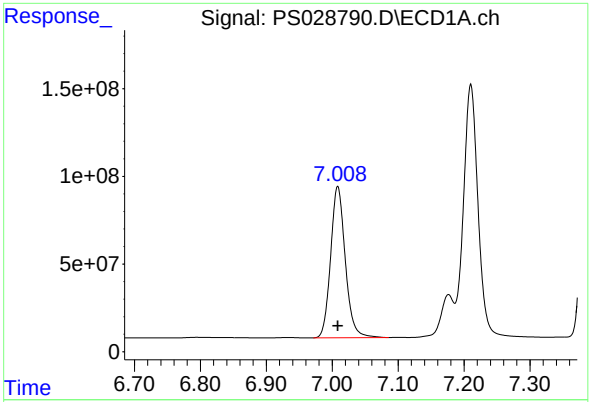
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2970251089
Conc: 932.25 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1521097294
Conc: 932.25 ng/ml



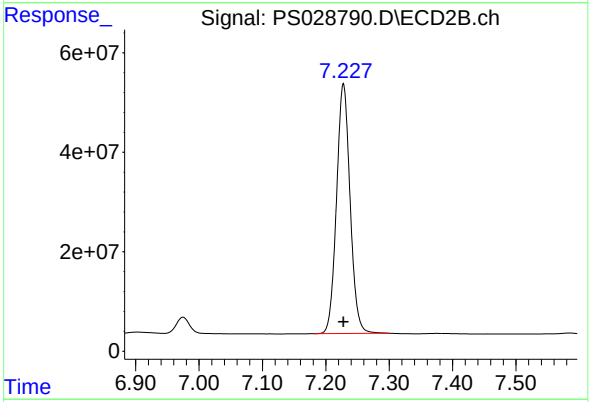
#3 4-Nitrophenol

R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1335023608
Conc: 912.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

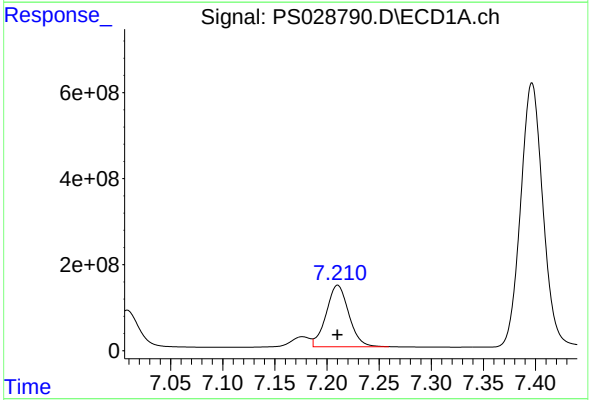
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



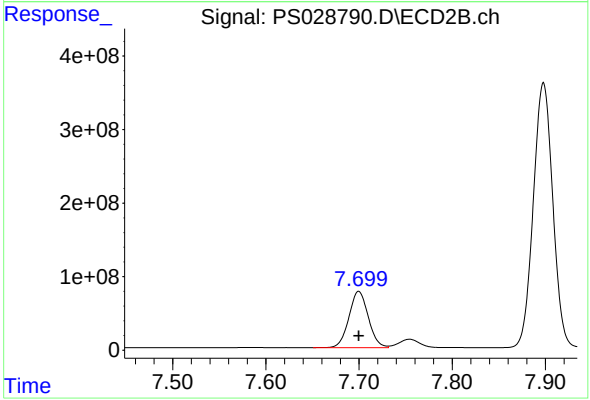
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 747396809
Conc: 916.44 ng/ml



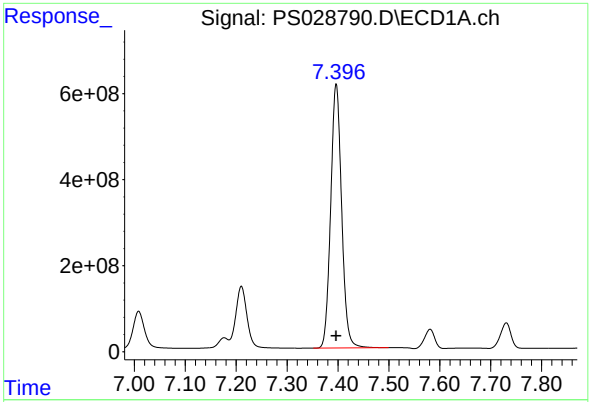
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 2149749343
Conc: 994.27 ng/ml m



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1104094634
Conc: 998.68 ng/ml



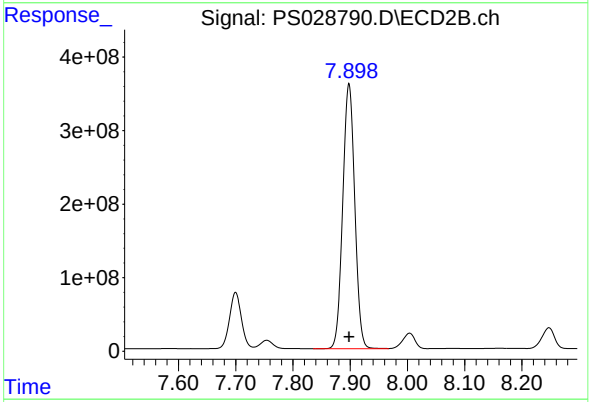
#5 DICAMBA

R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 9168915637
Conc: 942.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

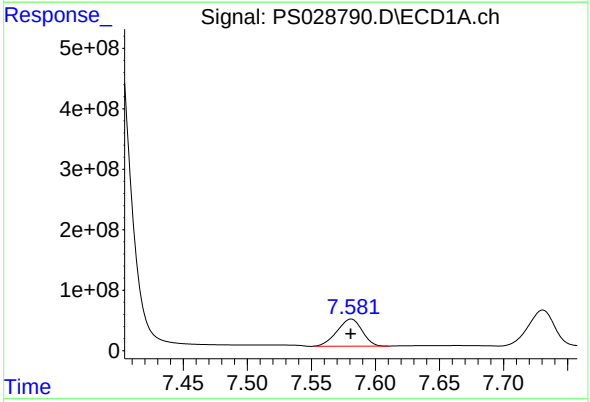
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



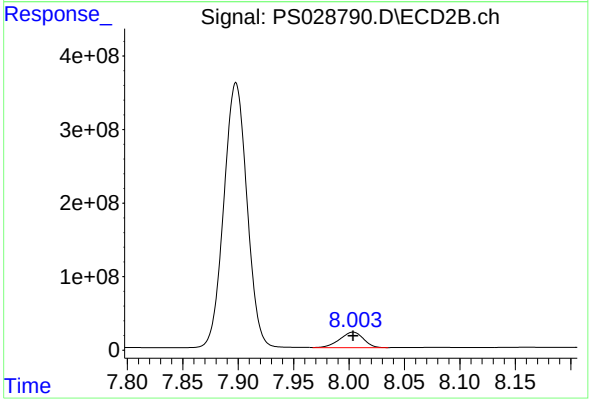
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 5233373016
Conc: 940.26 ng/ml



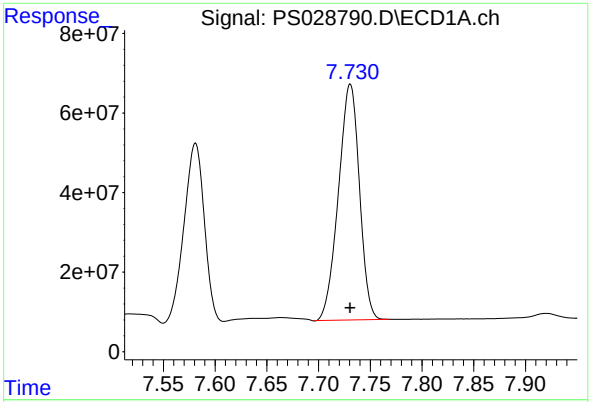
#6 MCPP

R.T.: 7.581 min
Delta R.T.: 0.000 min
Response: 613570466
Conc: 93.27 ug/ml



#6 MCPP

R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 312584461
Conc: 93.80 ug/ml



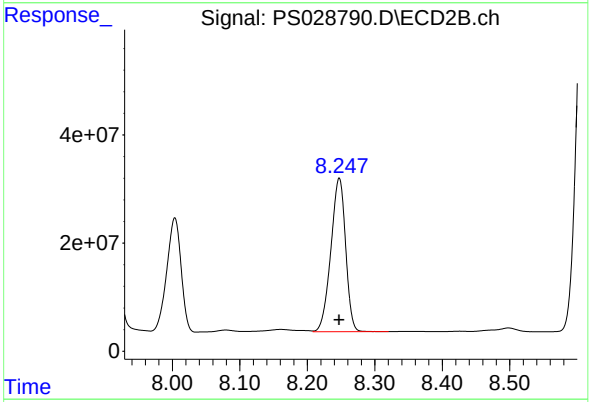
#7 MCPA

R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 836729639
Conc: 92.73 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

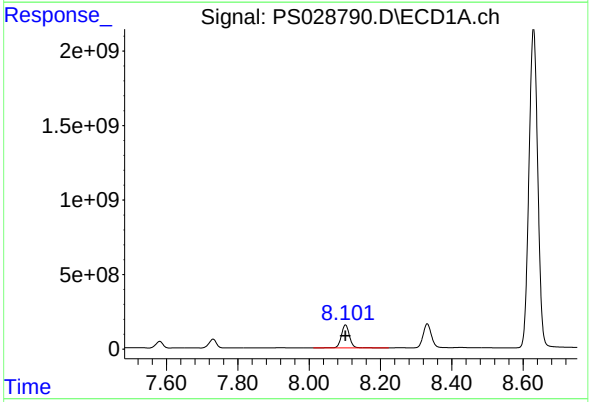
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



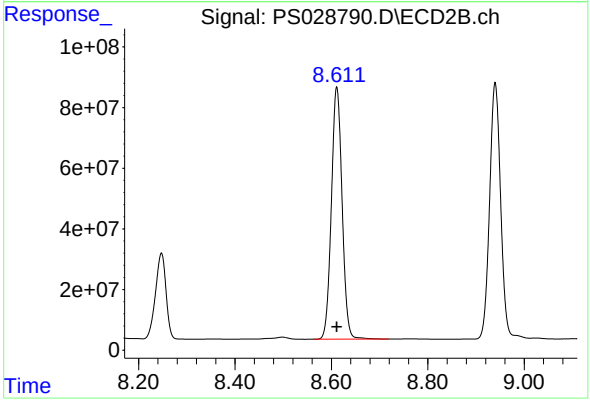
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.000 min
Response: 431033829
Conc: 92.76 ug/ml



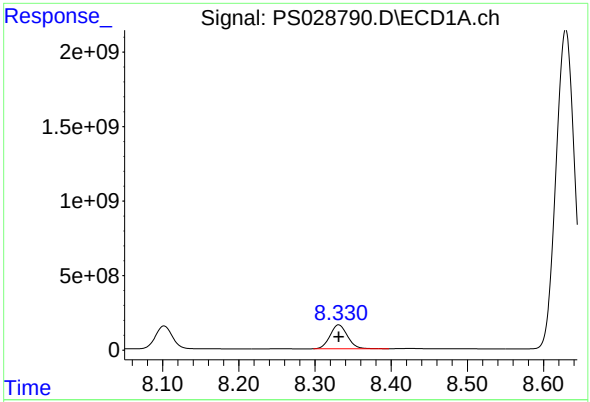
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 2407731346
Conc: 943.77 ng/ml



#8 DICHLORPROP

R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 1281467502
Conc: 938.00 ng/ml



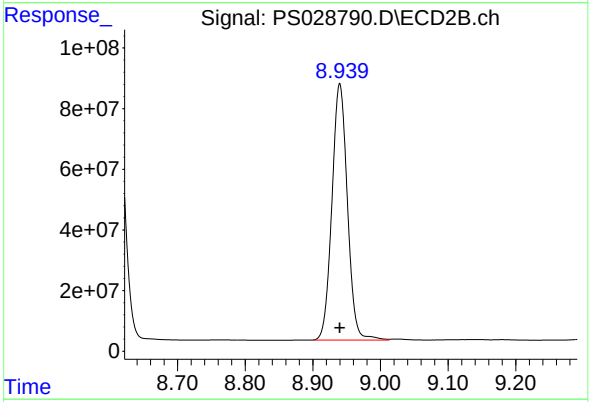
#9 2,4-D

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2561822082
Conc: 936.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

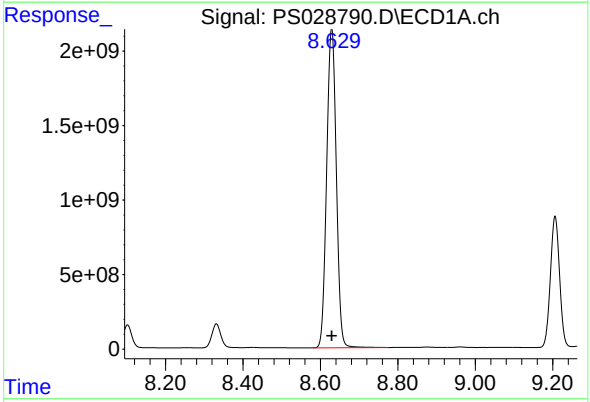
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



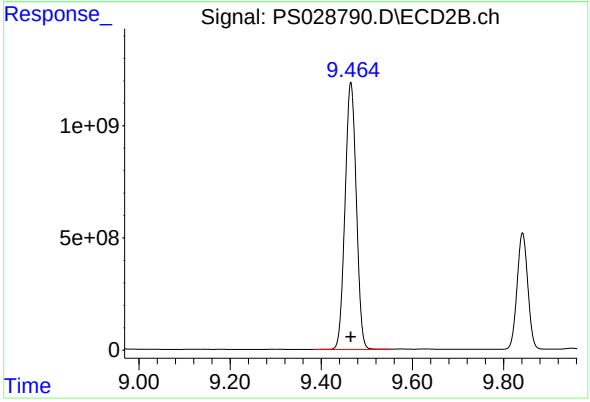
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1344098924
Conc: 939.29 ng/ml



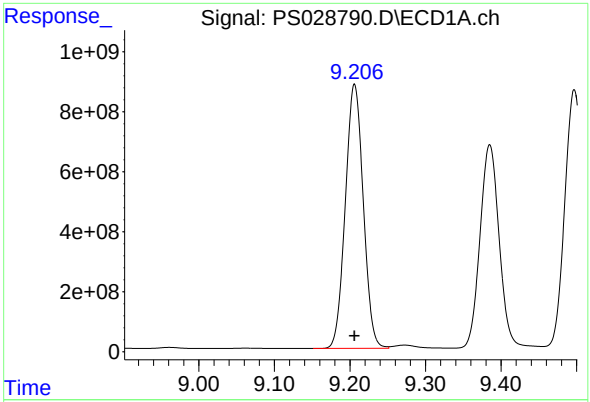
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 36737981703
Conc: 996.15 ng/ml



#10 Pentachlorophenol

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 20389309944
Conc: 954.35 ng/ml



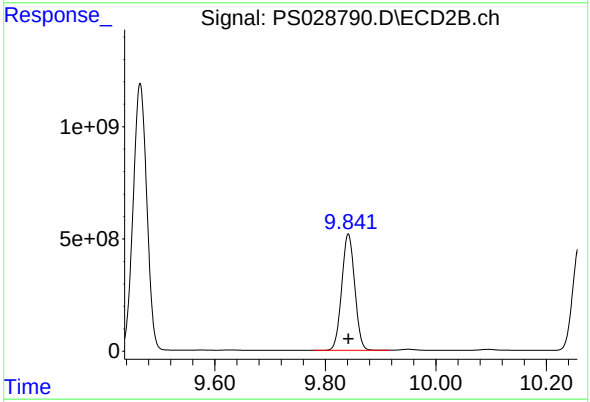
#11 2,4,5-TP (SILVEX)

R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 14533086349
Conc: 953.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

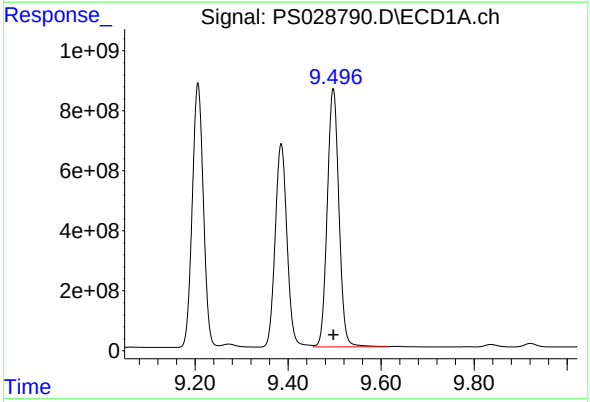
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



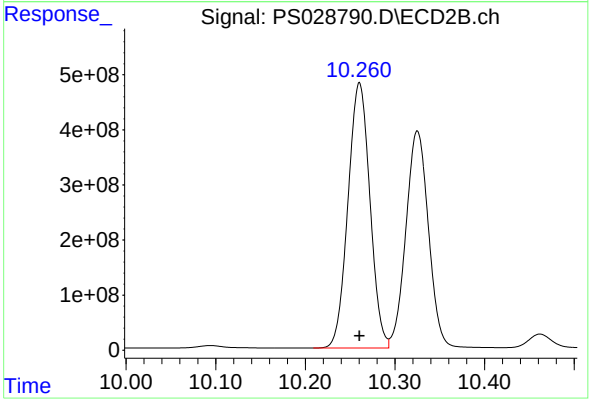
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 8474047803
Conc: 951.56 ng/ml



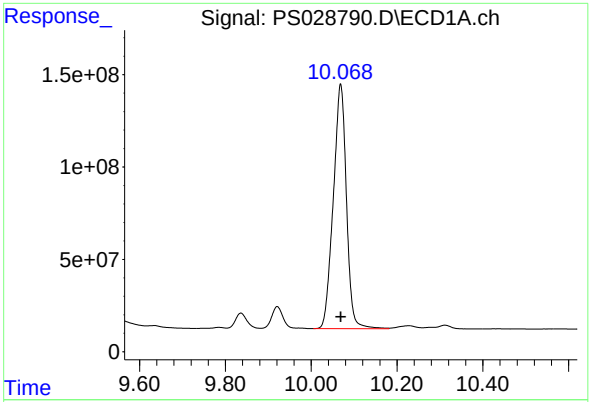
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 14990081895
Conc: 954.26 ng/ml



#12 2,4,5-T

R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 8190674112
Conc: 952.55 ng/ml



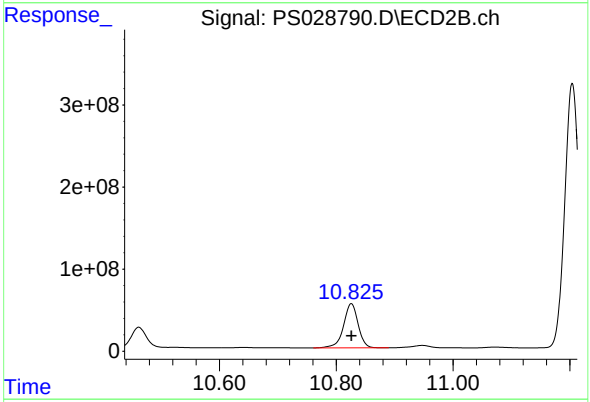
#13 2,4-DB

R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2816645135
Conc: 949.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

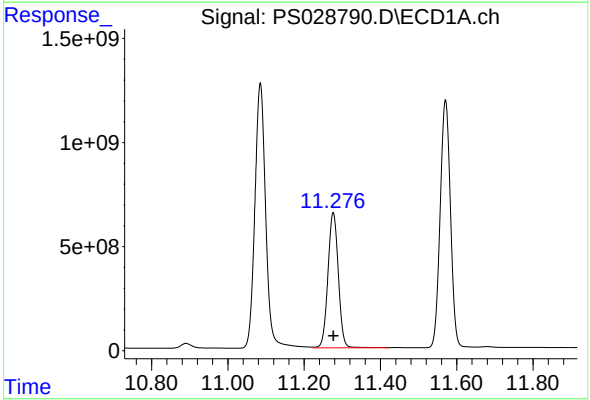
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



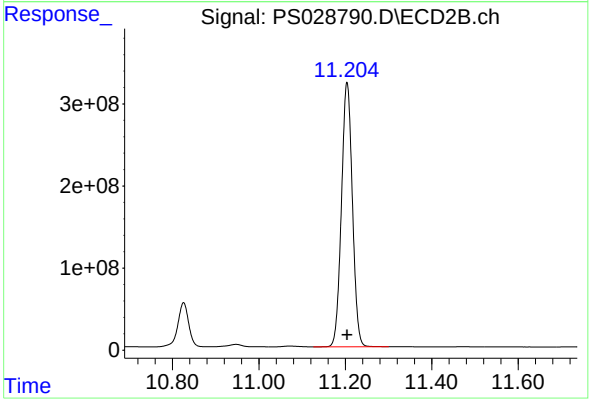
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 933183960
Conc: 946.75 ng/ml



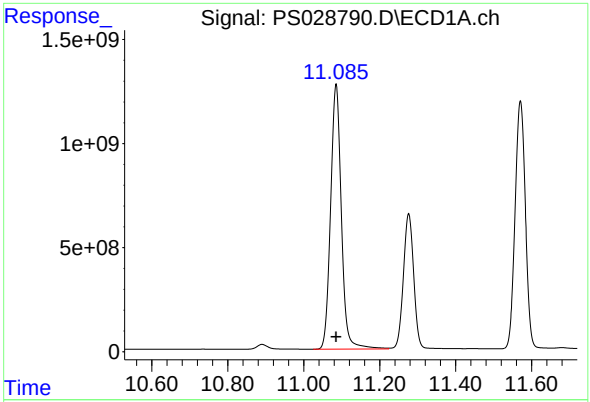
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 12260566434
Conc: 942.78 ng/ml



#14 DINOSEB

R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 5663401402
Conc: 940.85 ng/ml



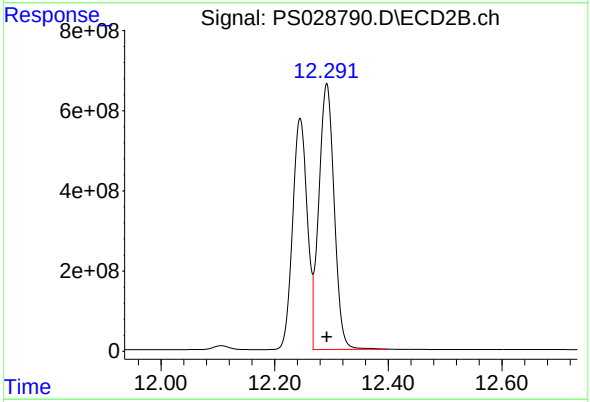
#15 Picloram

R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 25059396827
Conc: 951.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

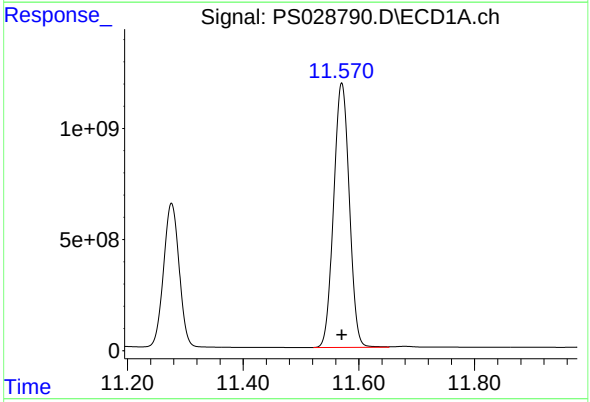
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/26/2024
Supervised By :Ankita Jodhani 12/27/2024



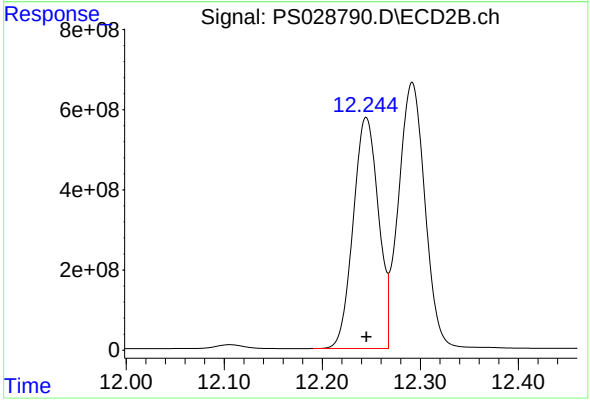
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 12444414253
Conc: 952.26 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 22401440664
Conc: 964.96 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 10328797190
Conc: 963.81 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028791.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:59
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: Dec 23 13:37:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.700	3159.0E6	1634.0E6	1448.854	1477.000
		Target Compounds						
1)	T	Dalapon	2.620	2.674	3901.5E6	2660.4E6	1367.777	1355.258
2)	T	3,5-DICHL...	6.384	6.660	4307.4E6	2235.6E6	1353.554	1371.814
3)	T	4-Nitroph...	7.007	7.228	1975.5E6	1099.5E6	1351.202	1352.954
5)	T	DICAMBA	7.396	7.898	13385.8E6	7820.8E6	1377.179	1405.324
6)	T	MCPP	7.584	8.007	952.4E6	470.5E6	144.213	141.020
7)	T	MCPA	7.735	8.252	1270.1E6	643.3E6	140.546	138.269
8)	T	DICHLORPROP	8.102	8.612	3474.4E6	1899.0E6	1364.612	1388.514
9)	T	2,4-D	8.331	8.940	3718.3E6	1988.4E6	1357.155	1389.047
10)	T	Pentachlo...	8.631	9.465	45093.8E6	29077.7E6	1253.147	1364.143
11)	T	2,4,5-TP ...	9.206	9.842	20859.8E6	12378.2E6	1370.560	1391.100
12)	T	2,4,5-T	9.497	10.260	21373.9E6	11941.5E6	1363.706	1390.614
13)	T	2,4-DB	10.068	10.826	4130.0E6	1402.8E6	1392.613	1420.801
14)	T	DINOSEB	11.276	11.204	17617.5E6	8297.5E6	1356.705	1379.055
15)	T	Picloram	11.084	12.292	36367.3E6	18444.3E6	1382.691	1413.049
16)	T	DCPA	11.570	12.246	31790.5E6	15026.5E6	1372.953	1404.946

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

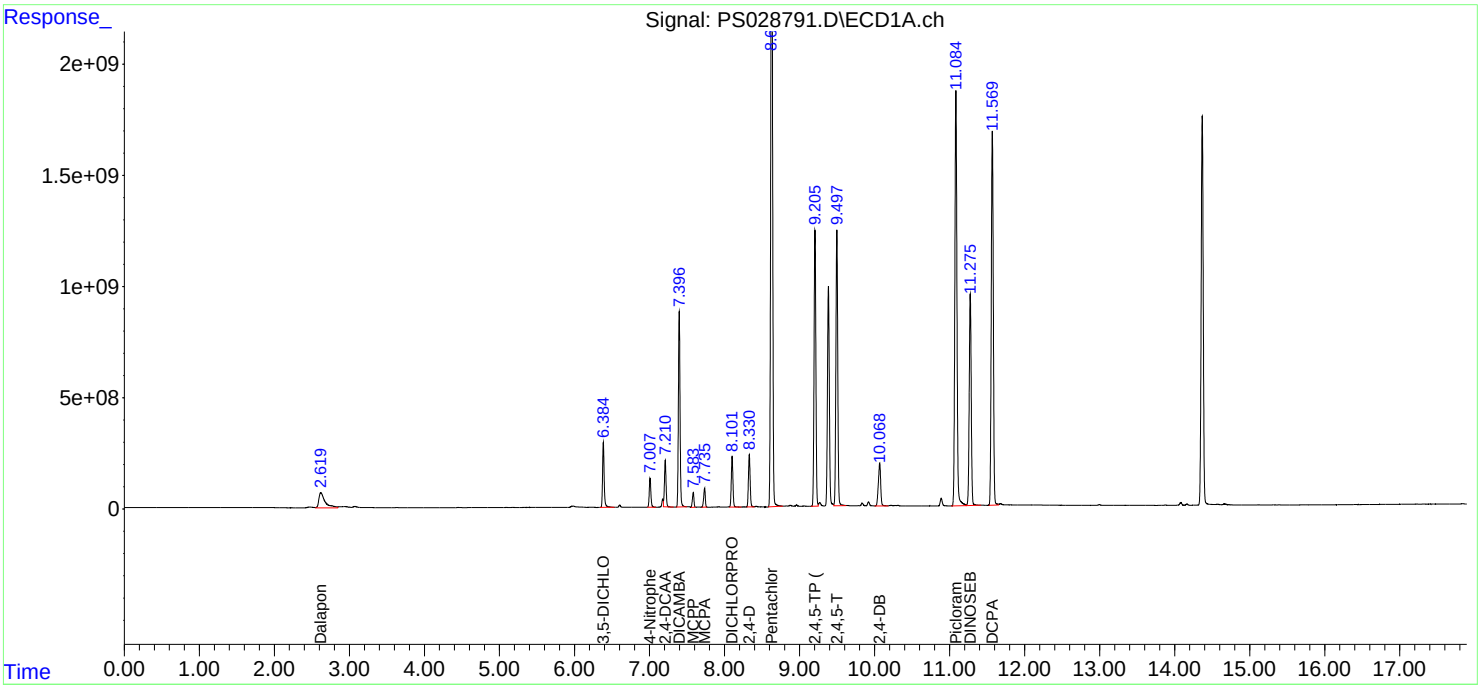
ICAL Form

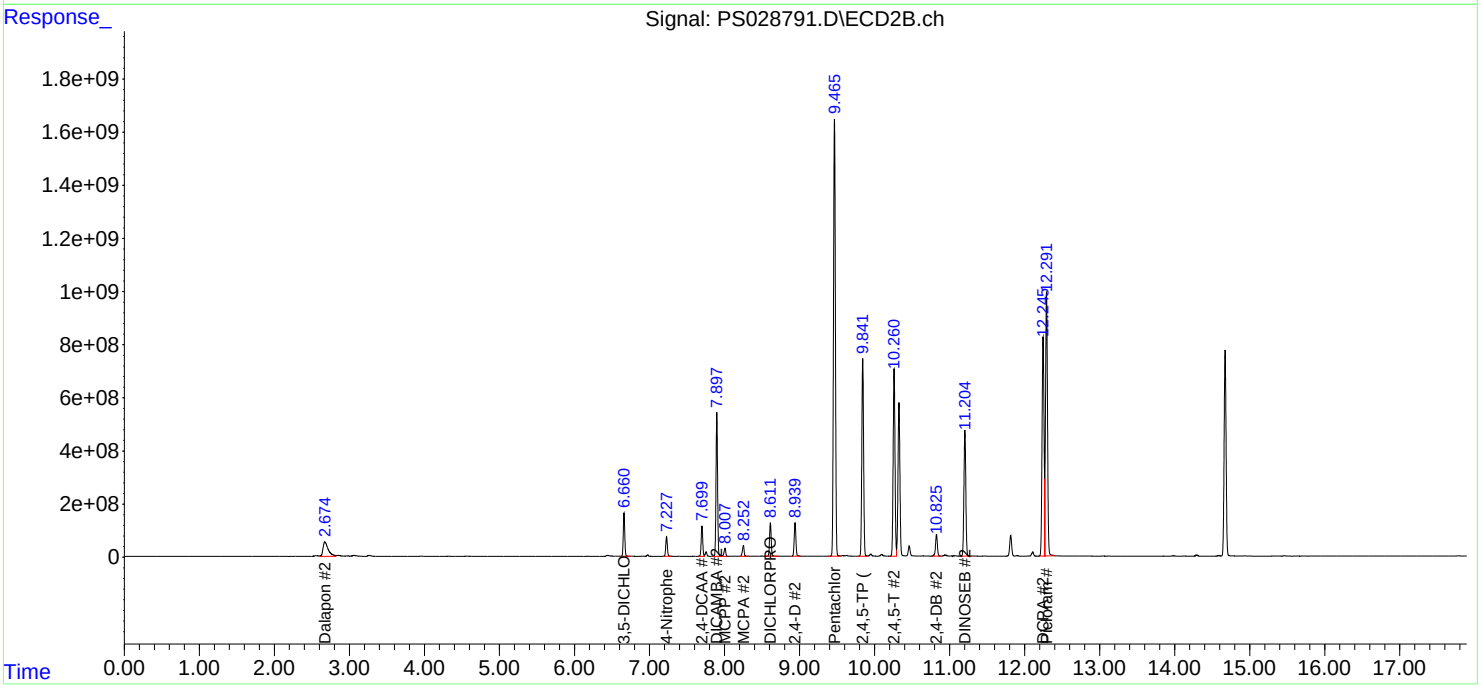
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028791.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:59
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

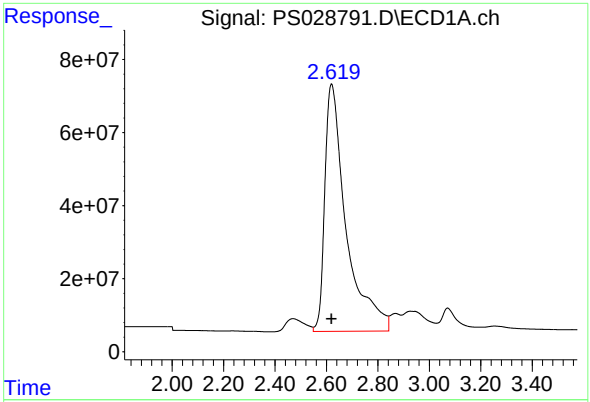
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:37:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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



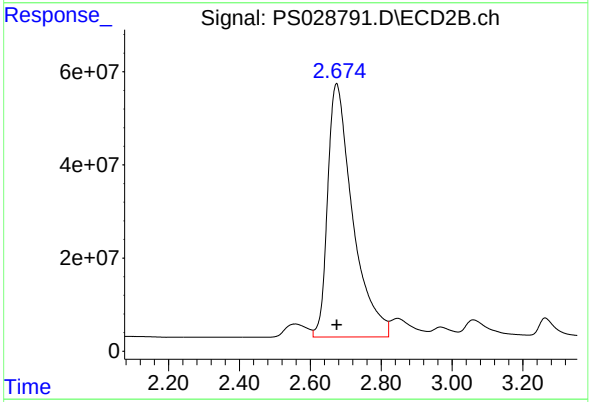




#1 Dalapon

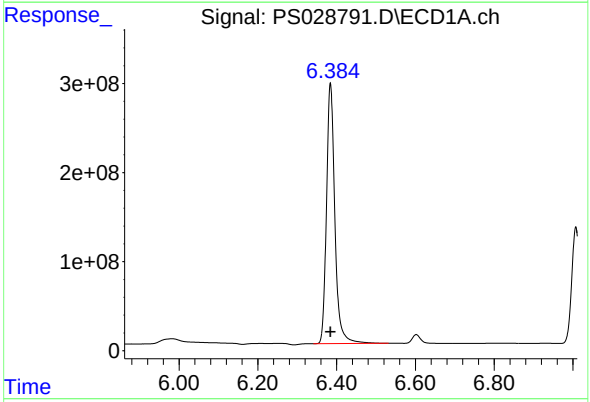
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 3901479879
Conc: 1367.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



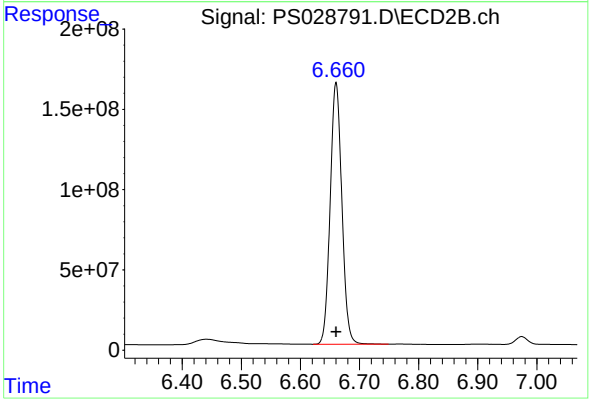
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 2660428203
Conc: 1355.26 ng/ml



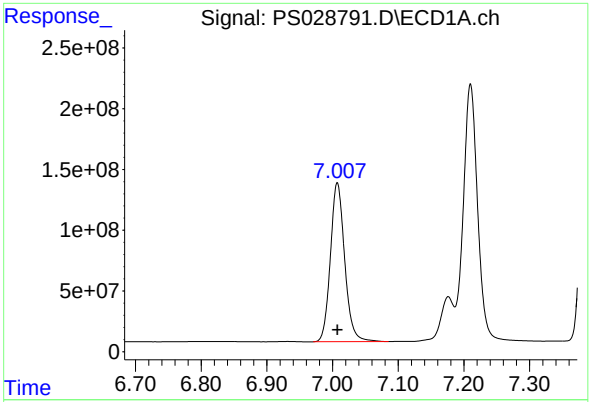
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 4307385267
Conc: 1353.55 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

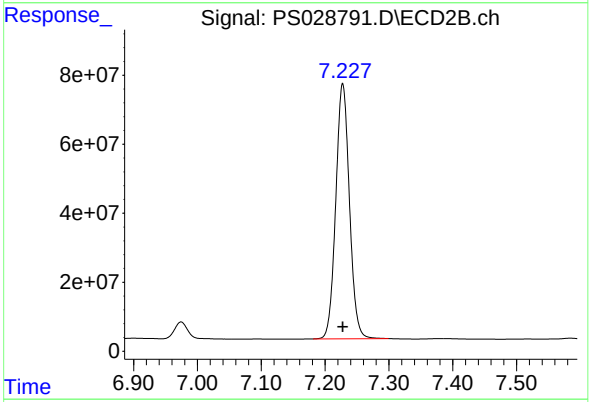
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 2235587156
Conc: 1371.81 ng/ml



#3 4-Nitrophenol

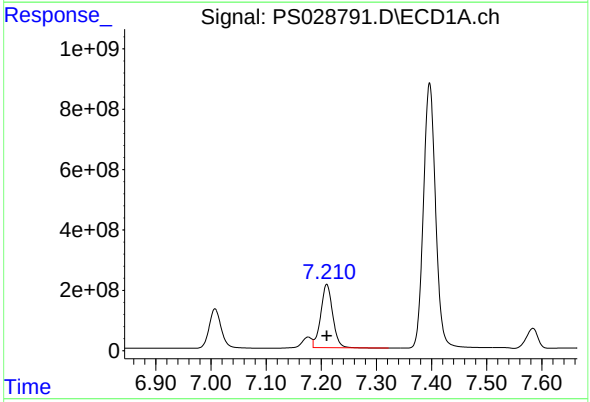
R.T.: 7.007 min
Delta R.T.: 0.000 min
Response: 1975450118
Conc: 1351.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



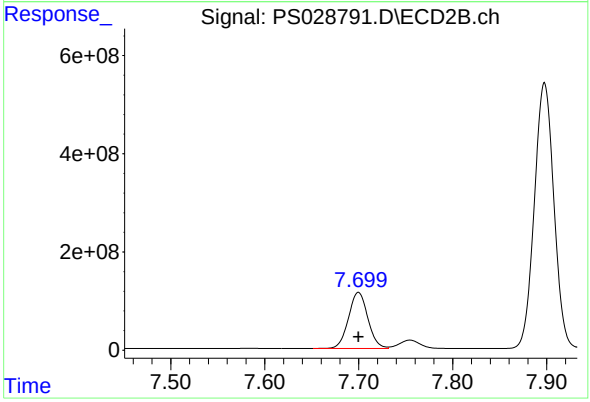
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 1099486307
Conc: 1352.95 ng/ml



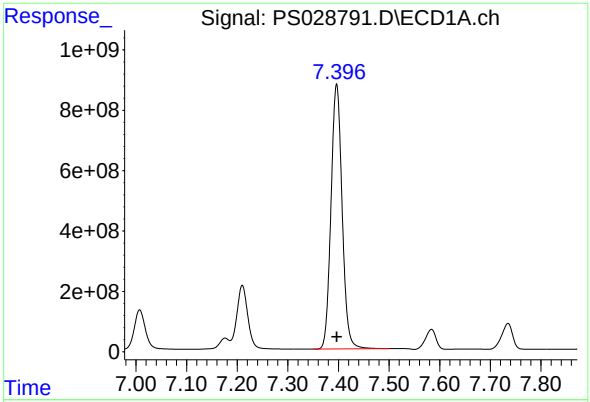
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 3159021002
Conc: 1448.85 ng/ml



#4 2,4-DCAA

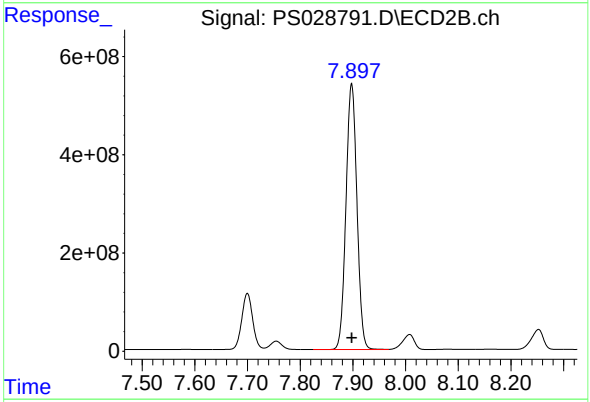
R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1633970858
Conc: 1477.00 ng/ml



#5 DICAMBA

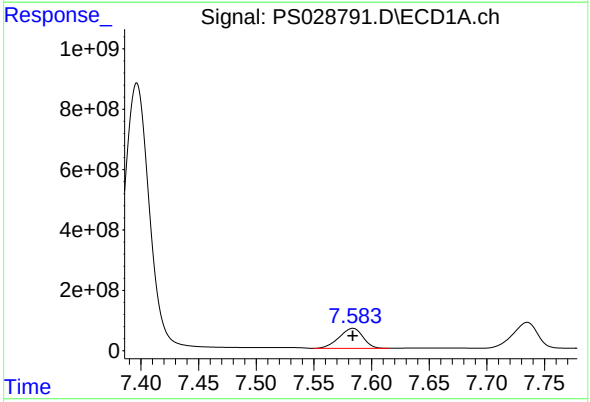
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 13385828858
Conc: 1377.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



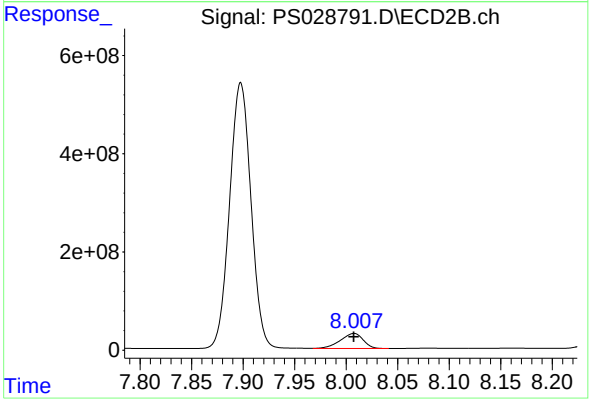
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 7820821741
Conc: 1405.32 ng/ml



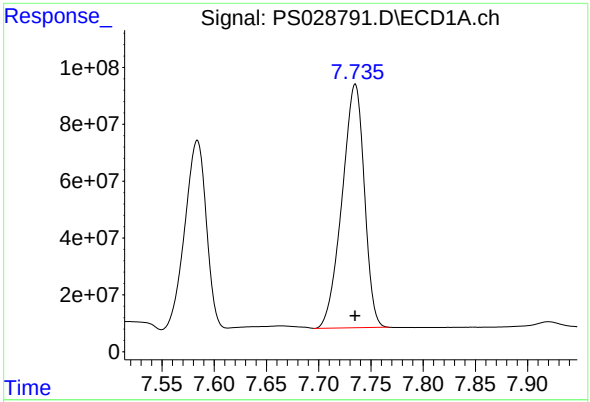
#6 MCPP

R.T.: 7.584 min
Delta R.T.: 0.000 min
Response: 952442567
Conc: 144.21 ug/ml



#6 MCPP

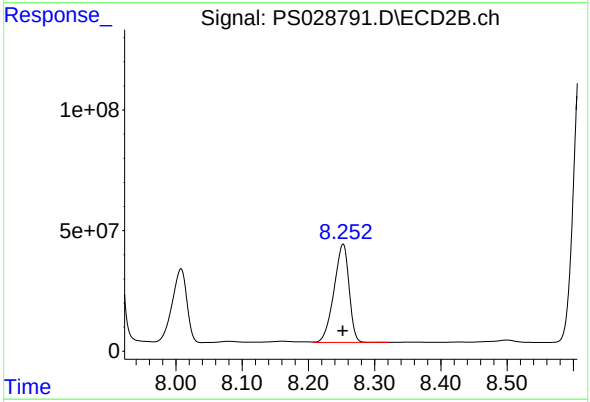
R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 470469621
Conc: 141.02 ug/ml



#7 MCPA

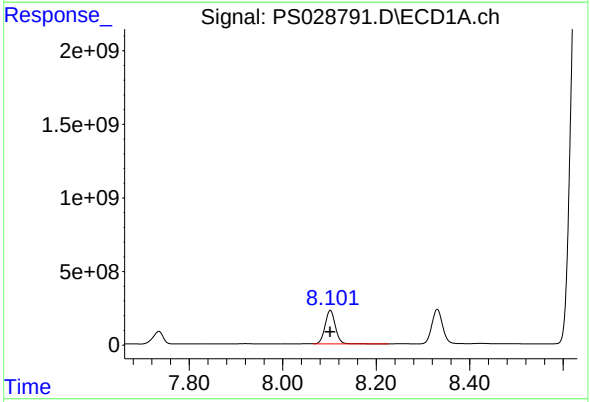
R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 1270107710
Conc: 140.55 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



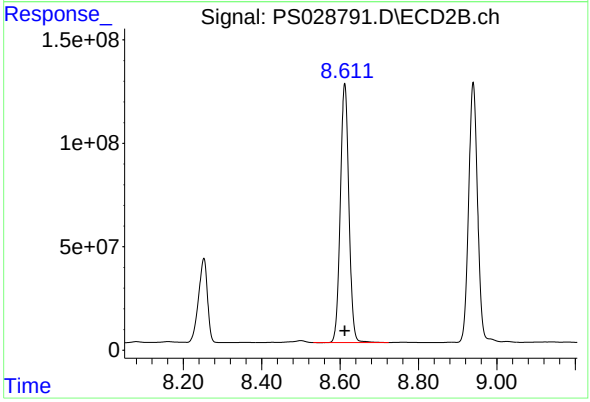
#7 MCPA

R.T.: 8.252 min
Delta R.T.: 0.000 min
Response: 643338244
Conc: 138.27 ug/ml



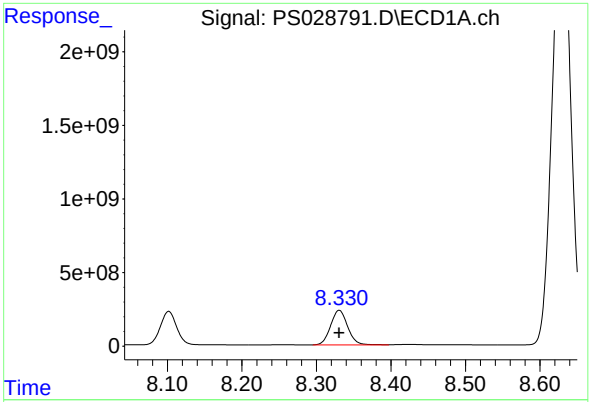
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 3474411488
Conc: 1364.61 ng/ml



#8 DICHLORPROP

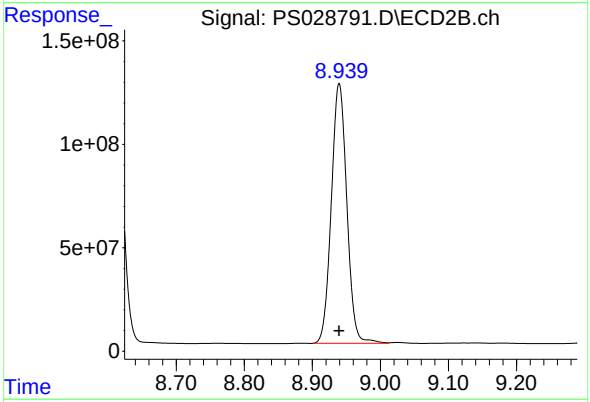
R.T.: 8.612 min
Delta R.T.: 0.000 min
Response: 1898968431
Conc: 1388.51 ng/ml



#9 2,4-D

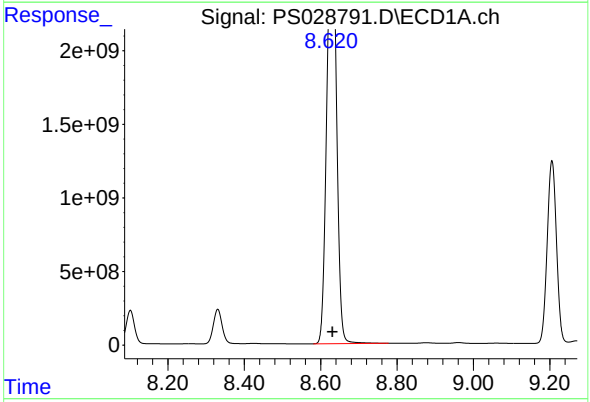
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 3718255839
Conc: 1357.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



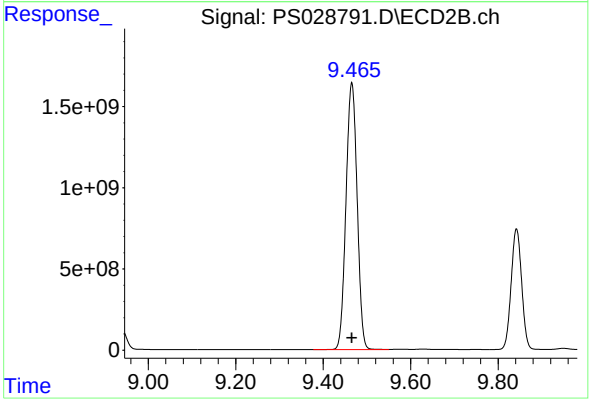
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1988447209
Conc: 1389.05 ng/ml



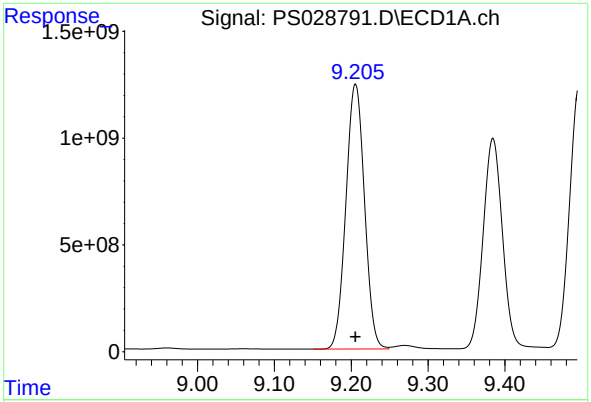
#10 Pentachlorophenol

R.T.: 8.631 min
Delta R.T.: 0.000 min
Response: 45093759991
Conc: 1253.15 ng/ml



#10 Pentachlorophenol

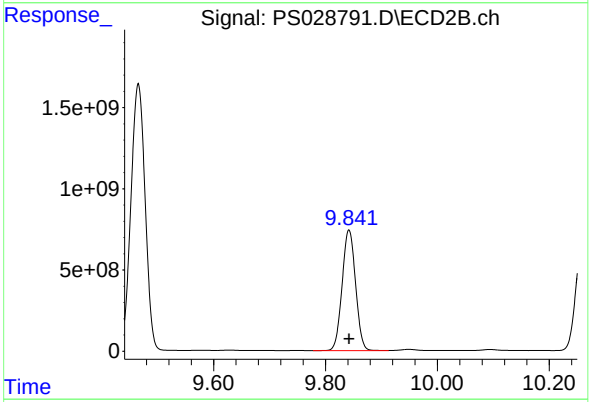
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 29077732626
Conc: 1364.14 ng/ml



#11 2,4,5-TP (SILVEX)

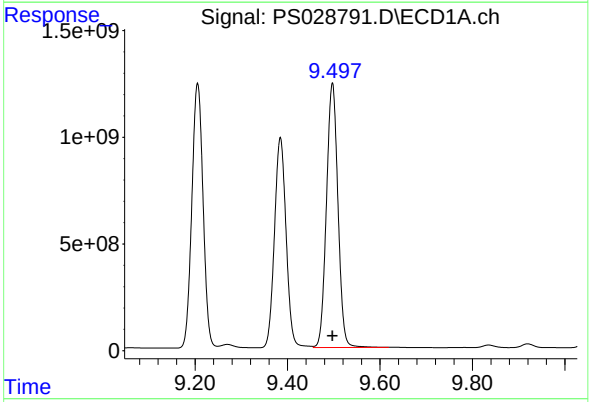
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 20859775932
Conc: 1370.56 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



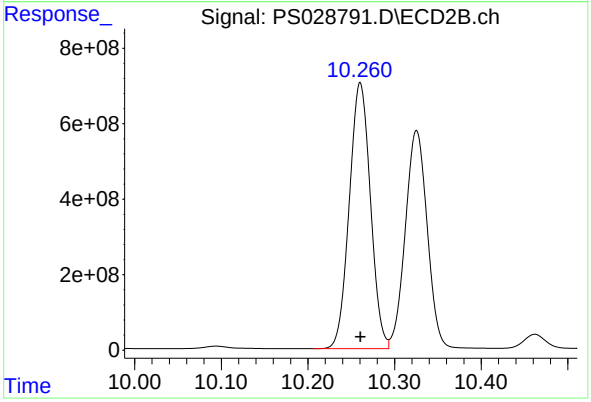
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 12378220785
Conc: 1391.10 ng/ml



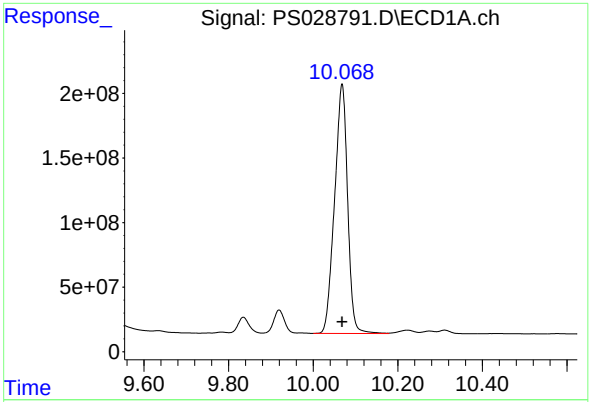
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 21373941933
Conc: 1363.71 ng/ml



#12 2,4,5-T

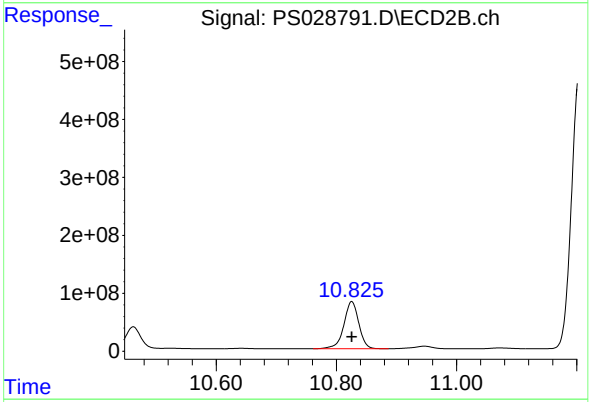
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 11941494906
Conc: 1390.61 ng/ml



#13 2,4-DB

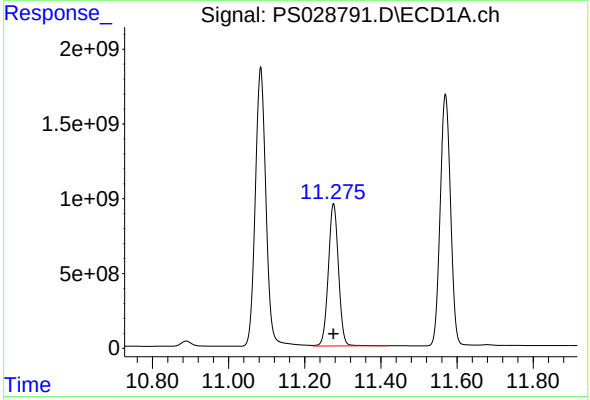
R.T.: 10.068 min
Delta R.T.: 0.000 min
Response: 4130041812
Conc: 1392.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



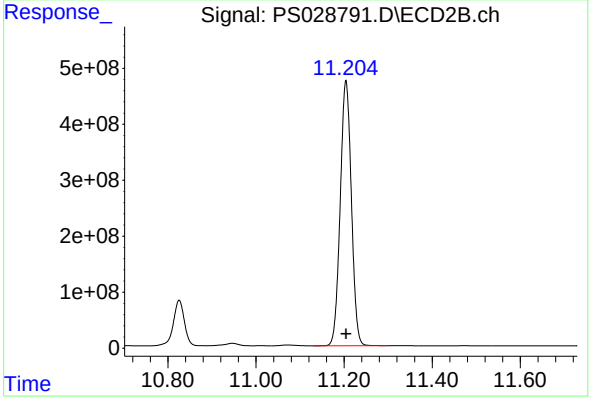
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 1402847422
Conc: 1420.80 ng/ml



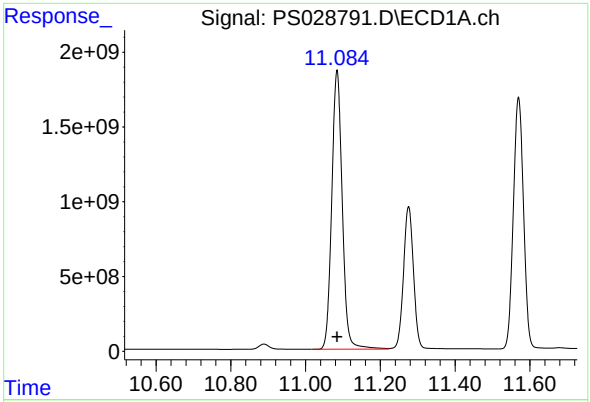
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 17617474887
Conc: 1356.70 ng/ml



#14 DINOSEB

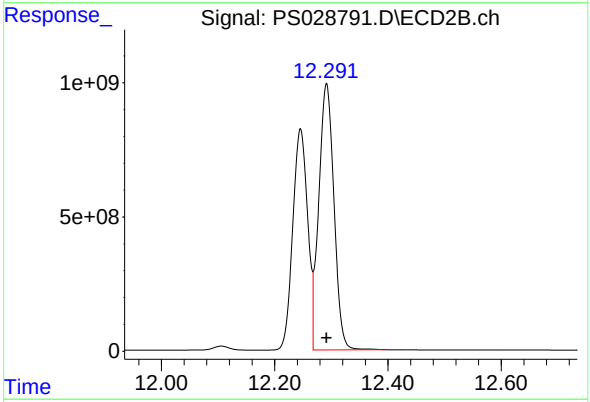
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 8297462357
Conc: 1379.05 ng/ml



#15 Picloram

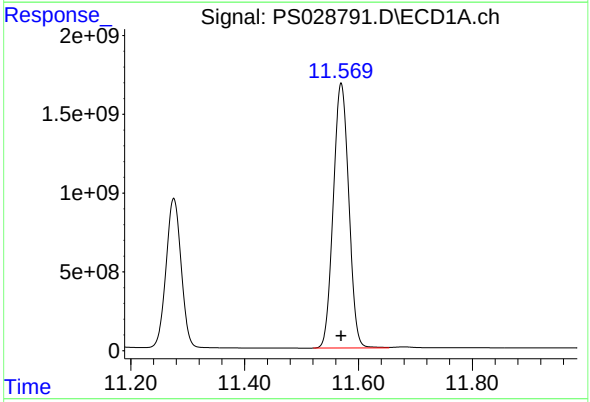
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 36367254236
Conc: 1382.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



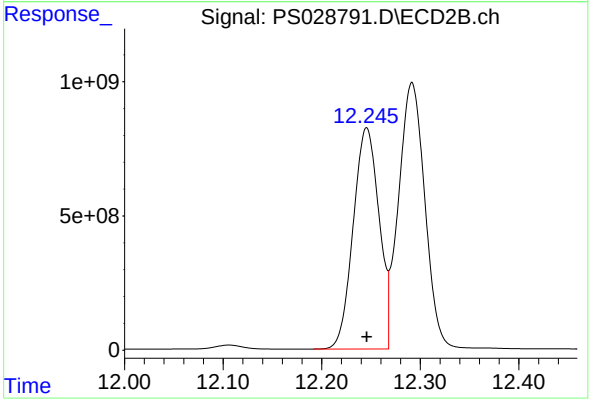
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 18444305786
Conc: 1413.05 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 31790485497
Conc: 1372.95 ng/ml



#16 DCPA

R.T.: 12.246 min
Delta R.T.: 0.000 min
Response: 15026504222
Conc: 1404.95 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.210	7.700	1706.7E6	828.1E6	754.480	735.781
		Target Compounds						
1)	T	Dalapon	2.621	2.675	1951.6E6	1334.4E6	692.891	677.823
2)	T	3,5-DICHL...	6.384	6.661	2305.9E6	1138.7E6	699.801	686.960
3)	T	4-Nitroph...	7.008	7.228	1016.0E6	552.1E6	676.411	659.739
5)	T	DICAMBA	7.396	7.898	7062.8E6	3866.4E6	716.261	704.282
6)	T	MCPP	7.579	8.002	456.2E6	231.9E6	73.254	70.975
7)	T	MCPA	7.728	8.245	623.7E6	321.9E6	71.155	69.485
8)	T	DICHLORPROP	8.101	8.611	1862.9E6	959.8E6	702.121	695.688
9)	T	2,4-D	8.331	8.940	2015.1E6	1009.2E6	707.185	699.281
10)	T	Pentachlo...	8.628	9.465	28881.2E6	15556.7E6	739.273	713.654
11)	T	2,4,5-TP ...	9.205	9.842	11329.0E6	6380.5E6	721.166	710.250
12)	T	2,4,5-T	9.496	10.260	11730.8E6	6163.7E6	721.046	707.724
13)	T	2,4-DB	10.067	10.825	2171.9E6	695.5E6	695.755	716.223
14)	T	DINOSEB	11.275	11.204	9517.2E6	4242.3E6	708.036	688.788
15)	T	Picloram	11.084	12.292	19317.9E6	9248.4E6	720.473	720.334
16)	T	DCPA	11.570	12.245	17485.9E6	7736.3E6	727.032	720.015

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

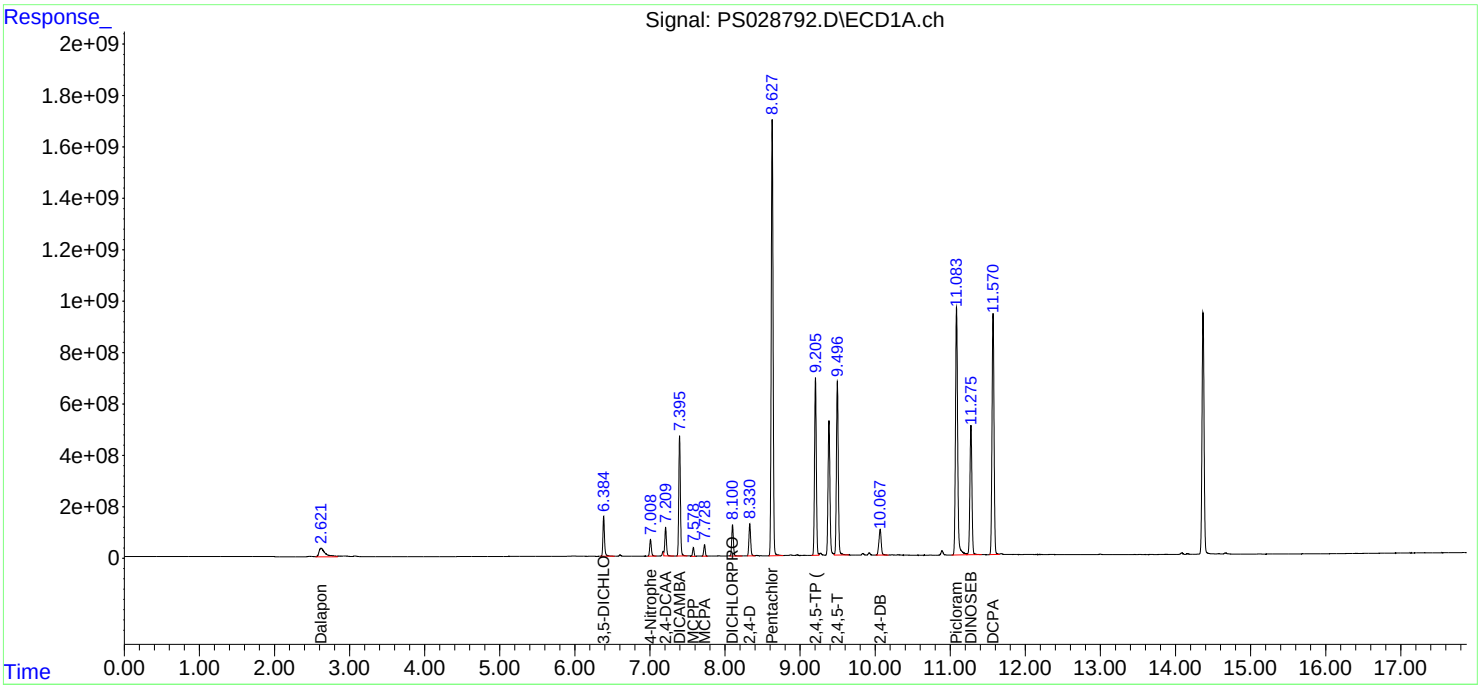
ICAL Form

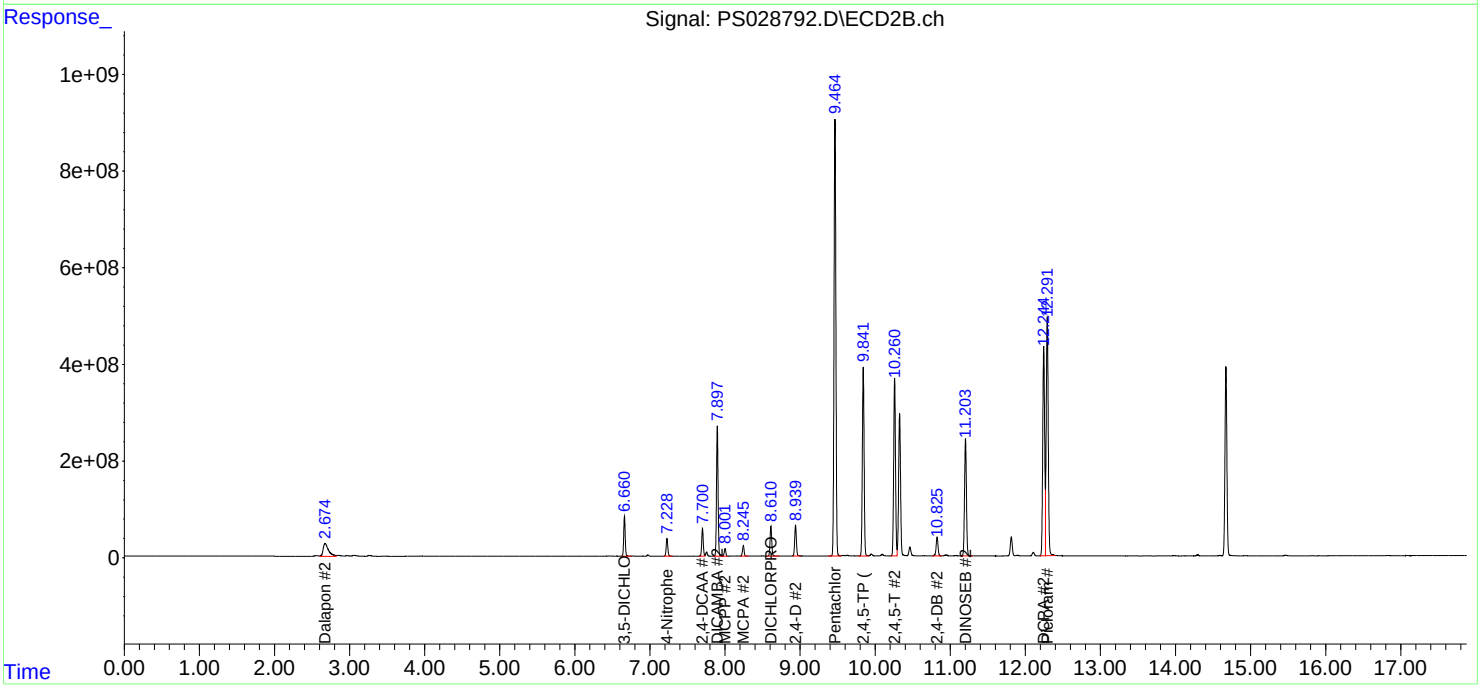
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028792.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 13:23
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

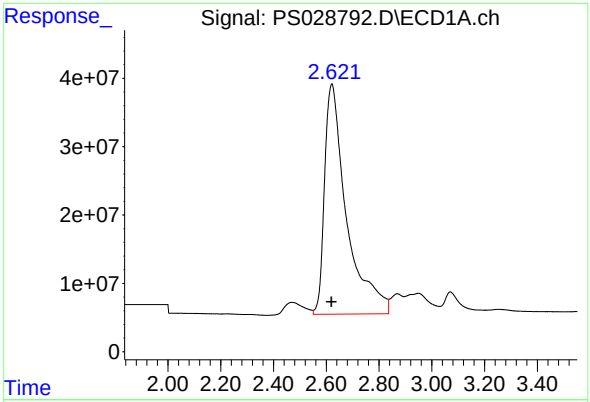
Instrument :
ECD_S
ClientSampleId :
ICVPS122324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



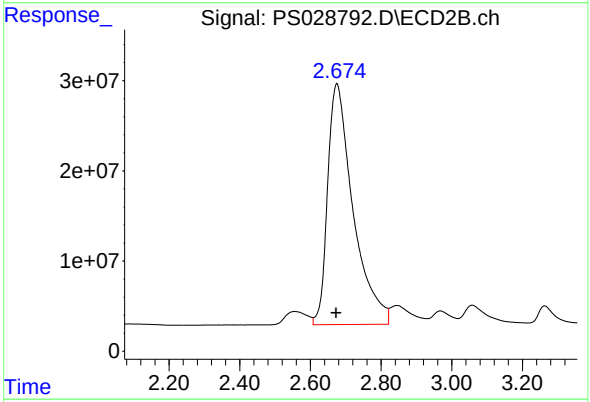




#1 Dalapon

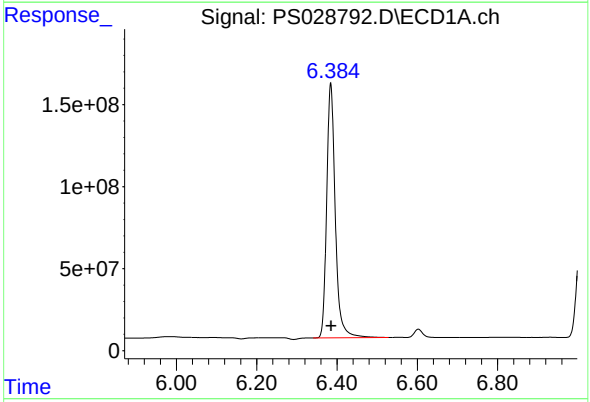
R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1951632139
Conc: 692.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



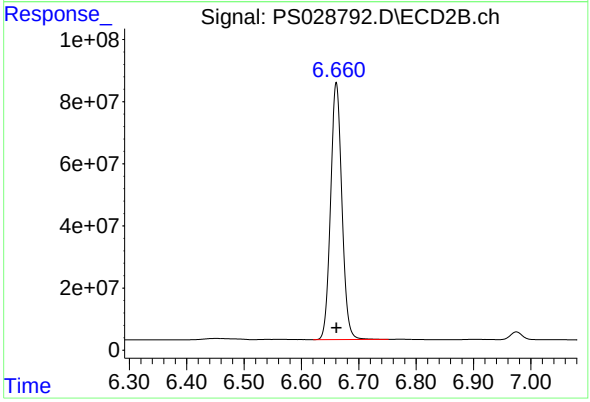
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1334364131
Conc: 677.82 ng/ml



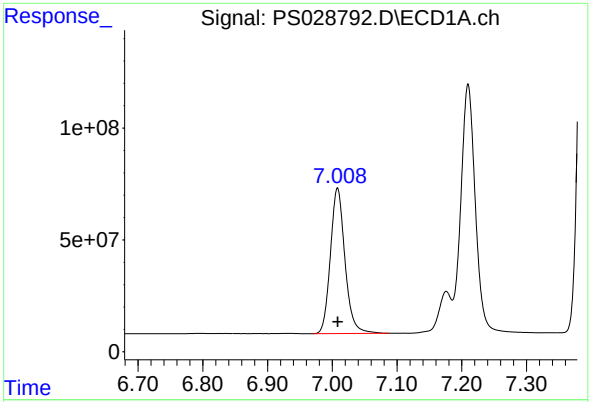
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 2305939207
Conc: 699.80 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

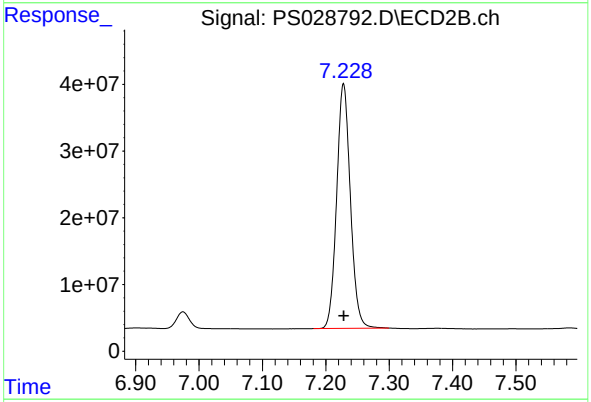
R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 1138685851
Conc: 686.96 ng/ml



#3 4-Nitrophenol

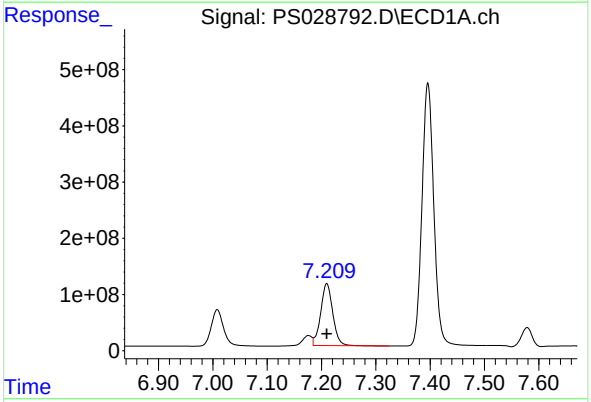
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1016009037
Conc: 676.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



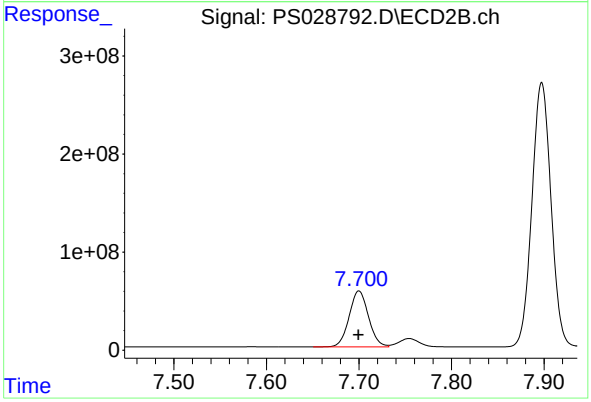
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 552131161
Conc: 659.74 ng/ml



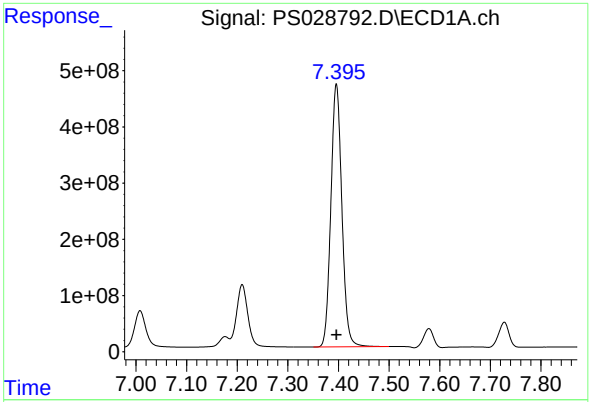
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1706653392
Conc: 754.48 ng/ml



#4 2,4-DCAA

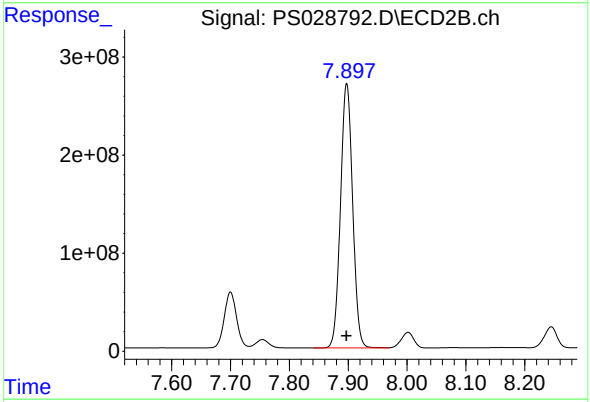
R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 828149629
Conc: 735.78 ng/ml



#5 DICAMBA

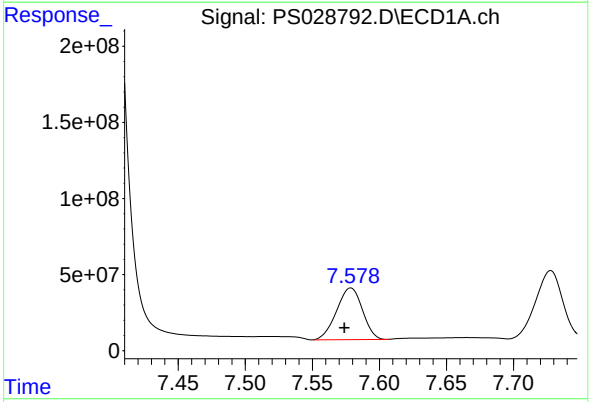
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 7062794288
Conc: 716.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



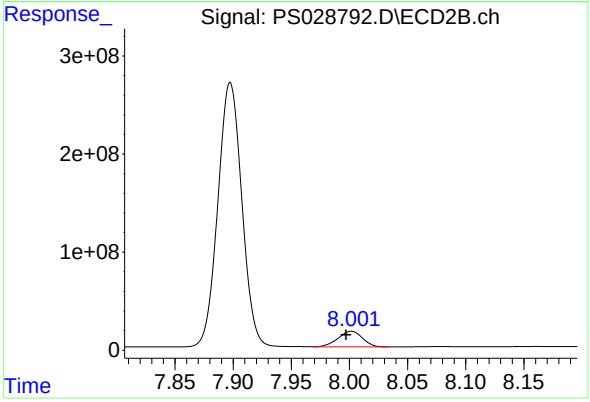
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 3866416193
Conc: 704.28 ng/ml



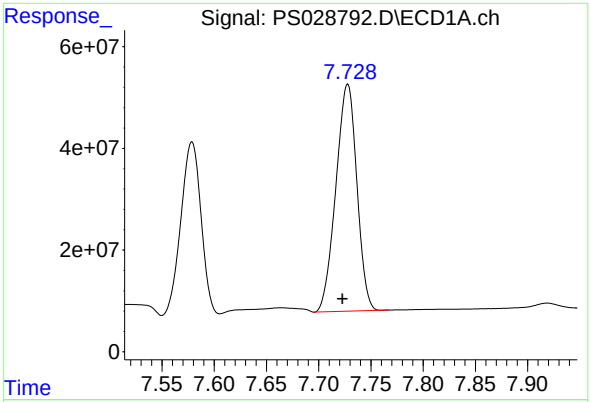
#6 MCPP

R.T.: 7.579 min
Delta R.T.: 0.005 min
Response: 456168053
Conc: 73.25 ug/ml



#6 MCPP

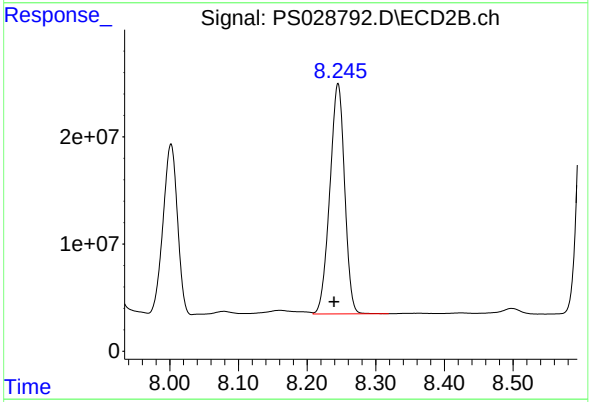
R.T.: 8.002 min
Delta R.T.: 0.005 min
Response: 231930611
Conc: 70.97 ug/ml



#7 MCPA

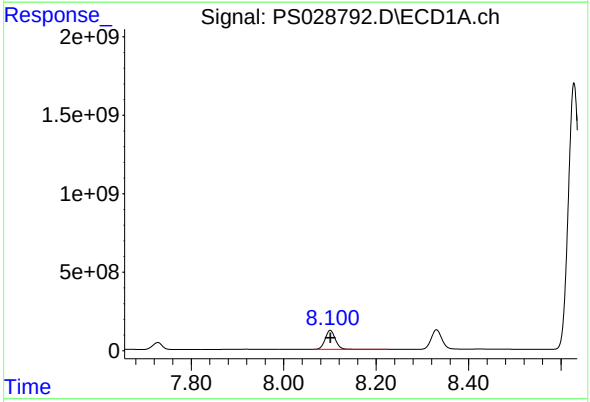
R.T.: 7.728 min
Delta R.T.: 0.005 min
Response: 623705874
Conc: 71.16 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



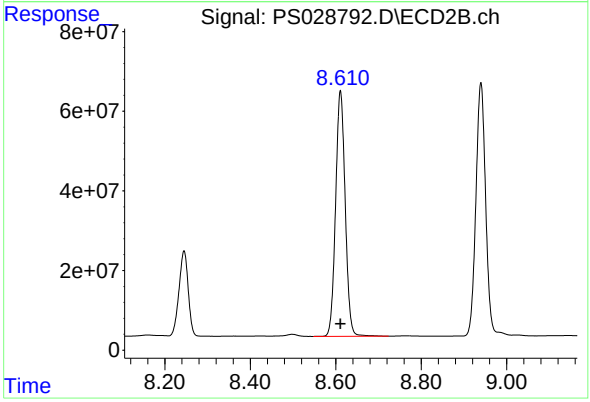
#7 MCPA

R.T.: 8.245 min
Delta R.T.: 0.006 min
Response: 321914525
Conc: 69.48 ug/ml



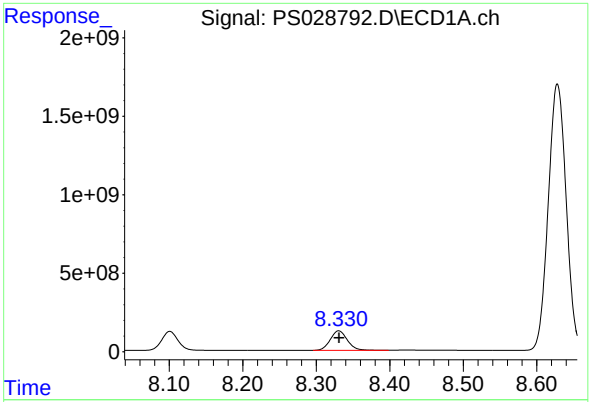
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 1862851382
Conc: 702.12 ng/ml



#8 DICHLORPROP

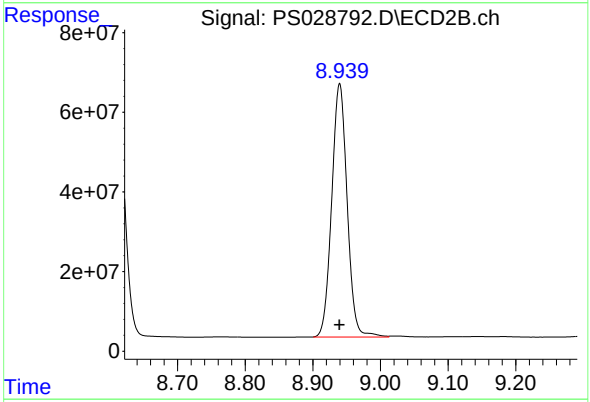
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 959811952
Conc: 695.69 ng/ml



#9 2,4-D

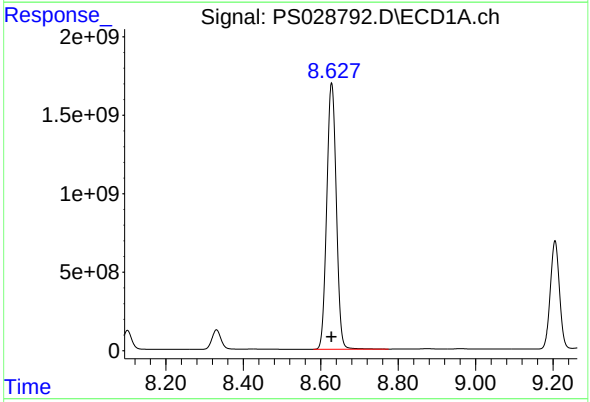
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2015146828
Conc: 707.18 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



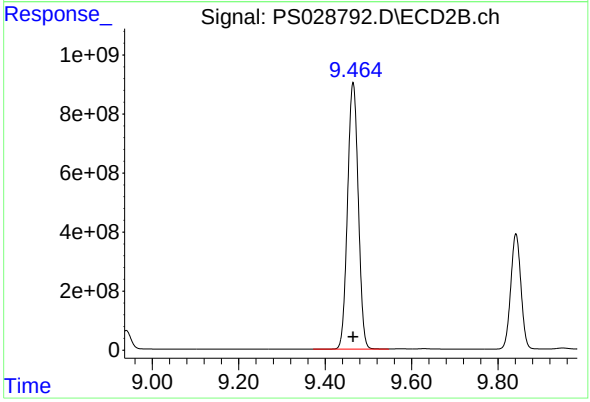
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1009164598
Conc: 699.28 ng/ml



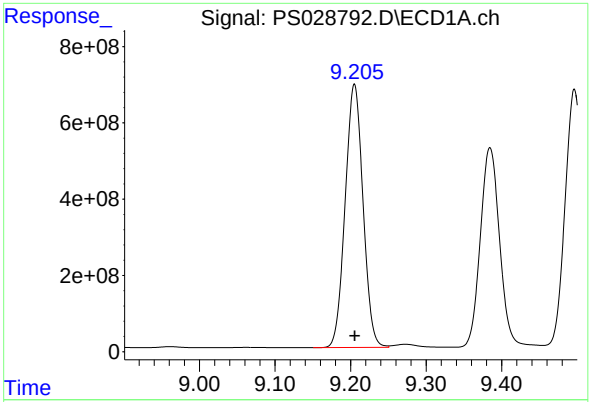
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 28881158451
Conc: 739.27 ng/ml



#10 Pentachlorophenol

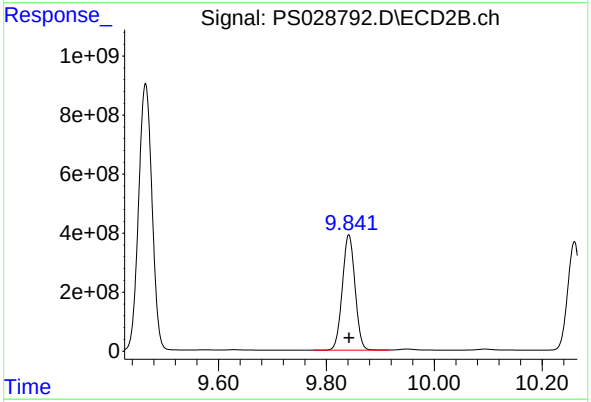
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 15556739865
Conc: 713.65 ng/ml



#11 2,4,5-TP (SILVEX)

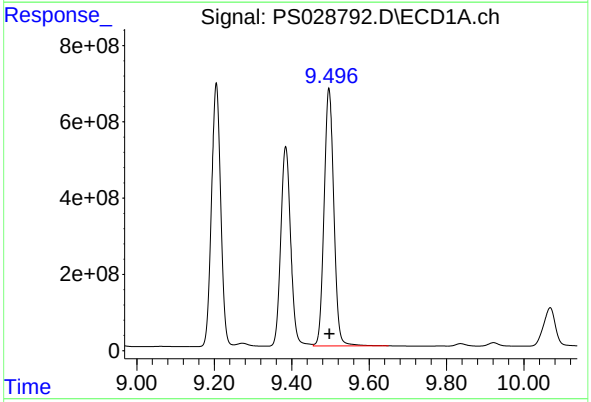
R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 11329034395
Conc: 721.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



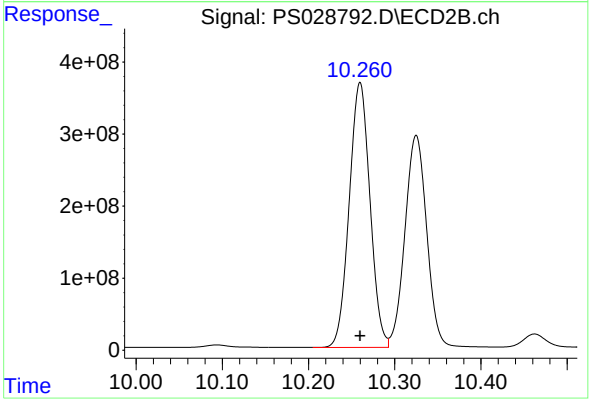
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 6380542860
Conc: 710.25 ng/ml



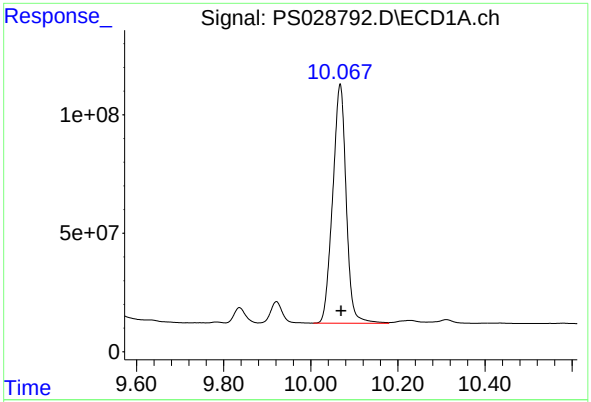
#12 2,4,5-T

R.T.: 9.496 min
Delta R.T.: -0.001 min
Response: 11730841241
Conc: 721.05 ng/ml



#12 2,4,5-T

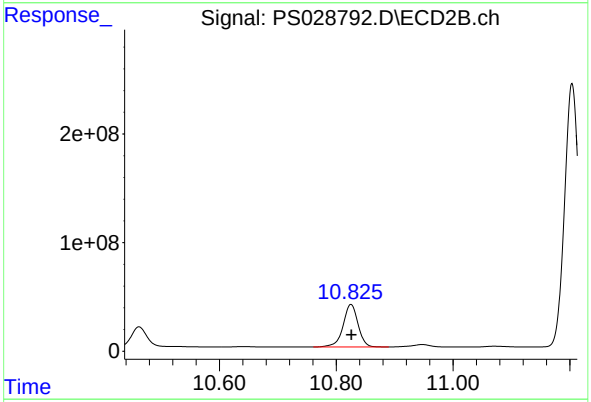
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 6163696965
Conc: 707.72 ng/ml



#13 2,4-DB

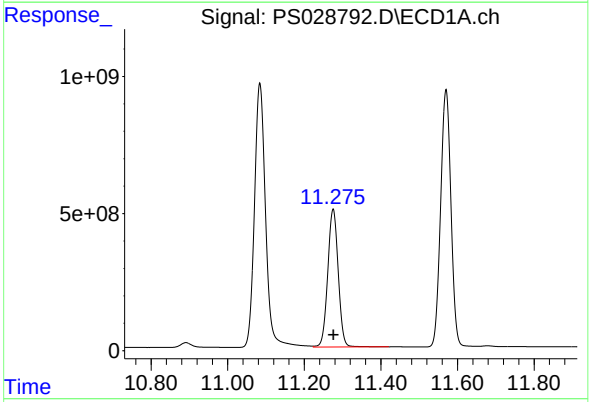
R.T.: 10.067 min
Delta R.T.: -0.002 min
Response: 2171868158
Conc: 695.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



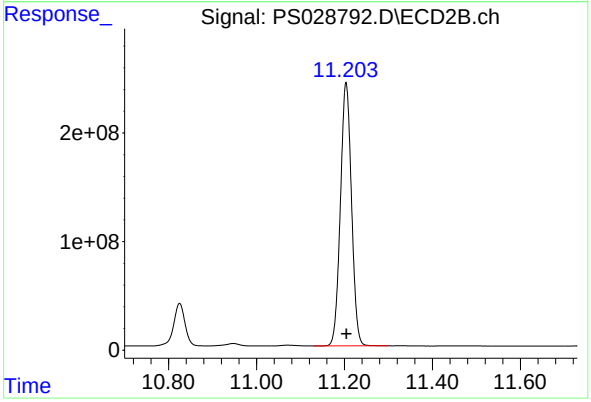
#13 2,4-DB

R.T.: 10.825 min
Delta R.T.: 0.000 min
Response: 695522369
Conc: 716.22 ng/ml



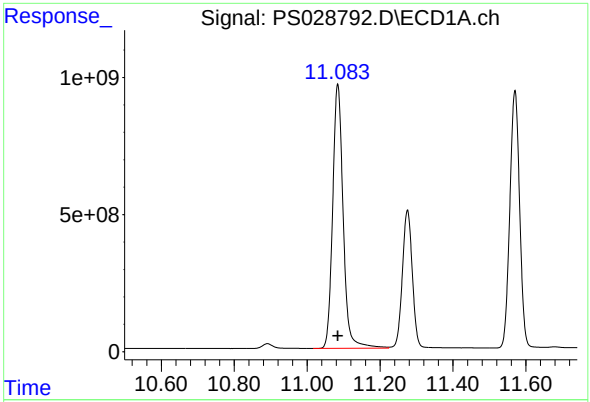
#14 DINOSEB

R.T.: 11.275 min
Delta R.T.: 0.000 min
Response: 9517228199
Conc: 708.04 ng/ml



#14 DINOSEB

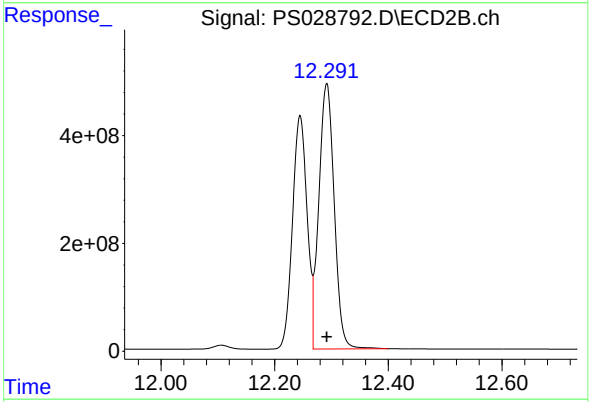
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 4242343247
Conc: 688.79 ng/ml



#15 Picloram

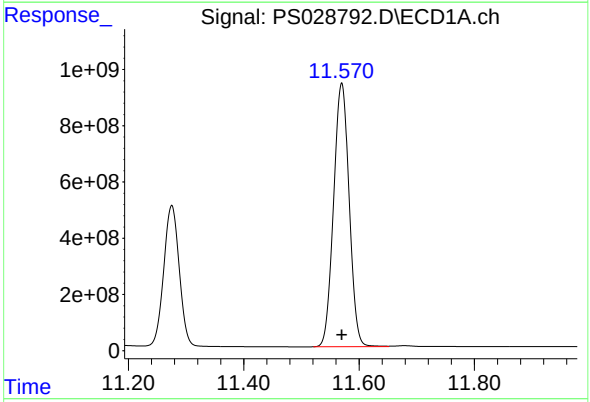
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 19317884108
Conc: 720.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS122324



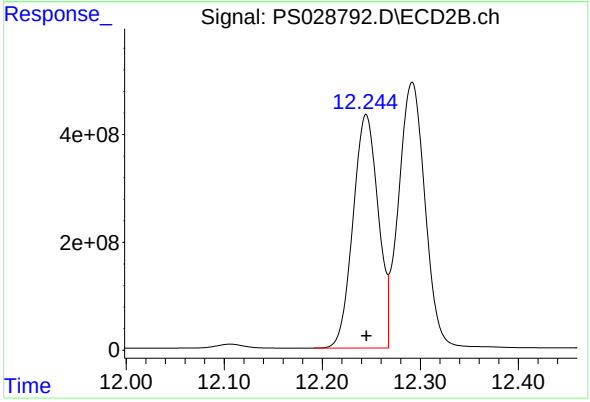
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 9248385463
Conc: 720.33 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 17485864522
Conc: 727.03 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 7736261937
Conc: 720.02 ng/ml

Raw Data: **PS028837.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/27/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 19:56 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.01
2,4-D	8.33	8.33	8.23	8.43	0.01
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028837.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/27/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 19:56 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028837.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/27/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028837.D **Time Analyzed:** 19:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.198	9.106	9.306	789.440	712.500	10.8
2,4-D	8.325	8.232	8.432	737.600	705.000	4.6
2,4-DCAA	7.205	7.110	7.310	805.920	750.000	7.5

Raw Data: **PS028837.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/27/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028837.D **Time Analyzed:** 19:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.834	9.742	9.942	729.080	712.500	2.3
2,4-D	8.932	8.840	9.040	705.540	705.000	0.1
2,4-DCAA	7.694	7.600	7.800	754.200	750.000	0.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:56
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: Dec 28 02:07:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1823.0E6	848.9E6	805.917	754.195
		Target Compounds						
1)	T	Dalapon	2.621	2.674	2021.8E6	1314.0E6	717.806	667.487
2)	T	3,5-DICHL...	6.381	6.656	2523.1E6	1165.1E6	765.691	702.920
3)	T	4-Nitroph...	7.004	7.223	1112.6E6	573.9E6	740.726	685.771
5)	T	DICAMBA	7.391	7.891	7755.1E6	3992.2E6	786.471	727.197
6)	T	MCPP	7.573	7.996	487.3E6	232.0E6	78.249	70.998
7)	T	MCPA	7.722	8.239	661.6E6	323.0E6	75.482	69.722
8)	T	DICHLORPROP	8.095	8.604	2033.8E6	991.4E6	766.562	718.570
9)	T	2,4-D	8.325	8.932	2101.8E6	1018.2E6	737.599	705.536
10)	T	Pentachlo...	8.623	9.457	31445.3E6	16003.3E6	804.907	734.138
11)	T	2,4,5-TP ...	9.198	9.834	12401.6E6	6549.7E6	789.439	729.078
12)	T	2,4,5-T	9.489	10.252	12657.5E6	6276.1E6	778.006	720.627
13)	T	2,4-DB	10.060	10.817	2334.3E6	706.3E6	747.800	727.304
14)	T	DINOSEB	11.266	11.195	10250.1E6	4312.1E6	762.560	700.110
15)	T	Picloram	11.076	12.282	19880.5E6	9050.5E6	741.456	704.924
16)	T	DCPA	11.561	12.235	18496.2E6	7894.9E6	769.039	734.784

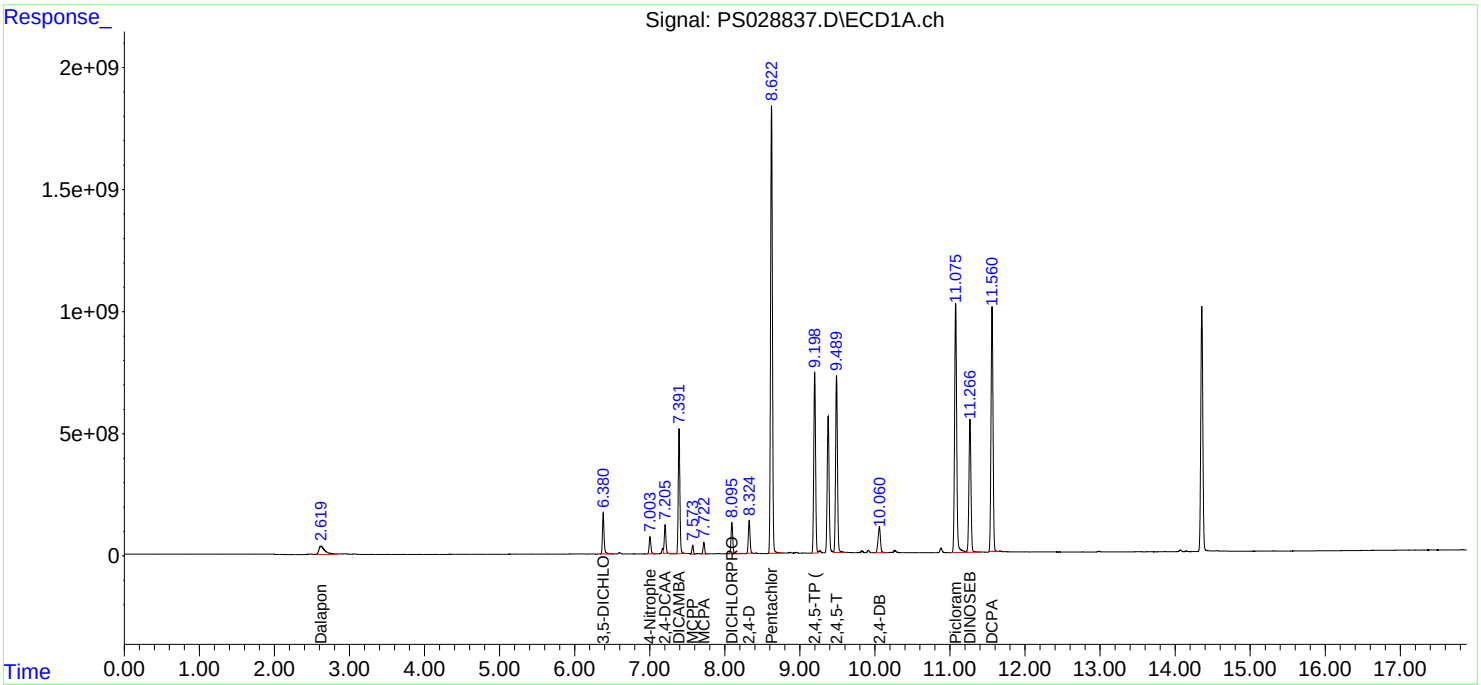
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

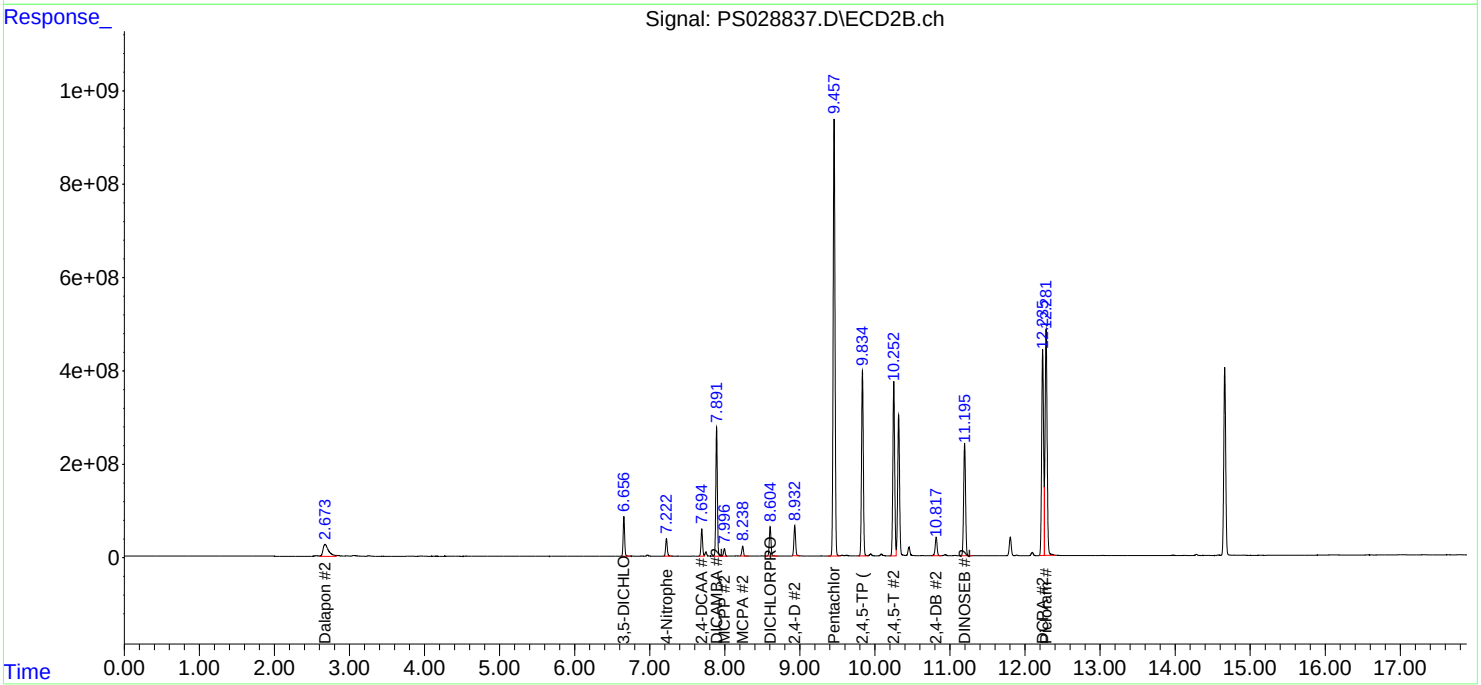
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:56
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

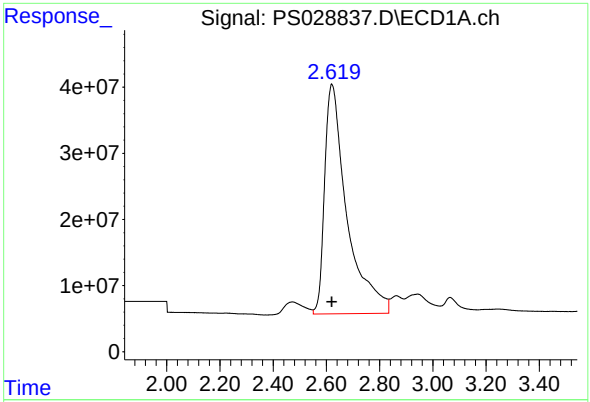
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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 0.25µm



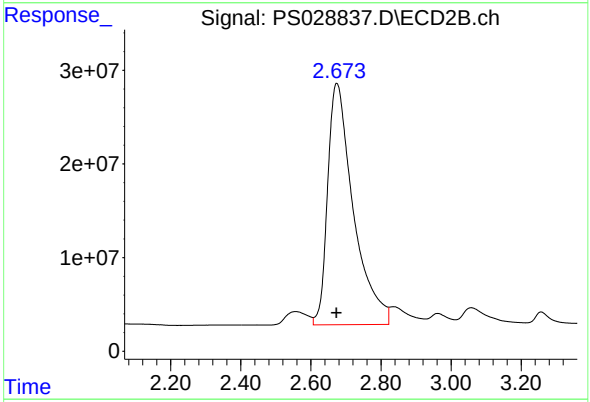




#1 Dalapon

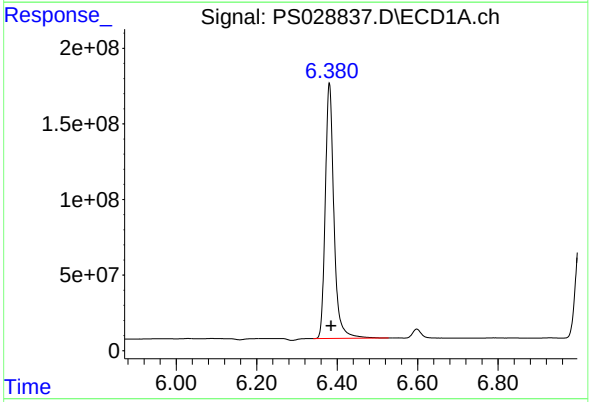
R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 2021809981
Conc: 717.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



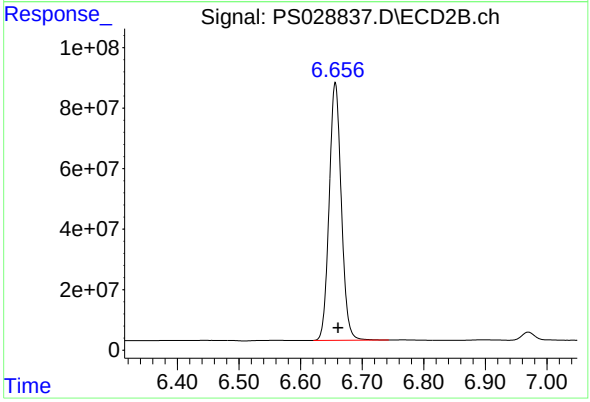
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.000 min
Response: 1314016052
Conc: 667.49 ng/ml



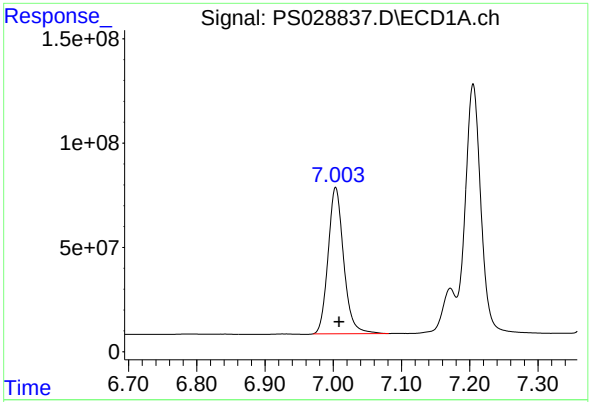
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 2523056452
Conc: 765.69 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

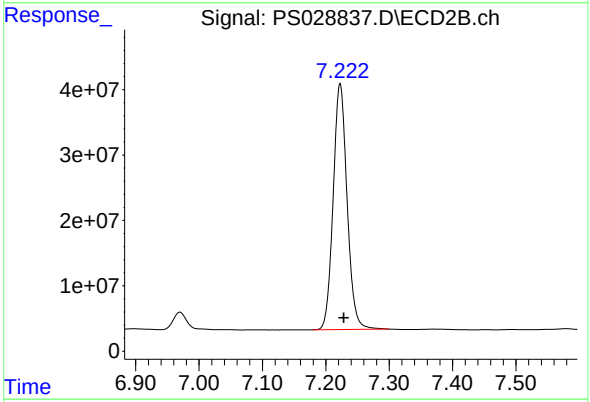
R.T.: 6.656 min
Delta R.T.: -0.004 min
Response: 1165141991
Conc: 702.92 ng/ml



#3 4-Nitrophenol

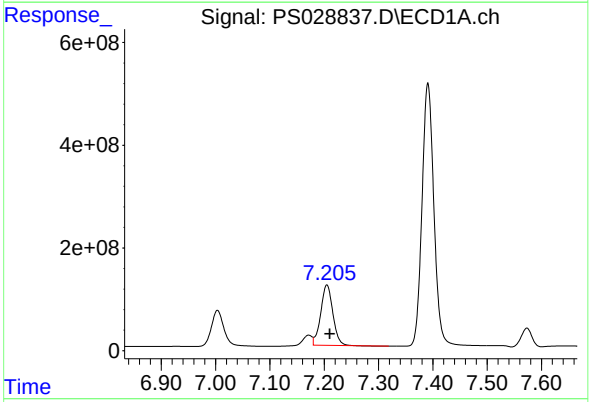
R.T.: 7.004 min
Delta R.T.: -0.005 min
Response: 1112613860
Conc: 740.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



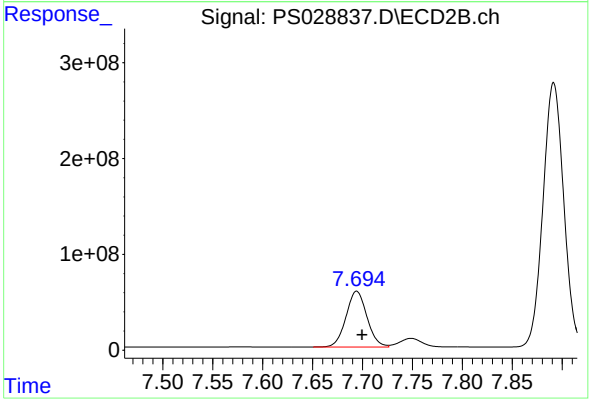
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.006 min
Response: 573917002
Conc: 685.77 ng/ml



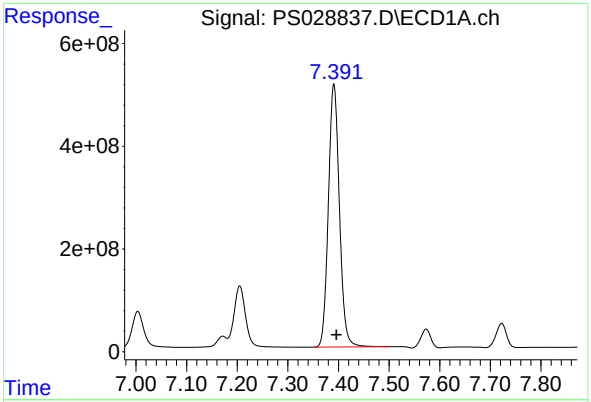
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1823004184
Conc: 805.92 ng/ml



#4 2,4-DCAA

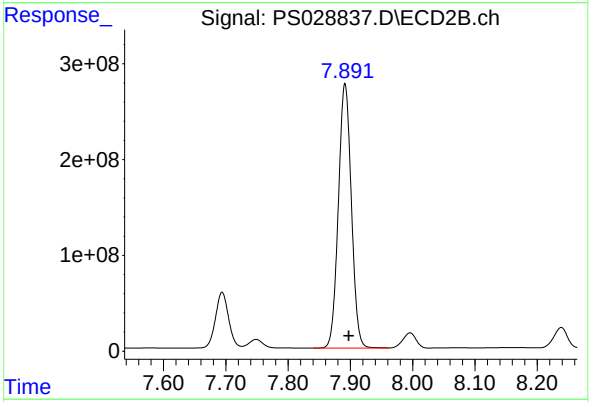
R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 848874911
Conc: 754.20 ng/ml



#5 DICAMBA

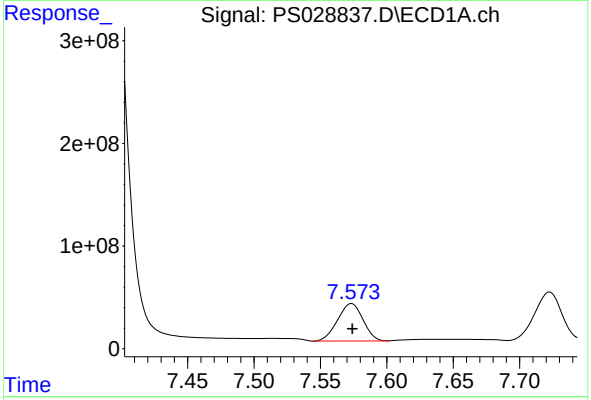
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 7755114903
Conc: 786.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



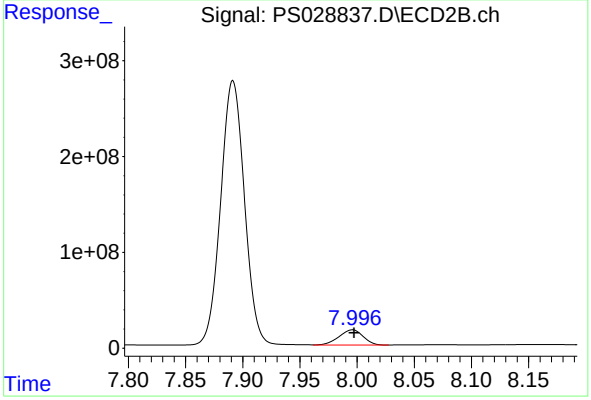
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3992218261
Conc: 727.20 ng/ml



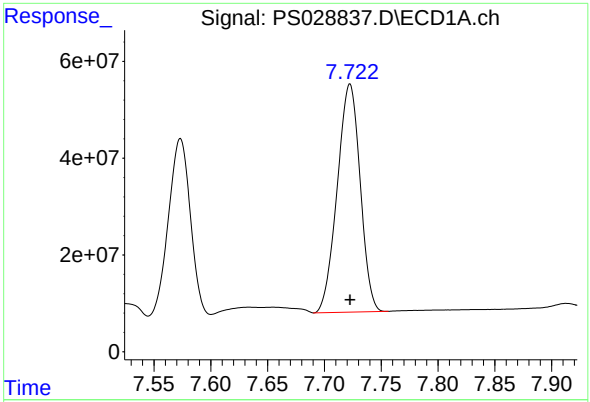
#6 MCPP

R.T.: 7.573 min
Delta R.T.: 0.000 min
Response: 487271083
Conc: 78.25 ug/ml



#6 MCPP

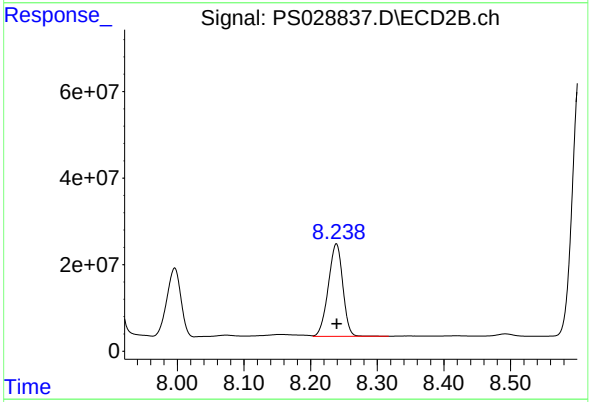
R.T.: 7.996 min
Delta R.T.: -0.001 min
Response: 232006111
Conc: 71.00 ug/ml



#7 MCPA

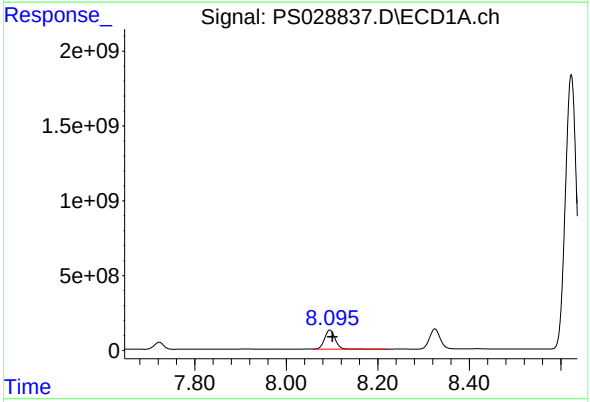
R.T.: 7.722 min
Delta R.T.: 0.000 min
Response: 661632497
Conc: 75.48 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



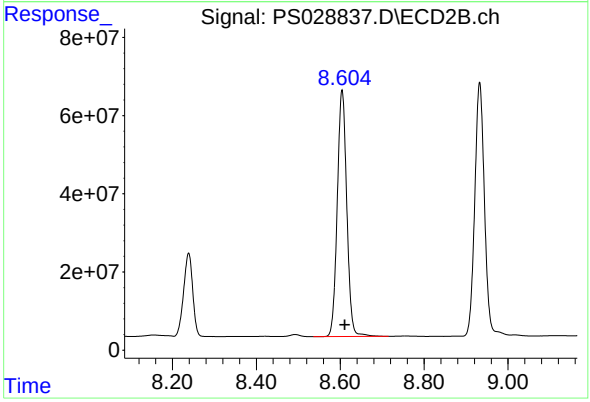
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 323012865
Conc: 69.72 ug/ml



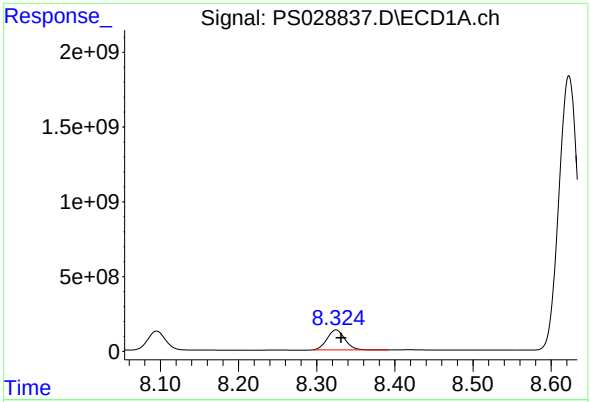
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 2033825282
Conc: 766.56 ng/ml



#8 DICHLORPROP

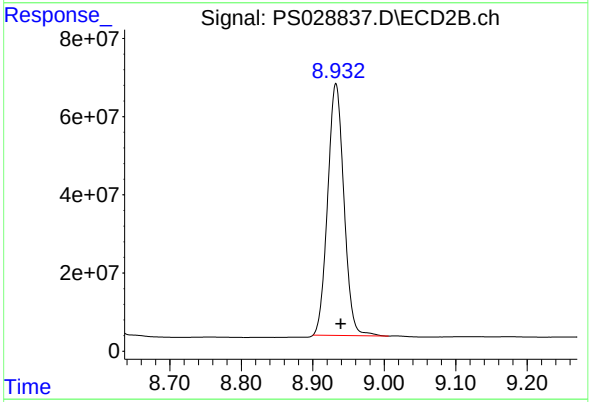
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 991380785
Conc: 718.57 ng/ml



#9 2,4-D

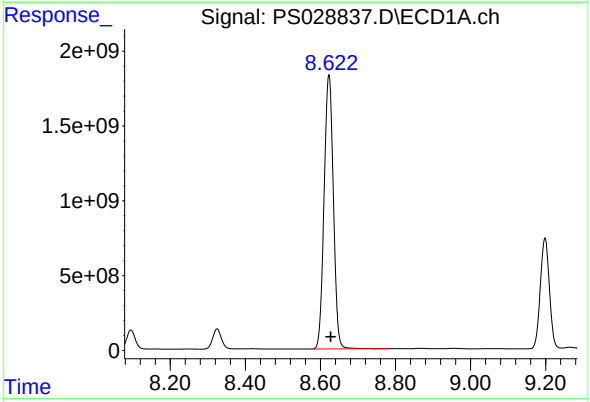
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 2101812498
Conc: 737.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



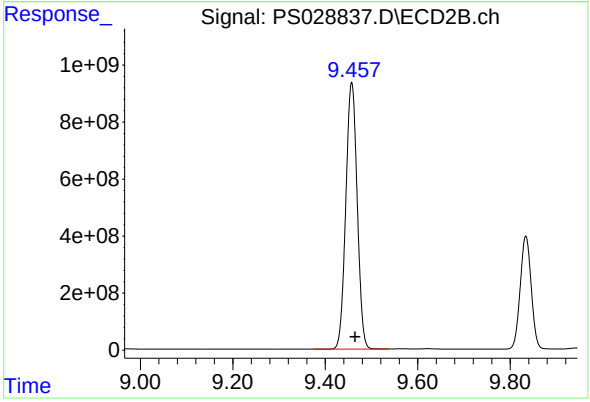
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 1018190874
Conc: 705.54 ng/ml



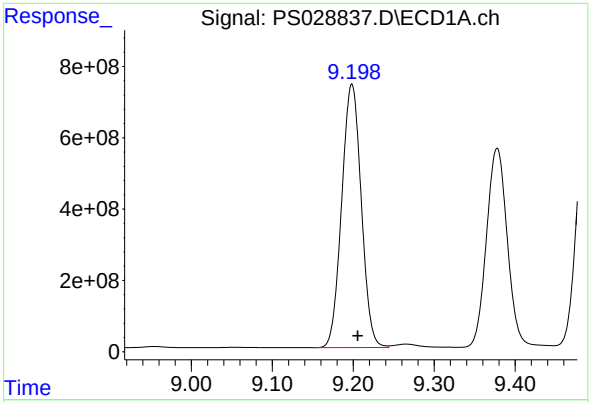
#10 Pentachlorophenol

R.T.: 8.623 min
Delta R.T.: -0.005 min
Response: 31445304592
Conc: 804.91 ng/ml



#10 Pentachlorophenol

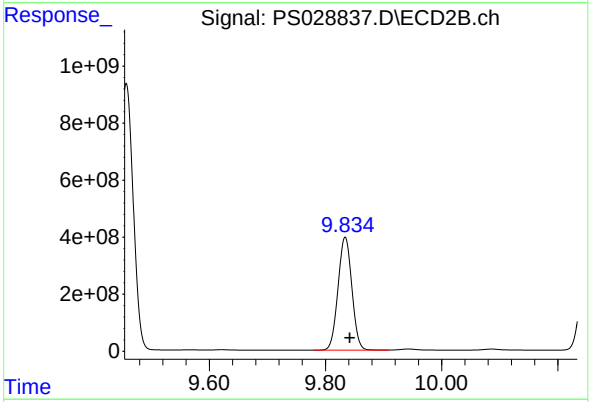
R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 16003257047
Conc: 734.14 ng/ml



#11 2,4,5-TP (SILVEX)

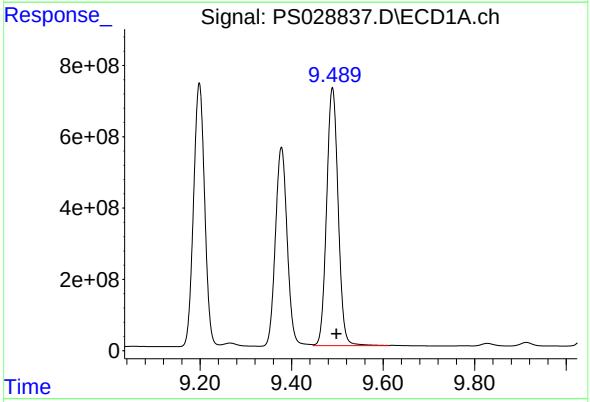
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 12401558025
Conc: 789.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



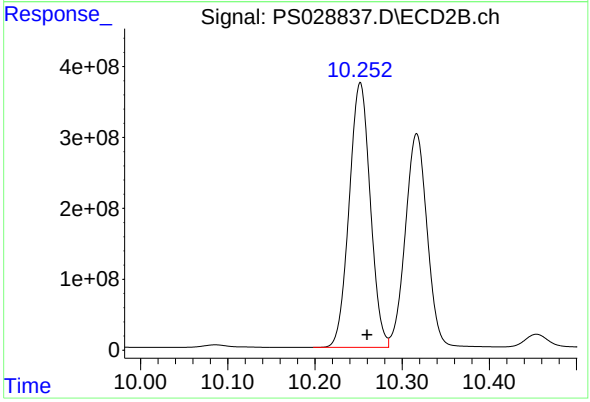
#11 2,4,5-TP (SILVEX)

R.T.: 9.834 min
Delta R.T.: -0.008 min
Response: 6549678403
Conc: 729.08 ng/ml



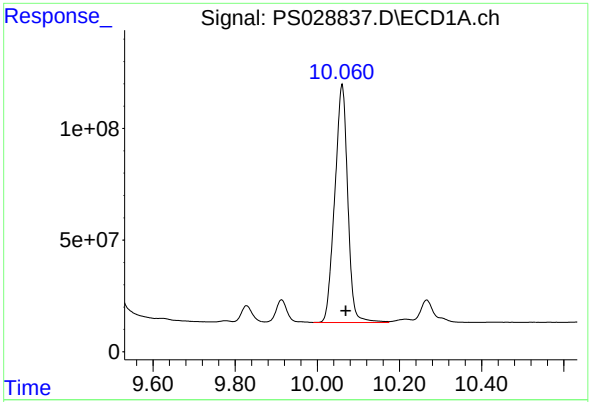
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.008 min
Response: 12657532218
Conc: 778.01 ng/ml



#12 2,4,5-T

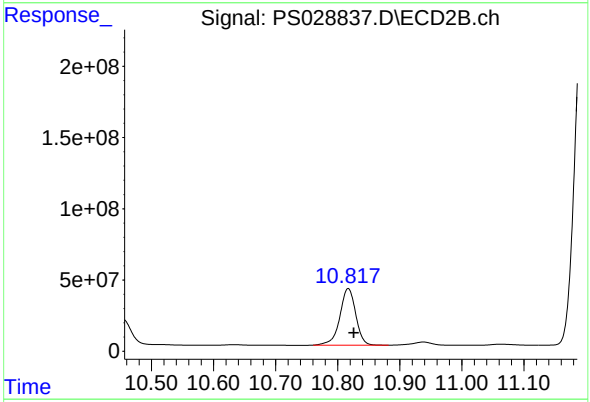
R.T.: 10.252 min
Delta R.T.: -0.008 min
Response: 6276071604
Conc: 720.63 ng/ml



#13 2,4-DB

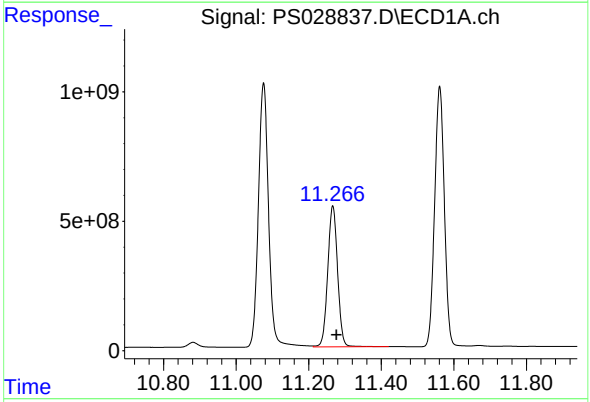
R.T.: 10.060 min
Delta R.T.: -0.009 min
Response: 2334331513
Conc: 747.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



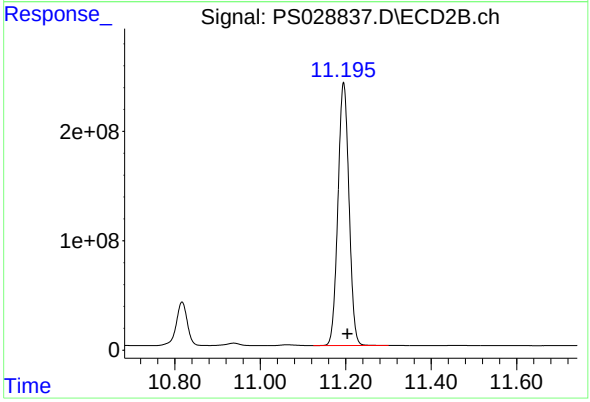
#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.009 min
Response: 706282910
Conc: 727.30 ng/ml



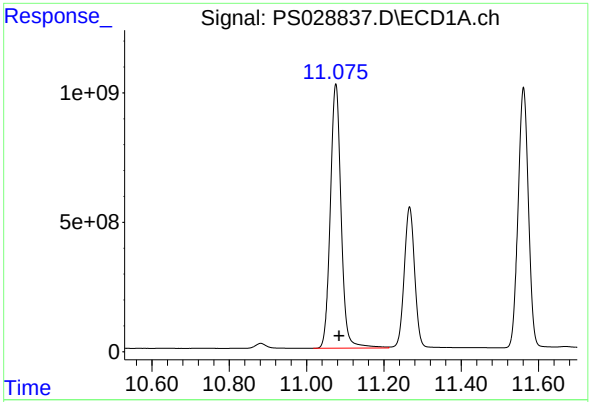
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 10250127834
Conc: 762.56 ng/ml



#14 DINOSEB

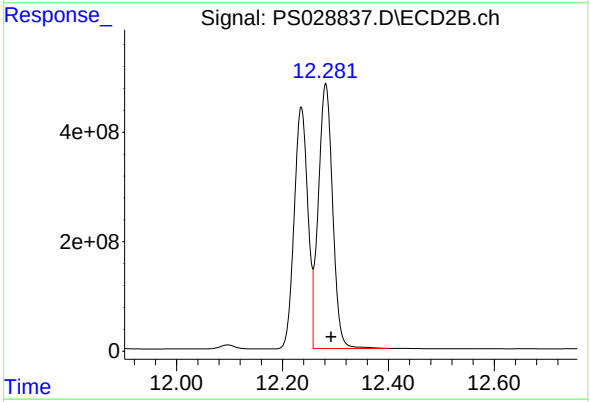
R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 4312076929
Conc: 700.11 ng/ml



#15 Picloram

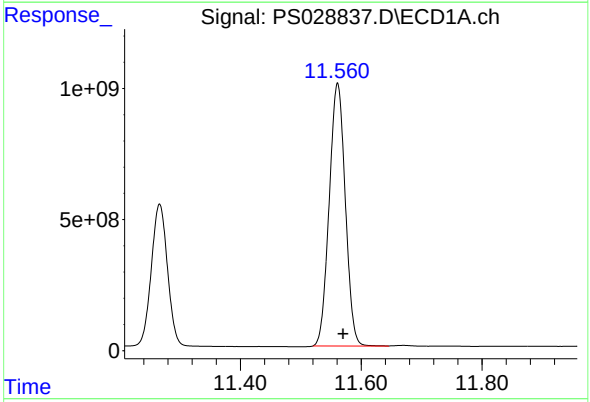
R.T.: 11.076 min
Delta R.T.: -0.009 min
Response: 19880476701
Conc: 741.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



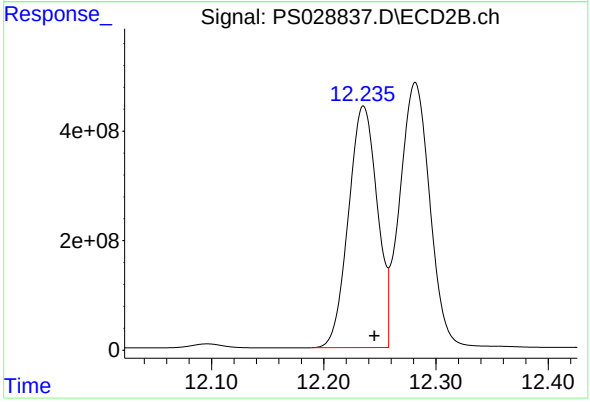
#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 9050534614
Conc: 704.92 ng/ml



#16 DCPA

R.T.: 11.561 min
Delta R.T.: -0.009 min
Response: 18496187825
Conc: 769.04 ng/ml



#16 DCPA

R.T.: 12.235 min
Delta R.T.: -0.010 min
Response: 7894945231
Conc: 734.78 ng/ml

Raw Data: **PS028846.D**

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/28/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 00:19 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.01
2,4-D	8.32	8.33	8.23	8.43	0.01
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028846.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/28/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 00:19 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028846.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028846.D **Time Analyzed:** 00:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.198	9.106	9.306	801.390	712.500	12.5
2,4-D	8.324	8.232	8.432	742.400	705.000	5.3
2,4-DCAA	7.205	7.110	7.310	815.240	750.000	8.7

Raw Data: **PS028846.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/28/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028846.D **Time Analyzed:** 00:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.833	9.742	9.942	739.050	712.500	3.7
2,4-D	8.931	8.840	9.040	707.040	705.000	0.3
2,4-DCAA	7.693	7.600	7.800	763.530	750.000	1.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Dec 2024 00:19
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: Dec 28 02:09:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.693	1844.1E6	859.4E6	815.237	763.534
		Target Compounds						
1)	T	Dalapon	2.619	2.674	2016.2E6	1312.1E6	715.797	666.506
2)	T	3,5-DICHL...	6.381	6.656	2554.1E6	1182.1E6	775.111	713.173
3)	T	4-Nitroph...	7.003	7.222	1120.8E6	580.9E6	746.192	694.099
5)	T	DICAMBA	7.391	7.891	7835.7E6	4042.9E6	794.647	736.431
6)	T	MCPP	7.573	7.995	493.7E6	235.0E6	79.274	71.899
7)	T	MCPA	7.722	8.238	671.9E6	327.1E6	76.651	70.605
8)	T	DICHLORPROP	8.095	8.603	2070.5E6	1006.5E6	780.394	729.547
9)	T	2,4-D	8.324	8.931	2115.5E6	1020.4E6	742.397	707.040
10)	T	Pentachlo...	8.622	9.456	31922.3E6	16214.7E6	817.116	743.835
11)	T	2,4,5-TP ...	9.198	9.833	12589.3E6	6639.3E6	801.389	739.054
12)	T	2,4,5-T	9.489	10.251	12828.7E6	6359.2E6	788.528	730.170
13)	T	2,4-DB	10.060	10.816	2353.0E6	715.8E6	753.774	737.148
14)	T	DINOSEB	11.266	11.194	10264.4E6	4243.0E6	763.620	688.898
15)	T	Picloram	11.074	12.280	19971.2E6	9034.0E6	744.840	703.633
16)	T	DCPA	11.560	12.234	18949.7E6	8027.1E6	787.895	747.082

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

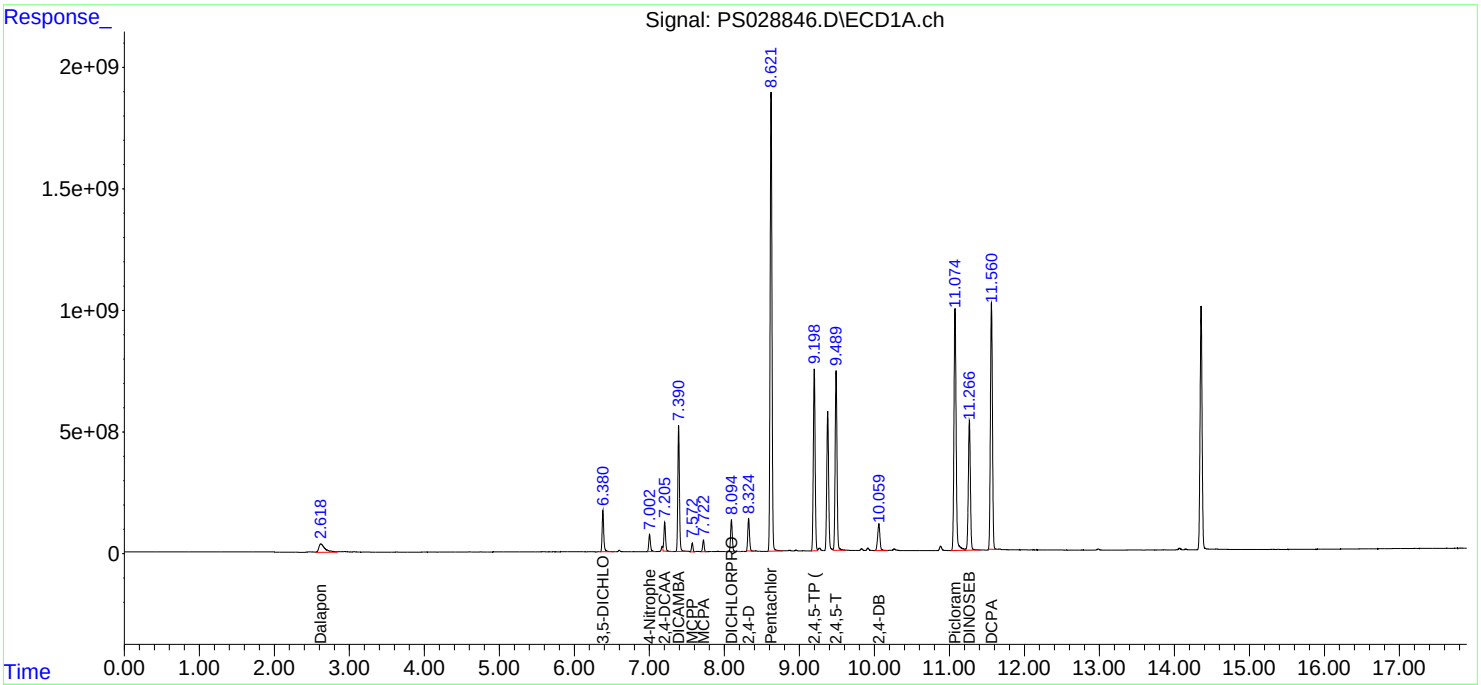
Sample Results: **PS028846.D**

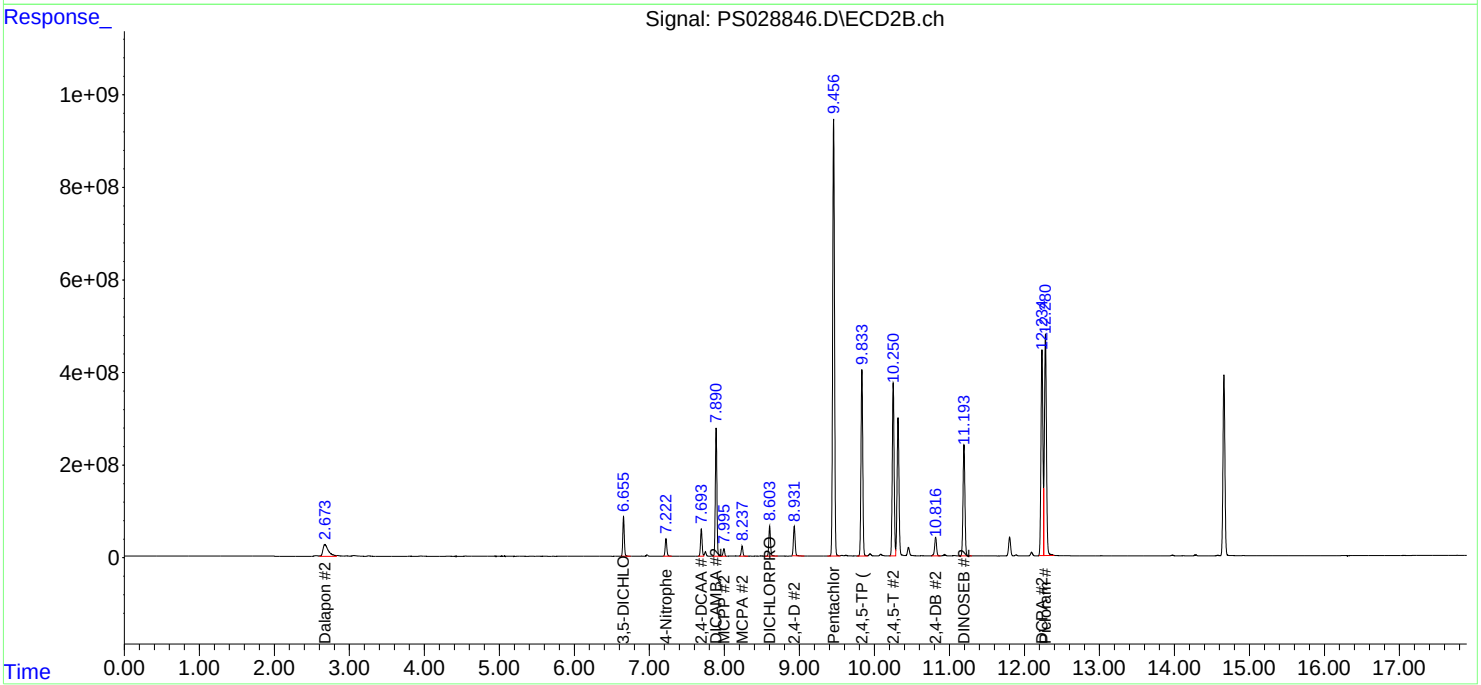
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028846.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Dec 2024 00:19
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

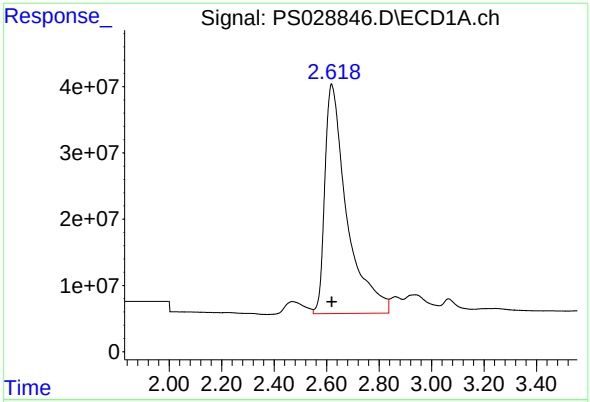
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



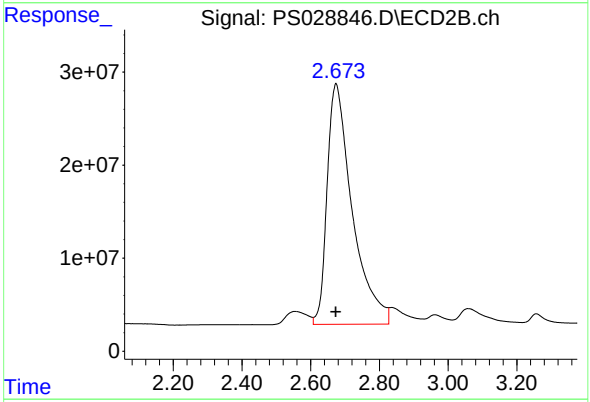




#1 Dalapon

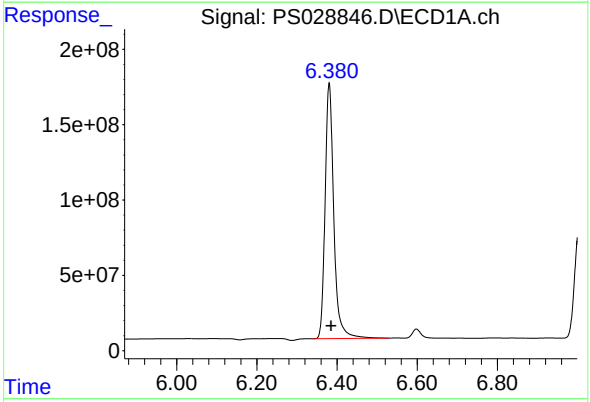
R.T.: 2.619 min
Delta R.T.: -0.001 min
Response: 2016150998
Conc: 715.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



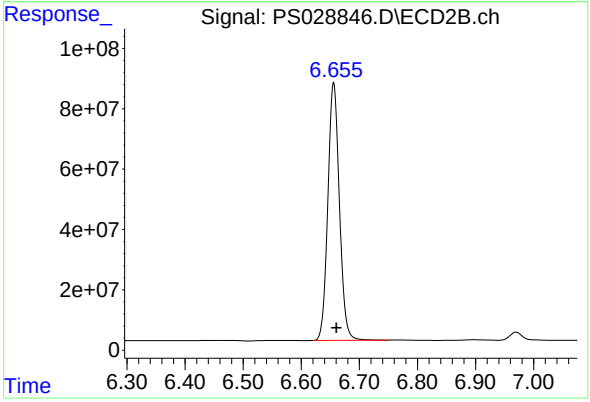
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.001 min
Response: 1312084335
Conc: 666.51 ng/ml



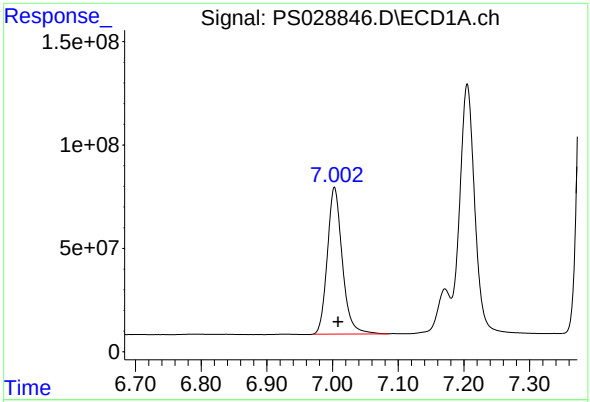
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.005 min
Response: 2554094491
Conc: 775.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

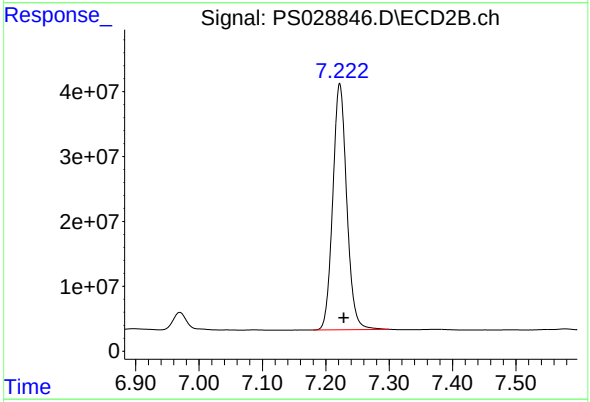
R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 1182136096
Conc: 713.17 ng/ml



#3 4-Nitrophenol

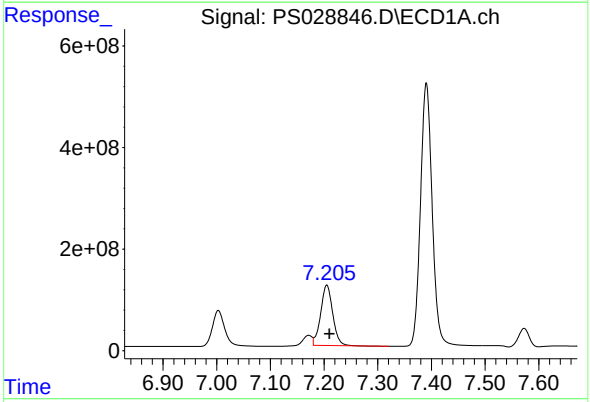
R.T.: 7.003 min
Delta R.T.: -0.005 min
Response: 1120823047
Conc: 746.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



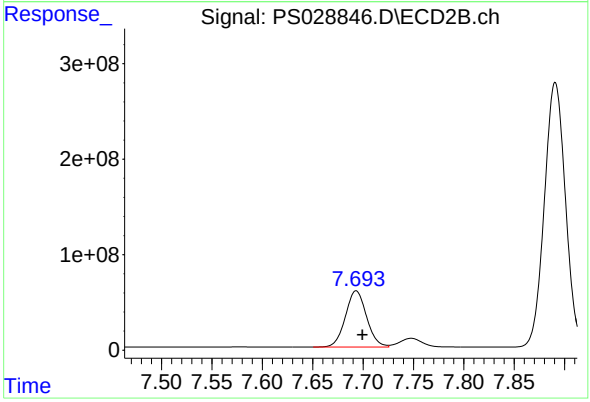
#3 4-Nitrophenol

R.T.: 7.222 min
Delta R.T.: -0.006 min
Response: 580886669
Conc: 694.10 ng/ml



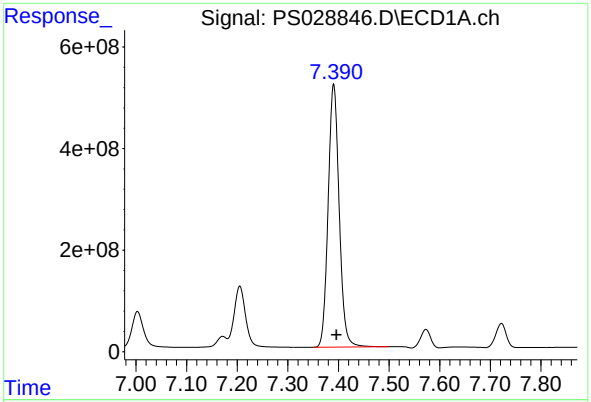
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1844086438
Conc: 815.24 ng/ml



#4 2,4-DCAA

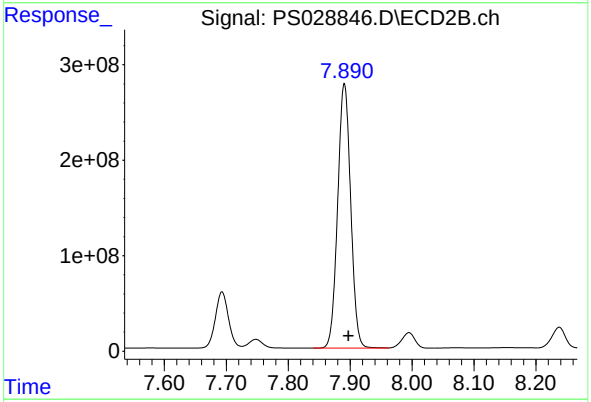
R.T.: 7.693 min
Delta R.T.: -0.006 min
Response: 859386355
Conc: 763.53 ng/ml



#5 DICAMBA

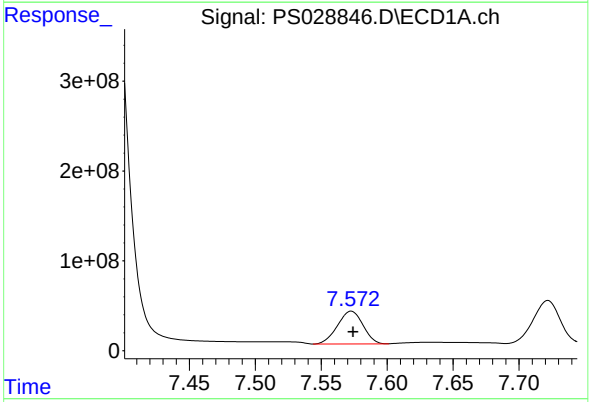
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 7835732234
Conc: 794.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



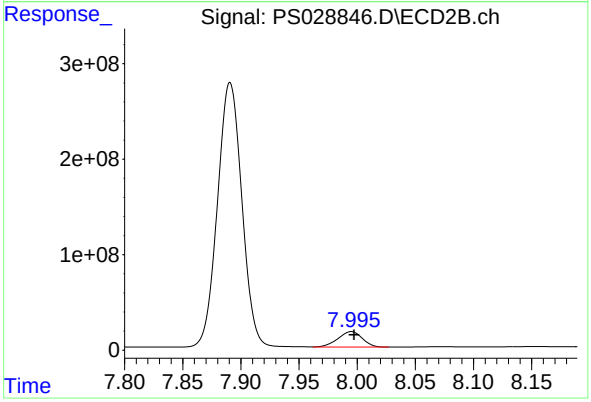
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.007 min
Response: 4042909319
Conc: 736.43 ng/ml



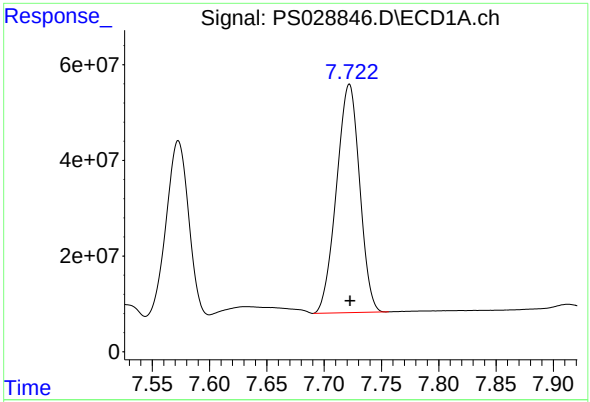
#6 MCPP

R.T.: 7.573 min
Delta R.T.: -0.001 min
Response: 493658737
Conc: 79.27 ug/ml



#6 MCPP

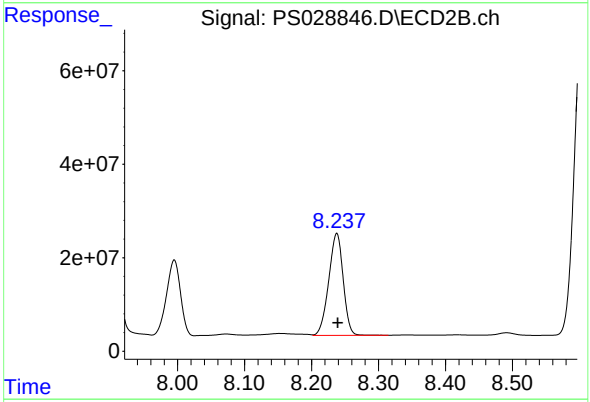
R.T.: 7.995 min
Delta R.T.: -0.002 min
Response: 234951176
Conc: 71.90 ug/ml



#7 MCPA

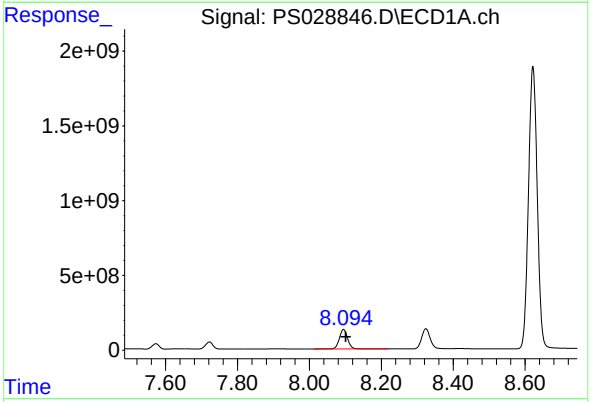
R.T.: 7.722 min
Delta R.T.: 0.000 min
Response: 671881480
Conc: 76.65 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



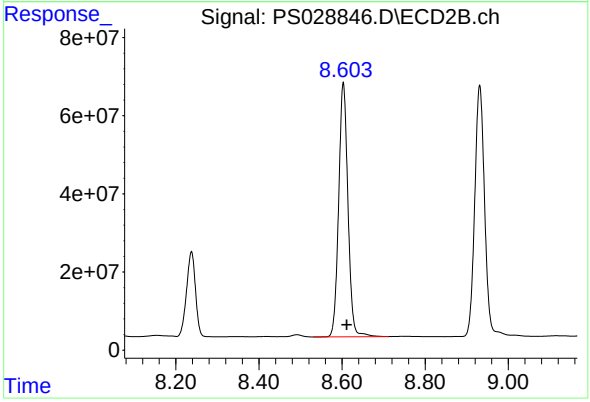
#7 MCPA

R.T.: 8.238 min
Delta R.T.: -0.002 min
Response: 327101411
Conc: 70.60 ug/ml



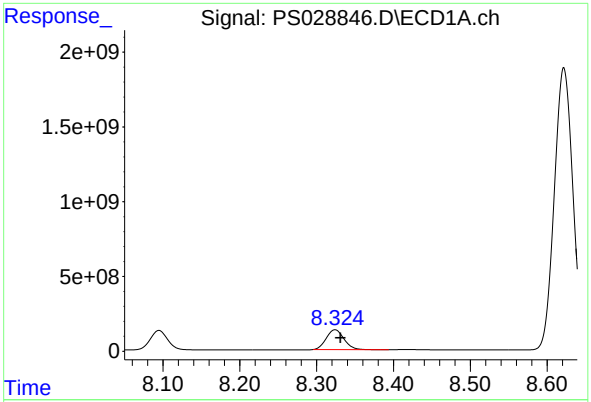
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 2070523232
Conc: 780.39 ng/ml



#8 DICHLORPROP

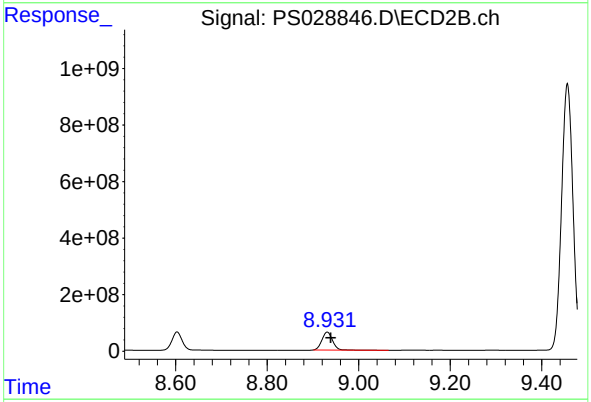
R.T.: 8.603 min
Delta R.T.: -0.008 min
Response: 1006525517
Conc: 729.55 ng/ml



#9 2,4-D

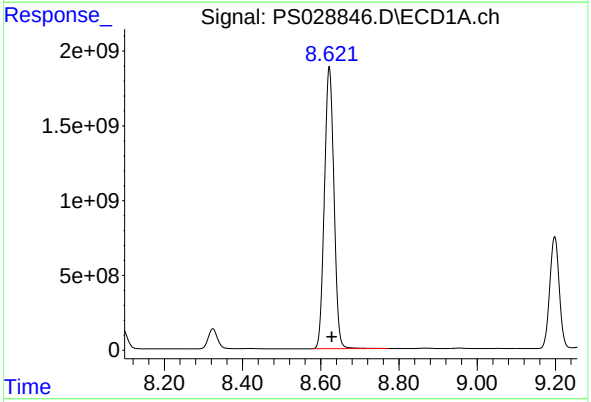
R.T.: 8.324 min
Delta R.T.: -0.007 min
Response: 2115485746
Conc: 742.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



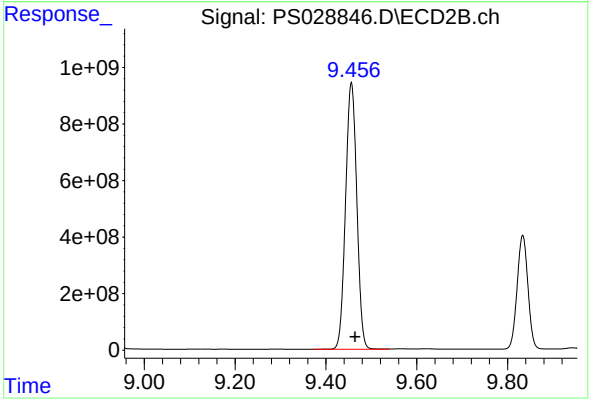
#9 2,4-D

R.T.: 8.931 min
Delta R.T.: -0.008 min
Response: 1020361636
Conc: 707.04 ng/ml



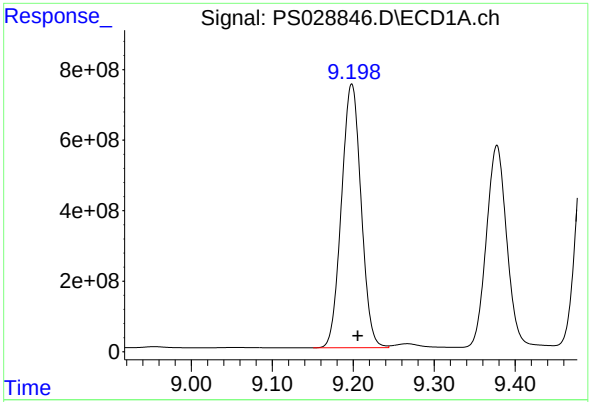
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 31922279660
Conc: 817.12 ng/ml



#10 Pentachlorophenol

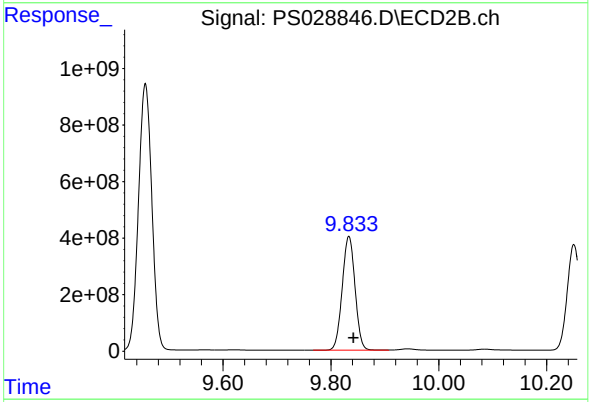
R.T.: 9.456 min
Delta R.T.: -0.008 min
Response: 16214656545
Conc: 743.84 ng/ml



#11 2,4,5-TP (SILVEX)

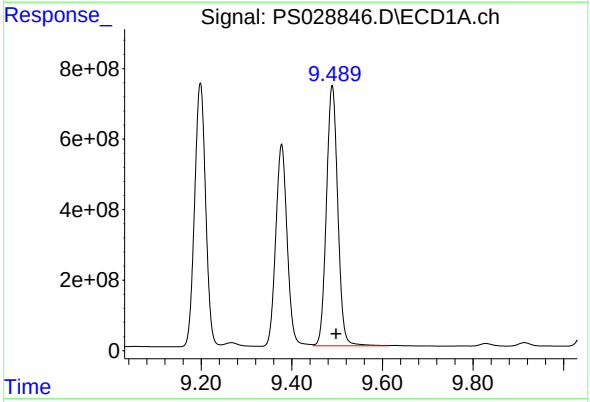
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 12589280013
Conc: 801.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



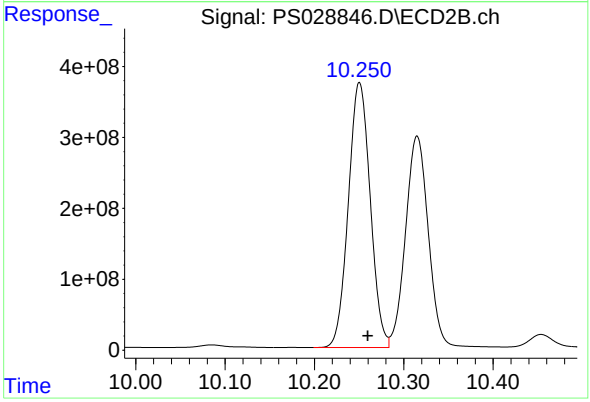
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.008 min
Response: 6639302617
Conc: 739.05 ng/ml



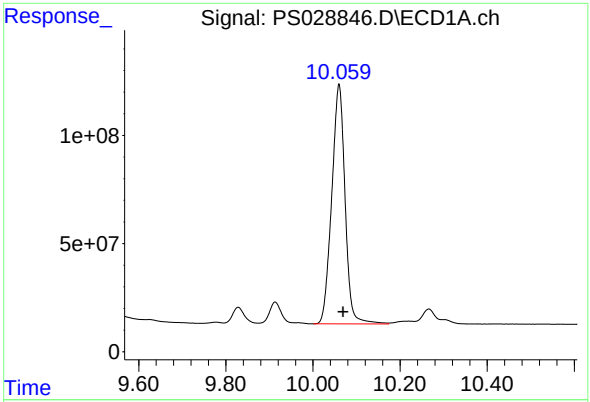
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 12828706053
Conc: 788.53 ng/ml



#12 2,4,5-T

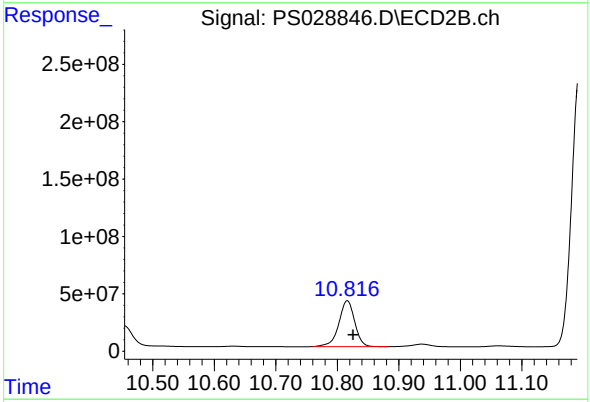
R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 6359186708
Conc: 730.17 ng/ml



#13 2,4-DB

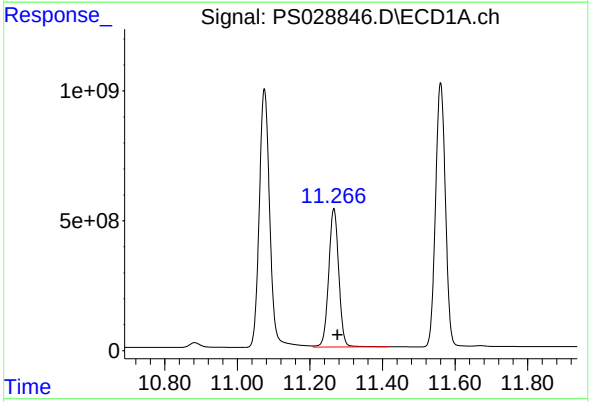
R.T.: 10.060 min
Delta R.T.: -0.010 min
Response: 2352980062
Conc: 753.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



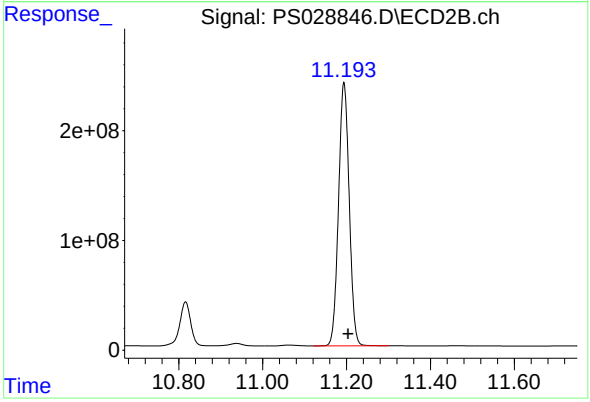
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 715842906
Conc: 737.15 ng/ml



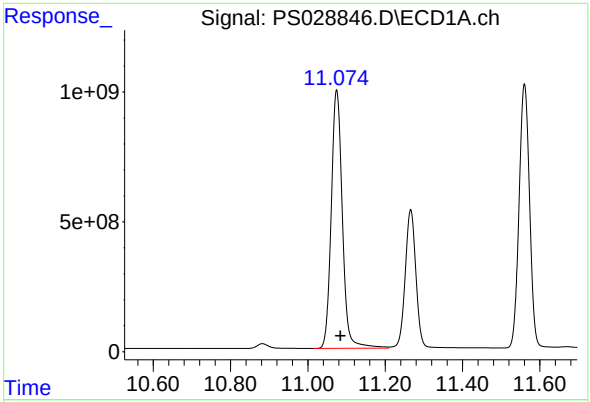
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 10264370845
Conc: 763.62 ng/ml



#14 DINOSEB

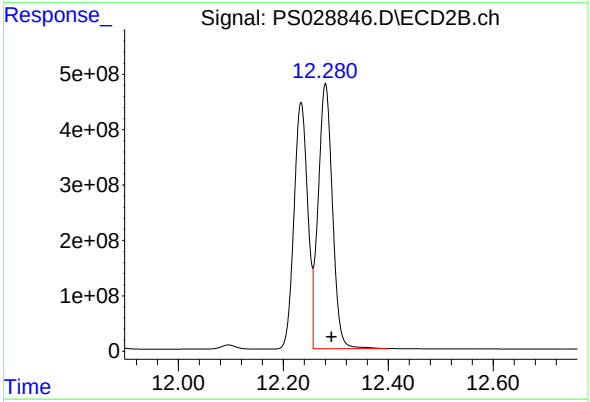
R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 4243022275
Conc: 688.90 ng/ml



#15 Picloram

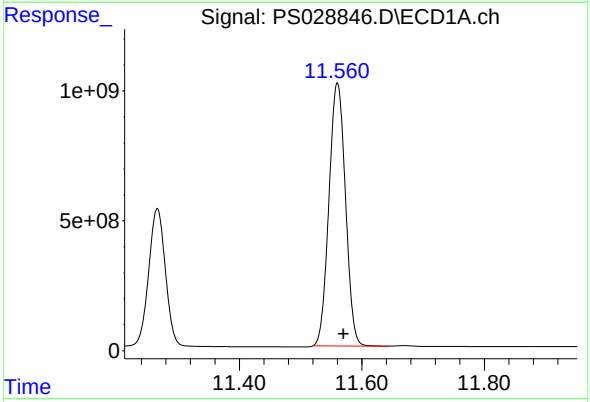
R.T.: 11.074 min
Delta R.T.: -0.010 min
Response: 19971234302
Conc: 744.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



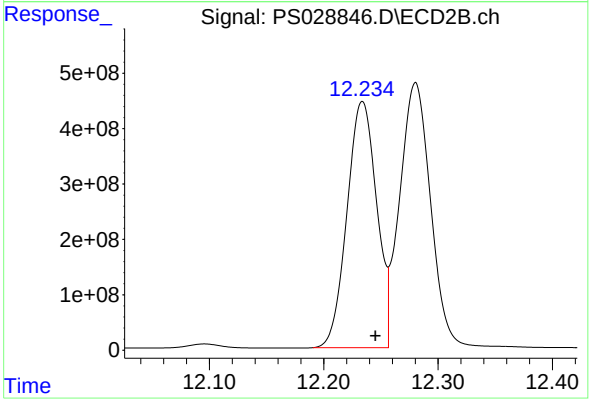
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 9033961143
Conc: 703.63 ng/ml



#16 DCPA

R.T.: 11.560 min
Delta R.T.: -0.010 min
Response: 18949683331
Conc: 787.89 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 8027077081
Conc: 747.08 ng/ml

Raw Data: **PS028849.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/30/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 10:25 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028849.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/30/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 10:25 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028849.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 12/30/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028849.D **Time Analyzed:** 10:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.204	9.106	9.306	757.550	712.500	6.3
2,4-D	8.330	8.232	8.432	734.230	705.000	4.1
2,4-DCAA	7.210	7.110	7.310	785.200	750.000	4.7

Raw Data: **PS028849.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL03 **Date Analyzed:** 12/30/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028849.D **Time Analyzed:** 10:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.833	9.742	9.942	659.120	712.500	-7.5
2,4-D	8.932	8.840	9.040	632.820	705.000	-10.2
2,4-DCAA	7.694	7.600	7.800	675.500	750.000	-9.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028849.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:25
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: Dec 31 01:36:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.210	7.694	1776.1E6	760.3E6	785.196	675.500
		Target Compounds						
1)	T	Dalapon	2.622	2.673	1972.2E6	1240.5E6	700.193	630.145
2)	T	3,5-DICHL...	6.385	6.656	2403.7E6	1047.4E6	729.462	631.891
3)	T	4-Nitroph...	7.008	7.223	1059.9E6	525.7E6	705.599	628.151
5)	T	DICAMBA	7.395	7.891	7398.6E6	3566.5E6	750.316	649.658
6)	T	MCPP	7.577	7.994	448.7E6	208.7E6	72.059	63.851
7)	T	MCPA	7.726	8.236	610.8E6	290.5E6	69.684	62.698
8)	T	DICHLORPROP	8.100	8.604	1950.1E6	889.4E6	734.993	644.635
9)	T	2,4-D	8.330	8.932	2092.2E6	913.3E6	734.232	632.820
10)	T	Pentachlo...	8.627	9.456	30162.7E6	14445.6E6	772.076	662.683
11)	T	2,4,5-TP ...	9.204	9.833	11900.7E6	5921.2E6	757.554	659.116
12)	T	2,4,5-T	9.495	10.250	12202.5E6	5640.6E6	750.039	647.663
13)	T	2,4-DB	10.066	10.816	2235.6E6	633.0E6	716.186	651.865
14)	T	DINOSEB	11.272	11.193	10003.9E6	3911.0E6	744.241	634.996
15)	T	Picloram	11.081	12.280	19388.9E6	8308.3E6	723.120	647.112
16)	T	DCPA	11.567	12.234	18085.0E6	7119.2E6	751.943	662.590

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

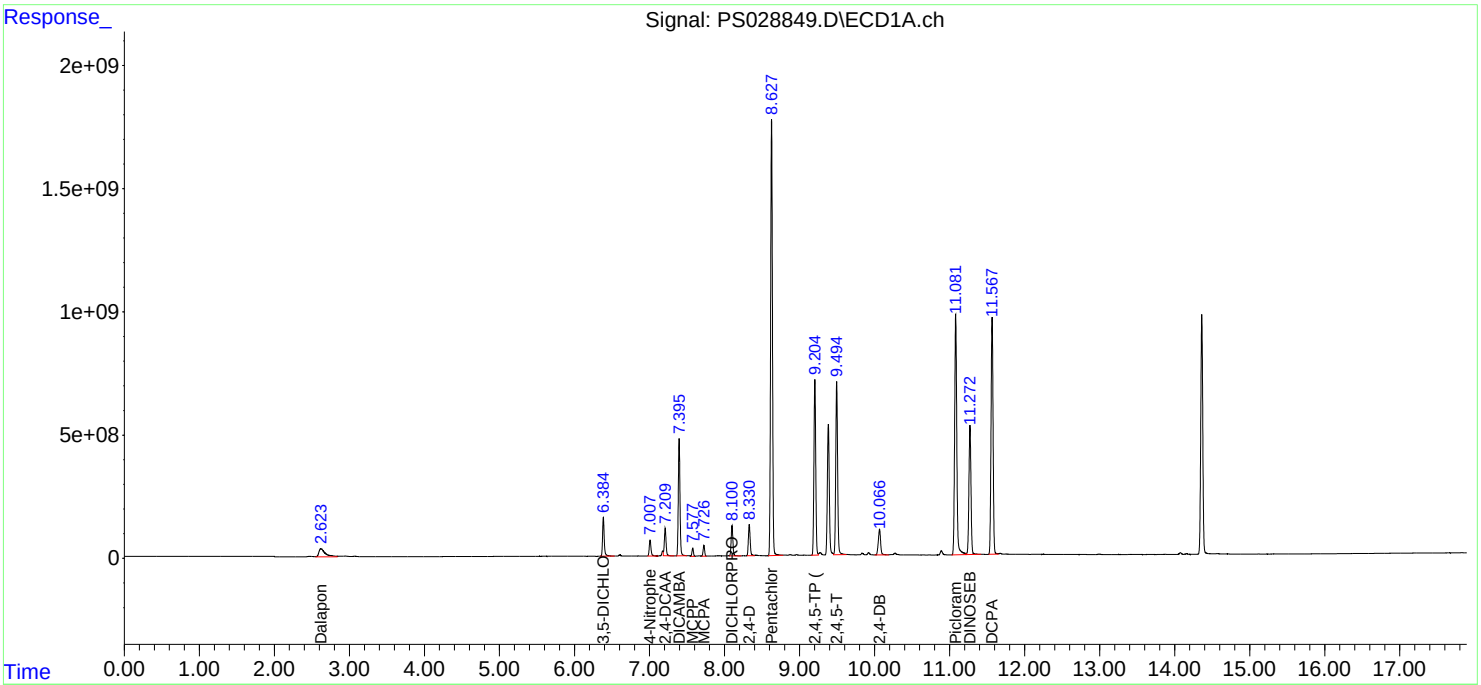
Sample Results: **PS028849.D**

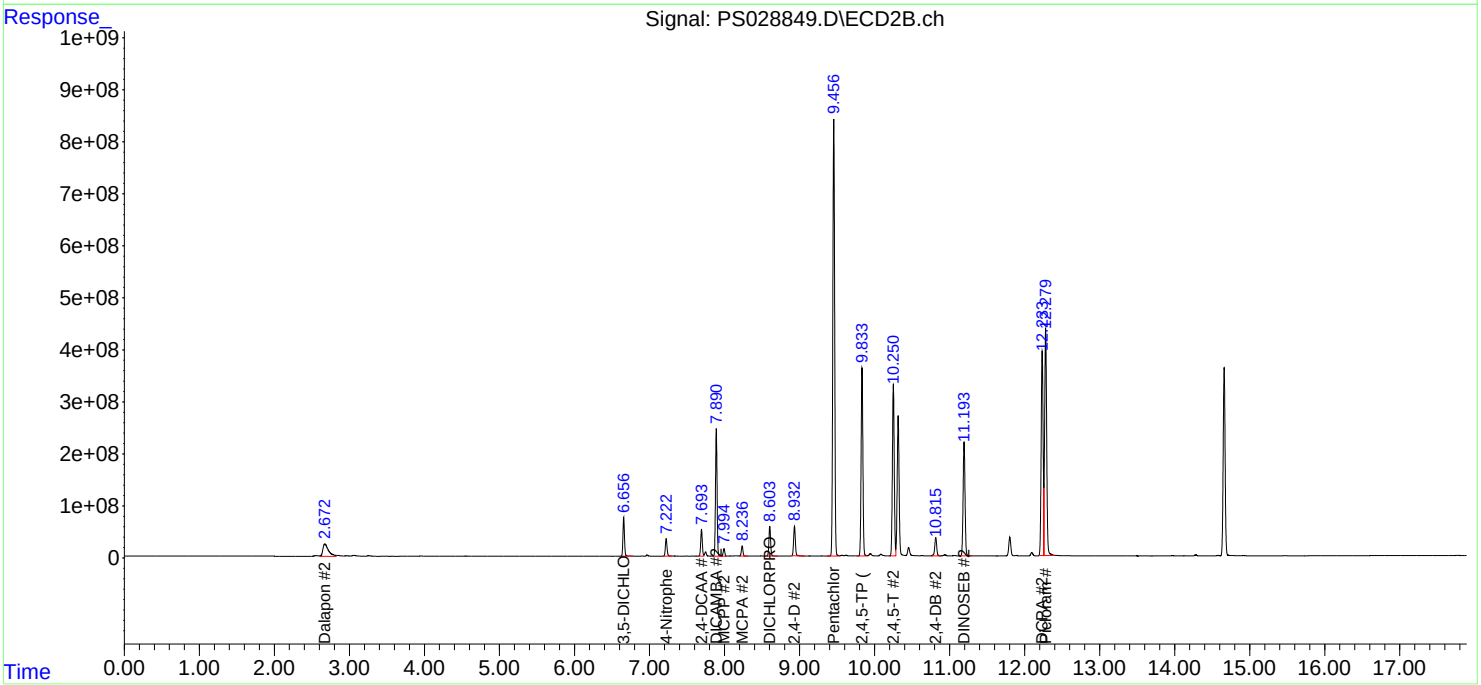
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028849.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:25
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

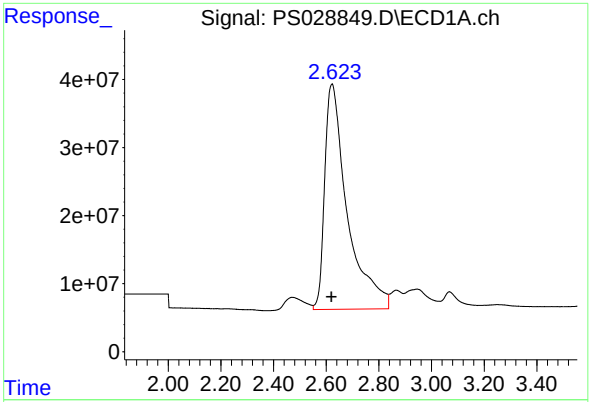
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



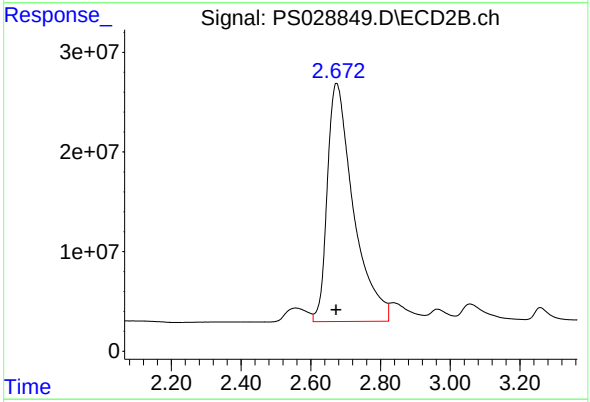




#1 Dalapon

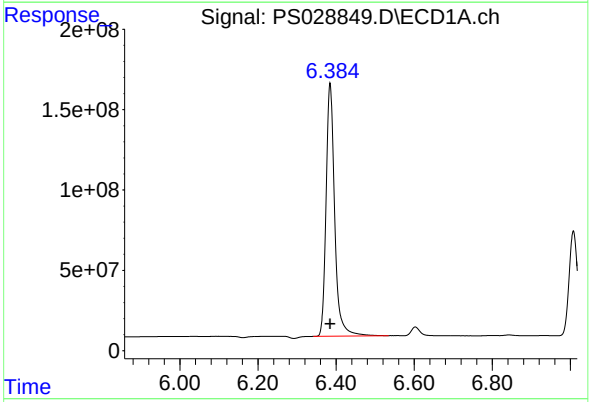
R.T.: 2.622 min
Delta R.T.: 0.002 min
Response: 1972199279
Conc: 700.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



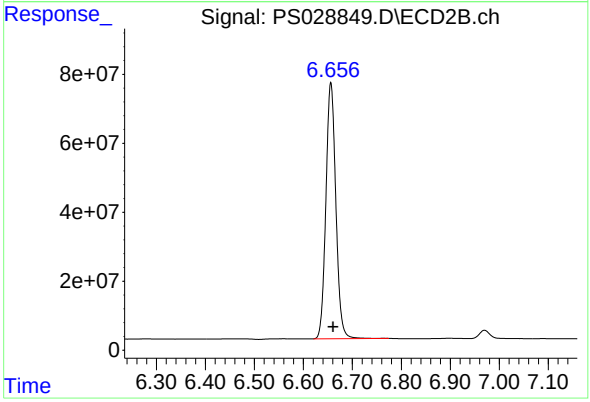
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 1240504295
Conc: 630.14 ng/ml



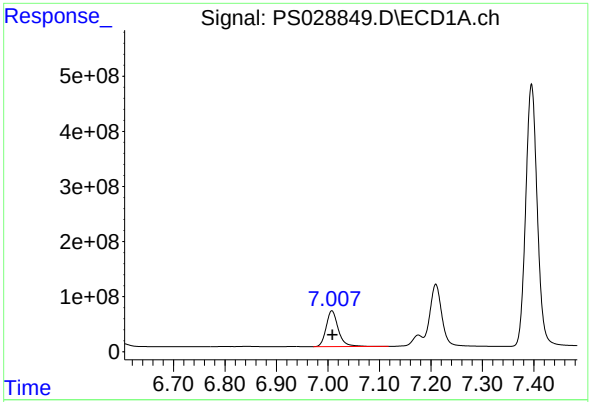
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2403674988
Conc: 729.46 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

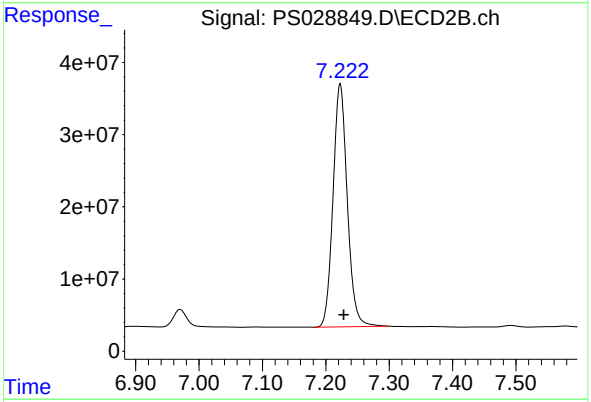
R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 1047405036
Conc: 631.89 ng/ml



#3 4-Nitrophenol

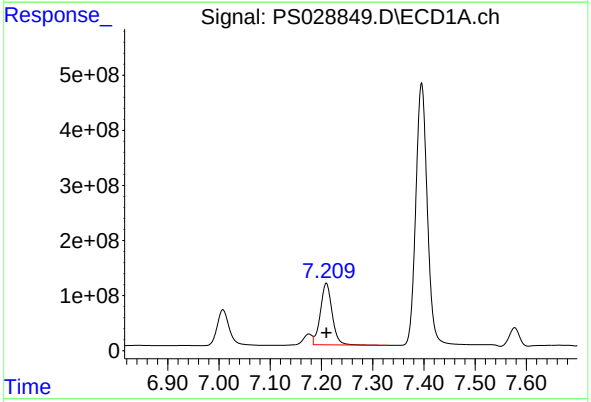
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1059850182
Conc: 705.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



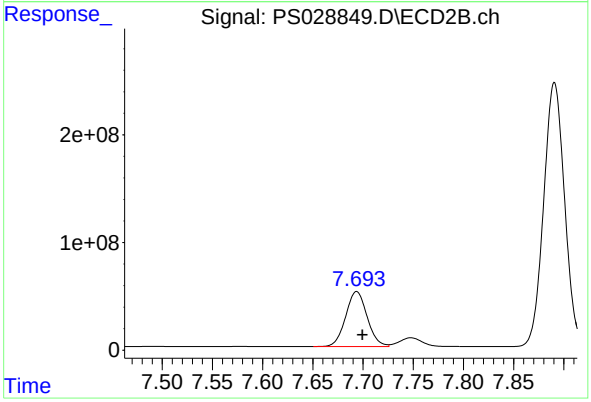
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.006 min
Response: 525695273
Conc: 628.15 ng/ml



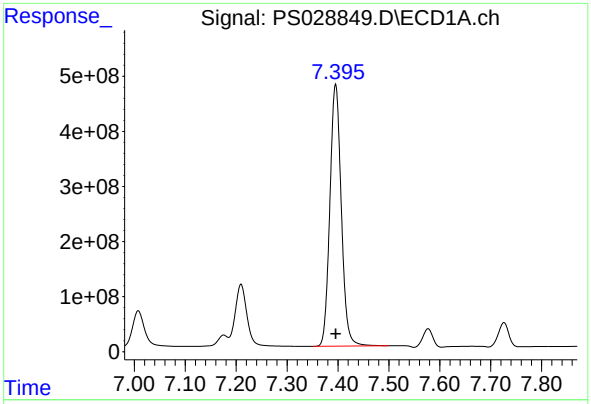
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1776132465
Conc: 785.20 ng/ml



#4 2,4-DCAA

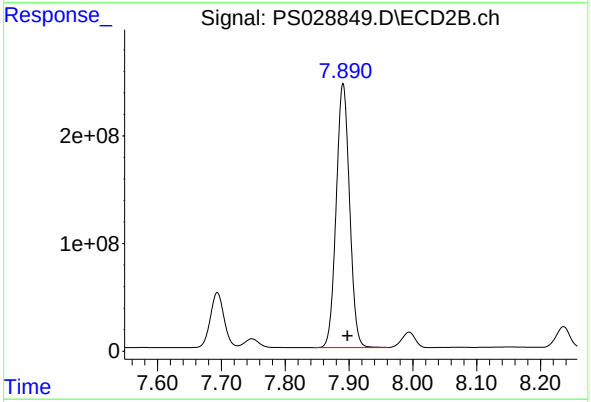
R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 760301002
Conc: 675.50 ng/ml



#5 DICAMBA

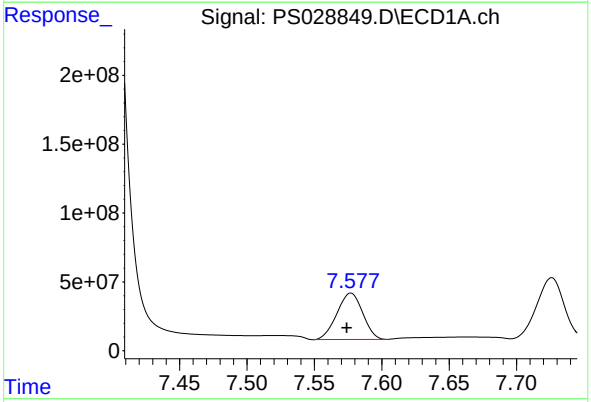
R.T.: 7.395 min
Delta R.T.: 0.000 min
Response: 7398596536
Conc: 750.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



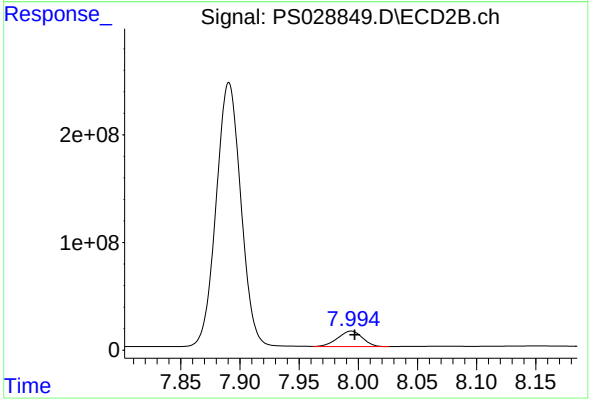
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.007 min
Response: 3566539962
Conc: 649.66 ng/ml



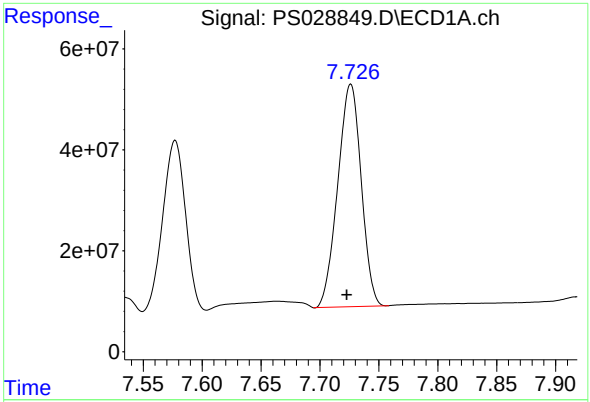
#6 MCPP

R.T.: 7.577 min
Delta R.T.: 0.003 min
Response: 448726942
Conc: 72.06 ug/ml



#6 MCPP

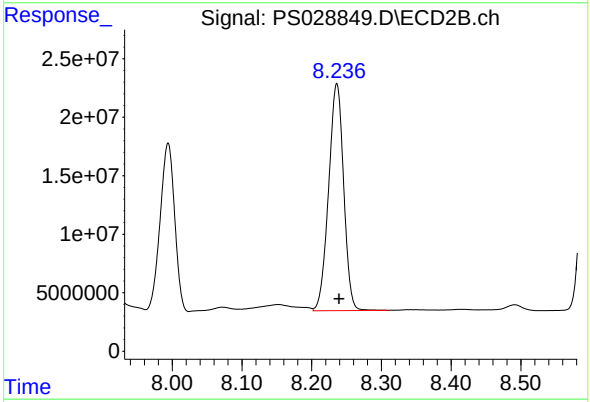
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208650295
Conc: 63.85 ug/ml



#7 MCPA

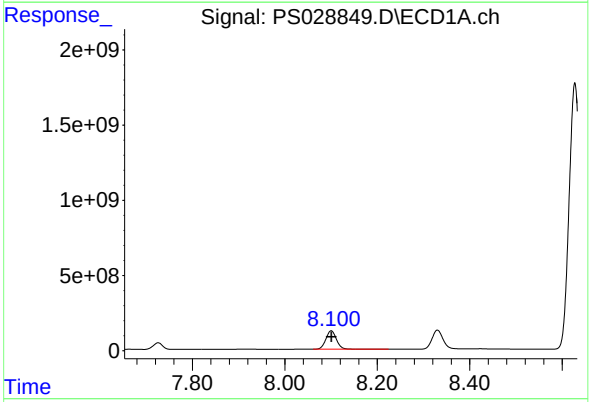
R.T.: 7.726 min
Delta R.T.: 0.003 min
Response: 610812451
Conc: 69.68 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



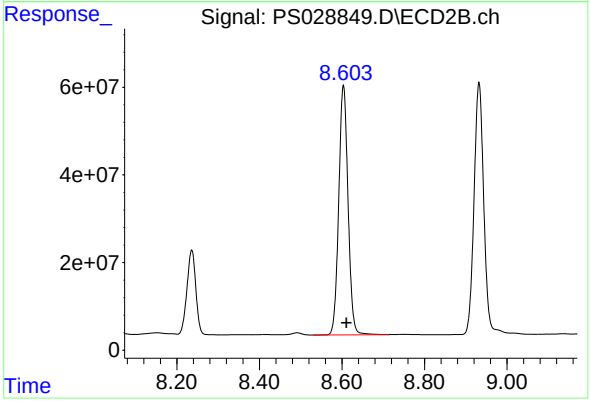
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 290469665
Conc: 62.70 ug/ml



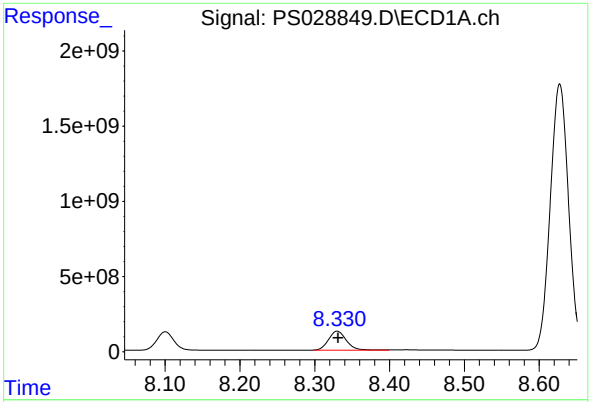
#8 DICHLORPROP

R.T.: 8.100 min
Delta R.T.: 0.000 min
Response: 1950067075
Conc: 734.99 ng/ml



#8 DICHLORPROP

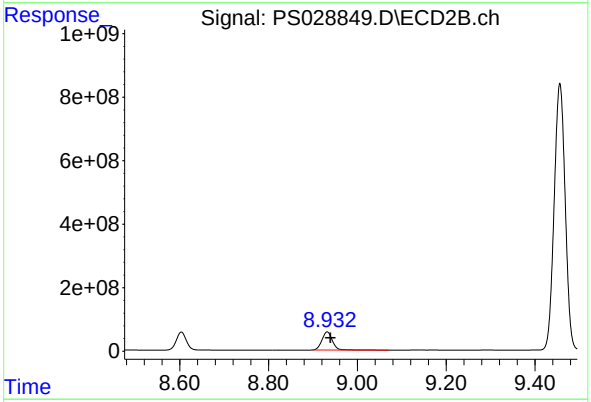
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 889376131
Conc: 644.64 ng/ml



#9 2,4-D

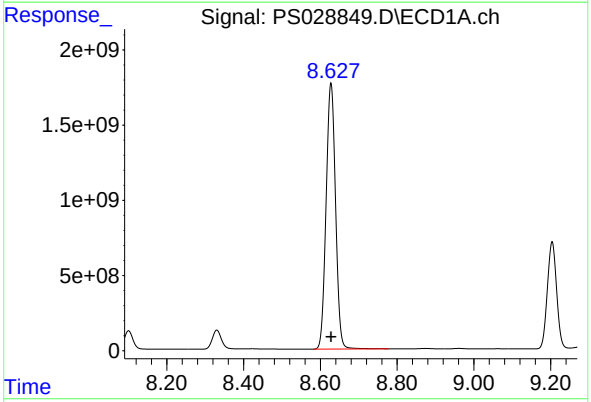
R.T.: 8.330 min
Delta R.T.: -0.001 min
Response: 2092218213
Conc: 734.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



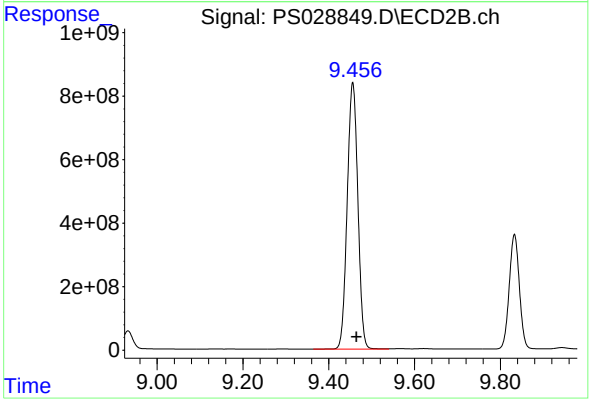
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 913250797
Conc: 632.82 ng/ml



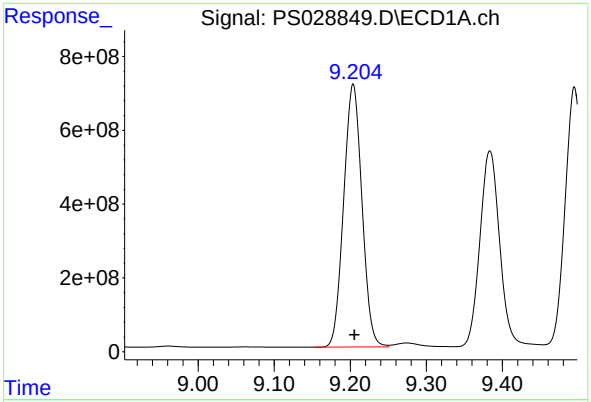
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: 0.000 min
Response: 30162694709
Conc: 772.08 ng/ml



#10 Pentachlorophenol

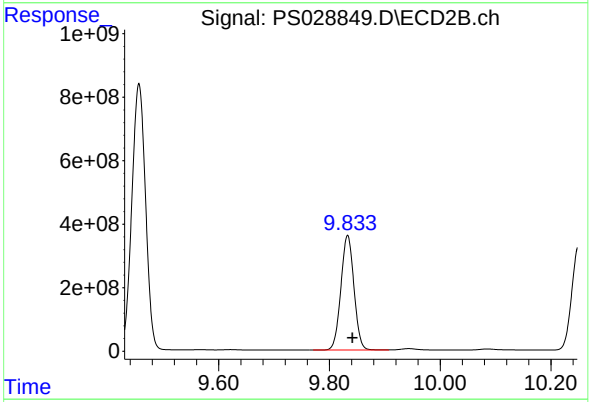
R.T.: 9.456 min
Delta R.T.: -0.008 min
Response: 14445645382
Conc: 662.68 ng/ml



#11 2,4,5-TP (SILVEX)

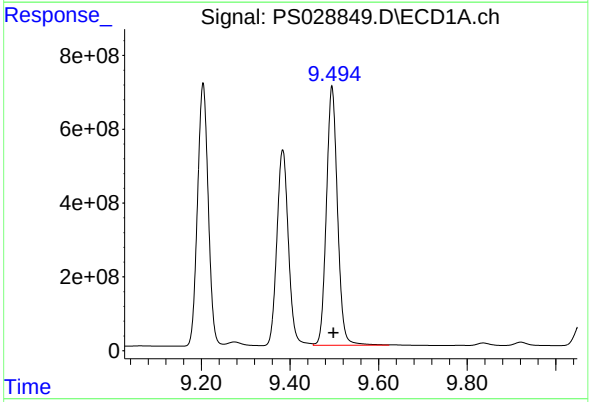
R.T.: 9.204 min
Delta R.T.: -0.002 min
Response: 11900669817
Conc: 757.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



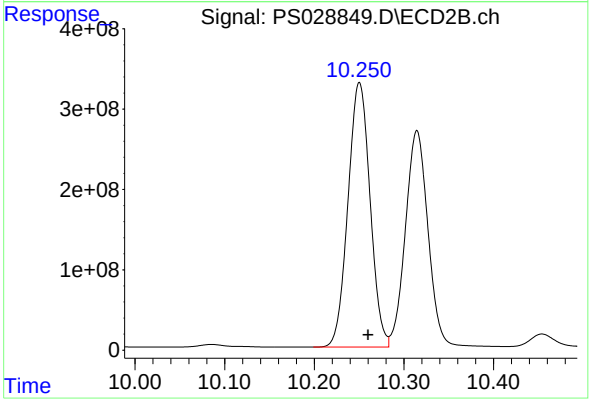
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5921180489
Conc: 659.12 ng/ml



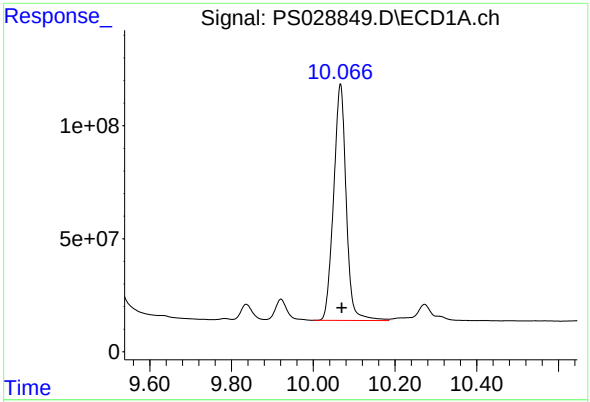
#12 2,4,5-T

R.T.: 9.495 min
Delta R.T.: -0.003 min
Response: 12202531756
Conc: 750.04 ng/ml



#12 2,4,5-T

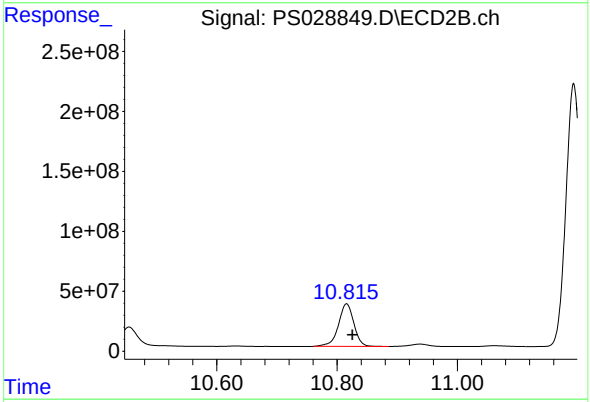
R.T.: 10.250 min
Delta R.T.: -0.009 min
Response: 5640619137
Conc: 647.66 ng/ml



#13 2,4-DB

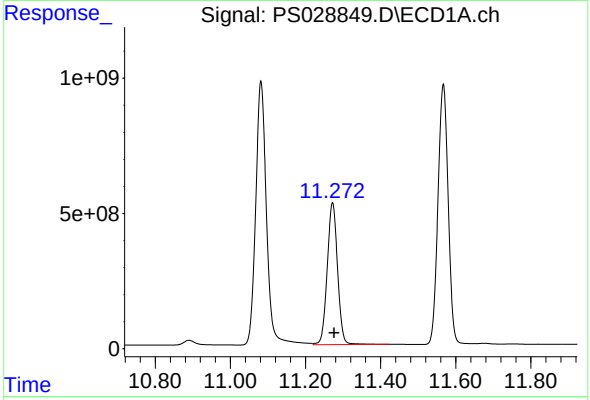
R.T.: 10.066 min
Delta R.T.: -0.003 min
Response: 2235645392
Conc: 716.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



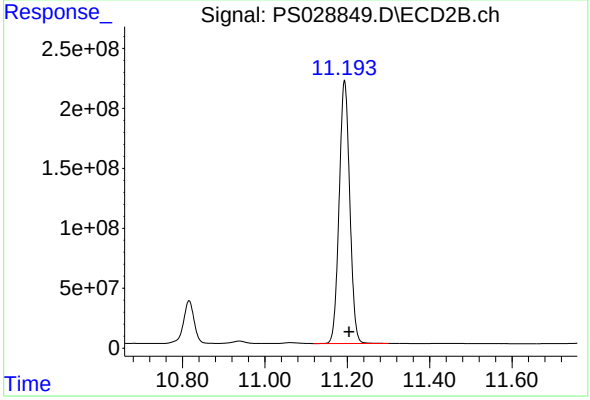
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 633024607
Conc: 651.87 ng/ml



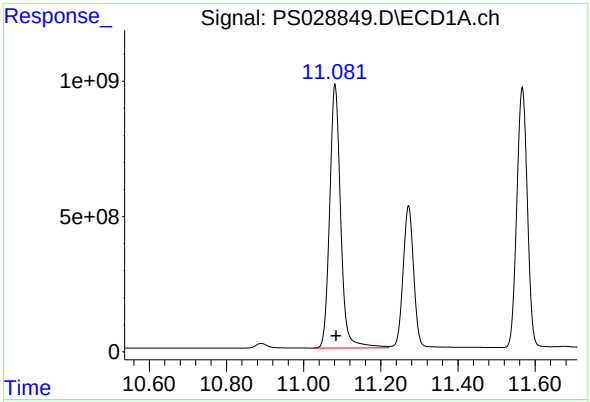
#14 DINOSEB

R.T.: 11.272 min
Delta R.T.: -0.004 min
Response: 10003886346
Conc: 744.24 ng/ml



#14 DINOSEB

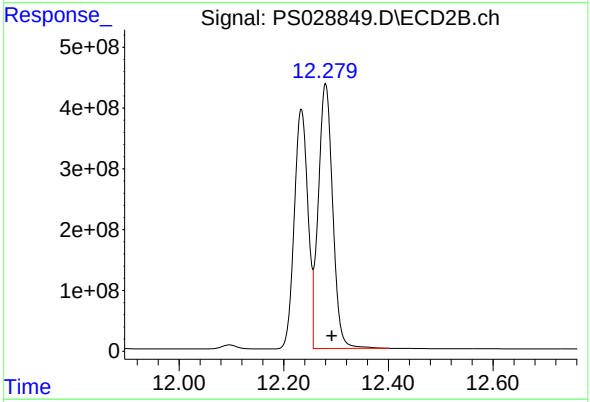
R.T.: 11.193 min
Delta R.T.: -0.011 min
Response: 3911035243
Conc: 635.00 ng/ml



#15 Picloram

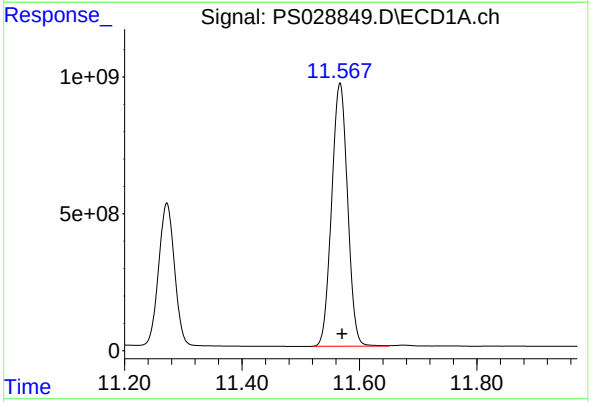
R.T.: 11.081 min
Delta R.T.: -0.003 min
Response: 19388856867
Conc: 723.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



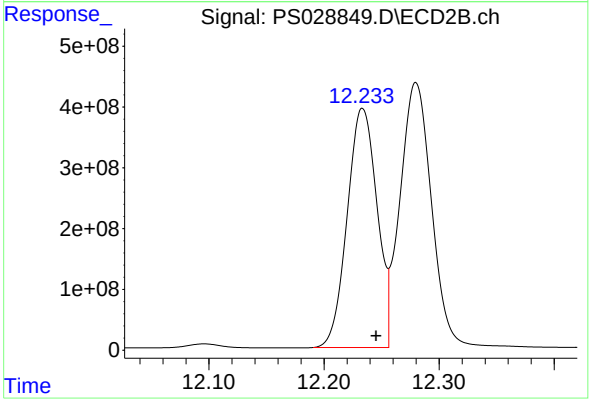
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8308282287
Conc: 647.11 ng/ml



#16 DCPA

R.T.: 11.567 min
Delta R.T.: -0.003 min
Response: 18085000385
Conc: 751.94 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.012 min
Response: 7119245043
Conc: 662.59 ng/ml

Raw Data: **PS028853.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/30/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 12:02 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028853.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/30/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 12:02 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028853.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 12/30/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028853.D **Time Analyzed:** 12:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.203	9.106	9.306	753.330	712.500	5.7
2,4-D	8.329	8.232	8.432	732.860	705.000	4.0
2,4-DCAA	7.209	7.110	7.310	778.690	750.000	3.8

Raw Data: **PS028853.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL04 **Date Analyzed:** 12/30/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028853.D **Time Analyzed:** 12:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.833	9.742	9.942	662.660	712.500	-7.0
2,4-D	8.932	8.840	9.040	630.920	705.000	-10.5
2,4-DCAA	7.694	7.600	7.800	679.980	750.000	-9.3

Sample Results: **PS028853.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.209	7.694	1761.4E6	765.3E6	778.693	679.982
		Target Compounds						
1)	T	Dalapon	2.621	2.675	1947.2E6	1232.9E6	691.328	626.289
2)	T	3,5-DICHL...	6.384	6.657	2402.1E6	1052.5E6	728.987	634.990
3)	T	4-Nitroph...	7.007	7.223	1056.3E6	527.4E6	703.263	630.156
5)	T	DICAMBA	7.395	7.891	7360.7E6	3585.6E6	746.476	653.137
6)	T	MCPP	7.576	7.994	448.6E6	208.5E6	72.034	63.801
7)	T	MCPA	7.725	8.237	610.7E6	290.3E6	69.671	62.656
8)	T	DICHLORPROP	8.099	8.604	1948.4E6	901.0E6	734.362	653.056
9)	T	2,4-D	8.329	8.932	2088.3E6	910.5E6	732.861	630.920
10)	T	Pentachlo...	8.627	9.457	30059.4E6	14543.3E6	769.433	667.164
11)	T	2,4,5-TP ...	9.203	9.833	11834.3E6	5953.0E6	753.329	662.657
12)	T	2,4,5-T	9.494	10.251	12141.2E6	5682.5E6	746.270	652.471
13)	T	2,4-DB	10.065	10.816	2228.8E6	634.4E6	713.991	653.250
14)	T	DINOSEB	11.271	11.194	9935.2E6	3920.4E6	739.129	636.520
15)	T	Picloram	11.081	12.280	19154.3E6	8261.6E6	714.372	643.479
16)	T	DCPA	11.566	12.234	18046.4E6	7168.6E6	750.340m	667.183

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

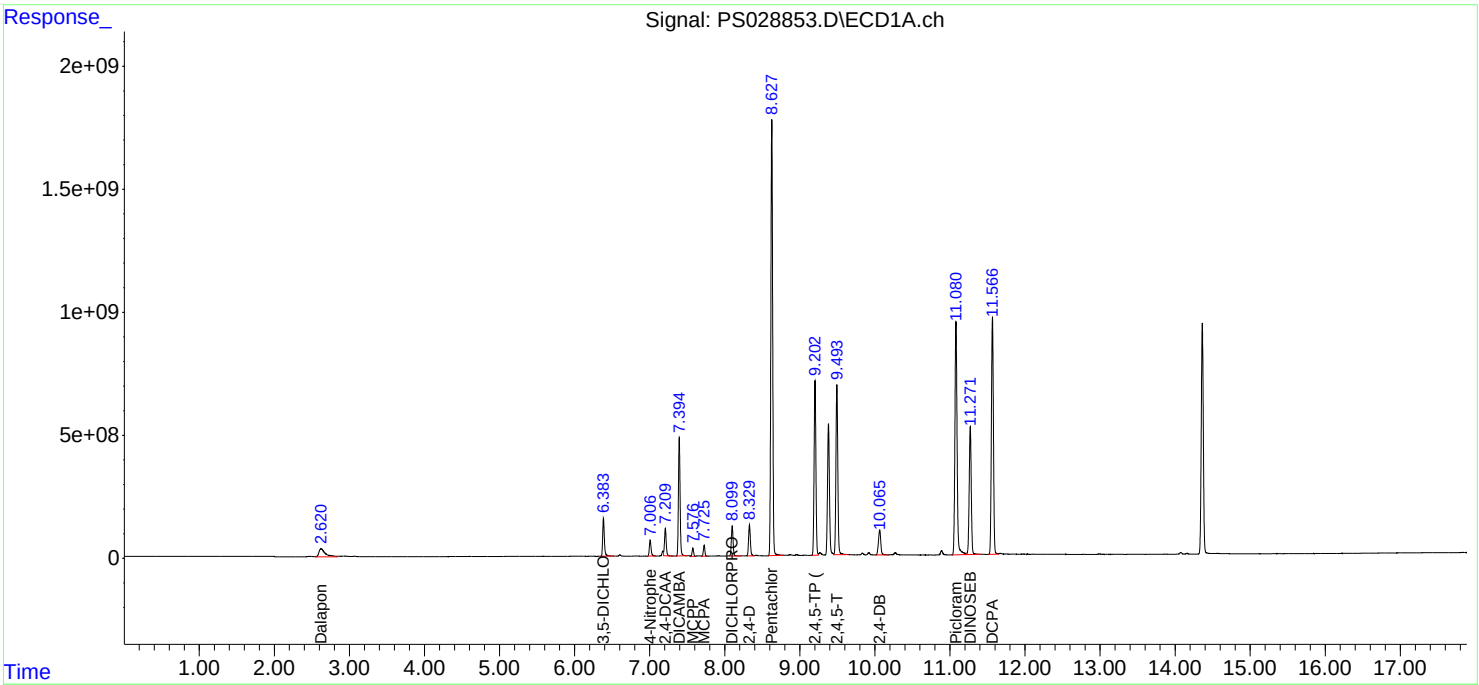
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

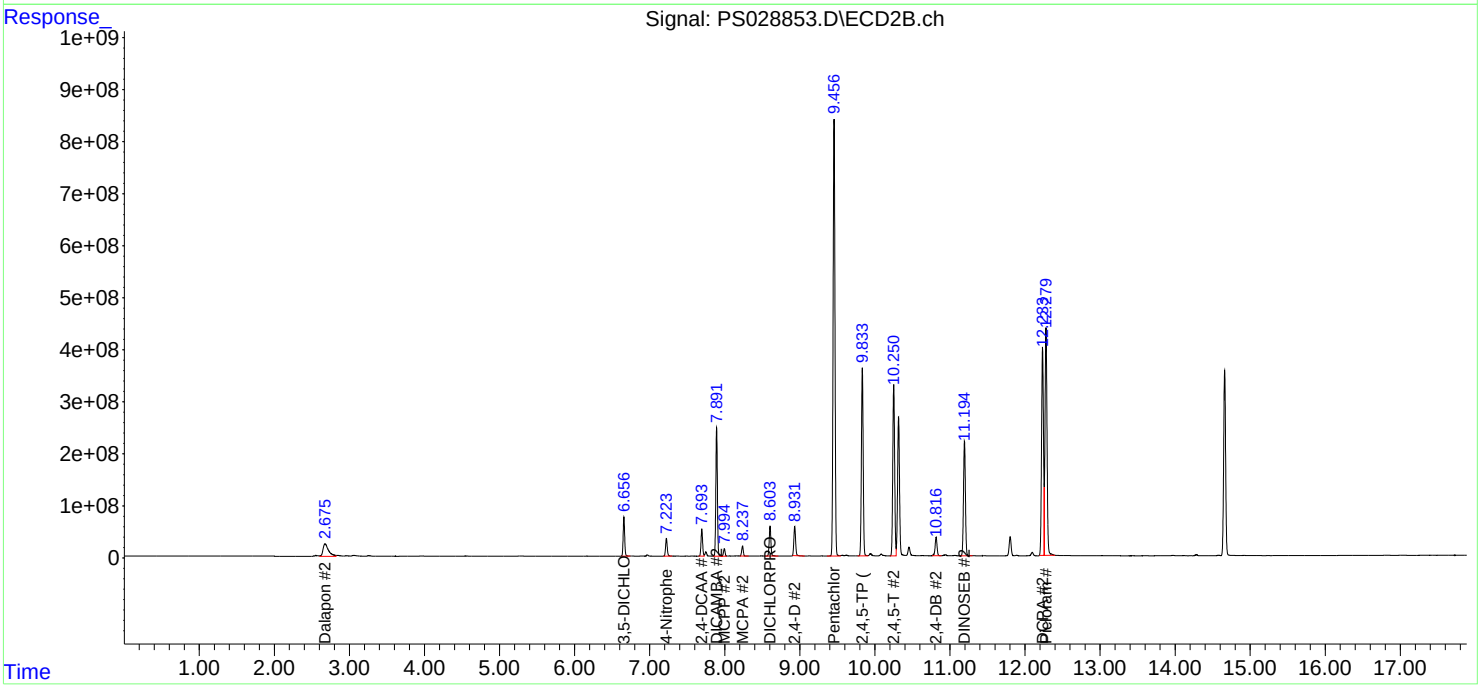
Manual Integrations APPROVED

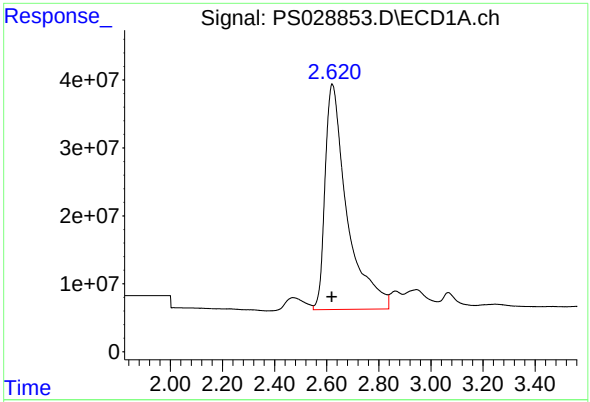
Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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







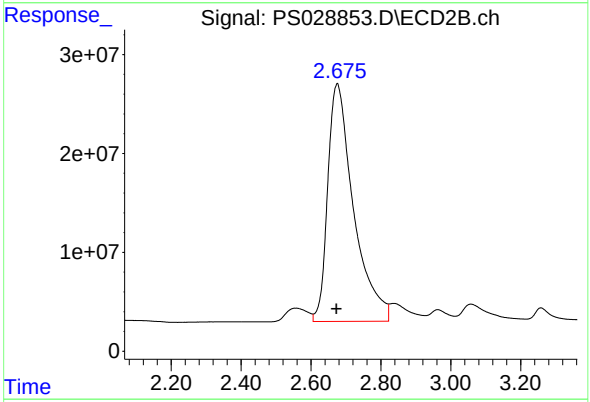
#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1947228944
Conc: 691.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

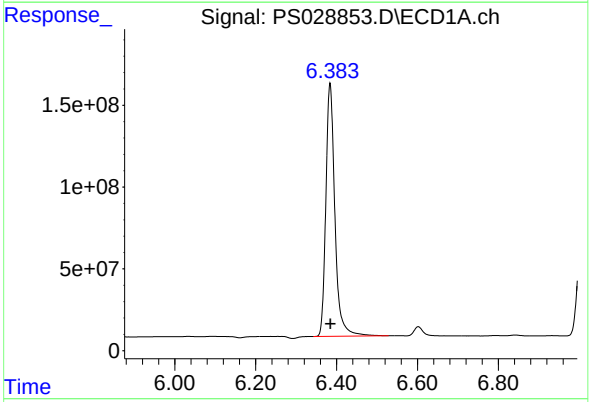
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



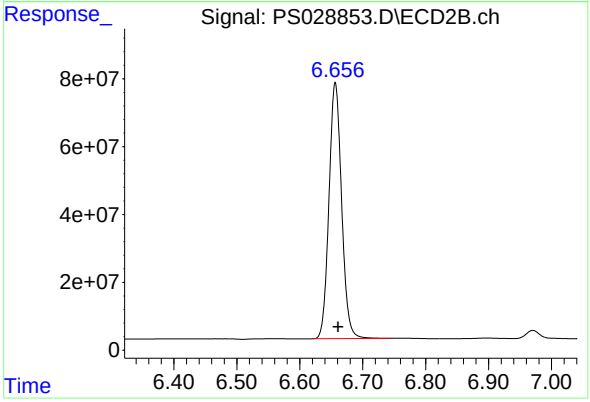
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.003 min
Response: 1232913611
Conc: 626.29 ng/ml



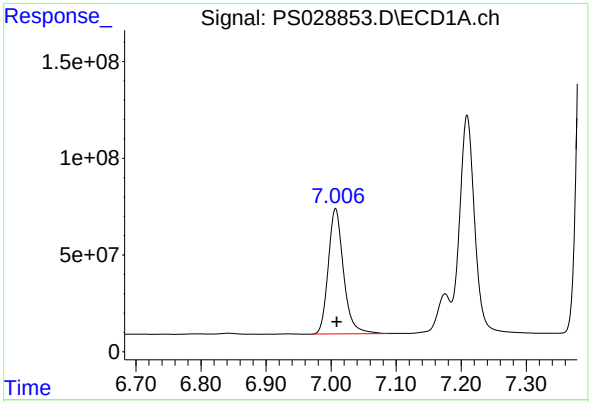
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 2402109302
Conc: 728.99 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 1052542673
Conc: 634.99 ng/ml



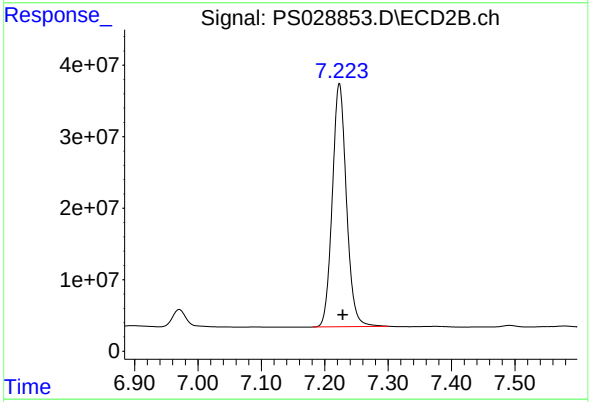
#3 4-Nitrophenol

R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 1056342376
Conc: 703.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

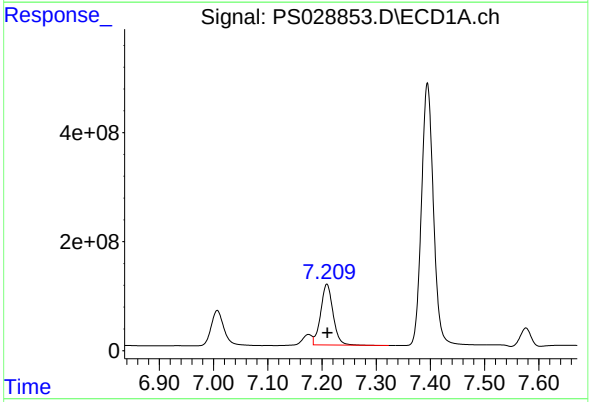
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



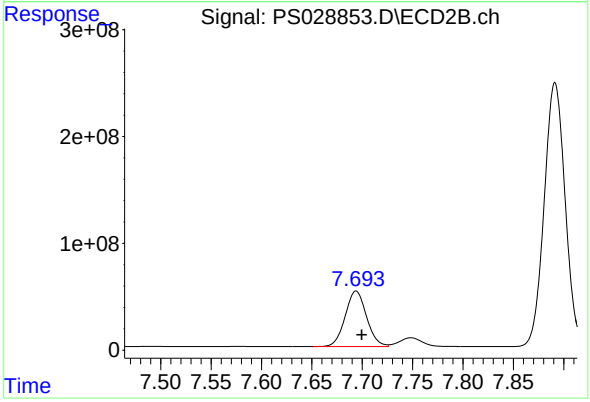
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 527373642
Conc: 630.16 ng/ml



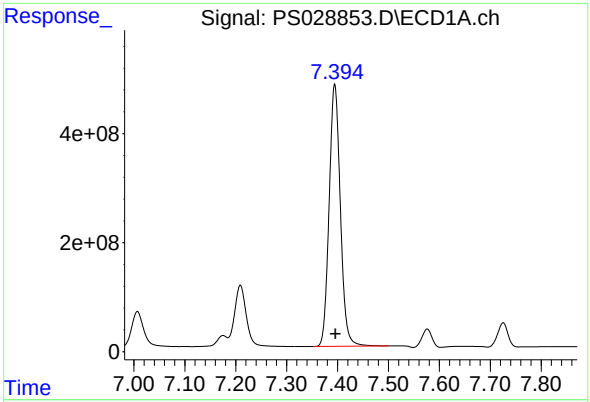
#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1761424469
Conc: 778.69 ng/ml



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 765345315
Conc: 679.98 ng/ml



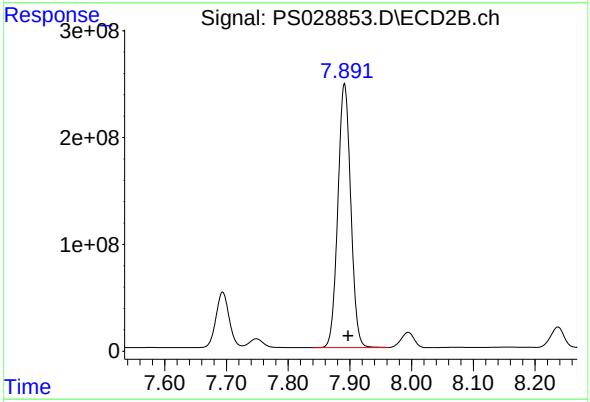
#5 DICAMBA

R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 7360734749
Conc: 746.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

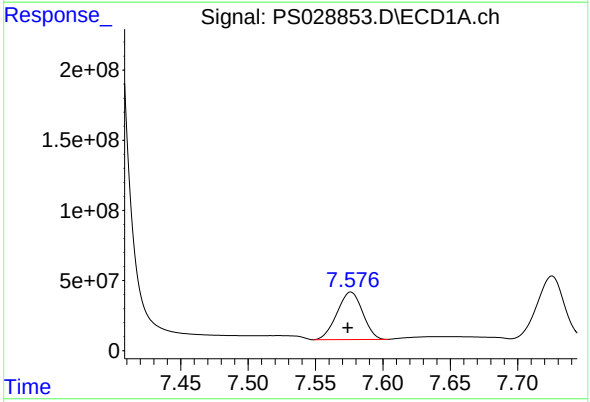
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



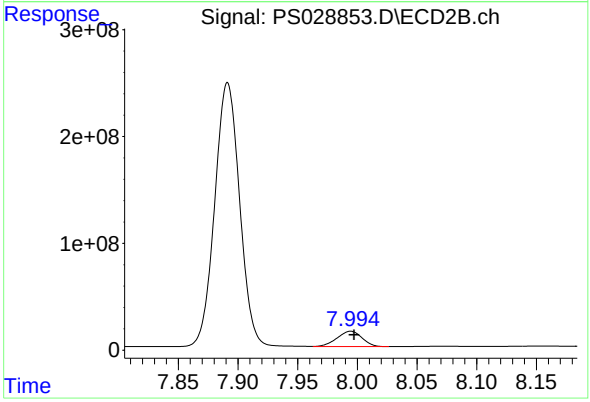
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3585639545
Conc: 653.14 ng/ml



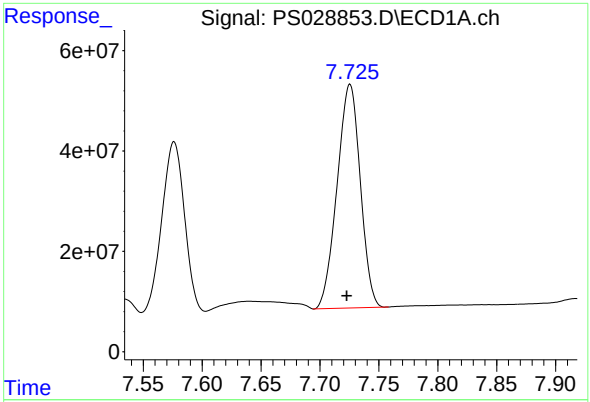
#6 MCPP

R.T.: 7.576 min
Delta R.T.: 0.002 min
Response: 448568724
Conc: 72.03 ug/ml



#6 MCPP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208487575
Conc: 63.80 ug/ml



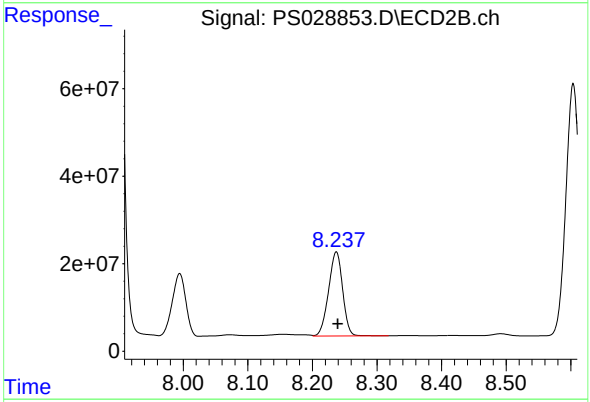
#7 MCPA

R.T.: 7.725 min
Delta R.T.: 0.003 min
Response: 610700824
Conc: 69.67 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

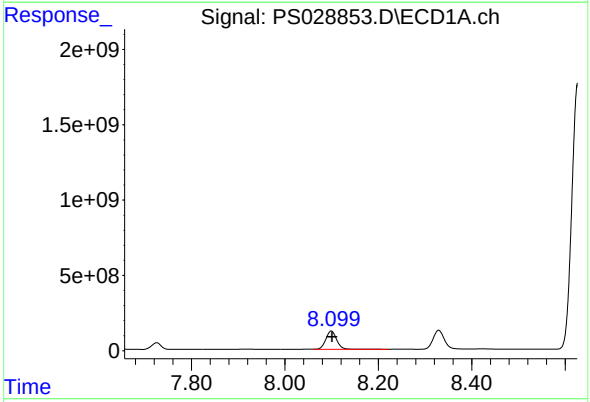
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



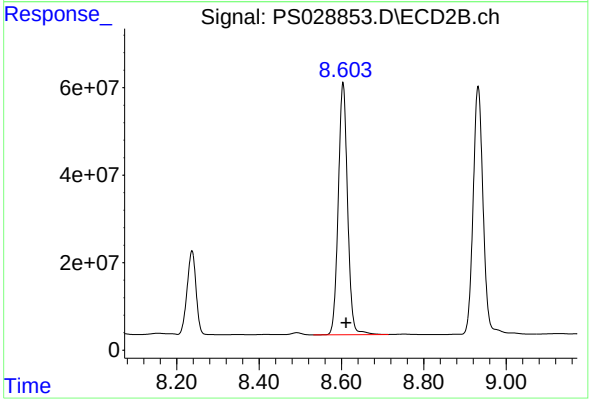
#7 MCPA

R.T.: 8.237 min
Delta R.T.: -0.002 min
Response: 290278880
Conc: 62.66 ug/ml



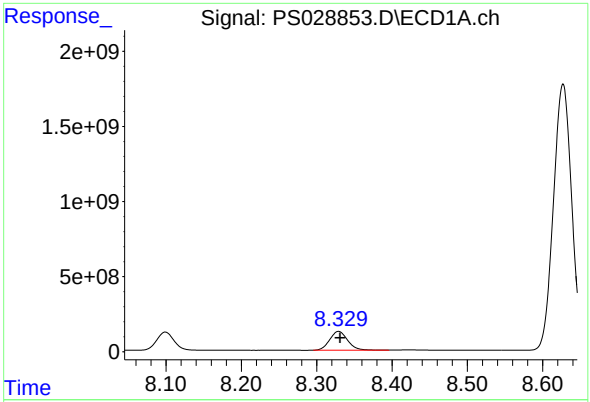
#8 DICHLORPROP

R.T.: 8.099 min
Delta R.T.: -0.002 min
Response: 1948390905
Conc: 734.36 ng/ml



#8 DICHLORPROP

R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 900994262
Conc: 653.06 ng/ml



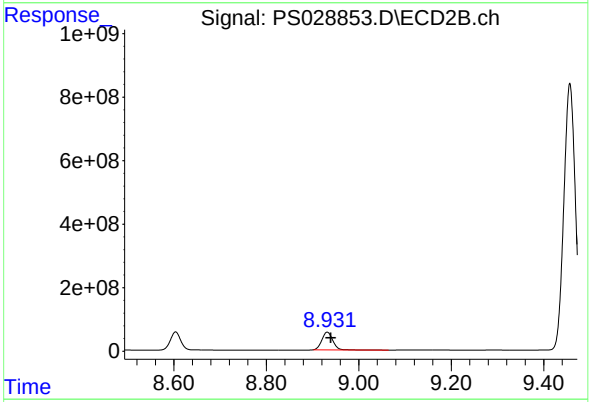
#9 2,4-D

R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 2088311006
Conc: 732.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

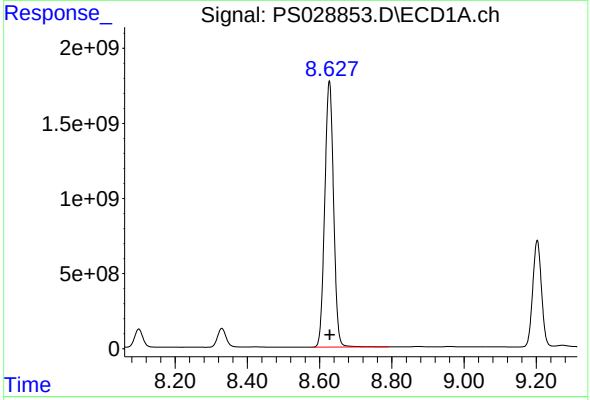
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



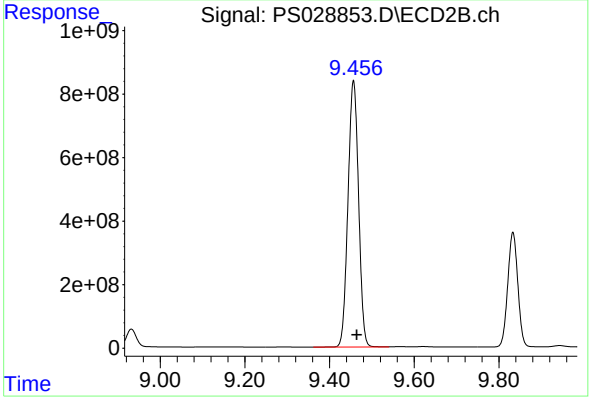
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 910508990
Conc: 630.92 ng/ml



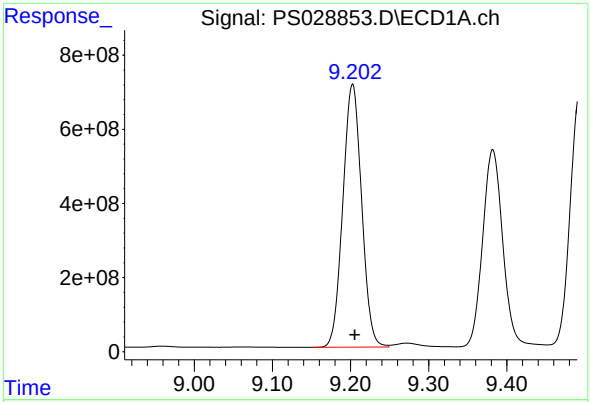
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.001 min
Response: 30059430980
Conc: 769.43 ng/ml



#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.008 min
Response: 14543319054
Conc: 667.16 ng/ml



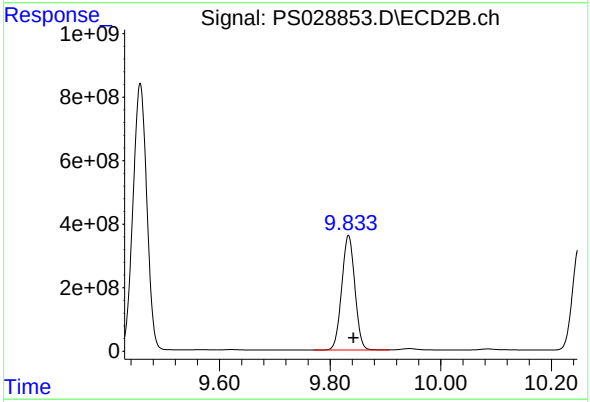
#11 2,4,5-TP (SILVEX)

R.T.: 9.203 min
Delta R.T.: -0.003 min
Response: 11834288290
Conc: 753.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

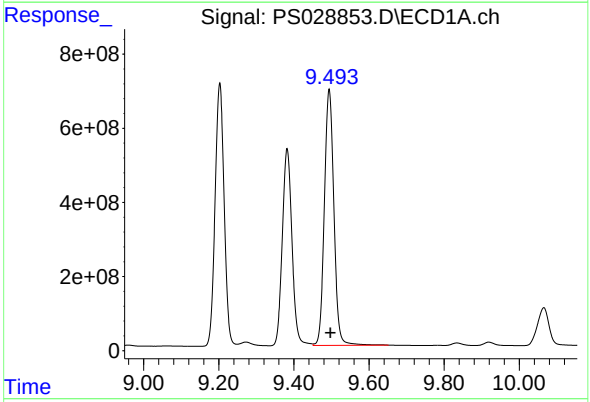
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



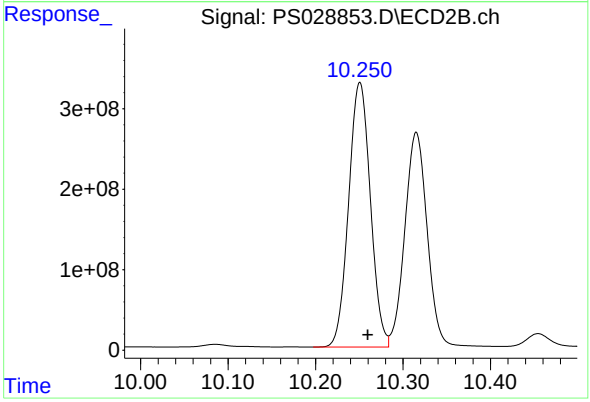
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5952987470
Conc: 662.66 ng/ml



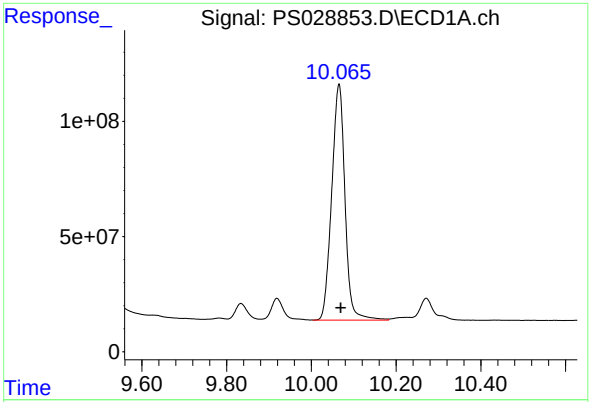
#12 2,4,5-T

R.T.: 9.494 min
Delta R.T.: -0.004 min
Response: 12141203726
Conc: 746.27 ng/ml



#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 5682486629
Conc: 652.47 ng/ml



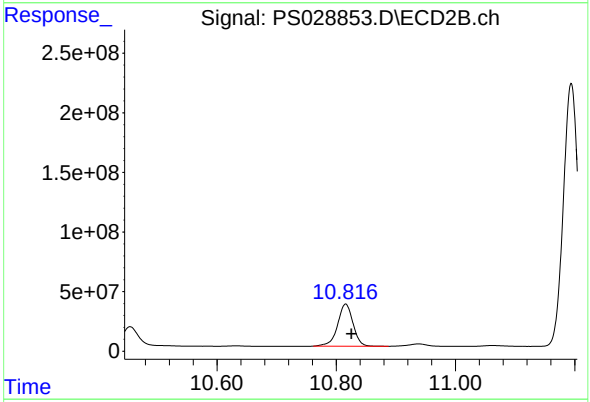
#13 2,4-DB

R.T.: 10.065 min
Delta R.T.: -0.004 min
Response: 2228792066
Conc: 713.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

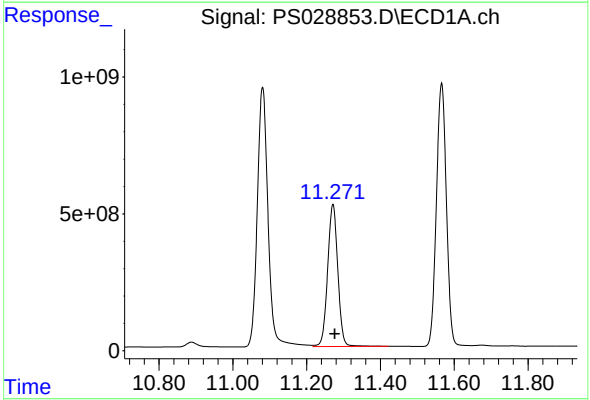
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



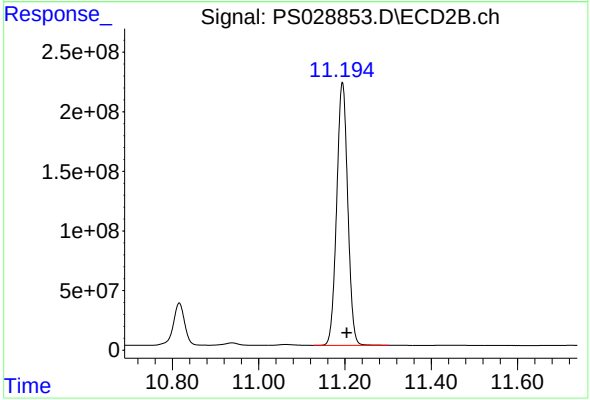
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 634369856
Conc: 653.25 ng/ml



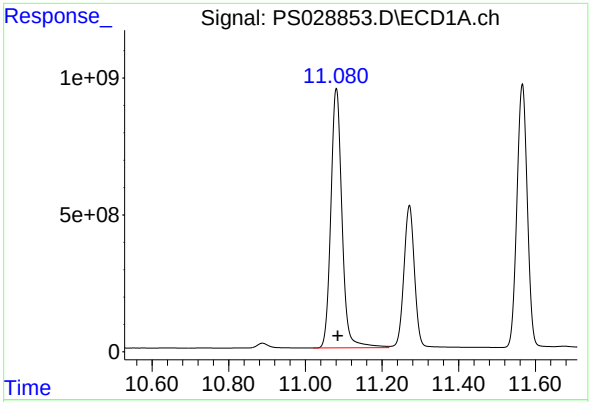
#14 DINOSEB

R.T.: 11.271 min
Delta R.T.: -0.005 min
Response: 9935171683
Conc: 739.13 ng/ml



#14 DINOSEB

R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 3920417502
Conc: 636.52 ng/ml



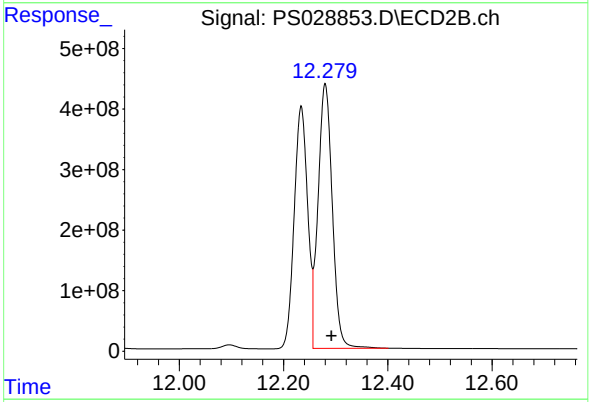
#15 Picloram

R.T.: 11.081 min
Delta R.T.: -0.004 min
Response: 19154286656
Conc: 714.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

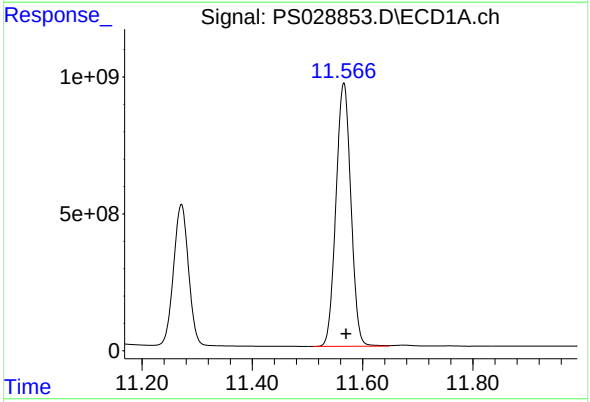
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/31/2024
Supervised By :Ankita Jodhani 12/31/2024



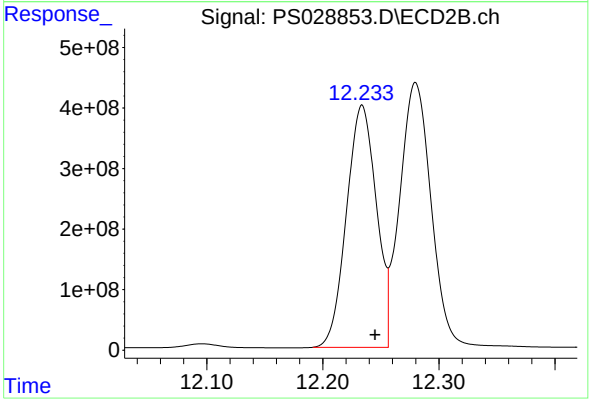
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8261640955
Conc: 643.48 ng/ml



#16 DCPA

R.T.: 11.566 min
Delta R.T.: -0.004 min
Response: 18046449696
Conc: 750.34 ng/ml m



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 7168597046
Conc: 667.18 ng/ml

Raw Data: **PS028862.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/31/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 08:59 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028862.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/31/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 08:59 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028862.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL05 **Date Analyzed:** 12/31/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028862.D **Time Analyzed:** 08:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.201	9.106	9.306	765.240	712.500	7.4
2,4-D	8.327	8.232	8.432	742.010	705.000	5.2
2,4-DCAA	7.207	7.110	7.310	790.330	750.000	5.4

Raw Data: **PS028862.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL05 **Date Analyzed:** 12/31/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028862.D **Time Analyzed:** 08:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.828	9.742	9.942	678.000	712.500	-4.8
2,4-D	8.928	8.840	9.040	660.870	705.000	-6.3
2,4-DCAA	7.690	7.600	7.800	691.610	750.000	-7.8

Sample Results: **PS028862.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028862.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:59
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.207	7.690	1787.7E6	778.4E6	790.328m	691.612
	Target Compounds						
1) T	Dalapon	2.620	2.672	1939.8E6	1304.7E6	688.705	662.780
2) T	3,5-DICHL...	6.383	6.653	2439.0E6	1071.1E6	740.194	646.181
3) T	4-Nitroph...	7.006	7.219	1060.8E6	530.3E6	706.227	633.597
5) T	DICAMBA	7.393	7.887	7469.3E6	3669.1E6	757.487	668.348
6) T	MCPP	7.575	7.991	460.9E6	214.4E6	74.007	65.624
7) T	MCPA	7.724	8.233	627.0E6	297.7E6	71.533	64.253
8) T	DICHLORPROP	8.098	8.600	1973.8E6	916.2E6	743.937	664.047
9) T	2,4-D	8.327	8.928	2114.4E6	953.7E6	742.006m	660.874m
10) T	Pentachlo...	8.624	9.452	30444.1E6	14903.4E6	779.278	683.683
11) T	2,4,5-TP ...	9.201	9.828	12021.4E6	6090.8E6	765.243	677.996
12) T	2,4,5-T	9.493	10.246	12262.5E6	5794.2E6	753.725	665.298
13) T	2,4-DB	10.063	10.811	2237.7E6	639.7E6	716.851	658.688
14) T	DINOSEB	11.268	11.189	9950.1E6	3955.8E6	740.241	642.256
15) T	Picloram	11.079	12.274	19443.5E6	8346.8E6	725.159	650.113
16) T	DCPA	11.563	12.228	18209.2E6	7336.4E6	757.108	682.802m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028862.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:59
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

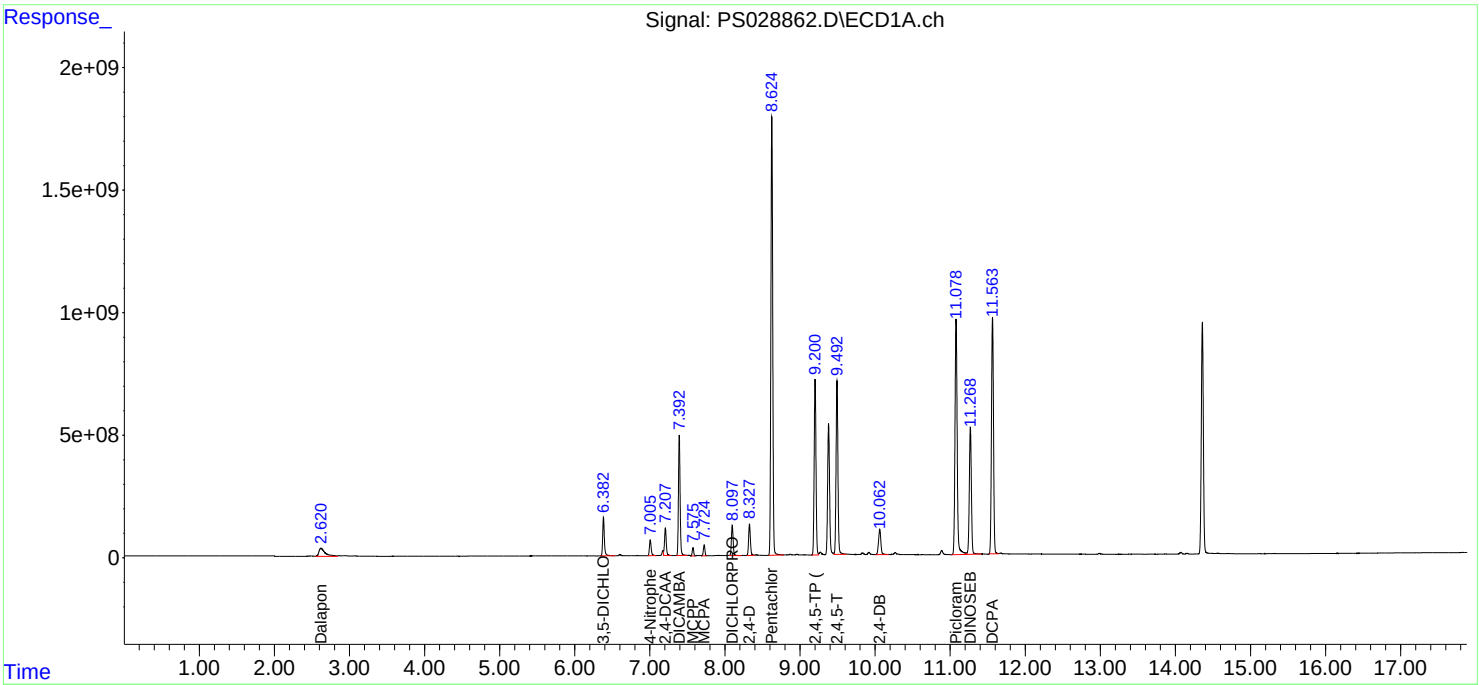
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

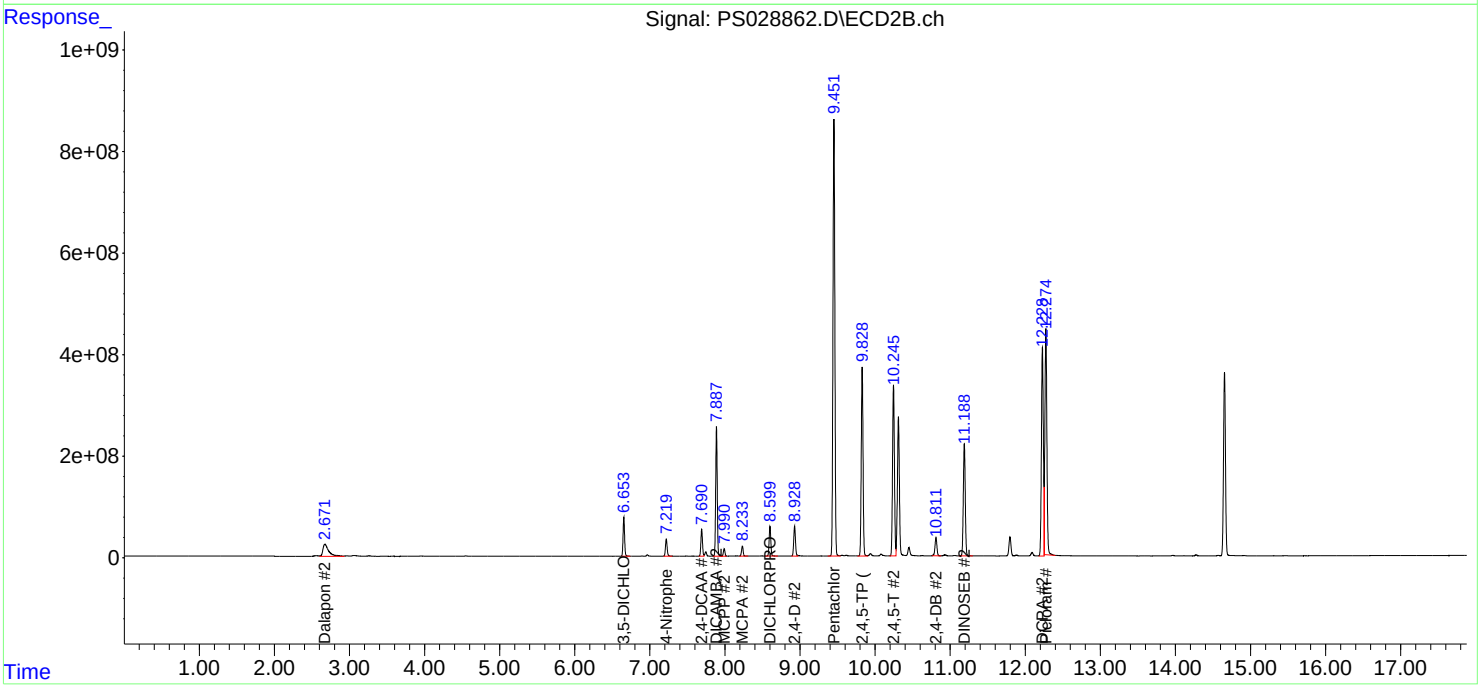
Manual Integrations APPROVED

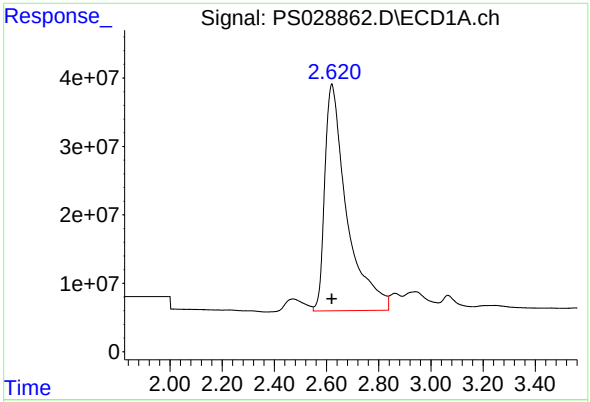
Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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







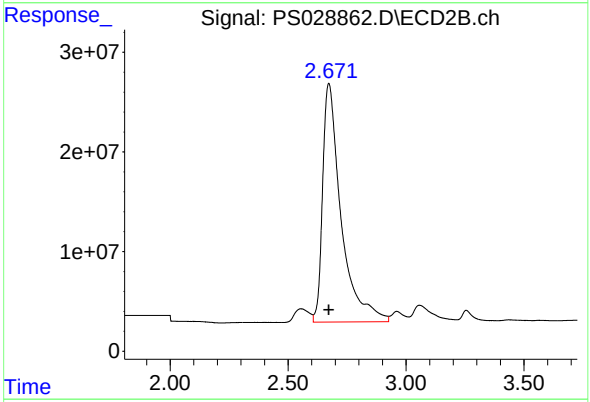
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1939842265
Conc: 688.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

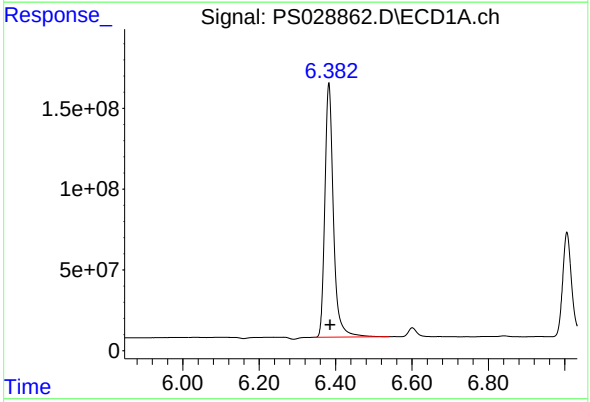
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



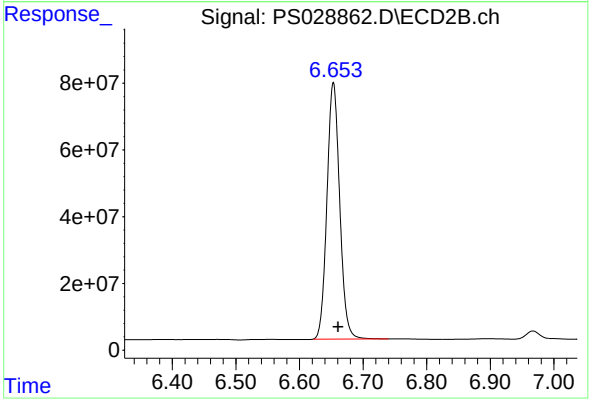
#1 Dalapon

R.T.: 2.672 min
Delta R.T.: 0.000 min
Response: 1304749753
Conc: 662.78 ng/ml



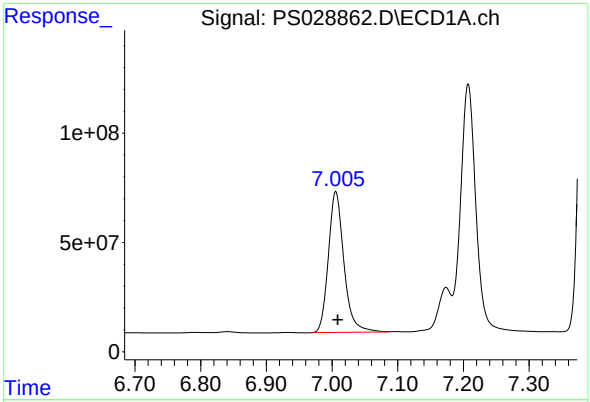
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.003 min
Response: 2439039424
Conc: 740.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.653 min
Delta R.T.: -0.007 min
Response: 1071092848
Conc: 646.18 ng/ml



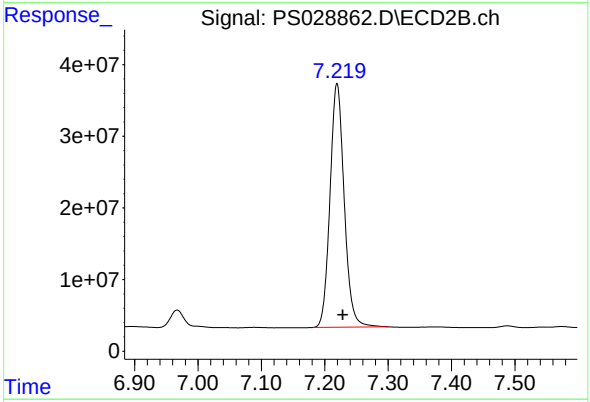
#3 4-Nitrophenol

R.T.: 7.006 min
Delta R.T.: -0.003 min
Response: 1060794537
Conc: 706.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

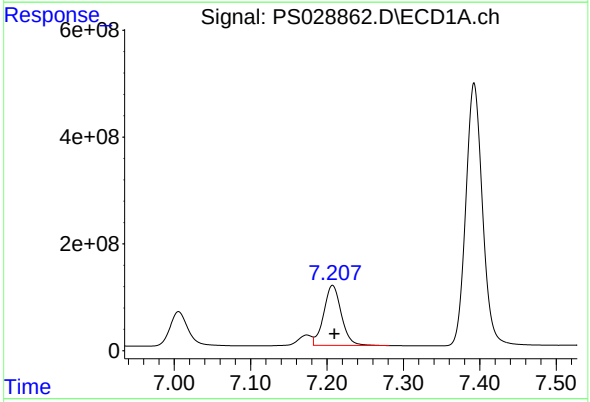
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



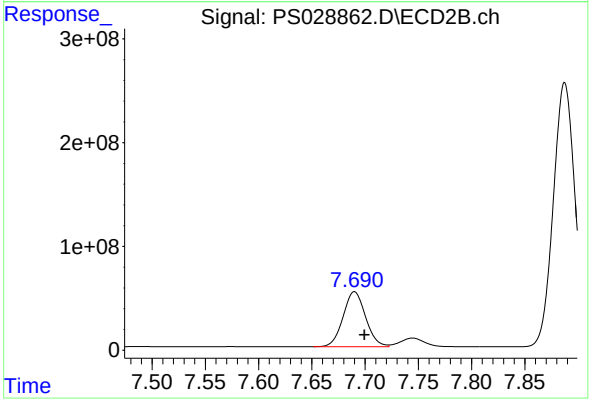
#3 4-Nitrophenol

R.T.: 7.219 min
Delta R.T.: -0.009 min
Response: 530252737
Conc: 633.60 ng/ml



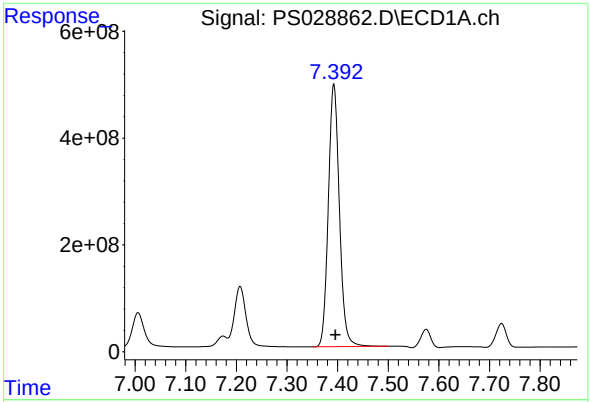
#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1787742120
Conc: 790.33 ng/ml m



#4 2,4-DCAA

R.T.: 7.690 min
Delta R.T.: -0.009 min
Response: 778435113
Conc: 691.61 ng/ml



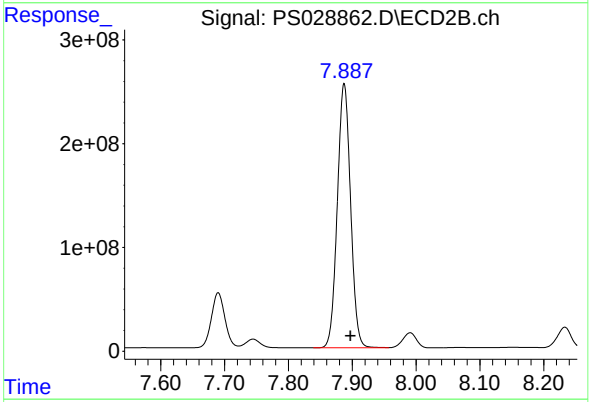
#5 DICAMBA

R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7469312380
Conc: 757.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

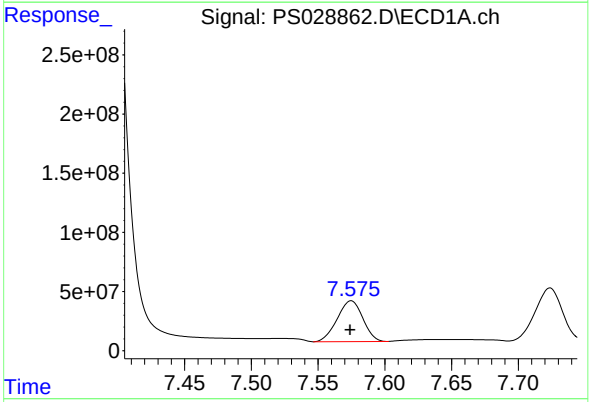
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



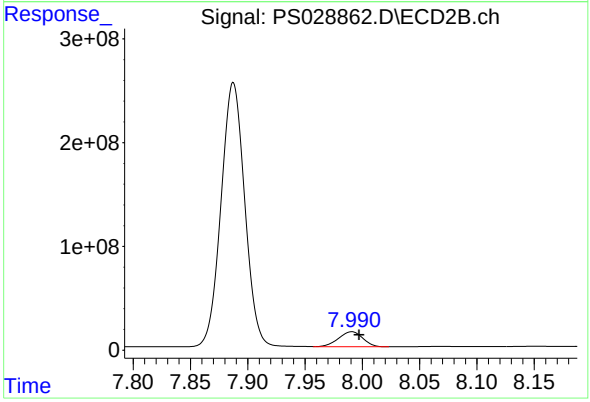
#5 DICAMBA

R.T.: 7.887 min
Delta R.T.: -0.010 min
Response: 3669143340
Conc: 668.35 ng/ml



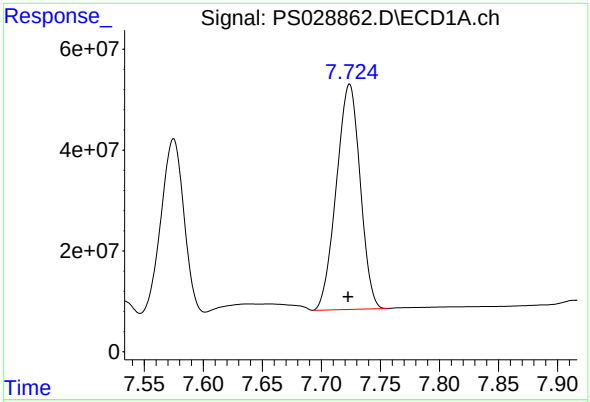
#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 460855538
Conc: 74.01 ug/ml



#6 MCPP

R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 214445806
Conc: 65.62 ug/ml



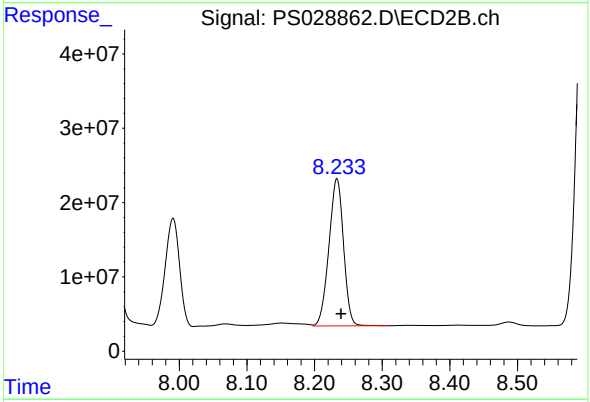
#7 MCPA

R.T.: 7.724 min
Delta R.T.: 0.001 min
Response: 627020138
Conc: 71.53 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

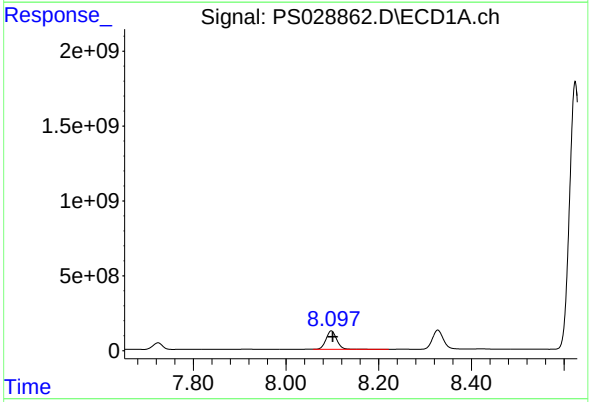
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



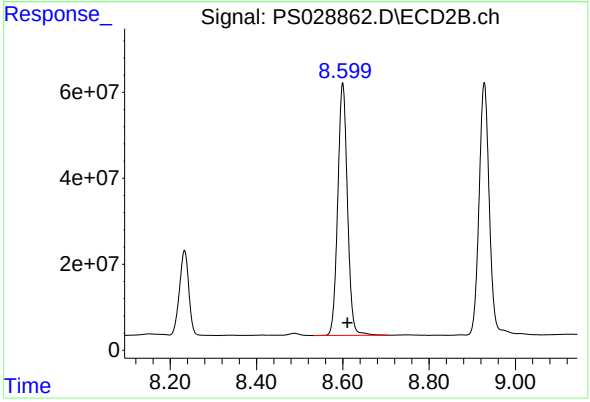
#7 MCPA

R.T.: 8.233 min
Delta R.T.: -0.006 min
Response: 297676124
Conc: 64.25 ug/ml



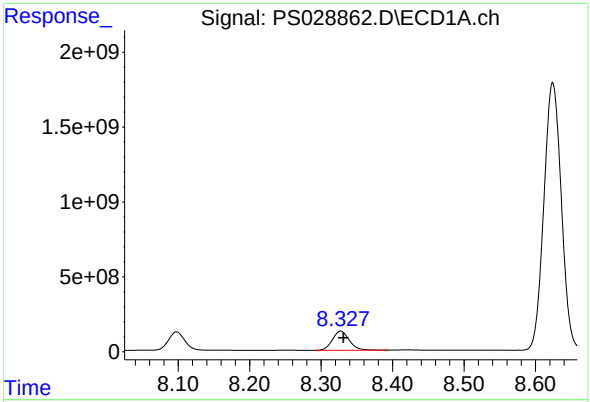
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 1973795948
Conc: 743.94 ng/ml



#8 DICHLORPROP

R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 916157951
Conc: 664.05 ng/ml



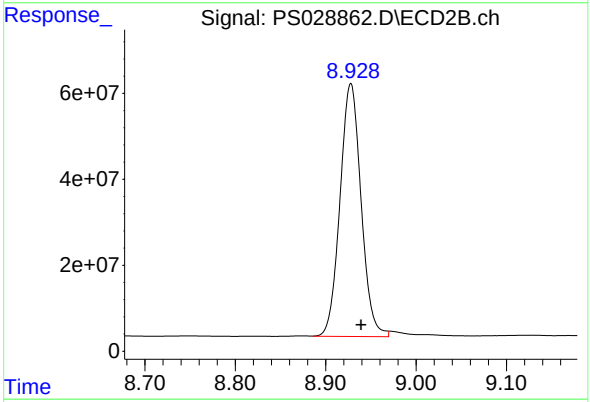
#9 2,4-D

R.T.: 8.327 min
Delta R.T.: -0.004 min
Response: 2114372146
Conc: 742.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

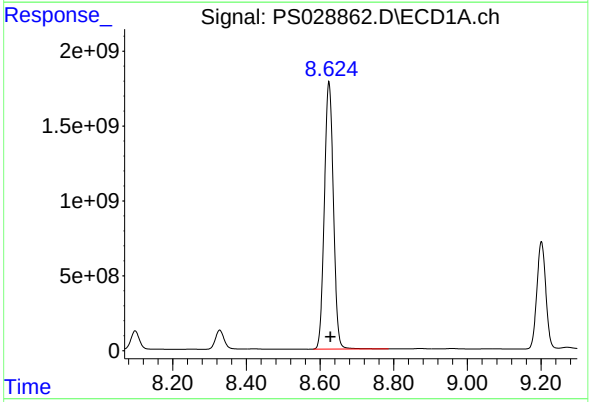
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



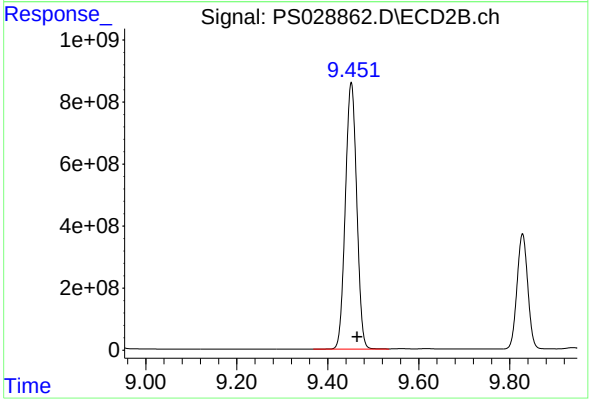
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.012 min
Response: 953737254
Conc: 660.87 ng/ml m



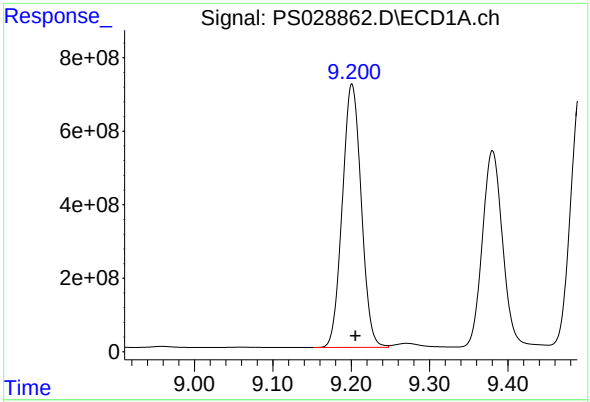
#10 Pentachlorophenol

R.T.: 8.624 min
Delta R.T.: -0.004 min
Response: 30444064610
Conc: 779.28 ng/ml



#10 Pentachlorophenol

R.T.: 9.452 min
Delta R.T.: -0.013 min
Response: 14903403702
Conc: 683.68 ng/ml



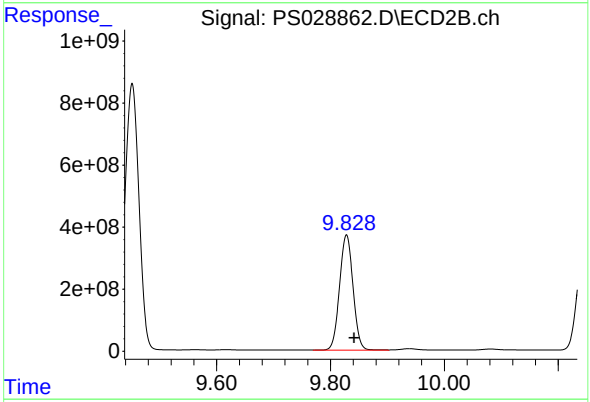
#11 2,4,5-TP (SILVEX)

R.T.: 9.201 min
Delta R.T.: -0.004 min
Response: 12021446366
Conc: 765.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

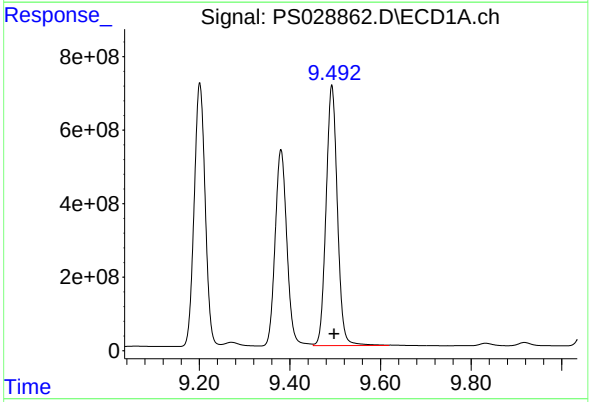
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



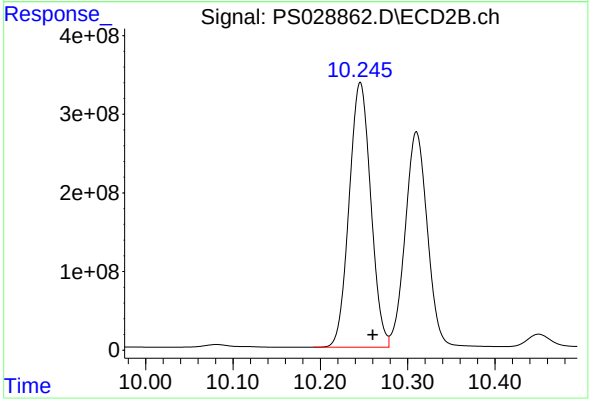
#11 2,4,5-TP (SILVEX)

R.T.: 9.828 min
Delta R.T.: -0.014 min
Response: 6090785383
Conc: 678.00 ng/ml



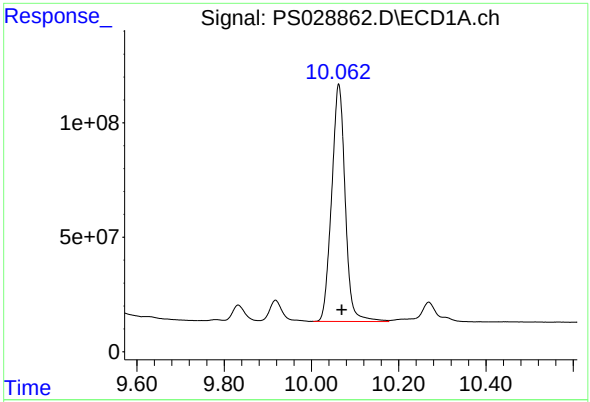
#12 2,4,5-T

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12262499332
Conc: 753.73 ng/ml



#12 2,4,5-T

R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5794205419
Conc: 665.30 ng/ml



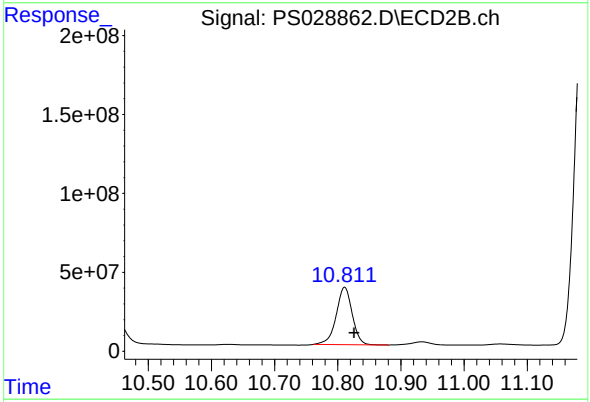
#13 2,4-DB

R.T.: 10.063 min
Delta R.T.: -0.007 min
Response: 2237721424
Conc: 716.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

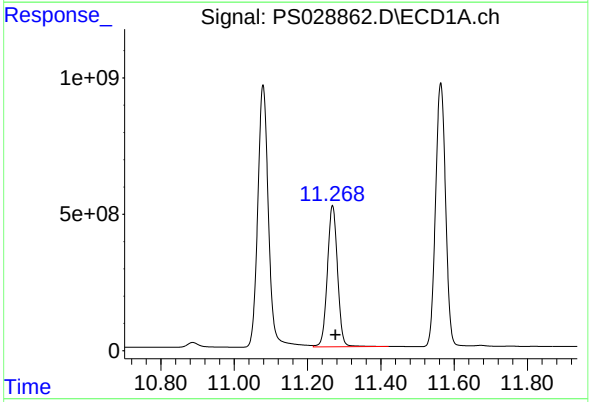
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



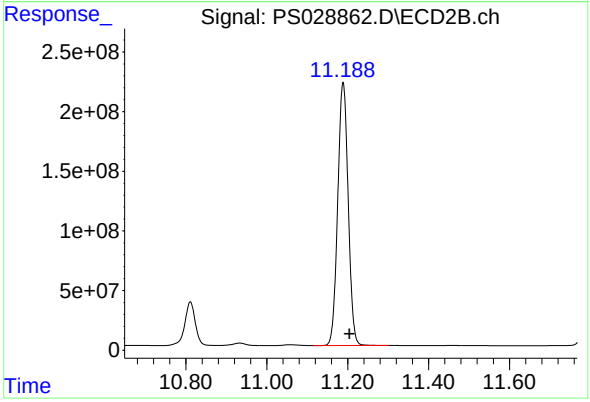
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 639650551
Conc: 658.69 ng/ml



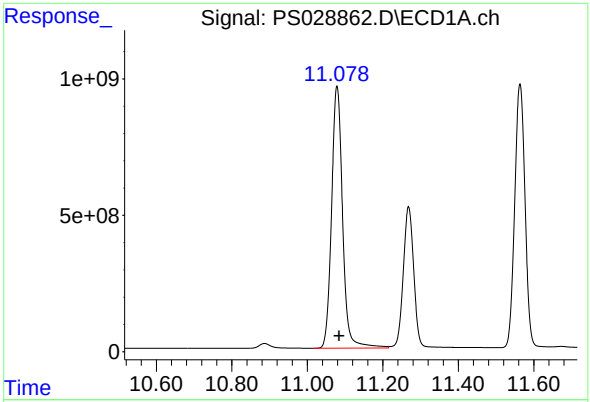
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 9950113581
Conc: 740.24 ng/ml



#14 DINOSEB

R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 3955750273
Conc: 642.26 ng/ml



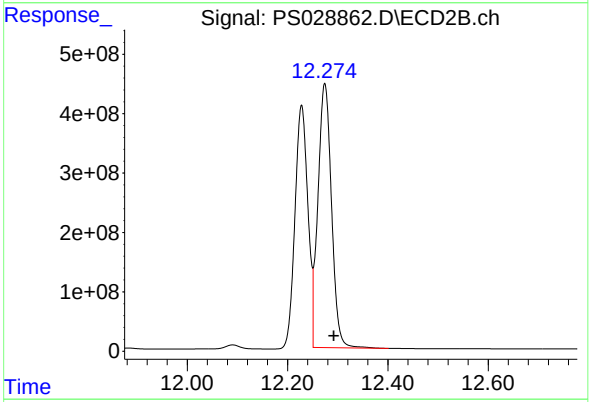
#15 Picloram

R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19443518996
Conc: 725.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

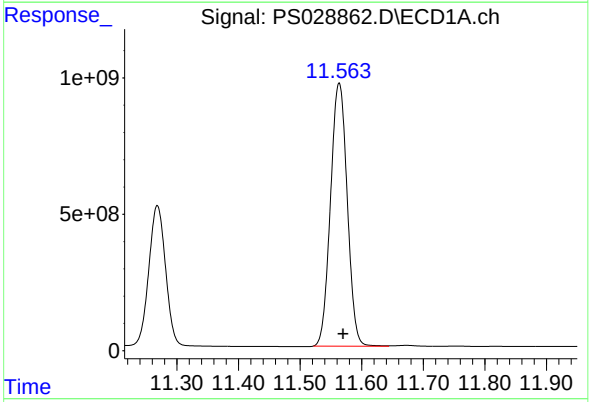
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



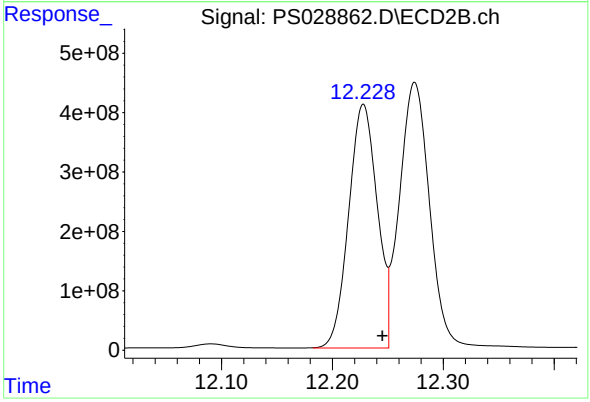
#15 Picloram

R.T.: 12.274 min
Delta R.T.: -0.017 min
Response: 8346811820
Conc: 650.11 ng/ml



#16 DCPA

R.T.: 11.563 min
Delta R.T.: -0.007 min
Response: 18209242157
Conc: 757.11 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.018 min
Response: 7336423256
Conc: 682.80 ng/ml m

Raw Data: **PS028865.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/31/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 12:40 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.21	7.21	7.11	7.31	0.00
2,4-D	8.33	8.33	8.23	8.43	0.00
2,4,5-TP(Silvex)	9.20	9.21	9.11	9.31	0.01

Raw Data: **PS028865.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Continuing Calib Date: 12/31/2024 **Initial Calibration Date(s):** 12/23/2024 12/23/2024

Continuing Calib Time: 12:40 **Initial Calibration Time(s):** 11:23 12:59

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.69	7.70	7.60	7.80	0.01
2,4-D	8.93	8.94	8.84	9.04	0.01
2,4,5-TP(Silvex)	9.83	9.84	9.74	9.94	0.01

Raw Data: **PS028865.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL06 **Date Analyzed:** 12/31/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028865.D **Time Analyzed:** 12:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.202	9.106	9.306	780.130	712.500	9.5
2,4-D	8.328	8.232	8.432	750.400	705.000	6.4
2,4-DCAA	7.208	7.110	7.310	803.900	750.000	7.2

Raw Data: **PS028865.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/23/2024 12/23/2024

Client Sample No.: CCAL06 **Date Analyzed:** 12/31/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028865.D **Time Analyzed:** 12:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.829	9.742	9.942	692.120	712.500	-2.9
2,4-D	8.928	8.840	9.040	674.020	705.000	-4.4
2,4-DCAA	7.691	7.600	7.800	708.530	750.000	-5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.208	7.691	1818.4E6	797.5E6	803.898	708.534
		Target Compounds						
1)	T	Dalapon	2.621	2.674	1950.3E6	1248.3E6	692.414	634.104
2)	T	3,5-DICHL...	6.383	6.654	2482.4E6	1094.7E6	753.349	660.435
3)	T	4-Nitroph...	7.006	7.220	1087.2E6	545.4E6	723.820	651.747
5)	T	DICAMBA	7.393	7.888	7618.6E6	3756.8E6	772.625	684.316
6)	T	MCPP	7.575	7.991	470.2E6	218.6E6	75.508	66.881
7)	T	MCPA	7.725	8.234	638.9E6	304.3E6	72.891	65.676
8)	T	DICHLORPROP	8.098	8.600	2024.8E6	940.4E6	763.172	681.643
9)	T	2,4-D	8.328	8.928	2138.3E6	972.7E6	750.404	674.023m
10)	T	Pentachlo...	8.626	9.452	31097.2E6	15235.9E6	795.998	698.936
11)	T	2,4,5-TP ...	9.202	9.829	12255.3E6	6217.6E6	780.130	692.116
12)	T	2,4,5-T	9.493	10.246	12525.7E6	5915.0E6	769.902	679.174
13)	T	2,4-DB	10.064	10.811	2276.0E6	655.0E6	729.107	674.443
14)	T	DINOSEB	11.269	11.189	10184.7E6	4047.5E6	757.693	657.145
15)	T	Picloram	11.079	12.275	19519.8E6	8392.9E6	728.005	653.705
16)	T	DCPA	11.564	12.228	18581.1E6	7560.7E6	772.570	703.681m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

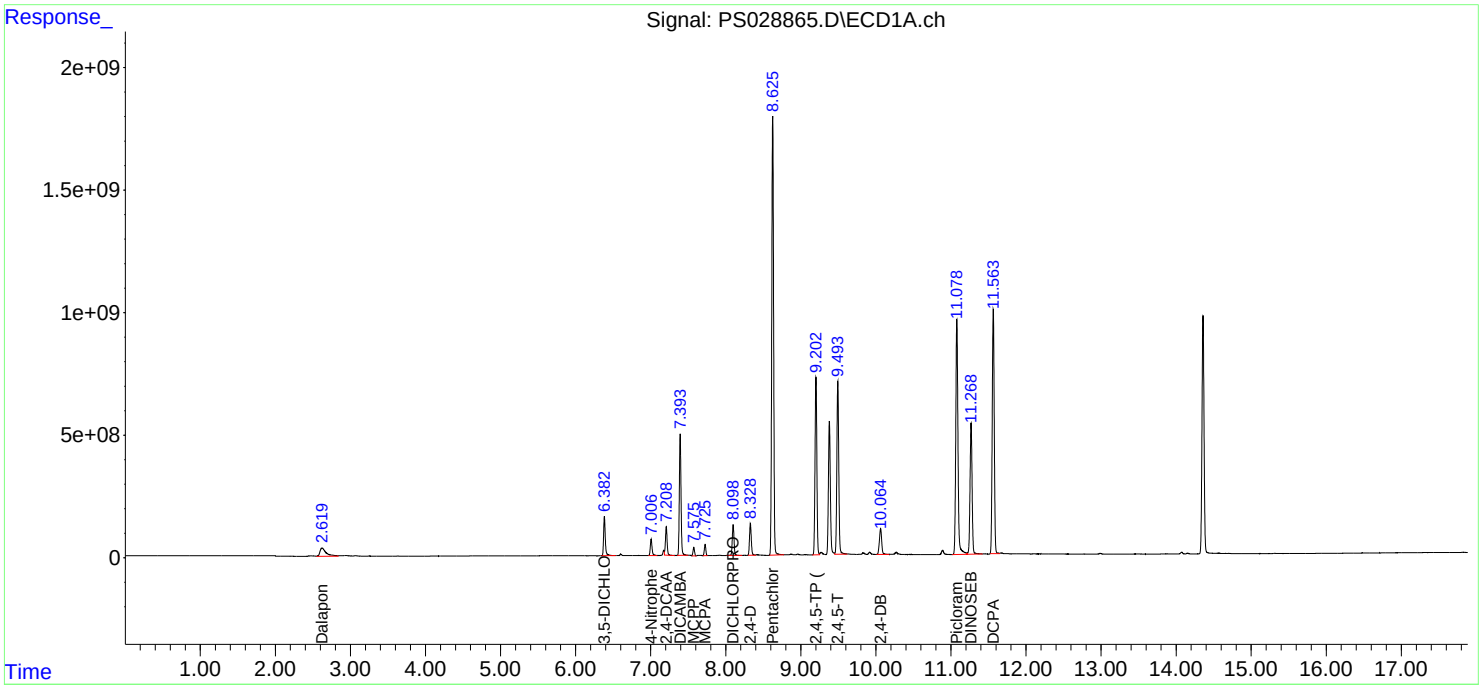
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

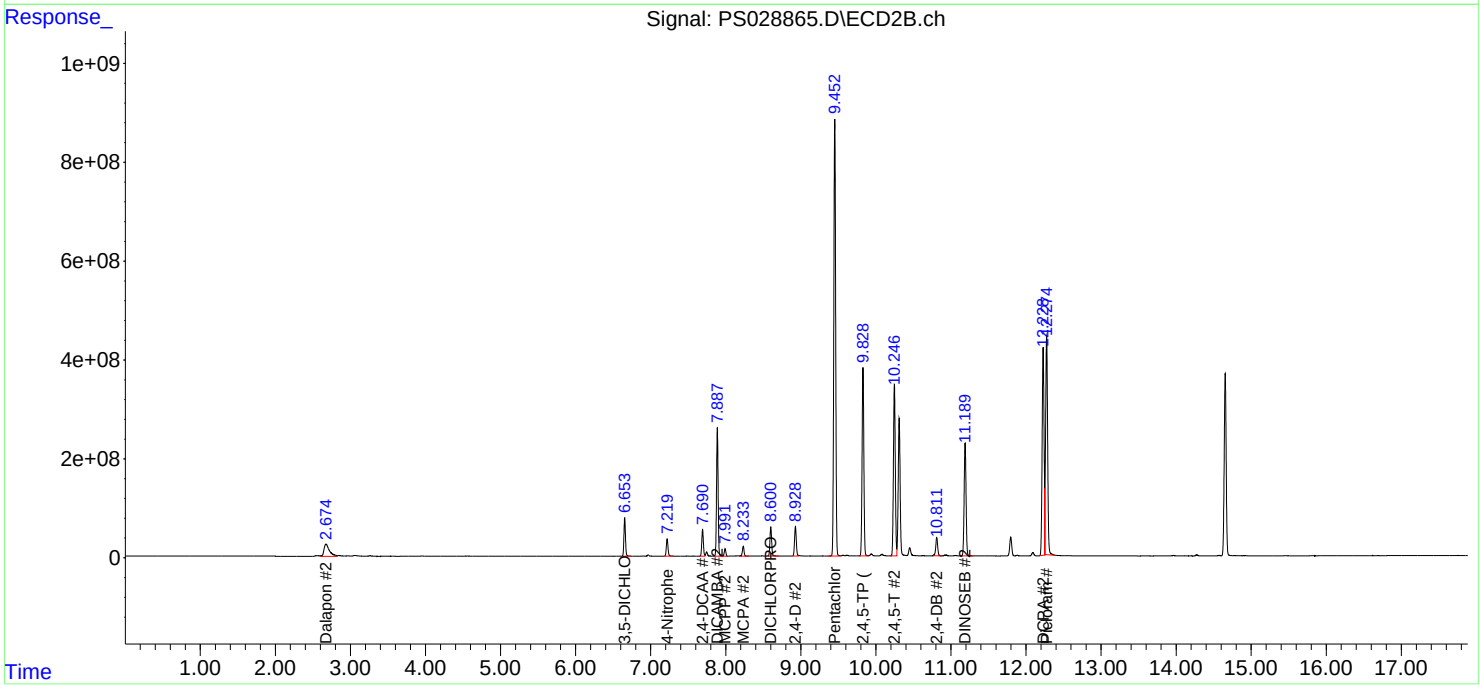
Manual Integrations APPROVED

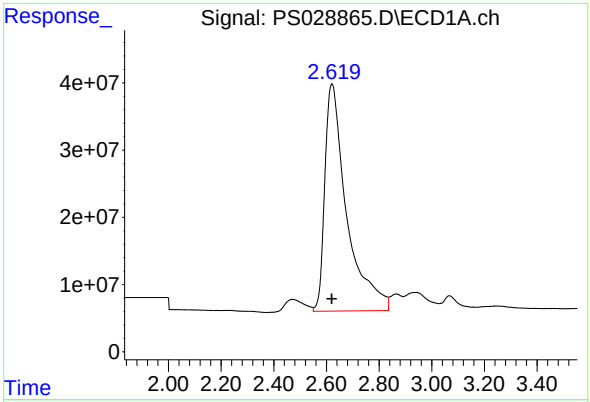
Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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







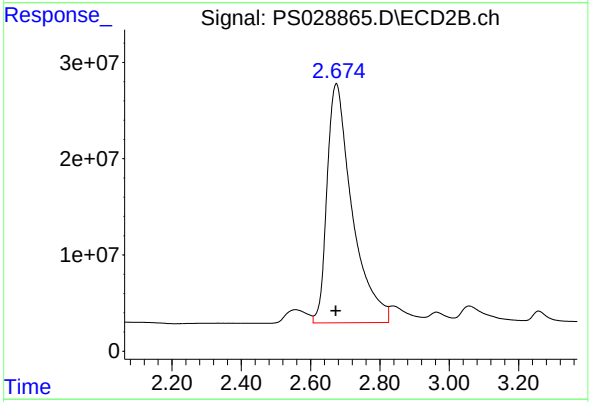
#1 Dalapon

R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 1950287205
Conc: 692.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

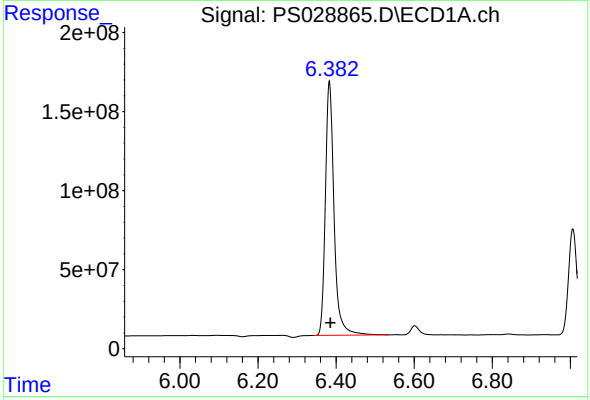
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



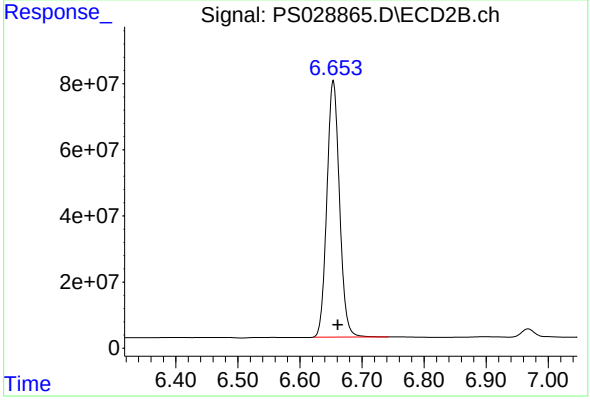
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.002 min
Response: 1248297922
Conc: 634.10 ng/ml



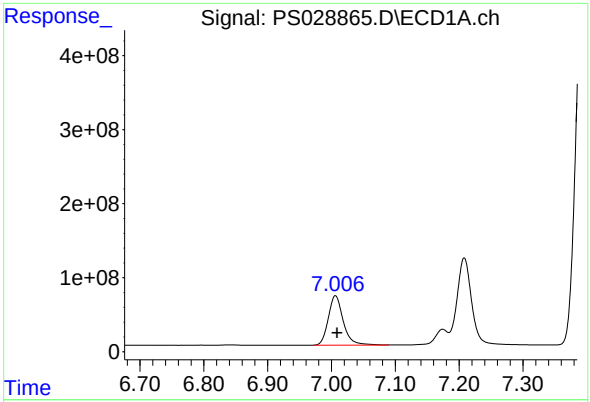
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 2482386054
Conc: 753.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.654 min
Delta R.T.: -0.007 min
Response: 1094719144
Conc: 660.43 ng/ml



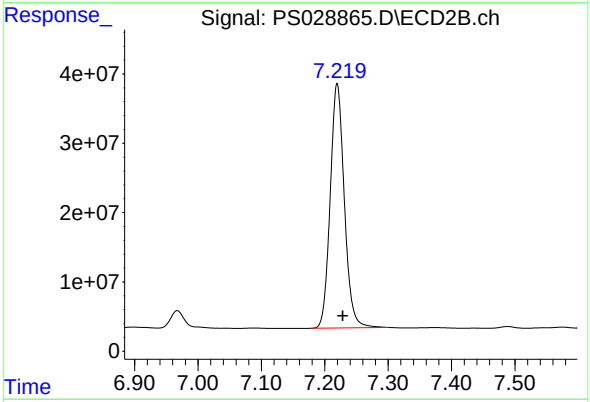
#3 4-Nitrophenol

R.T.: 7.006 min
Delta R.T.: -0.002 min
Response: 1087220215
Conc: 723.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

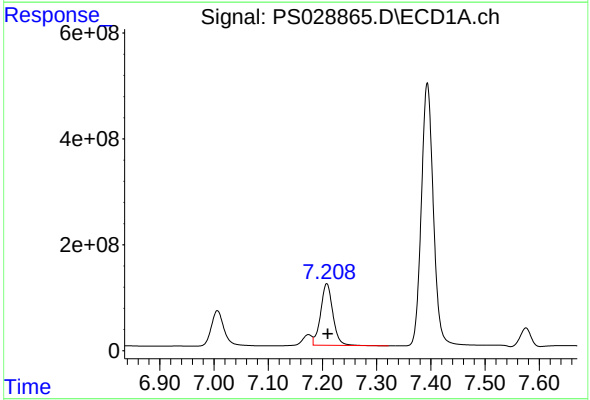
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



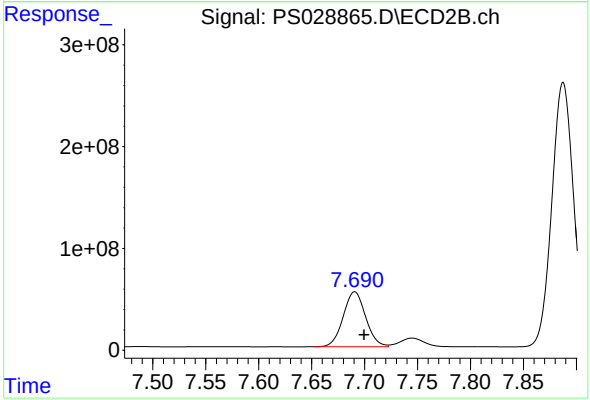
#3 4-Nitrophenol

R.T.: 7.220 min
Delta R.T.: -0.009 min
Response: 545442736
Conc: 651.75 ng/ml



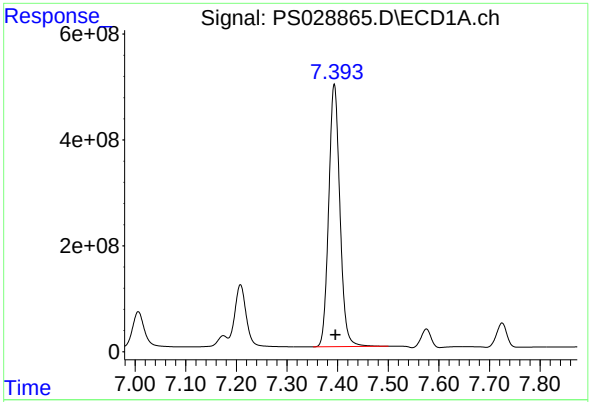
#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1818438306
Conc: 803.90 ng/ml



#4 2,4-DCAA

R.T.: 7.691 min
Delta R.T.: -0.009 min
Response: 797481442
Conc: 708.53 ng/ml



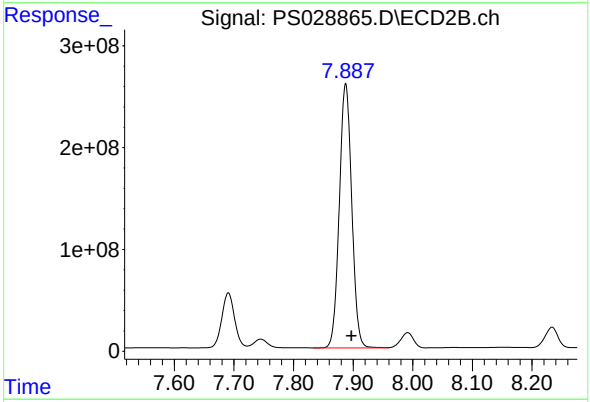
#5 DICAMBA

R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7618578843
Conc: 772.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

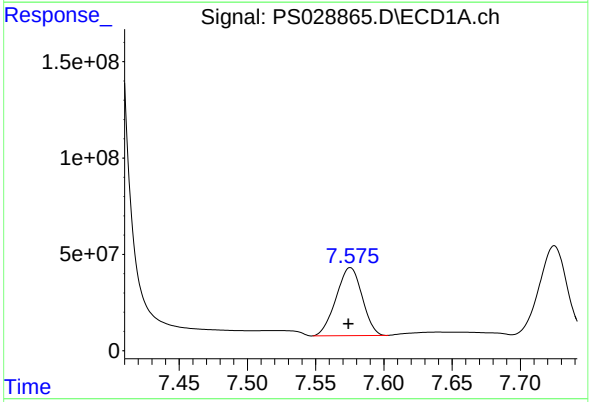
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



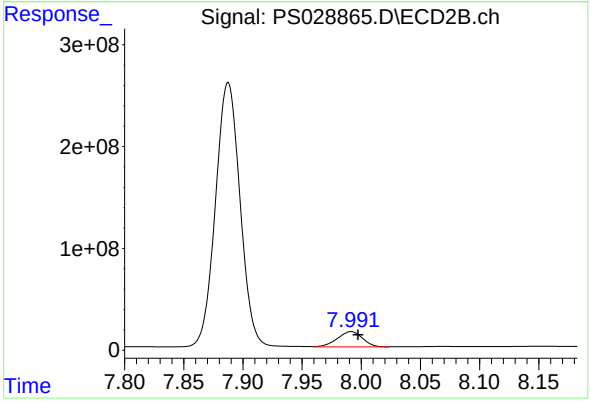
#5 DICAMBA

R.T.: 7.888 min
Delta R.T.: -0.010 min
Response: 3756806000
Conc: 684.32 ng/ml



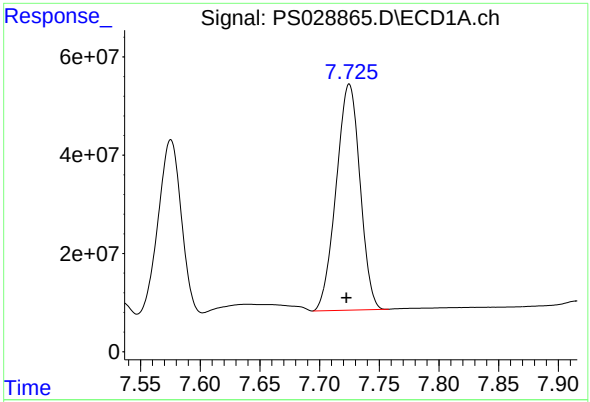
#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.001 min
Response: 470201653
Conc: 75.51 ug/ml



#6 MCPP

R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 218554368
Conc: 66.88 ug/ml



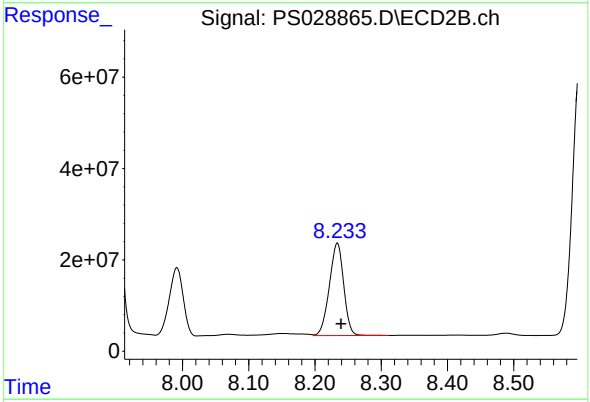
#7 MCPA

R.T.: 7.725 min
Delta R.T.: 0.002 min
Response: 638921719
Conc: 72.89 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

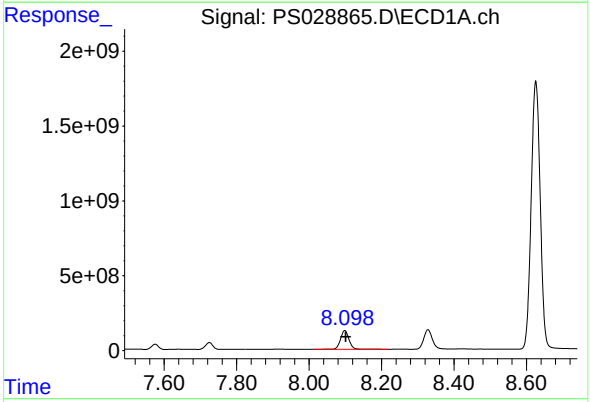
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



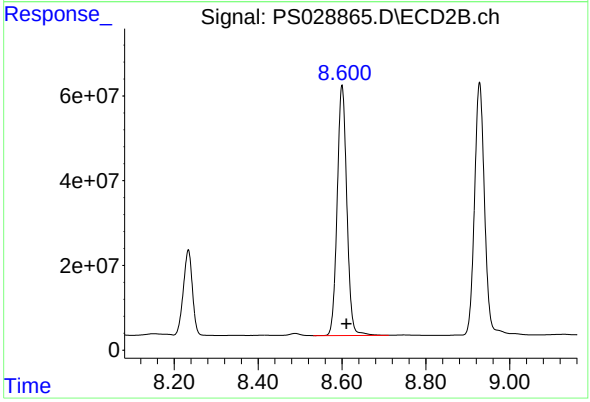
#7 MCPA

R.T.: 8.234 min
Delta R.T.: -0.006 min
Response: 304268403
Conc: 65.68 ug/ml



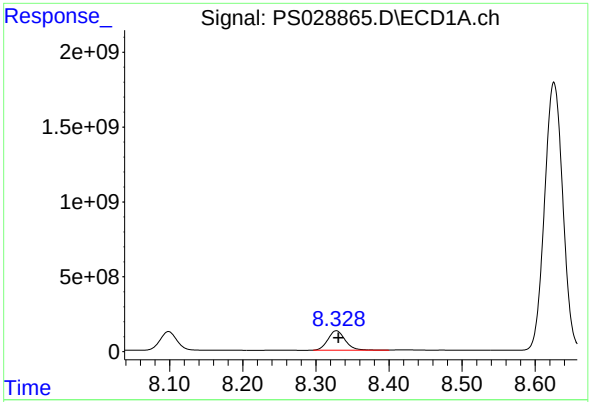
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 2024830431
Conc: 763.17 ng/ml



#8 DICHLORPROP

R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 940434238
Conc: 681.64 ng/ml



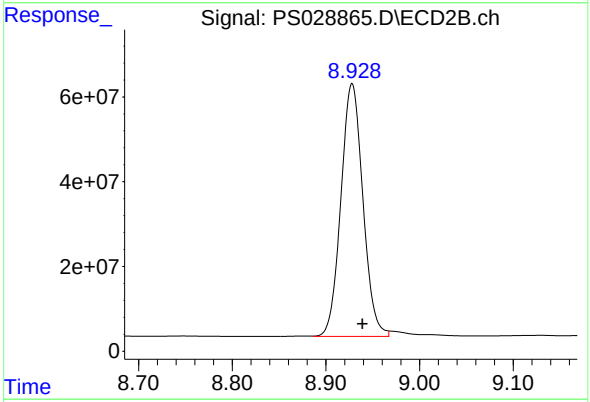
#9 2,4-D

R.T.: 8.328 min
Delta R.T.: -0.003 min
Response: 2138302178
Conc: 750.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

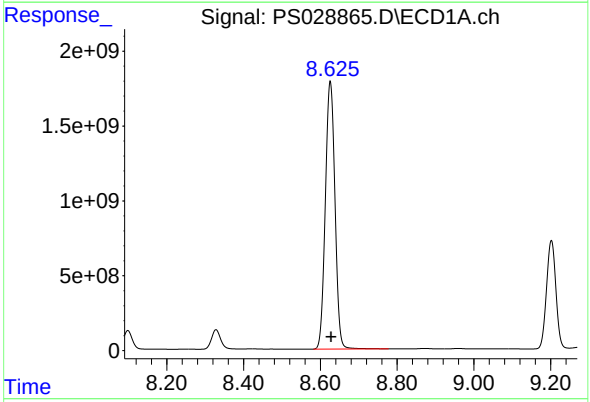
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



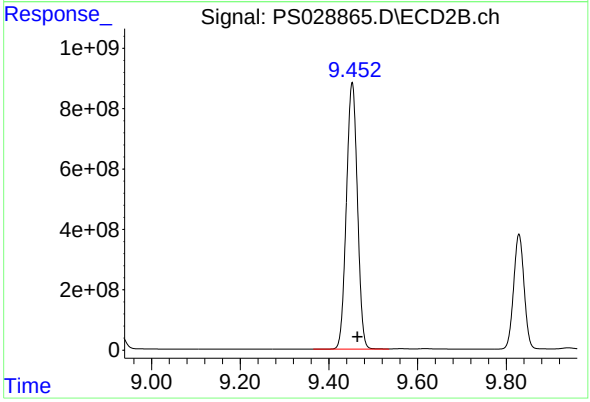
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.012 min
Response: 972713335
Conc: 674.02 ng/ml m



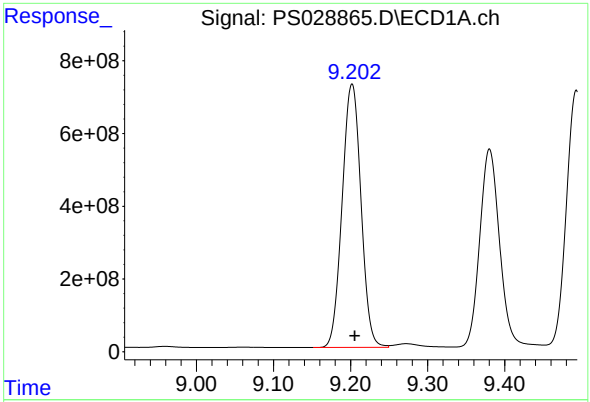
#10 Pentachlorophenol

R.T.: 8.626 min
Delta R.T.: -0.002 min
Response: 31097234817
Conc: 796.00 ng/ml



#10 Pentachlorophenol

R.T.: 9.452 min
Delta R.T.: -0.012 min
Response: 15235899256
Conc: 698.94 ng/ml



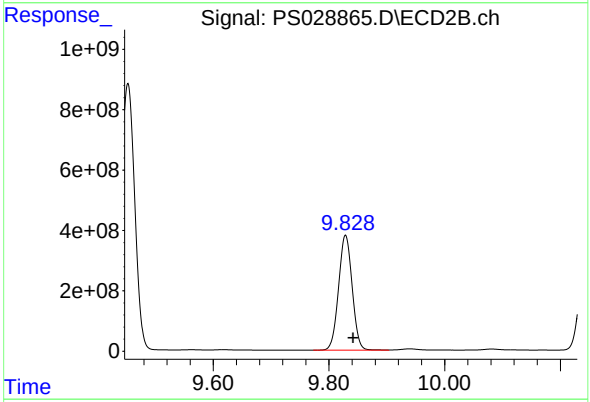
#11 2,4,5-TP (SILVEX)

R.T.: 9.202 min
Delta R.T.: -0.004 min
Response: 12255318570
Conc: 780.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

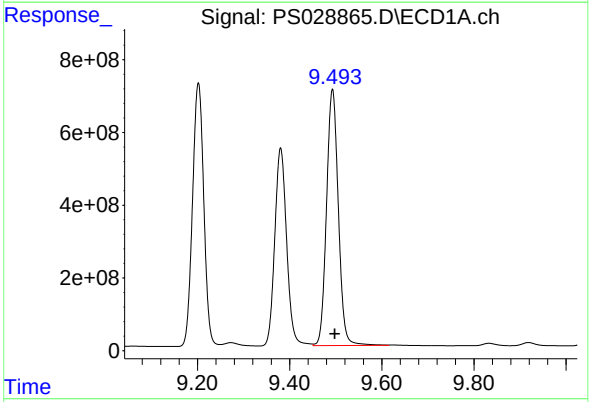
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



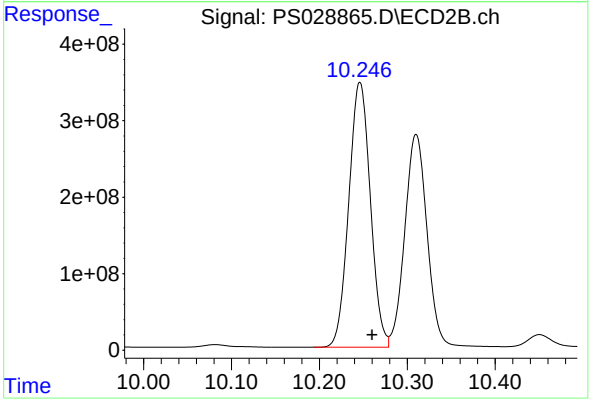
#11 2,4,5-TP (SILVEX)

R.T.: 9.829 min
Delta R.T.: -0.013 min
Response: 6217636956
Conc: 692.12 ng/ml



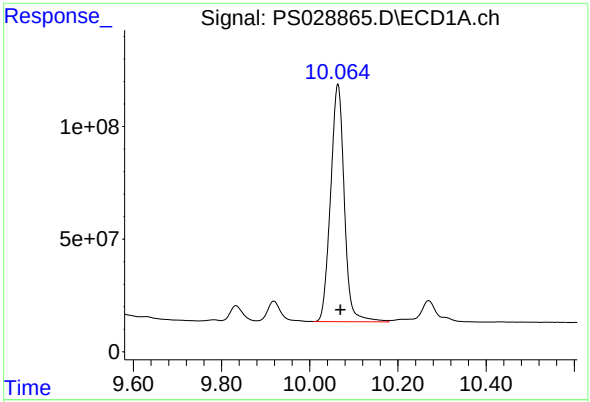
#12 2,4,5-T

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12525679677
Conc: 769.90 ng/ml



#12 2,4,5-T

R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5915049507
Conc: 679.17 ng/ml



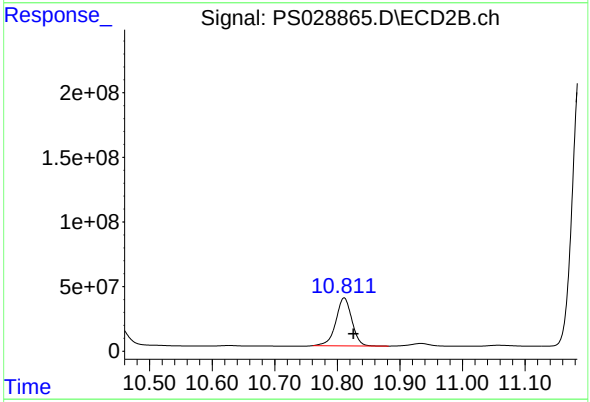
#13 2,4-DB

R.T.: 10.064 min
Delta R.T.: -0.006 min
Response: 2275979756
Conc: 729.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

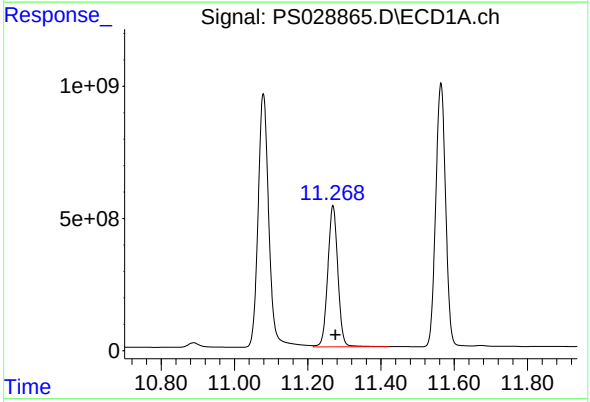
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



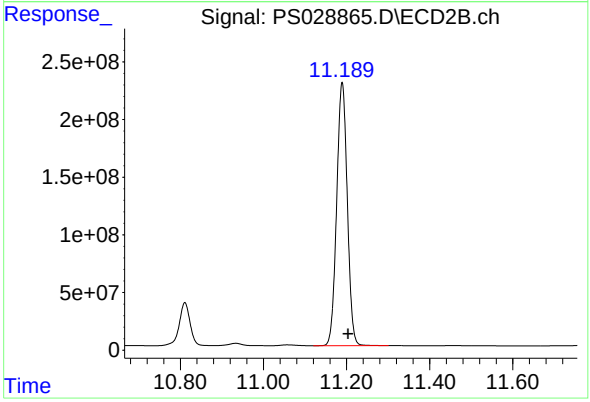
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 654950053
Conc: 674.44 ng/ml



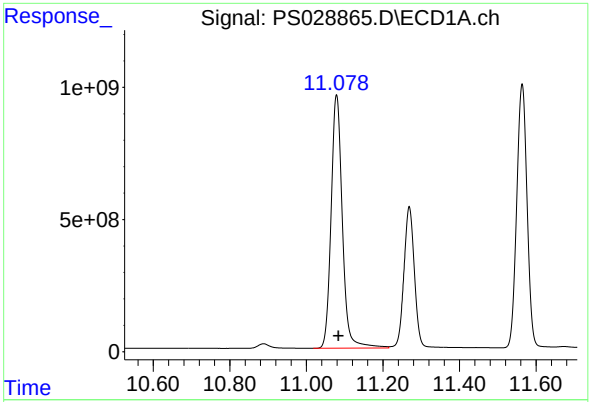
#14 DINOSEB

R.T.: 11.269 min
Delta R.T.: -0.007 min
Response: 10184697401
Conc: 757.69 ng/ml



#14 DINOSEB

R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 4047451149
Conc: 657.14 ng/ml



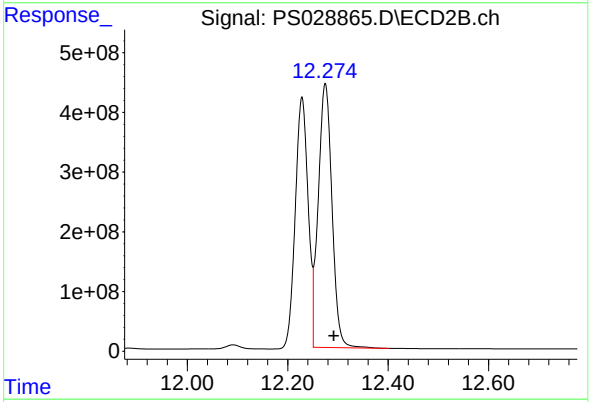
#15 Picloram

R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19519842955
Conc: 728.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

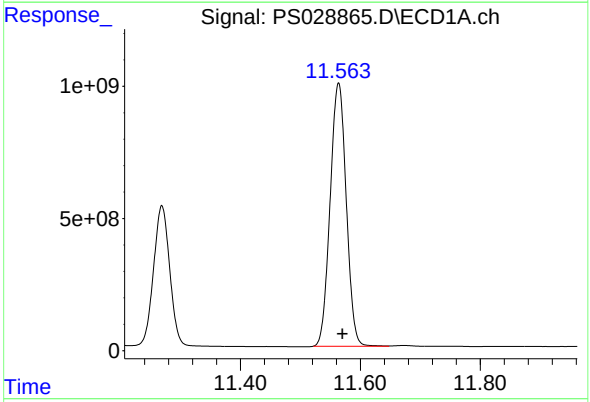
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 01/02/2025
Supervised By :Ankita Jodhani 01/02/2025



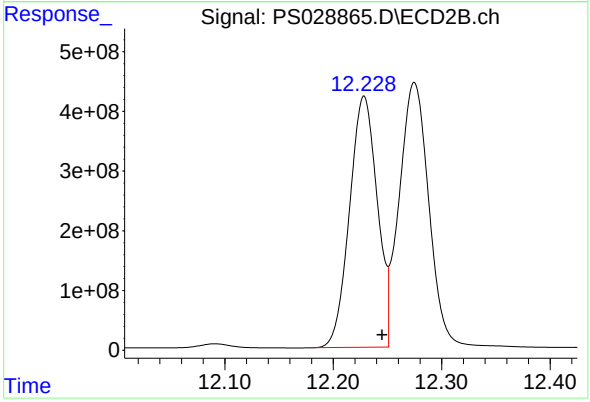
#15 Picloram

R.T.: 12.275 min
Delta R.T.: -0.017 min
Response: 8392924351
Conc: 653.70 ng/ml



#16 DCPA

R.T.: 11.564 min
Delta R.T.: -0.006 min
Response: 18581112395
Conc: 772.57 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.017 min
Response: 7560749893
Conc: 703.68 ng/ml m

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

Analytical Sequence

Client: Weston Solutions **SDG No.:** P5380

Project: Ft Meade Tipton Airfield Parcel RI - PO 011 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/23/2024 12/23/2024

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 #
I.BLK	I.BLK	12/23/2024	11:00	PS028786.D	7.21	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.21	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.21	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.21	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.21	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.21	0.00
I.BLK	I.BLK	12/27/2024	19:32	PS028836.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/27/2024	19:56	PS028837.D	7.21	0.00
PB165896BL	PB165896BL	12/27/2024	21:08	PS028838.D	7.21	0.00
PB165896BS	PB165896BS	12/27/2024	21:32	PS028839.D	7.21	0.00
WC-SOIL-20241219MS	P5362-02MS	12/27/2024	22:44	PS028842.D	7.21	0.00
WC-SOIL-20241219MSD	P5362-02MSD	12/27/2024	23:08	PS028843.D	7.21	0.00
TAPIAL3-IDW-SOIL-122024-T1	P5380-02	12/27/2024	23:32	PS028844.D	7.21	0.00
I.BLK	I.BLK	12/27/2024	23:56	PS028845.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/28/2024	00:19	PS028846.D	7.21	0.00
I.BLK	I.BLK	12/30/2024	09:05	PS028848.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	10:25	PS028849.D	7.21	0.00
TAPIAL3-IDW-SOIL-122024-T1RE	P5380-02RE	12/30/2024	10:50	PS028850.D	7.21	0.00
I.BLK	I.BLK	12/30/2024	11:38	PS028852.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	12:02	PS028853.D	7.21	0.00
I.BLK	I.BLK	12/31/2024	08:35	PS028861.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	08:59	PS028862.D	7.21	0.00
PB165858TB	PB165858TB	12/31/2024	11:52	PS028863.D	7.21	0.00
I.BLK	I.BLK	12/31/2024	12:16	PS028864.D	7.21	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	12:40	PS028865.D	7.21	0.00

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

Analytical Sequence

Client: Weston Solutions **SDG No.:** P5380

Project: Ft Meade Tipton Airfield Parcel RI - PO 011 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/23/2024 12/23/2024

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 #
I.BLK	I.BLK	12/23/2024	11:00	PS028786.D	7.70	0.00
HSTDICC200	HSTDICC200	12/23/2024	11:23	PS028787.D	7.70	0.00
HSTDICC500	HSTDICC500	12/23/2024	11:47	PS028788.D	7.70	0.00
HSTDICC750	HSTDICC750	12/23/2024	12:11	PS028789.D	7.70	0.00
HSTDICC1000	HSTDICC1000	12/23/2024	12:35	PS028790.D	7.70	0.00
HSTDICC1500	HSTDICC1500	12/23/2024	12:59	PS028791.D	7.70	0.00
I.BLK	I.BLK	12/27/2024	19:32	PS028836.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/27/2024	19:56	PS028837.D	7.69	0.00
PB165896BL	PB165896BL	12/27/2024	21:08	PS028838.D	7.69	0.00
PB165896BS	PB165896BS	12/27/2024	21:32	PS028839.D	7.69	0.00
WC-SOIL-20241219MS	P5362-02MS	12/27/2024	22:44	PS028842.D	7.69	0.00
WC-SOIL-20241219MSD	P5362-02MSD	12/27/2024	23:08	PS028843.D	7.70	0.00
TAPIAL3-IDW-SOIL-122024-T1	P5380-02	12/27/2024	23:32	PS028844.D	7.69	0.00
I.BLK	I.BLK	12/27/2024	23:56	PS028845.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/28/2024	00:19	PS028846.D	7.69	0.00
I.BLK	I.BLK	12/30/2024	09:05	PS028848.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	10:25	PS028849.D	7.69	0.00
TAPIAL3-IDW-SOIL-122024-T1RE	P5380-02RE	12/30/2024	10:50	PS028850.D	7.69	0.00
I.BLK	I.BLK	12/30/2024	11:38	PS028852.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/30/2024	12:02	PS028853.D	7.69	0.00
I.BLK	I.BLK	12/31/2024	08:35	PS028861.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	08:59	PS028862.D	7.69	0.00
PB165858TB	PB165858TB	12/31/2024	11:52	PS028863.D	7.69	0.00
I.BLK	I.BLK	12/31/2024	12:16	PS028864.D	7.69	0.00
HSTDCCC750	HSTDCCC750	12/31/2024	12:40	PS028865.D	7.69	0.00

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165896BS

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Lab Sample ID: PB165896BS **Date(s) Analyzed:** 12/27/2024 12/27/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.33	8.28	8.38	5.30	7.8
	2	8.93	8.88	8.98	4.90	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	5.60	11.3
	2	9.83	9.78	9.88	5.00	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-SOIL-20241219MS

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Lab Sample ID: P5362-02MS **Date(s) Analyzed:** 12/27/2024 12/27/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.32	8.27	8.37	56.3	10.5
	2	8.93	8.88	8.98	50.7	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	56.3	7.4
	2	9.84	9.79	9.89	60.6	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-SOIL-20241219MSD

Contract: WEST04

Lab Code: CHEM **Case No.:** P5380 **SAS No.:** P5380 **SDG NO.:** P5380

Lab Sample ID: P5362-02MSD **Date(s) Analyzed:** 12/27/2024 12/27/2024

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.33	8.28	8.38	55.1	8.9
	2	8.93	8.88	8.98	50.4	
2,4,5-TP(Silvex)	1	9.20	9.15	9.25	56.3	10.4
	2	9.84	9.79	9.89	62.5	

QC SAMPLE DATA

Raw Data: **PS028838.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB165896BL	SDG No.:	P5380
Lab Sample ID:	PB165896BL	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028838.D	1	12/27/24 10:20	12/27/24 21:08	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	580		32 - 138		116%	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\PS122724\
Data File : PS028838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:08
Operator : AR\AJ
Sample : PB165896BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1311.5E6	567.1E6	579.798	503.831
	Target Compounds						

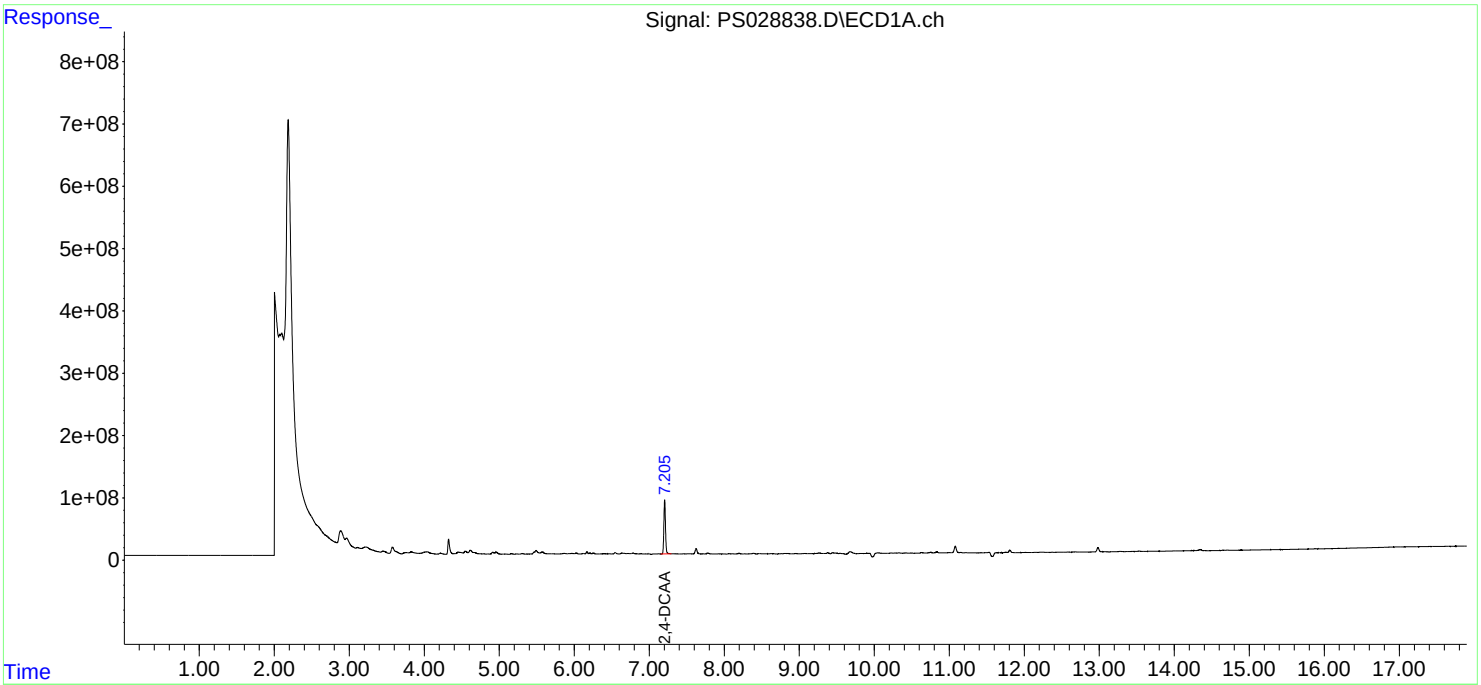
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

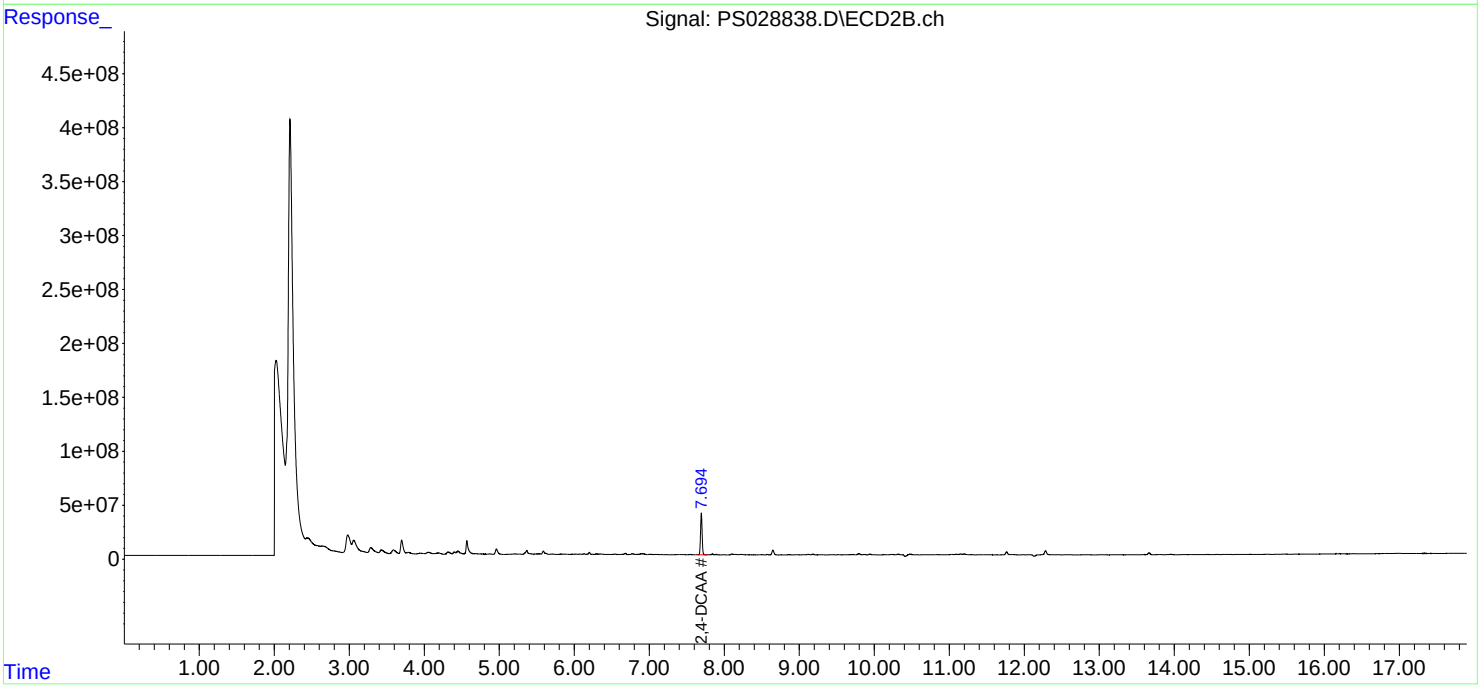
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:08
Operator : AR\AJ
Sample : PB165896BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

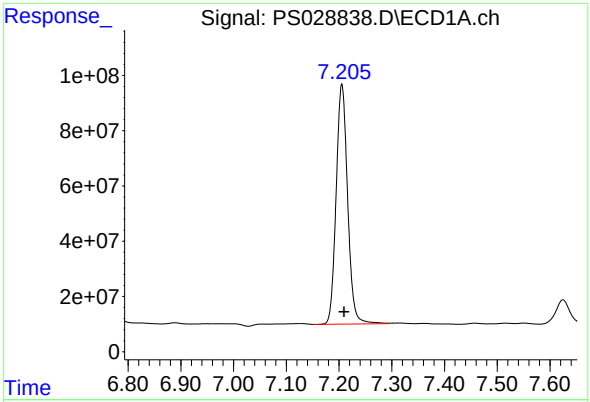
Instrument :
ECD_S
ClientSampleId :
PB165896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



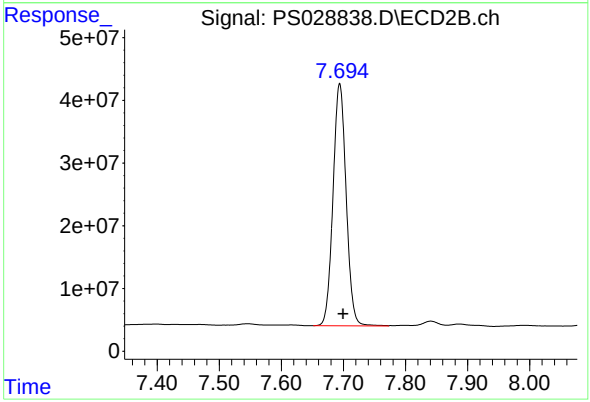




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1311518270
Conc: 579.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BL



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 567080708
Conc: 503.83 ng/ml

Raw Data: **PS028786.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/23/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/23/24
Client Sample ID:	PIBLK-PS028786.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028786.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028786.D	1		12/23/24	PS122324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	482		32 - 138		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\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
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: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.210	7.700	1061.6E6	542.0E6	469.322	481.551
	Target Compounds						

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

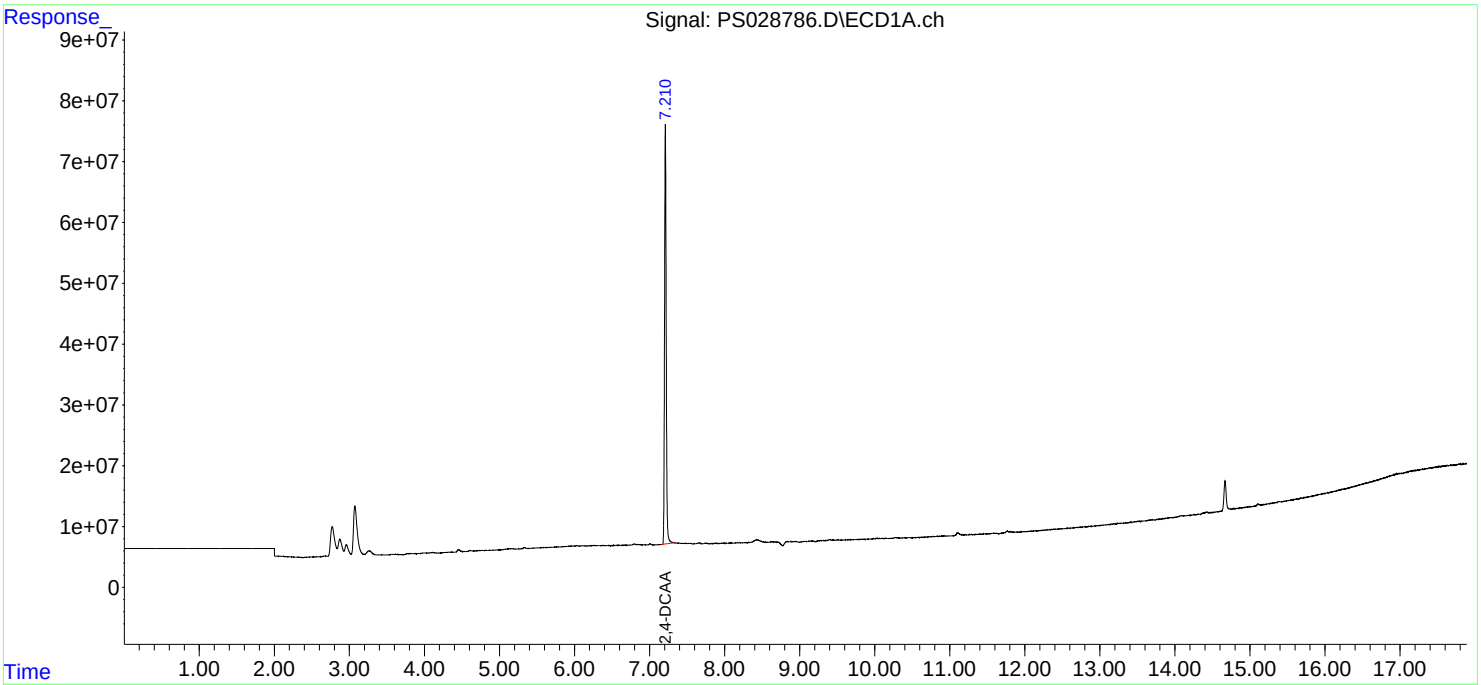
Sample Results: **PS028786.D**

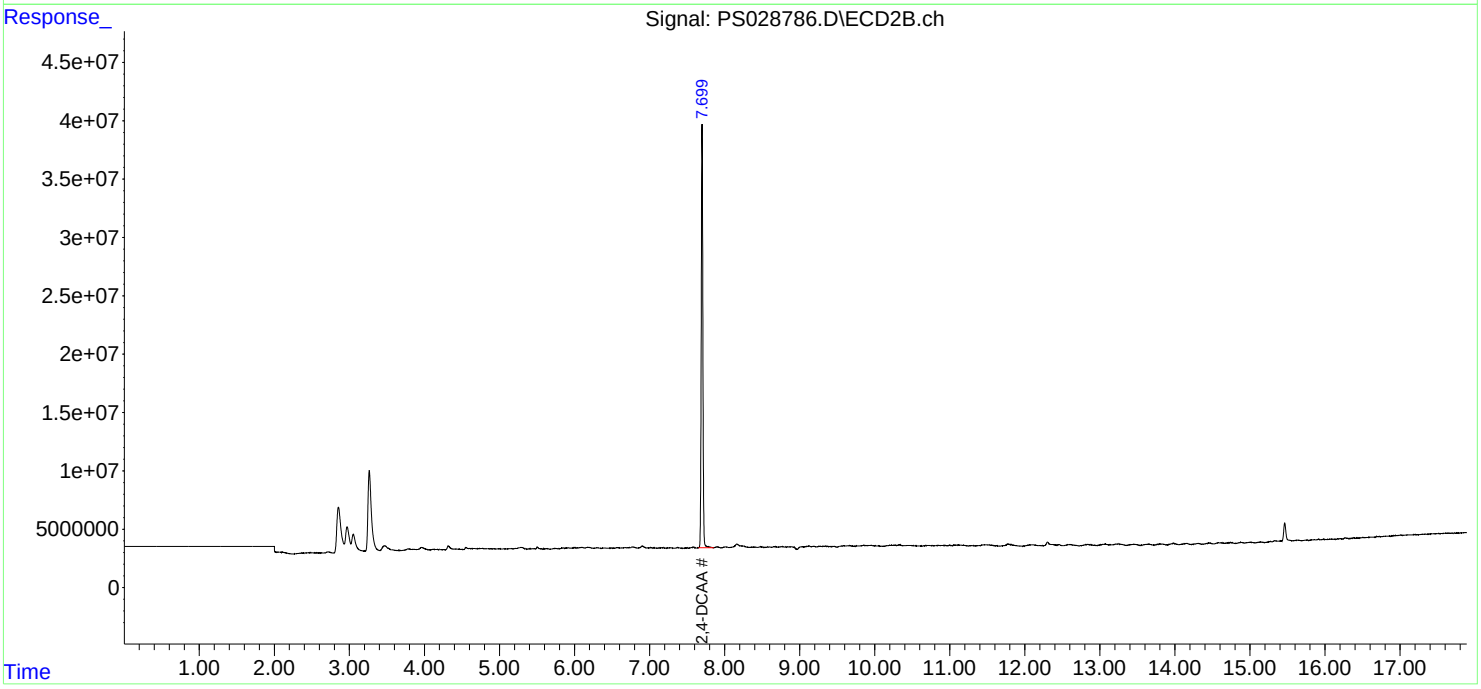
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

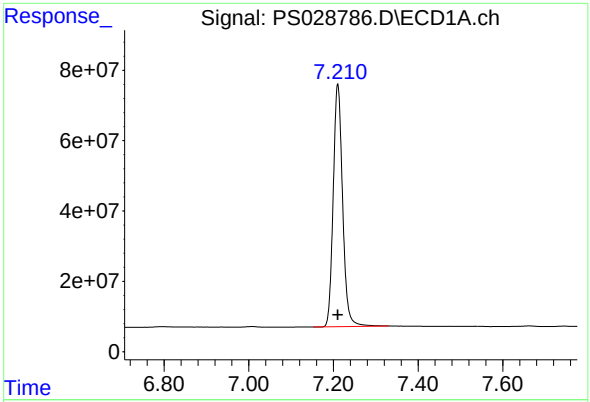
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



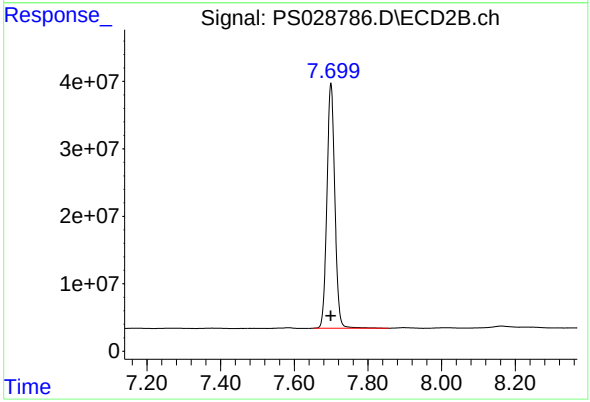




#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1061618688
Conc: 469.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 542003820
Conc: 481.55 ng/ml

Raw Data: **PS028836.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/27/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/27/24
Client Sample ID:	PIBLK-PS028836.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028836.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028836.D	1		12/27/24	PS122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	568		32 - 138		114%	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\PS122724\
Data File : PS028836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:32
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: Dec 28 02:07:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1285.3E6	578.2E6	568.223	513.697
	Target Compounds						

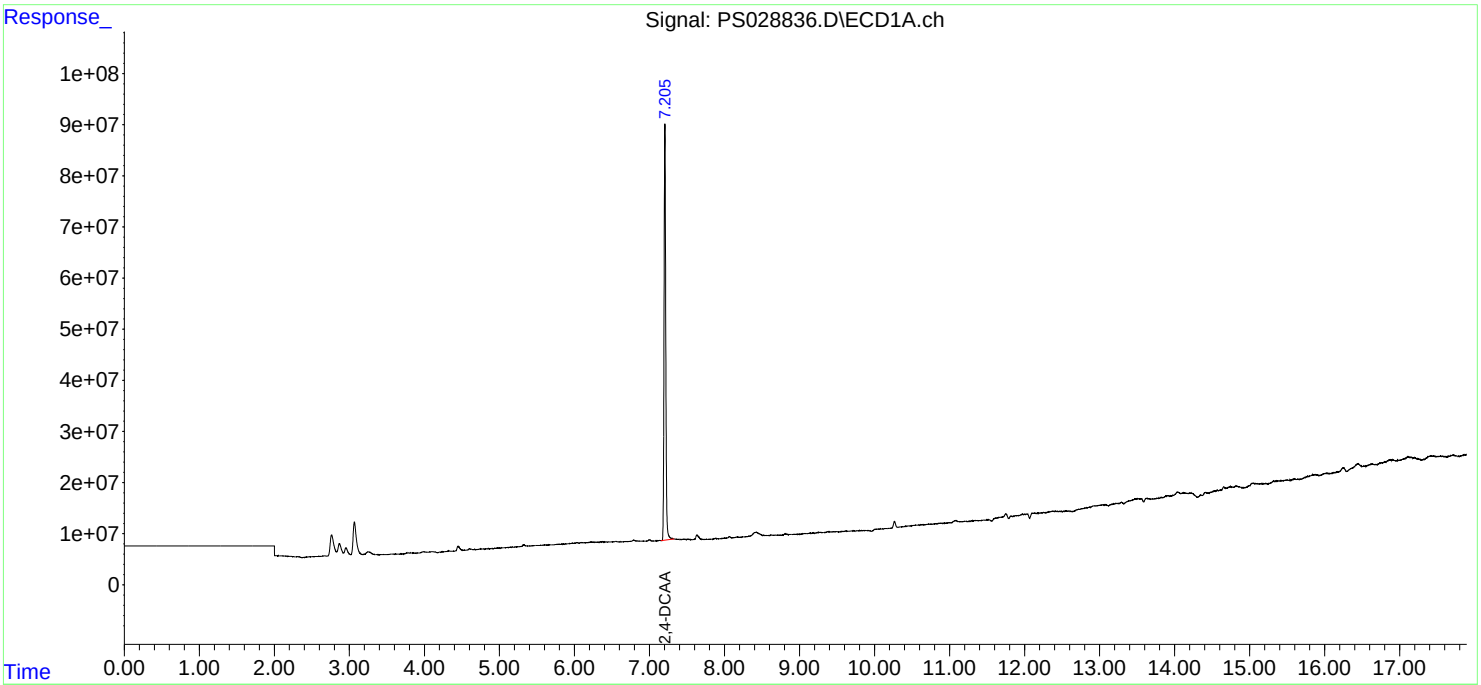
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

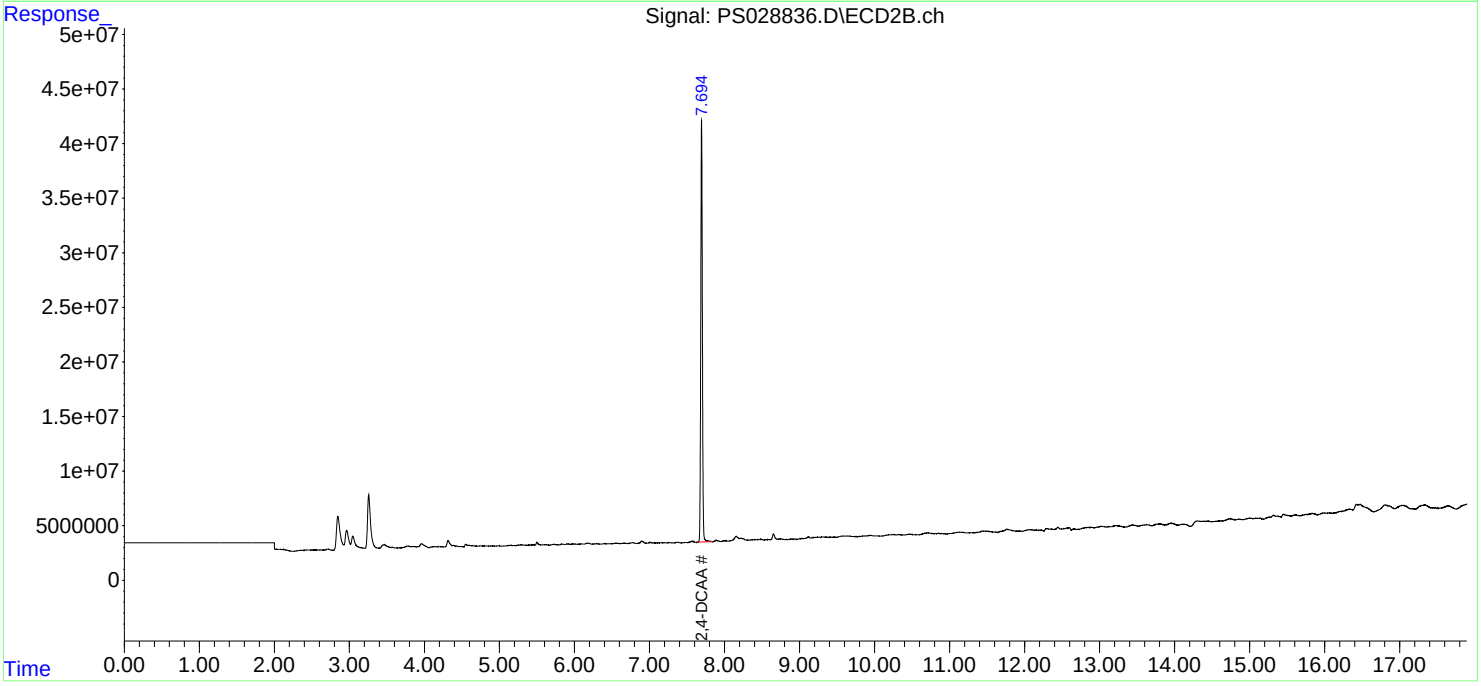
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 19:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

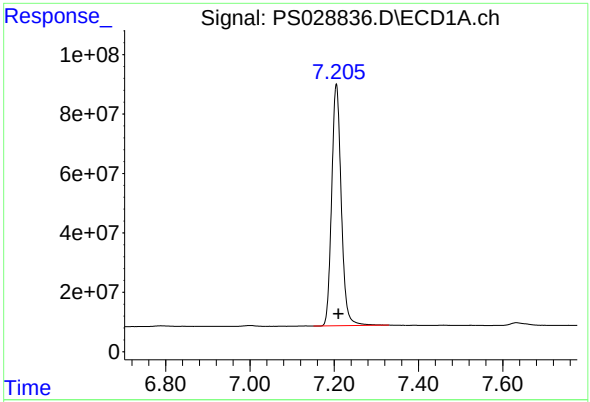
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:07:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



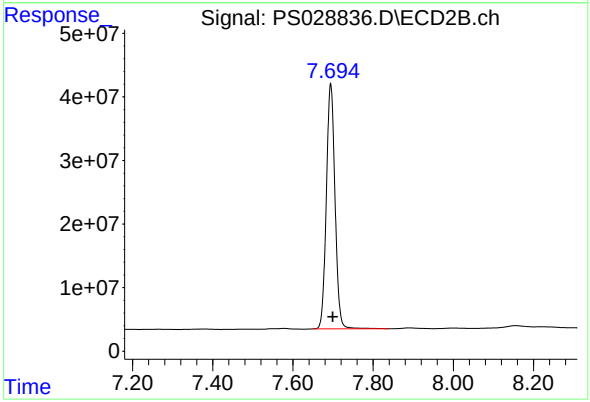




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1285334834
Conc: 568.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 578185233
Conc: 513.70 ng/ml

Raw Data: **PS028845.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/27/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/27/24
Client Sample ID:	PIBLK-PS028845.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028845.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028845.D	1		12/27/24	PS122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	570		32 - 138		114%	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\PS122724\
Data File : PS028845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:56
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: Dec 28 02:09:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1290.3E6	579.1E6	570.411	514.519
	Target Compounds						

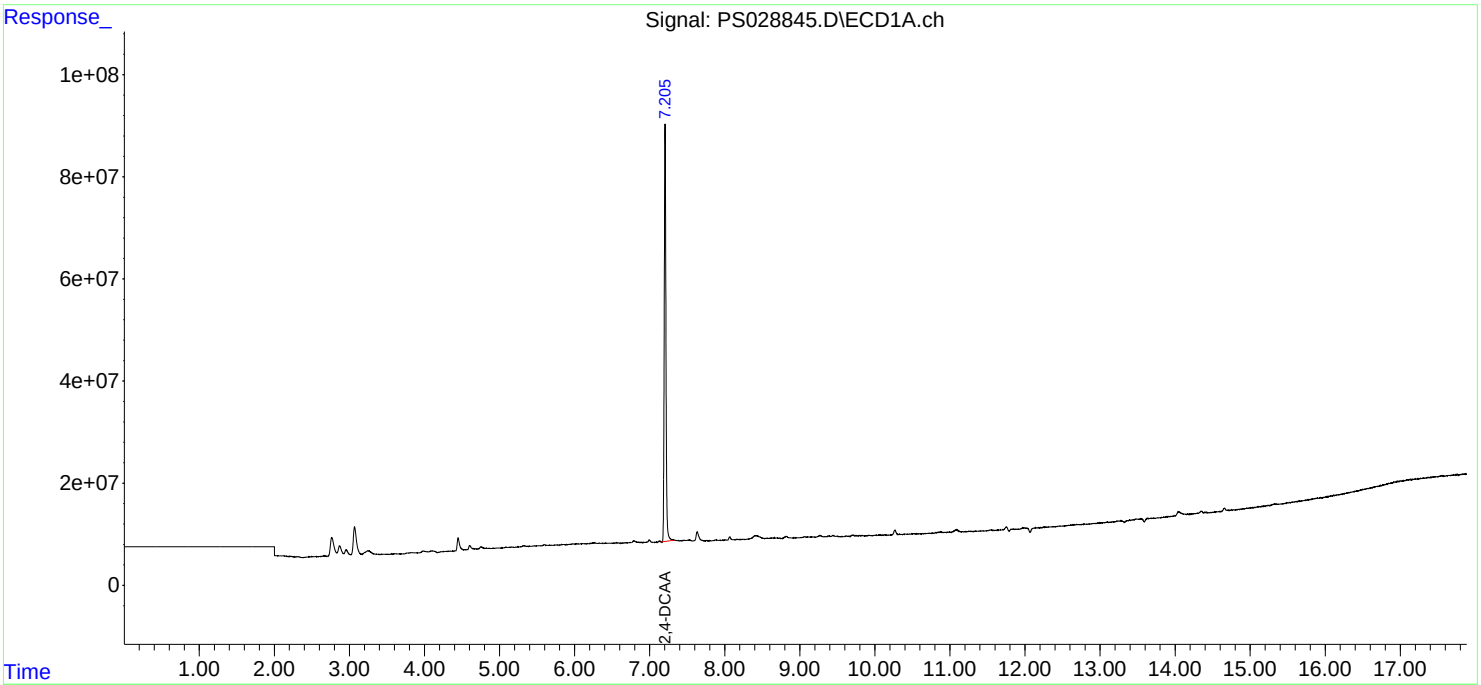
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

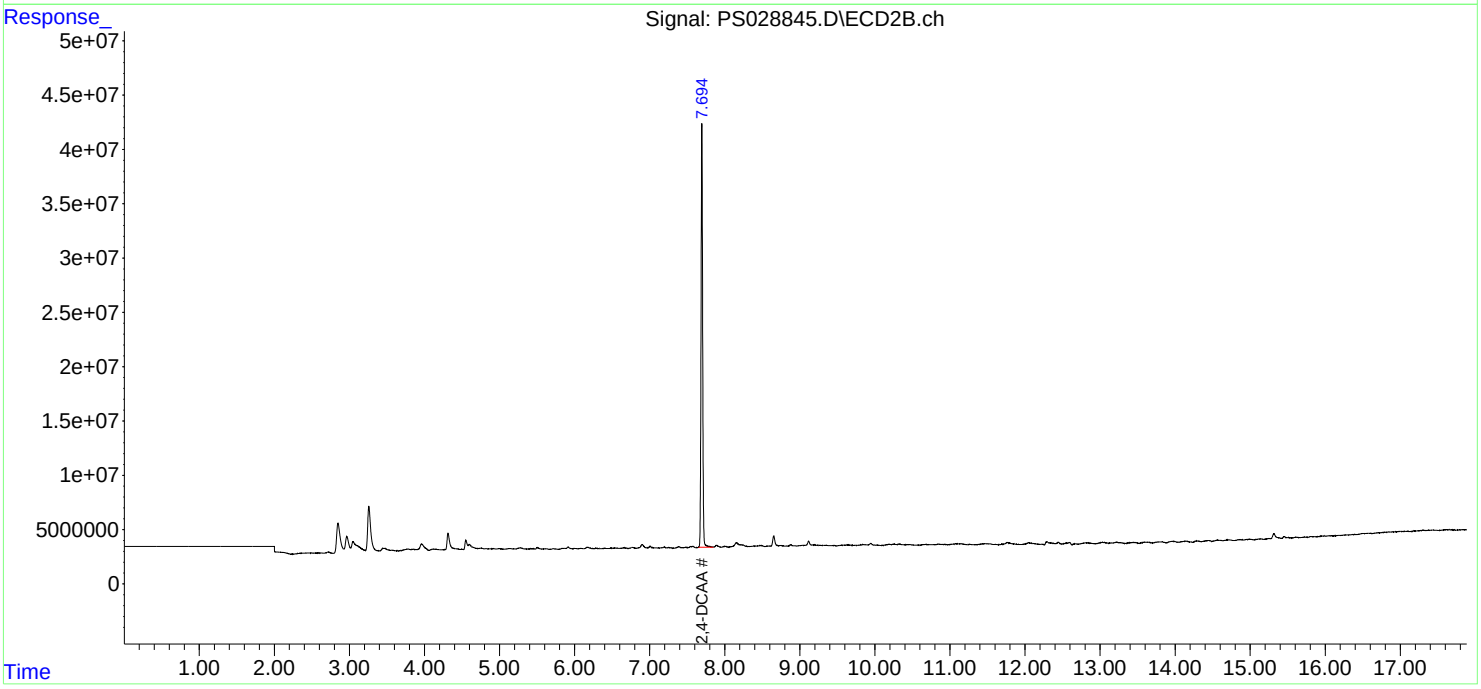
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028845.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

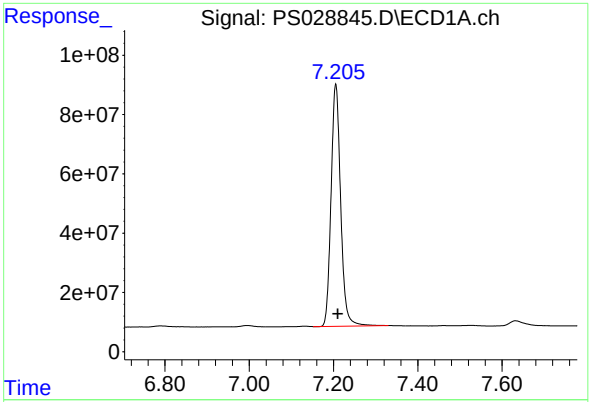
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



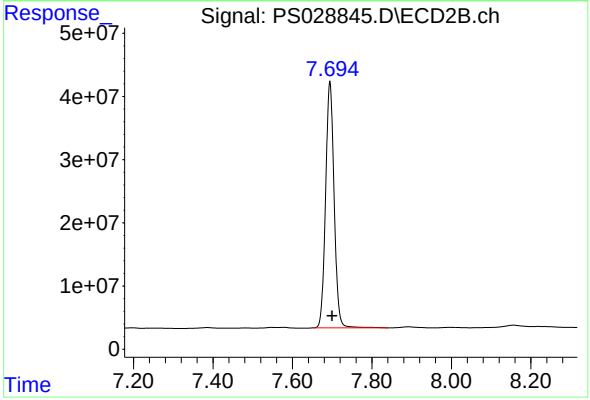




#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1290284073
Conc: 570.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 579109953
Conc: 514.52 ng/ml

Raw Data: **PS028848.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/30/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/30/24
Client Sample ID:	PIBLK-PS028848.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028848.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028848.D	1		12/30/24	ps123024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	599		32 - 138		120%	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\PS123024\
Data File : PS028848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 09:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.210	7.694	1356.0E6	576.0E6	599.447	511.743
	Target Compounds						

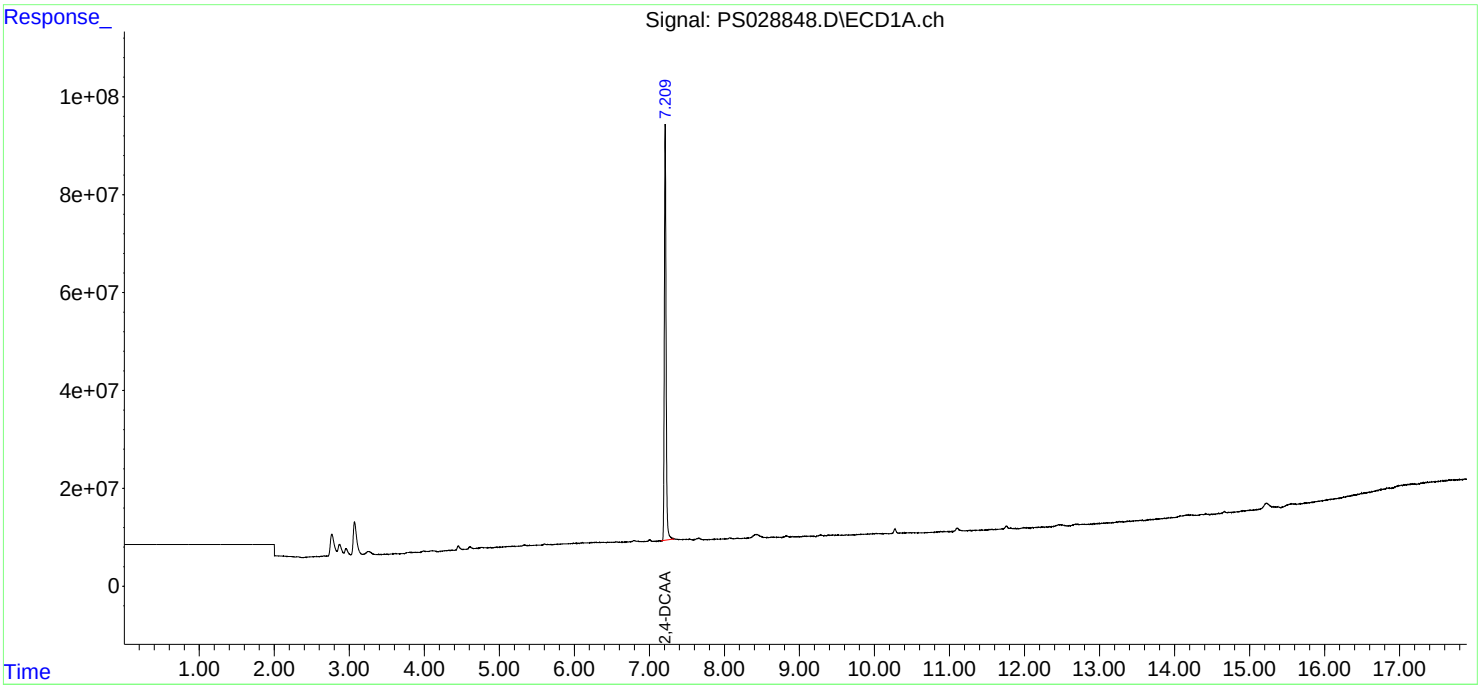
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

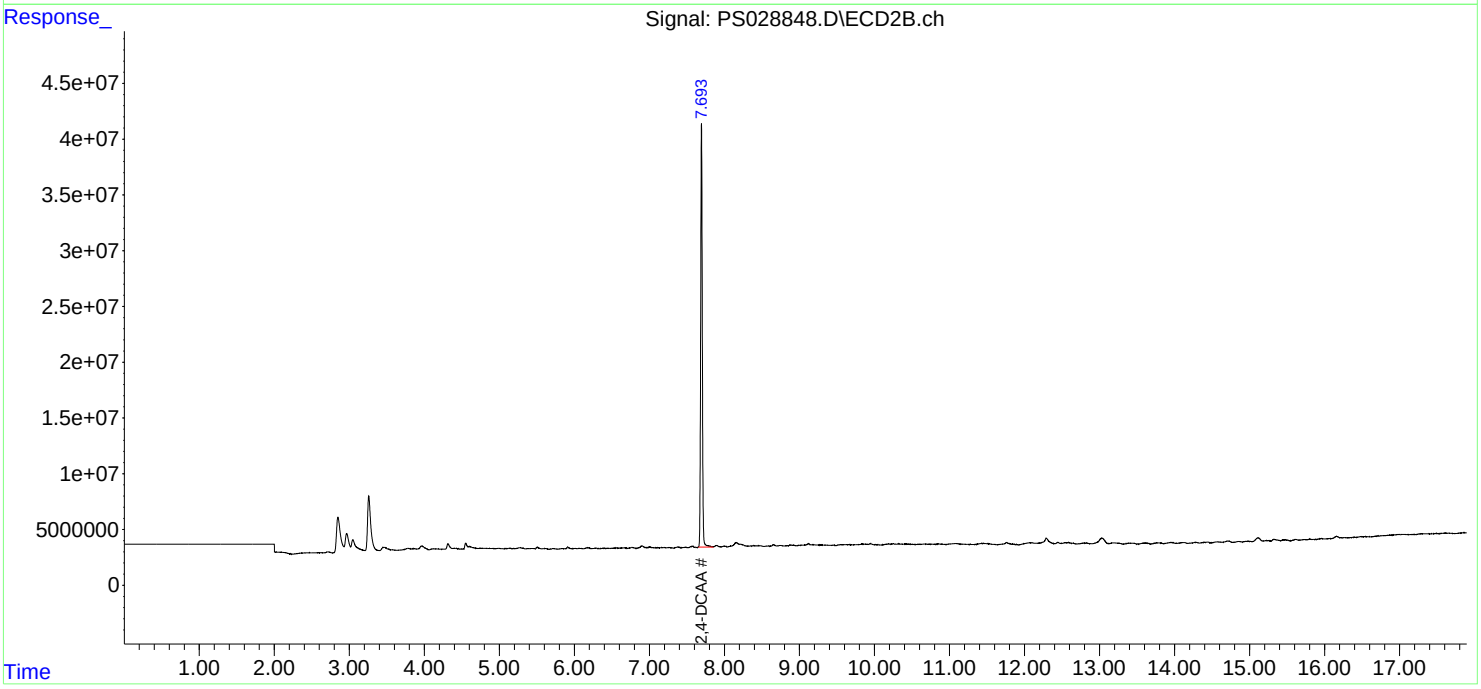
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028848.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 09:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

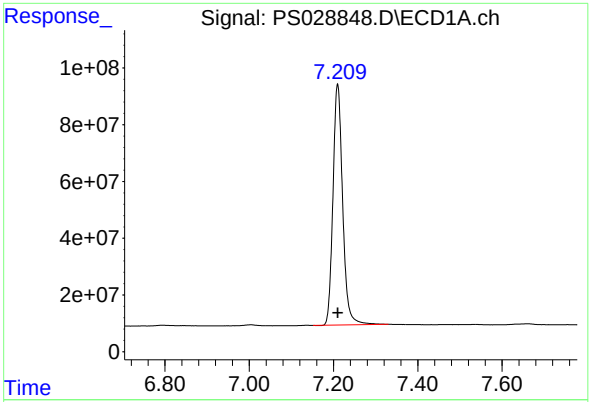
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:36:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



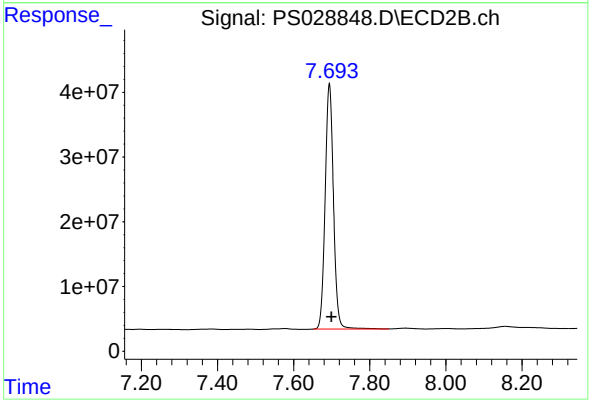




#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 1355964772
Conc: 599.45 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 575985886
Conc: 511.74 ng/ml

Raw Data: **PS028852.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/30/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/30/24
Client Sample ID:	PIBLK-PS028852.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028852.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028852.D	1		12/30/24	ps123024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	602		32 - 138		120%	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\PS123024\
Data File : PS028852.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:38
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: Dec 31 01:38:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.209	7.694	1361.7E6	579.9E6	601.992	515.225
	Target Compounds						

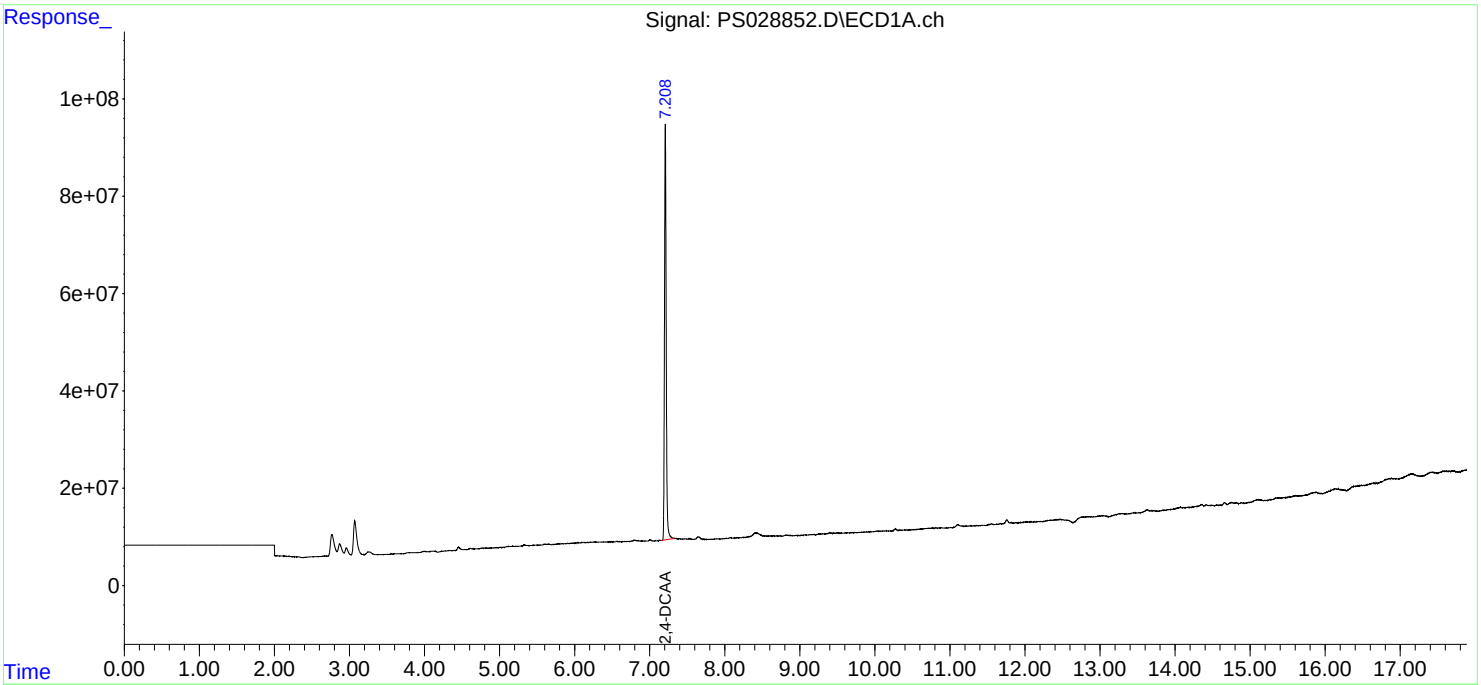
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

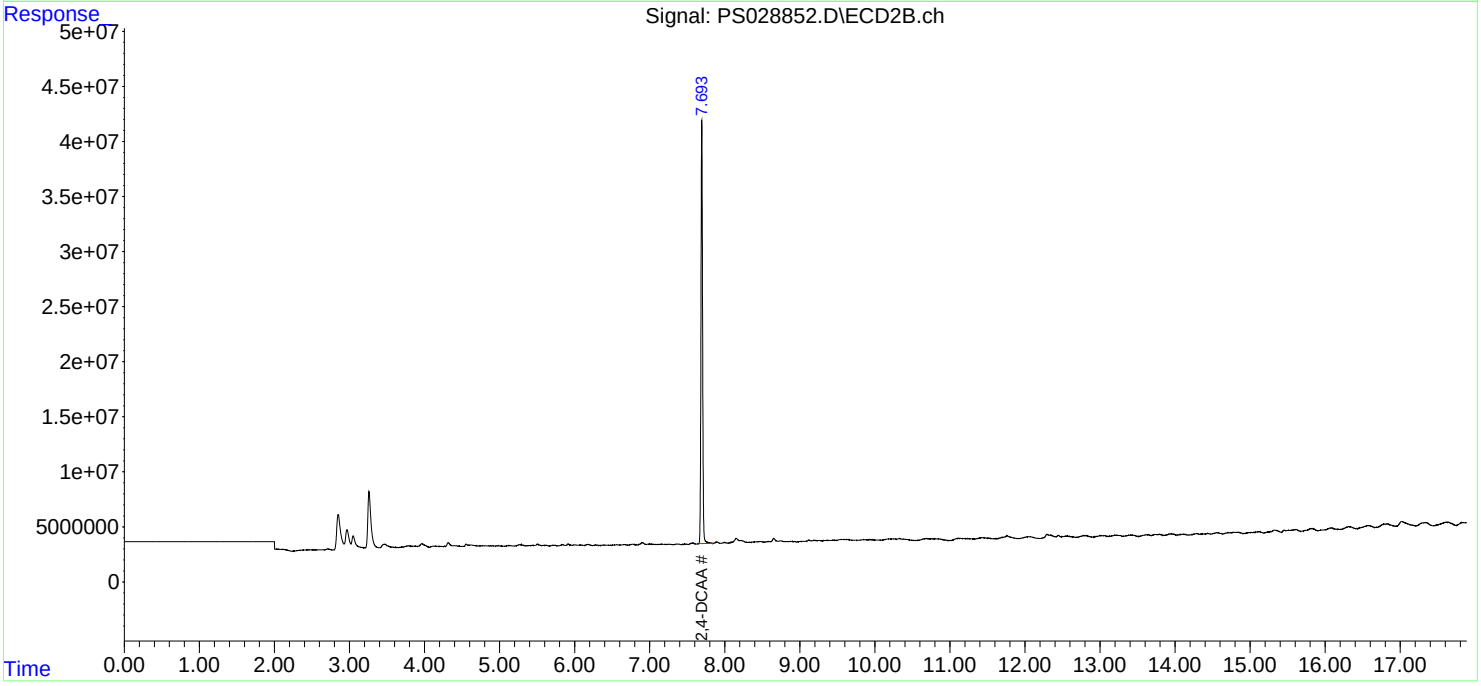
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028852.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 11:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

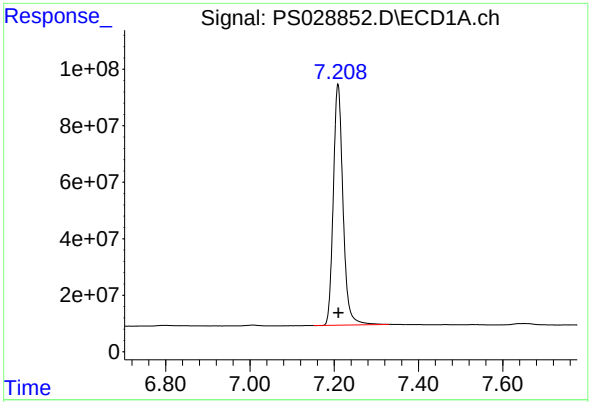
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



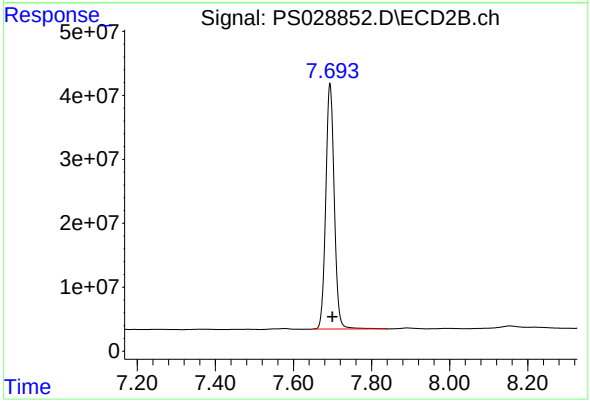




#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1361721003
Conc: 601.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 579904560
Conc: 515.22 ng/ml

Raw Data: **PS028861.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/31/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/31/24
Client Sample ID:	PIBLK-PS028861.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028861.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028861.D	1		12/31/24	PS123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	591		32 - 138		118%	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\PS123124\
Data File : PS028861.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.207	7.690	1337.7E6	577.2E6	591.368	512.855
	Target Compounds						

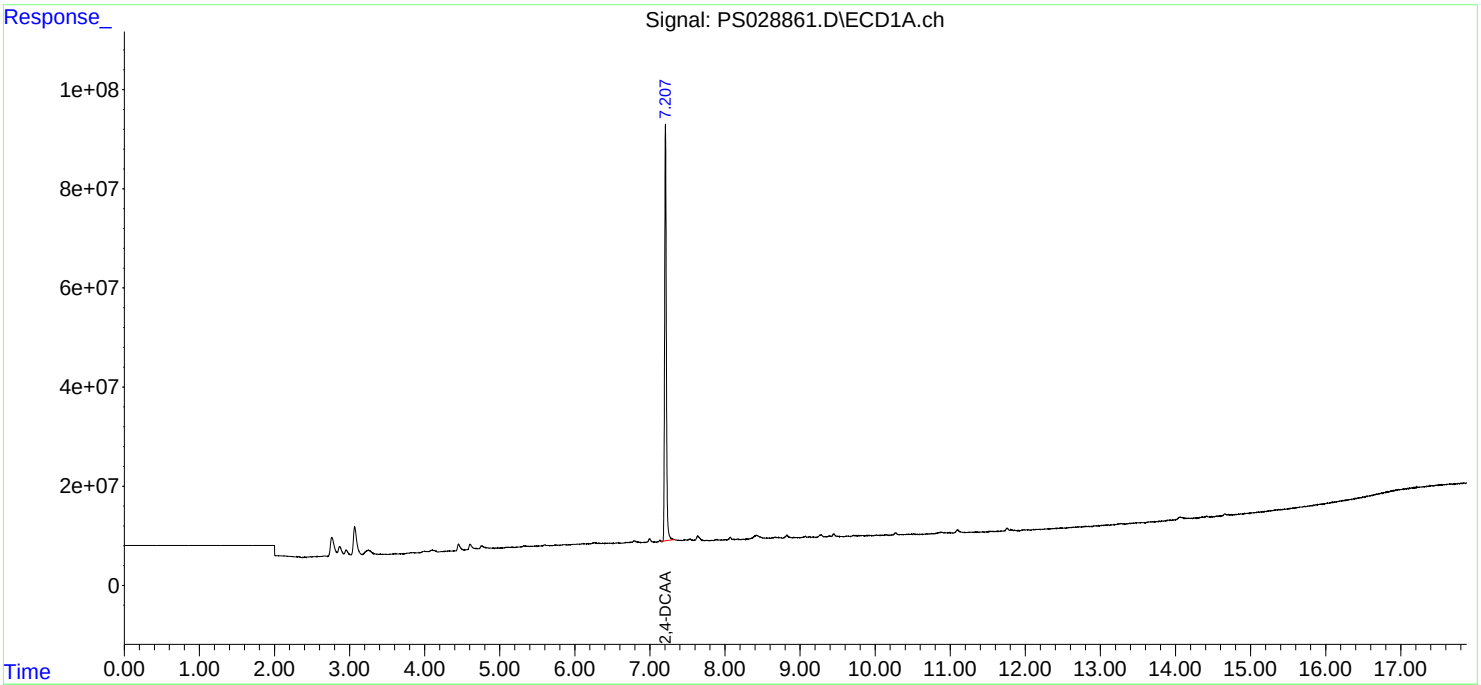
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

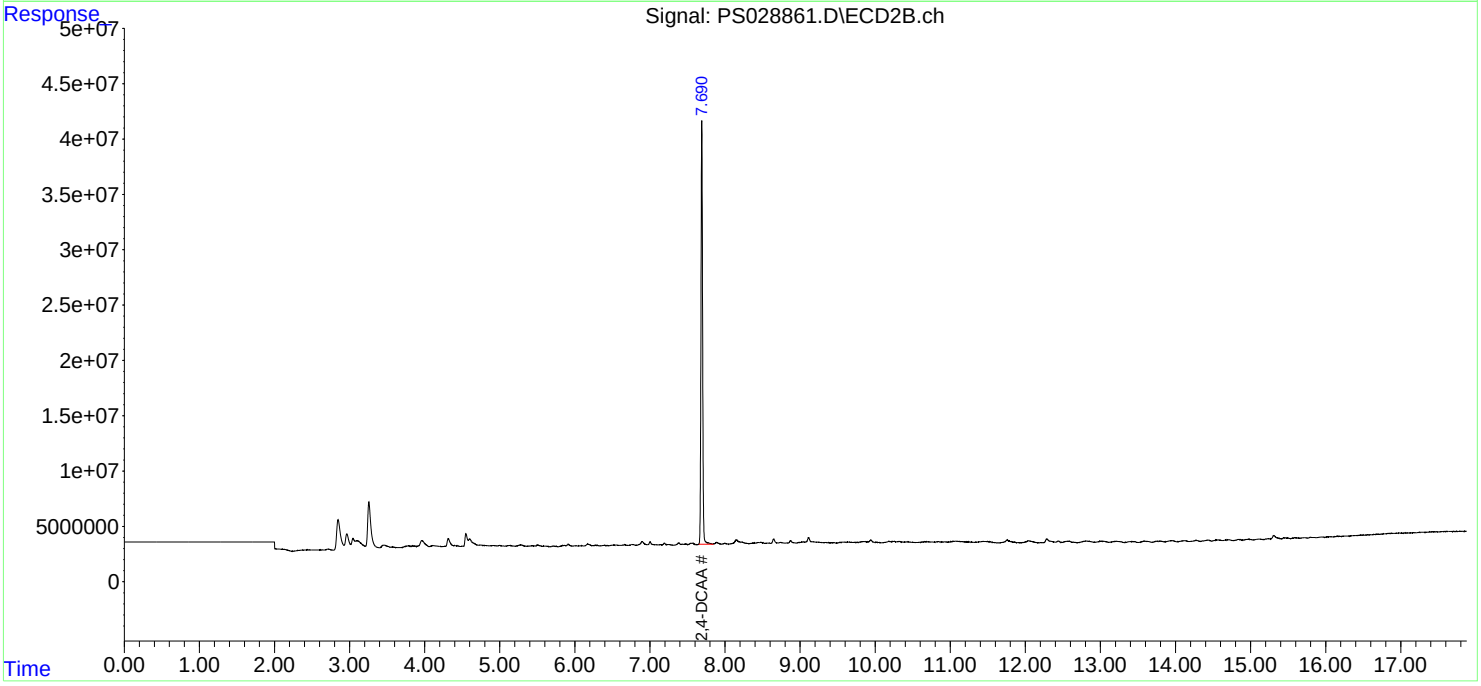
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028861.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

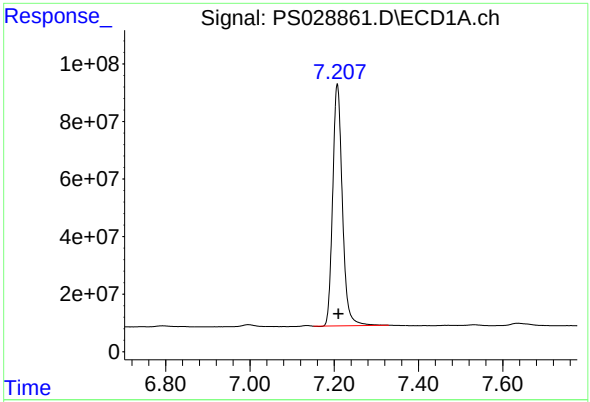
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



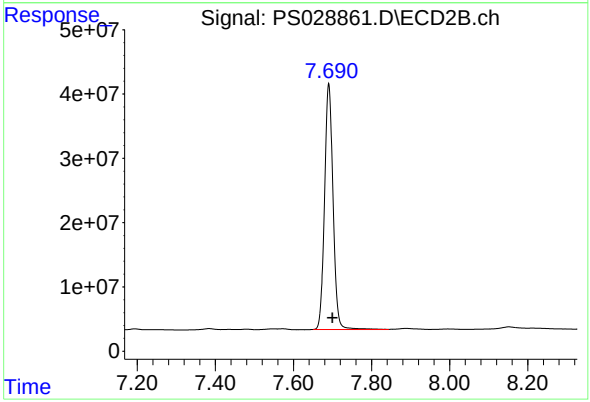




#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.002 min
Response: 1337690450
Conc: 591.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.690 min
Delta R.T.: -0.009 min
Response: 577237788
Conc: 512.86 ng/ml

Raw Data: **PS028864.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/31/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/31/24
Client Sample ID:	PIBLK-PS028864.D	SDG No.:	P5380
Lab Sample ID:	I.BLK-PS028864.D	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028864.D	1		12/31/24	PS123124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	600		32 - 138		120%	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\PS123124\
Data File : PS028864.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:16
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: Jan 01 00:25:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.208	7.691	1357.7E6	584.2E6	600.231	519.000
	Target Compounds						

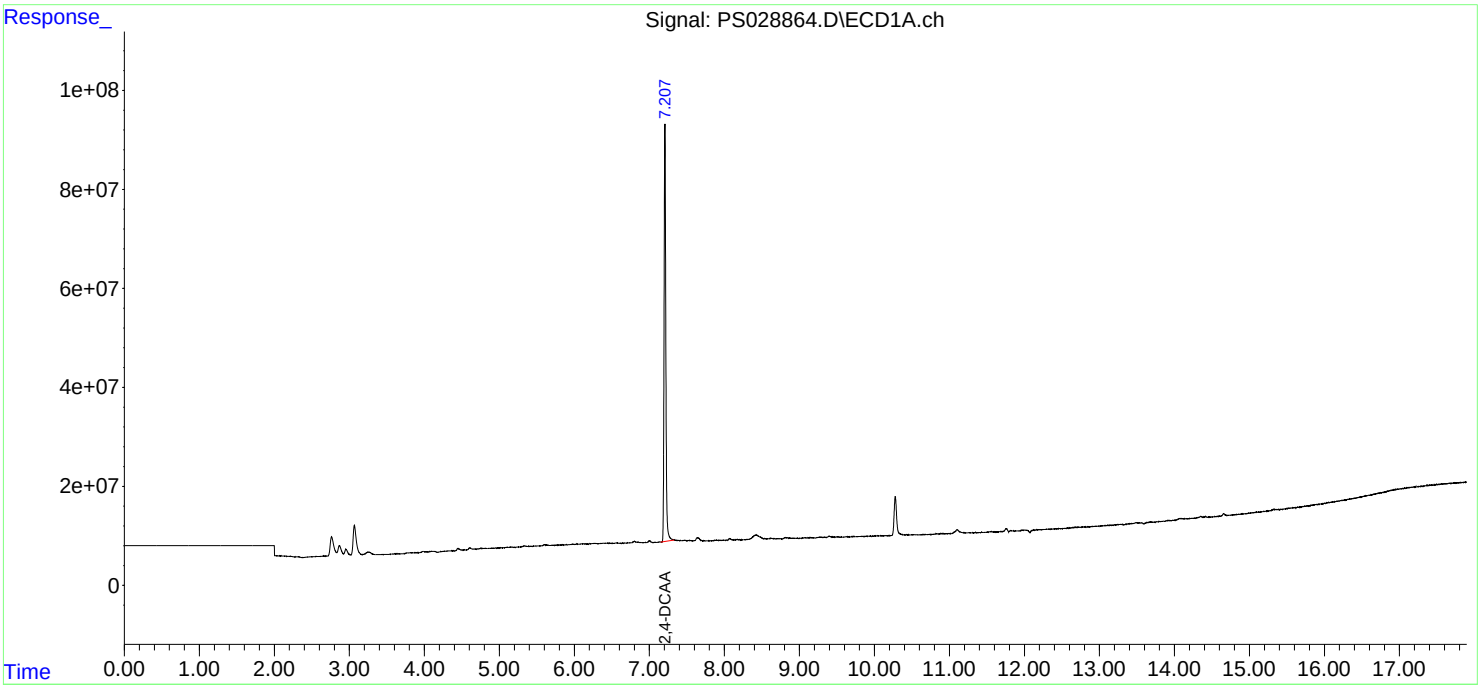
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

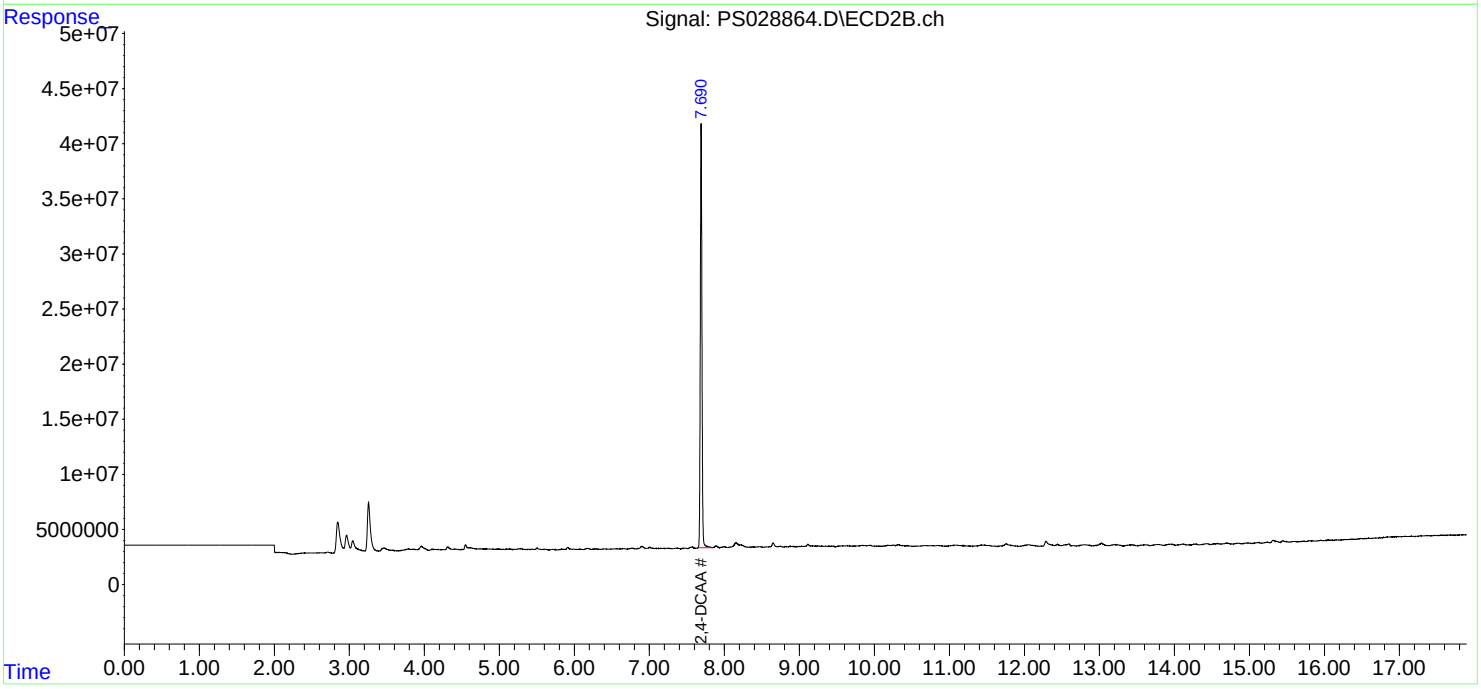
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028864.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

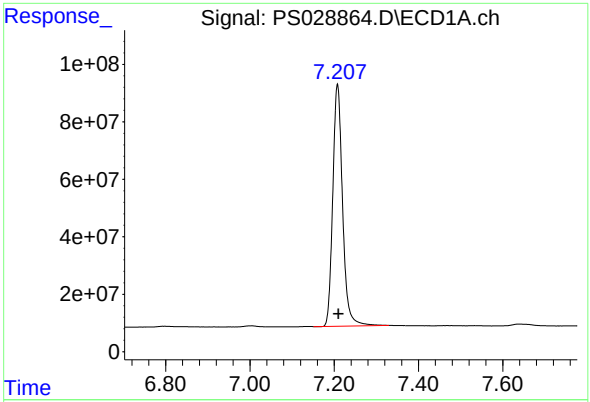
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



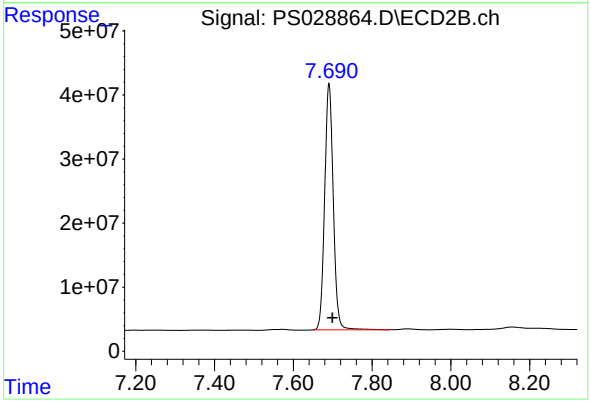




#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1357737261
Conc: 600.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.691 min
Delta R.T.: -0.009 min
Response: 584153821
Conc: 519.00 ng/ml

Raw Data: **PS028839.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB165896BS	SDG No.:	P5380
Lab Sample ID:	PB165896BS	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028839.D	1	12/27/24 10:20	12/27/24 21:32	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	5.30		0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.60		0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	575		32 - 138		115%	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\PS122724\
Data File : PS028839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:32
Operator : AR\AJ
Sample : PB165896BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB165896BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1300.0E6	587.6E6	574.724	522.084
		Target Compounds						
1)	T	Dalapon	2.620	2.675	1416.2E6	928.5E6	502.788	471.637
2)	T	3,5-DICHL...	6.381	6.657	1788.0E6	805.8E6	542.604	486.103
3)	T	4-Nitroph...	7.004	7.223	776.6E6	400.4E6	517.046	478.494
5)	T	DICAMBA	7.391	7.892	5408.0E6	2690.8E6	548.439	490.139
6)	T	MCPP	7.571	7.994	318.9E6	155.2E6	51.204	47.499
7)	T	MCPA	7.720	8.236	441.0E6	220.9E6	50.311	47.672
8)	T	DICHLORPROP	8.096	8.604	1452.7E6	687.4E6	547.544	498.258
9)	T	2,4-D	8.325	8.933	1513.9E6	709.8E6	531.291	491.851
10)	T	Pentachlo...	8.622	9.457	22482.0E6	11100.5E6	575.474	509.227
11)	T	2,4,5-TP ...	9.198	9.834	8804.5E6	4498.9E6	560.464	500.791
12)	T	2,4,5-T	9.490	10.252	9005.1E6	4314.6E6	553.508	495.413
13)	T	2,4-DB	10.060	10.817	1640.7E6	481.2E6	525.610	495.513
14)	T	DINOSEB	11.266	11.195	7326.0E6	2951.7E6	545.019	479.246
15)	T	Picloram	11.076	12.281	14075.6E6	6142.1E6	524.958	478.390
16)	T	DCPA	11.561	12.235	13335.1E6	5430.0E6	554.449	505.371

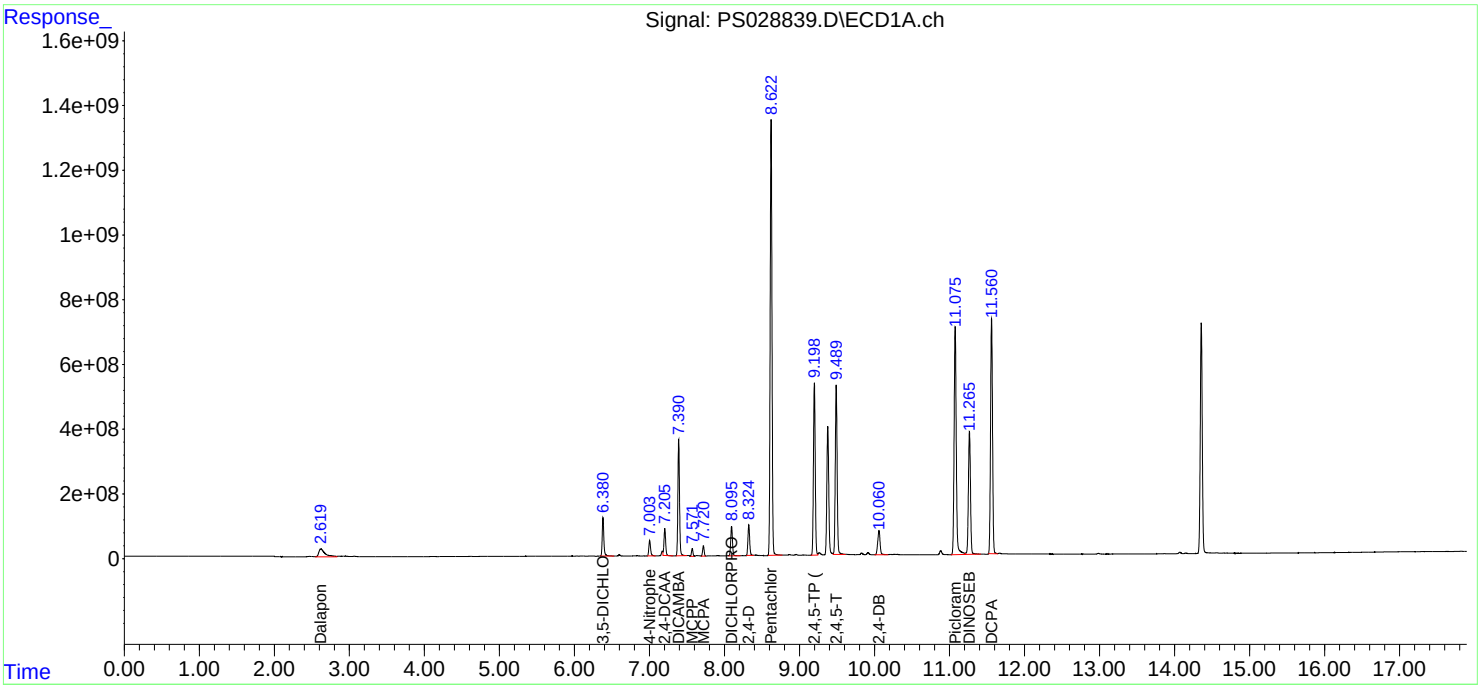
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

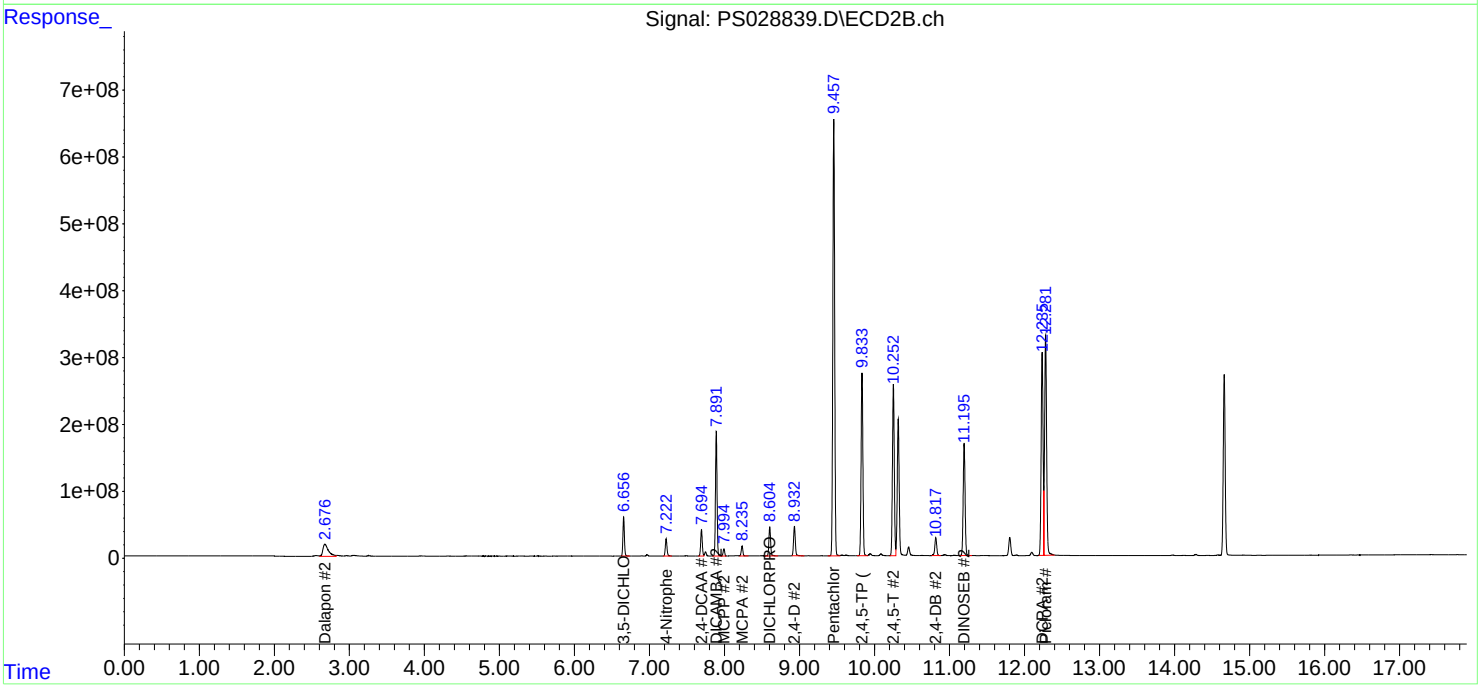
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 21:32
Operator : AR\AJ
Sample : PB165896BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

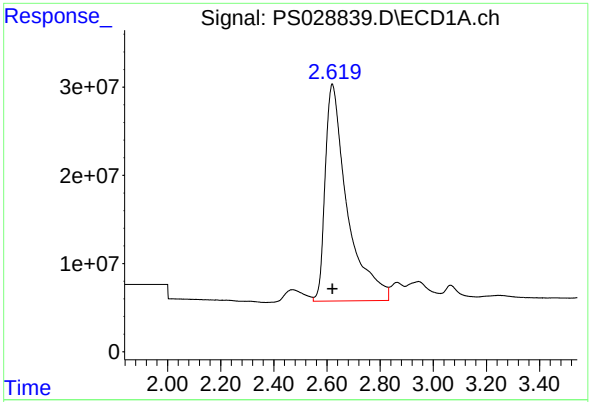
Instrument :
ECD_S
ClientSampleId :
PB165896BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



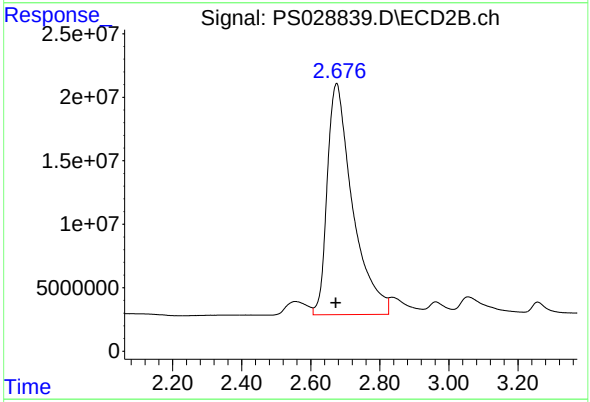




#1 Dalapon

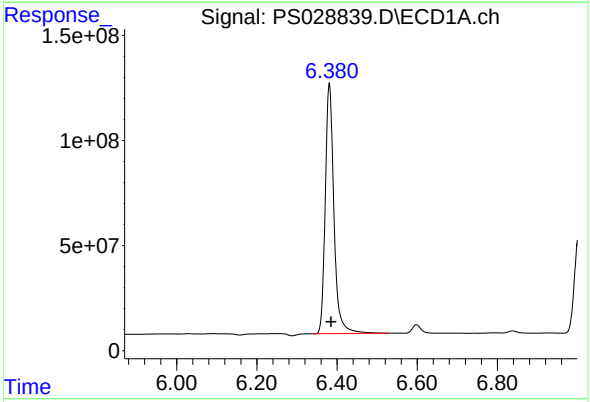
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1416177375
Conc: 502.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



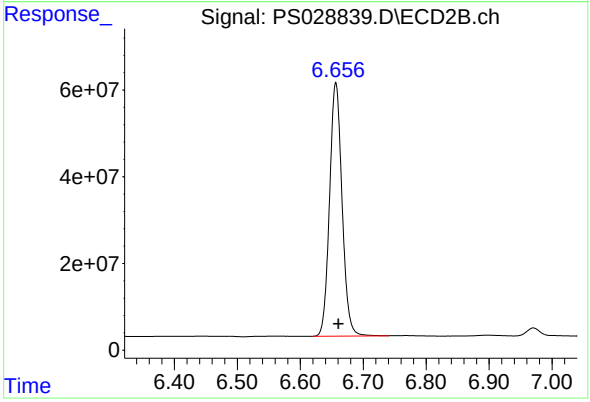
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 928466330
Conc: 471.64 ng/ml



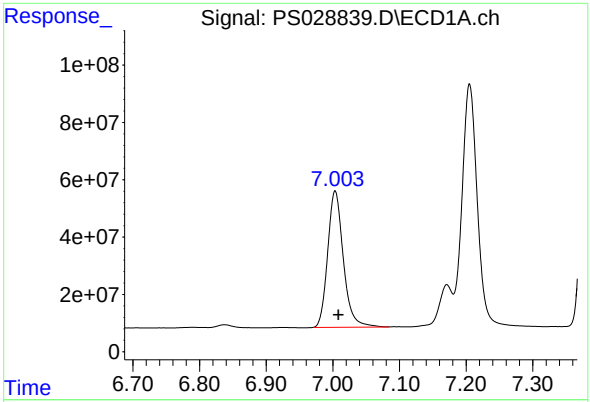
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1787952385
Conc: 542.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

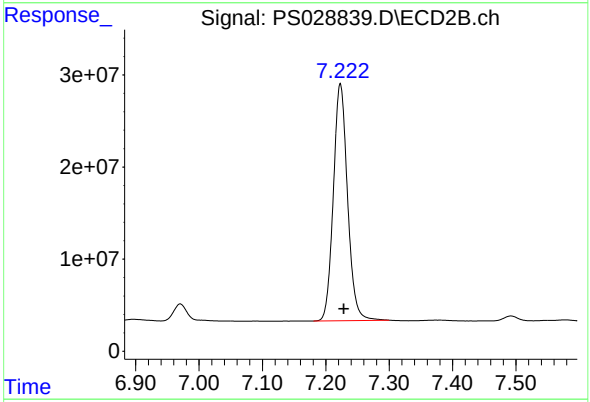
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 805750411
Conc: 486.10 ng/ml



#3 4-Nitrophenol

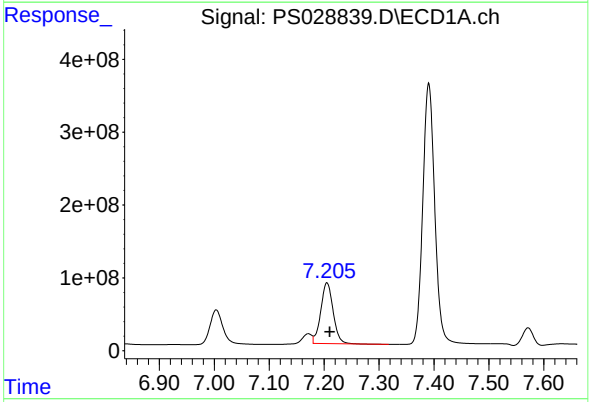
R.T.: 7.004 min
Delta R.T.: -0.005 min
Response: 776633220
Conc: 517.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



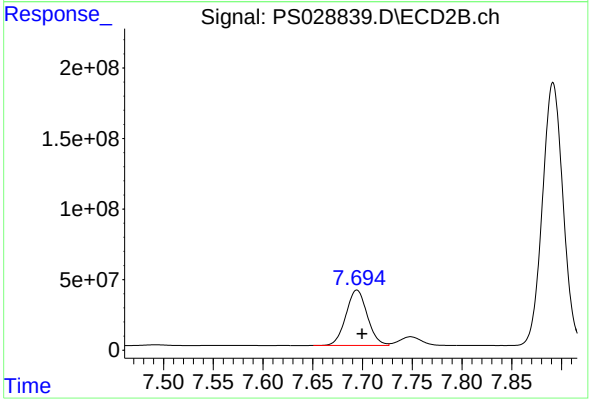
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 400448459
Conc: 478.49 ng/ml



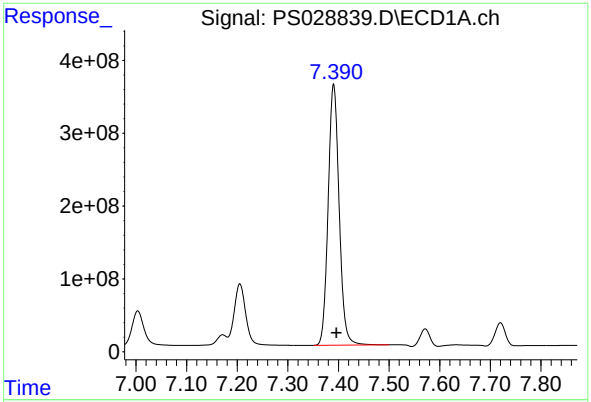
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.005 min
Response: 1300040543
Conc: 574.72 ng/ml



#4 2,4-DCAA

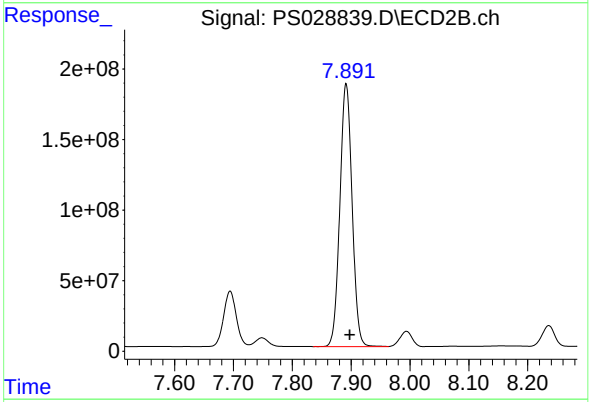
R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 587624621
Conc: 522.08 ng/ml



#5 DICAMBA

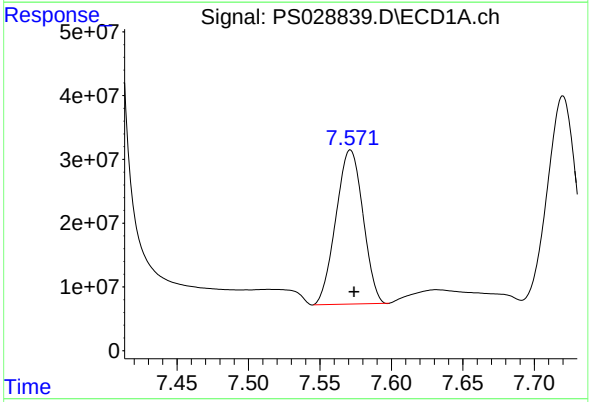
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 5407957692
Conc: 548.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



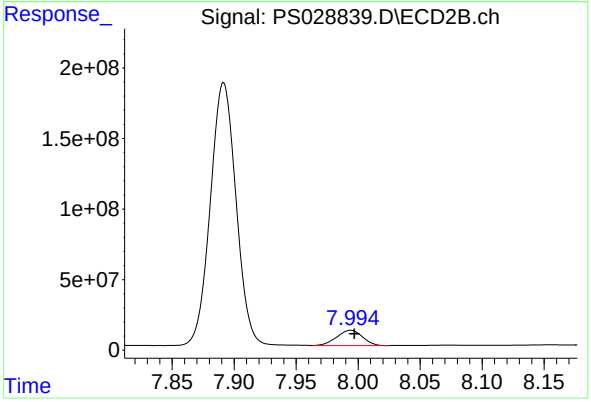
#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.006 min
Response: 2690800765
Conc: 490.14 ng/ml



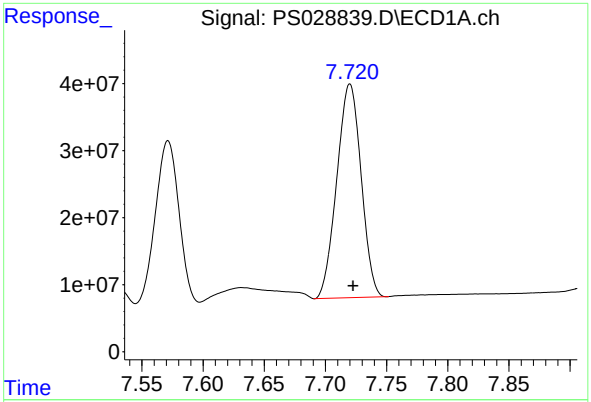
#6 MCPP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 318858732
Conc: 51.20 ug/ml



#6 MCPP

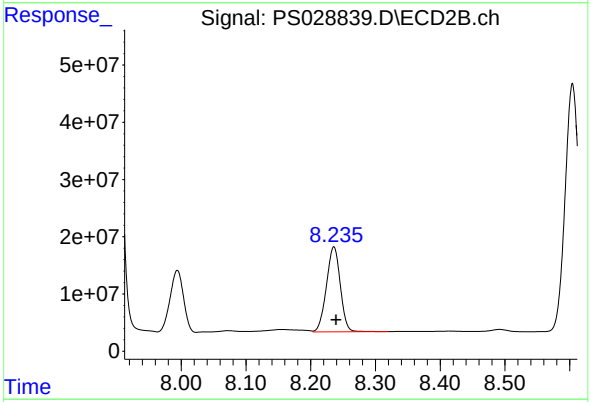
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 155216681
Conc: 47.50 ug/ml



#7 MCPA

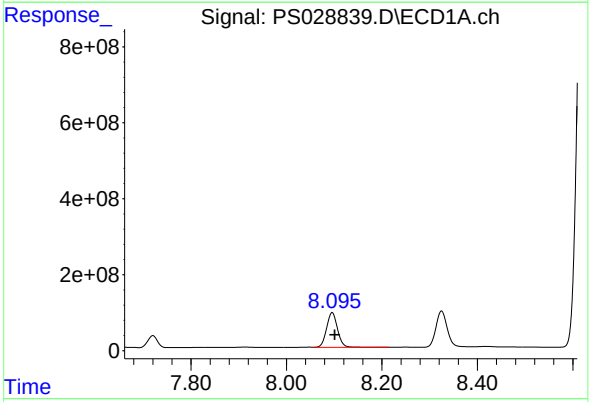
R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 440997958
Conc: 50.31 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



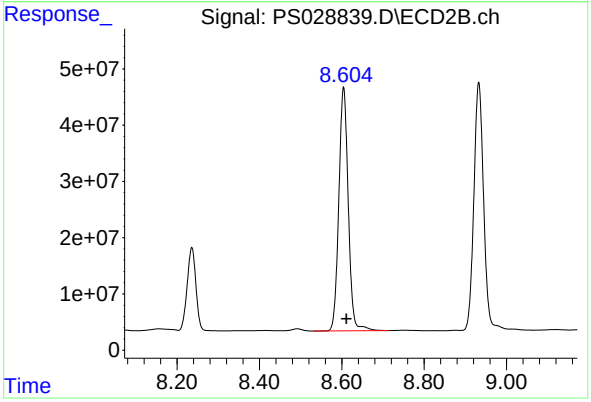
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 220858361
Conc: 47.67 ug/ml



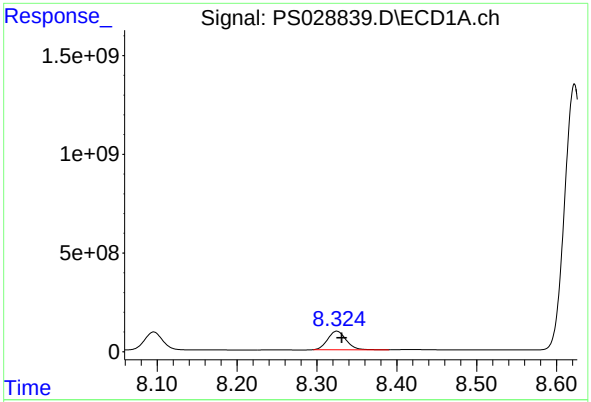
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1452731640
Conc: 547.54 ng/ml



#8 DICHLORPROP

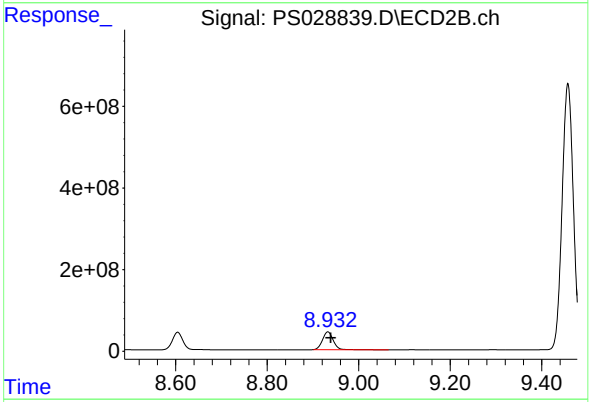
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 687425227
Conc: 498.26 ng/ml



#9 2,4-D

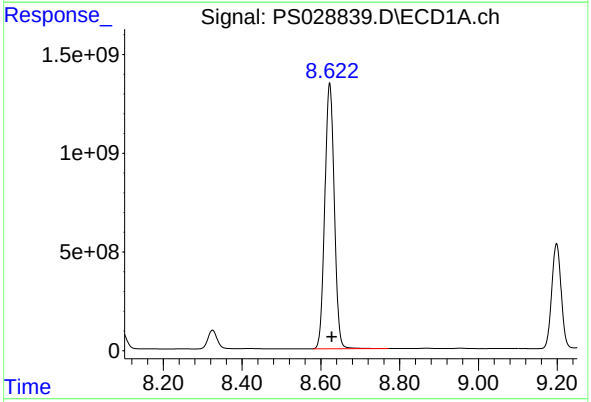
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1513932162
Conc: 531.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



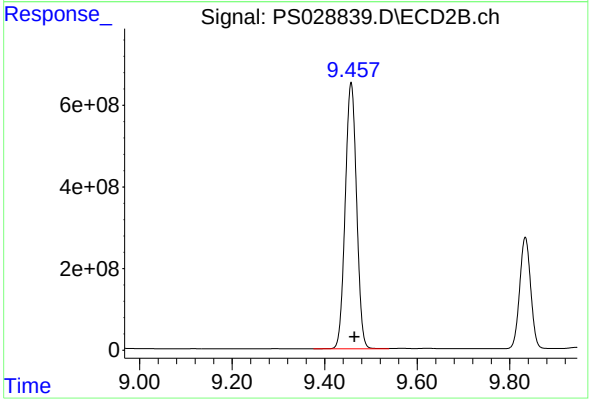
#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.007 min
Response: 709812572
Conc: 491.85 ng/ml



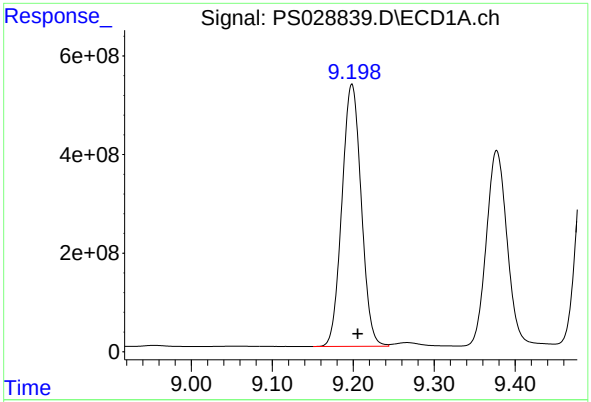
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 22482023994
Conc: 575.47 ng/ml



#10 Pentachlorophenol

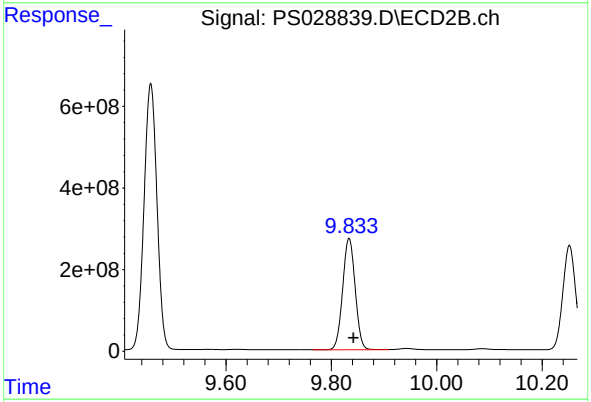
R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 11100495688
Conc: 509.23 ng/ml



#11 2,4,5-TP (SILVEX)

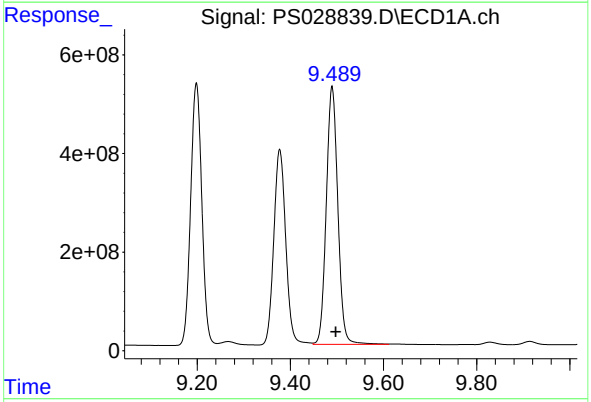
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8804516352
Conc: 560.46 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



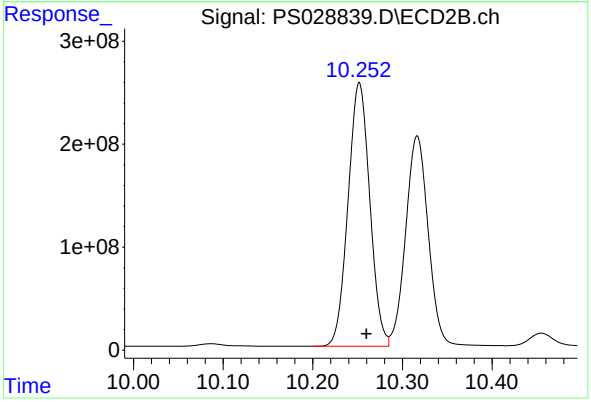
#11 2,4,5-TP (SILVEX)

R.T.: 9.834 min
Delta R.T.: -0.008 min
Response: 4498865182
Conc: 500.79 ng/ml



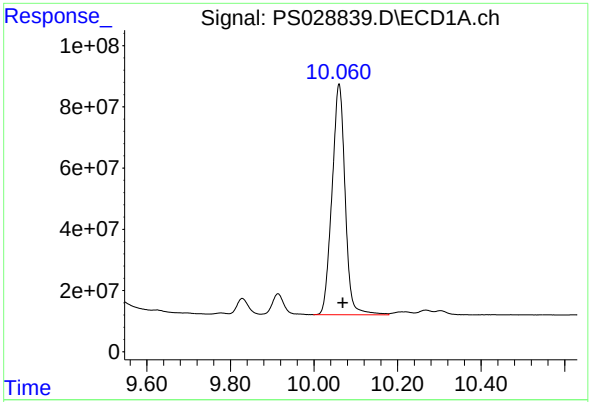
#12 2,4,5-T

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 9005118941
Conc: 553.51 ng/ml



#12 2,4,5-T

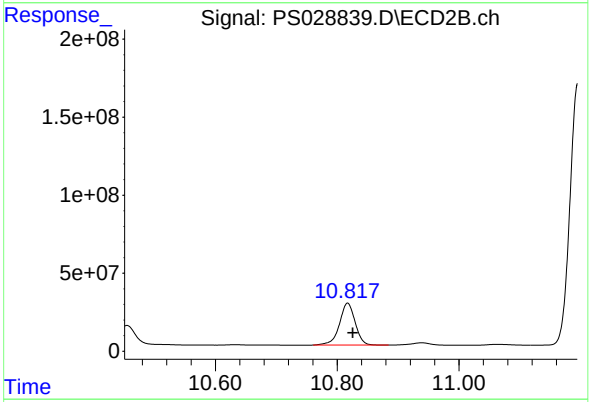
R.T.: 10.252 min
Delta R.T.: -0.008 min
Response: 4314644169
Conc: 495.41 ng/ml



#13 2,4-DB

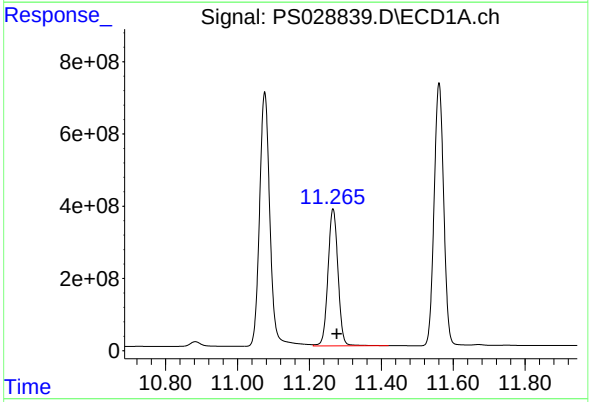
R.T.: 10.060 min
Delta R.T.: -0.009 min
Response: 1640744202
Conc: 525.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



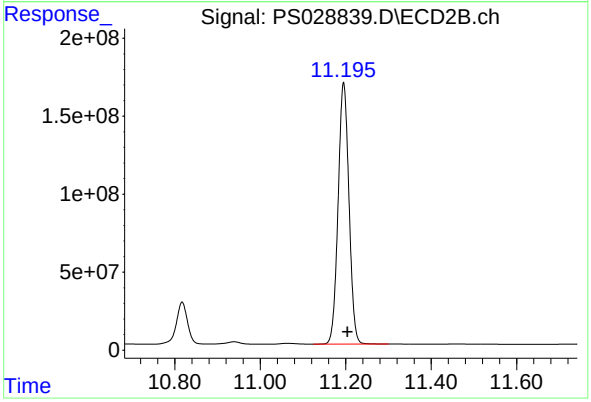
#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.009 min
Response: 481191163
Conc: 495.51 ng/ml



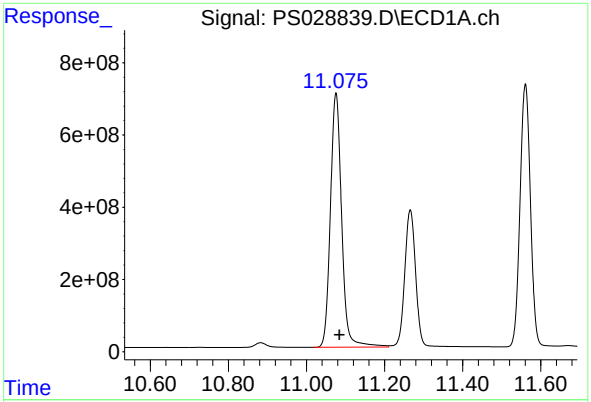
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 7326003067
Conc: 545.02 ng/ml



#14 DINOSEB

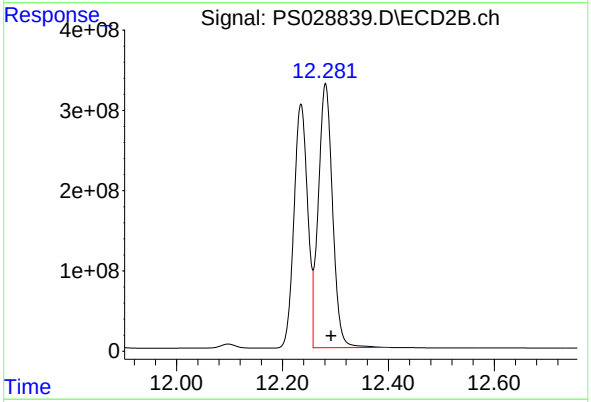
R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 2951747356
Conc: 479.25 ng/ml



#15 Picloram

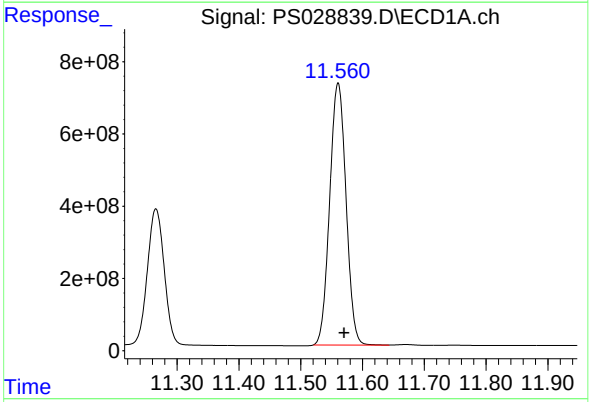
R.T.: 11.076 min
Delta R.T.: -0.009 min
Response: 14075585645
Conc: 524.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB165896BS



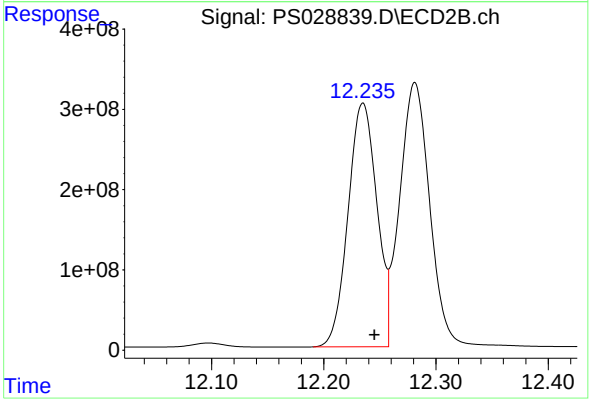
#15 Picloram

R.T.: 12.281 min
Delta R.T.: -0.011 min
Response: 6142057730
Conc: 478.39 ng/ml



#16 DCPA

R.T.: 11.561 min
Delta R.T.: -0.010 min
Response: 13335067486
Conc: 554.45 ng/ml



#16 DCPA

R.T.: 12.235 min
Delta R.T.: -0.010 min
Response: 5429993662
Conc: 505.37 ng/ml

Raw Data: **PS028842.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/19/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/19/24
Client Sample ID:	WC-SOIL-20241219MS	SDG No.:	P5380
Lab Sample ID:	P5362-02MS	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028842.D	1	12/27/24 10:20	12/27/24 22:44	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	56.3		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	60.6		4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	716	*	32 - 138		143%	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\PS122724\
Data File : PS028842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:44
Operator : AR\AJ
Sample : P5362-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.206	7.694	1619.3E6	443.8E6	715.849	394.257 #
		Target Compounds						
1)	T	Dalapon	2.620	2.675	843.8E6	1084.9E6	299.590m	551.093m#
2)	T	3,5-DICHL...	6.381	6.656	1757.9E6	745.9E6	533.475	449.988m
3)	T	4-Nitroph...	6.992	0.000	22530972	0	15.000m	N.D. d#
5)	T	DICAMBA	7.391	7.892	4667.2E6	2441.6E6	473.321	444.744
6)	T	MCPP	7.571	7.994	263.5E6	147.8E6	42.321	45.219
7)	T	MCPA	7.720	8.236	369.3E6	276.5E6	42.127	59.674 #
8)	T	DICHLORPROP	8.095	8.605	1320.6E6	615.8E6	497.759	446.362
9)	T	2,4-D	8.324	8.932	1603.6E6	732.3E6	562.743m	507.454
10)	T	Pentachlo...	8.622	9.457	18222.1E6	8884.3E6	466.432	407.559
11)	T	2,4,5-TP ...	9.198	9.835	8847.5E6	5441.1E6	563.203	605.678
12)	T	2,4,5-T	9.489	10.251	8215.0E6	4038.2E6	504.941	463.676
13)	T	2,4-DB	10.062	10.816	1300.3E6	401.2E6	416.548	413.128
14)	T	DINOSEB	11.266	11.195	4317.7E6	1828.8E6	321.214	296.920
15)	T	Picloram	11.075	12.281	11399.3E6	4960.0E6	425.145	386.326
16)	T	DCPA	11.559	12.234	10341.9E6	4998.6E6	429.997	465.218

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

Sample Results: **PS028842.D**

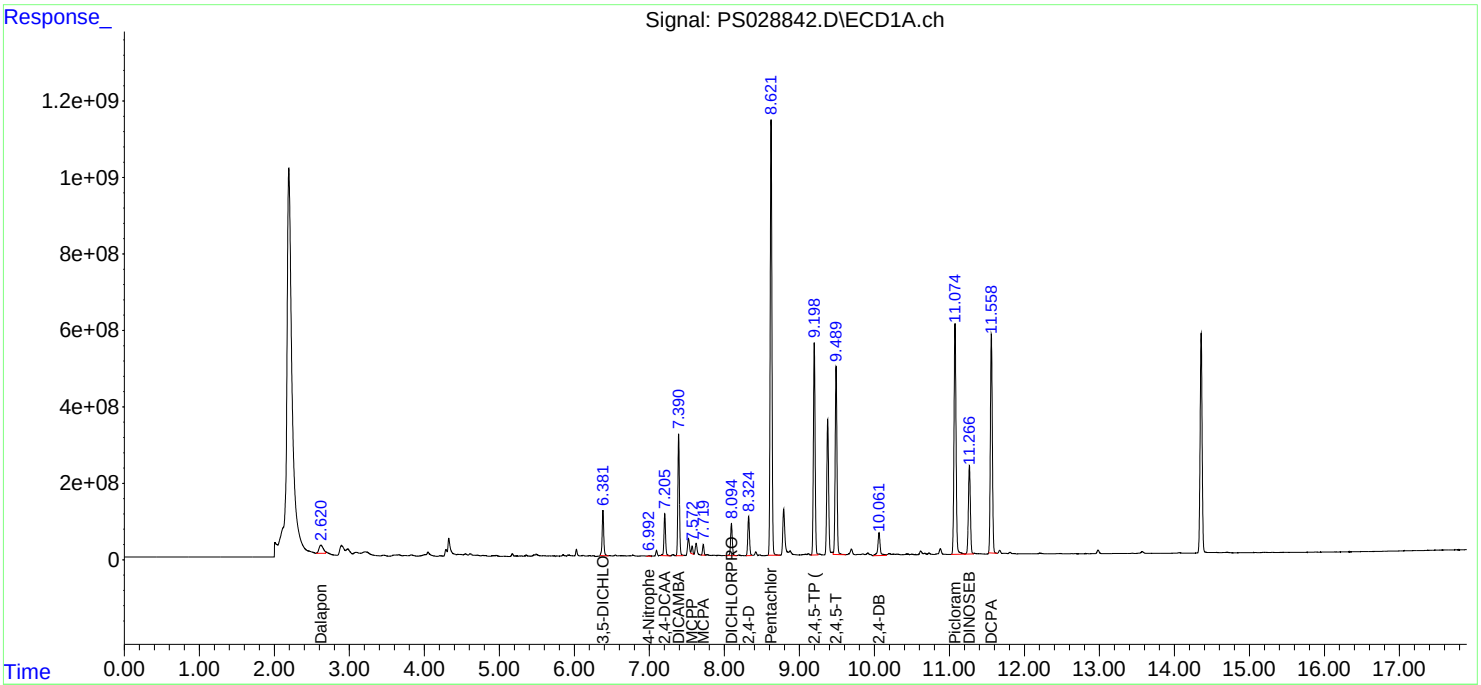
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:44
Operator : AR\AJ
Sample : P5362-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

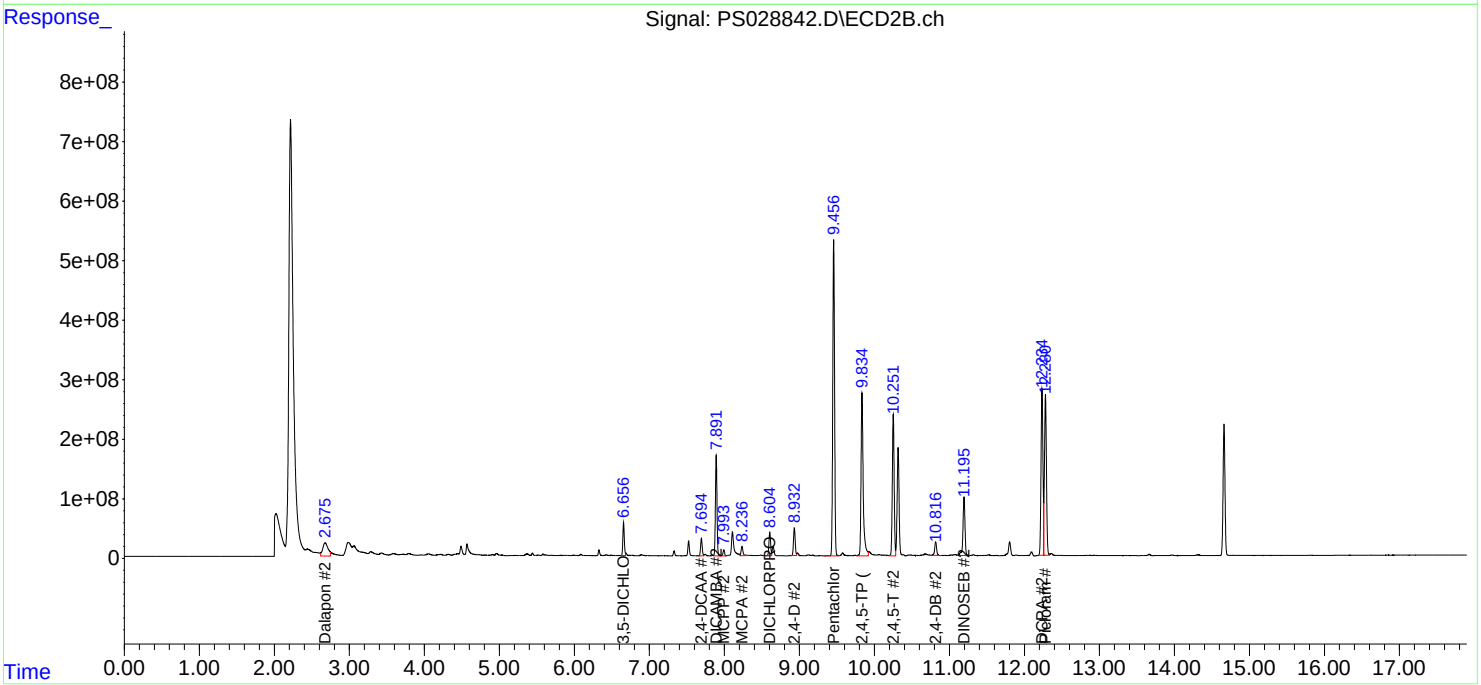
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

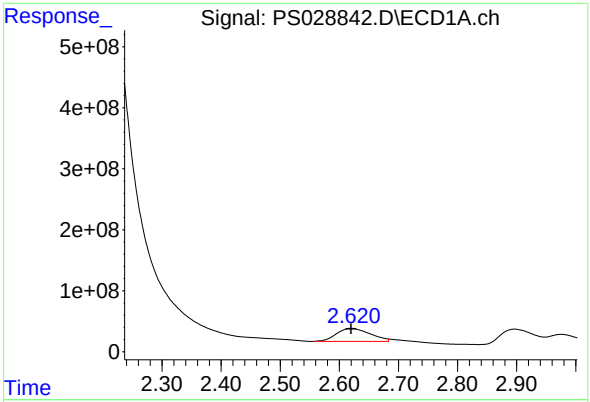
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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







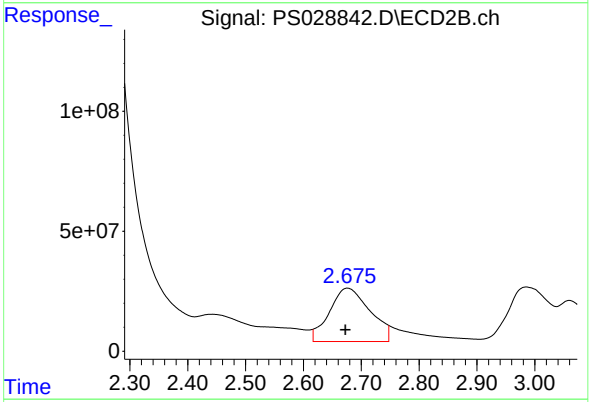
#1 Dalapon

R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 843839623
Conc: 299.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

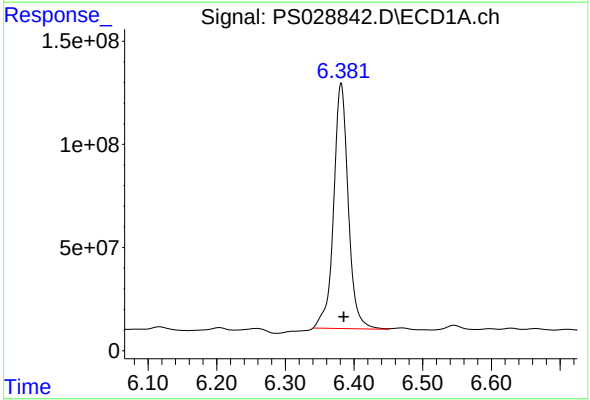
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



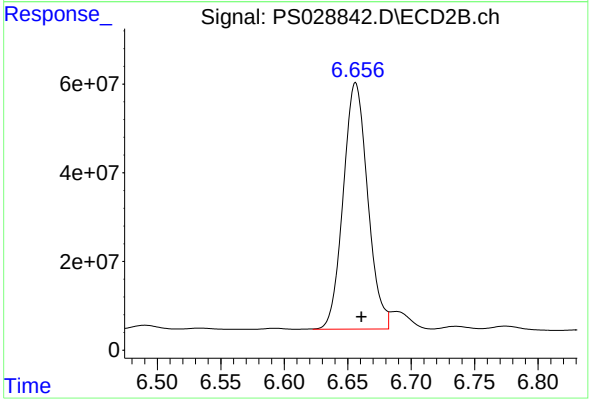
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.002 min
Response: 1084882891
Conc: 551.09 ng/ml m



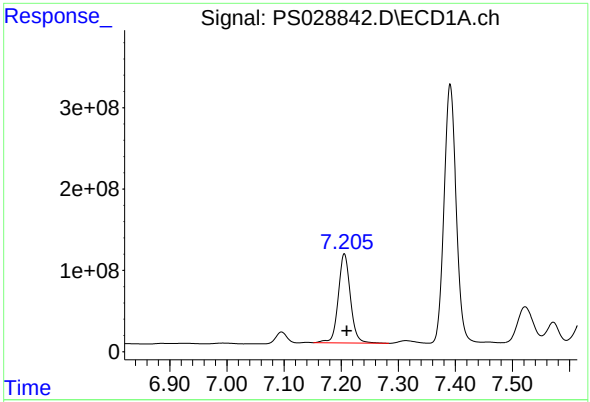
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1757871041
Conc: 533.47 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 745888388
Conc: 449.99 ng/ml m



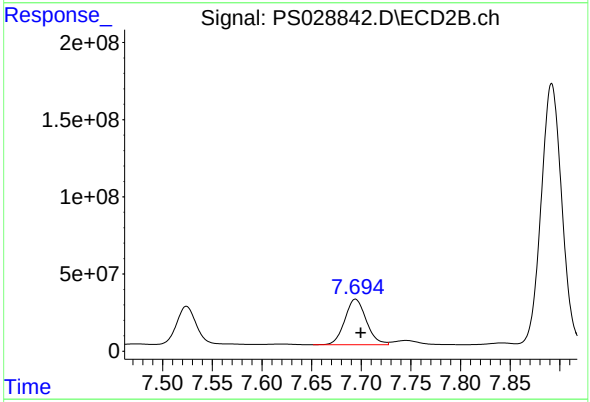
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1619268098
Conc: 715.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

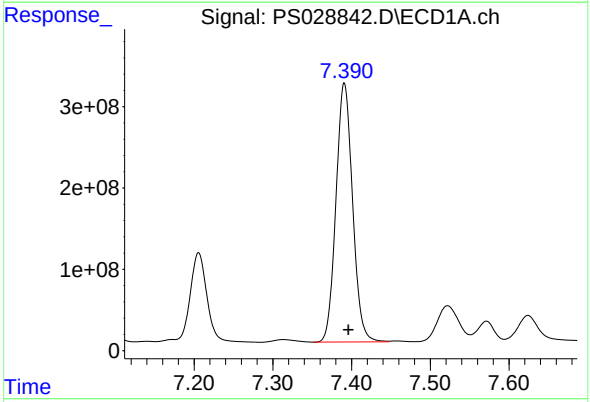
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



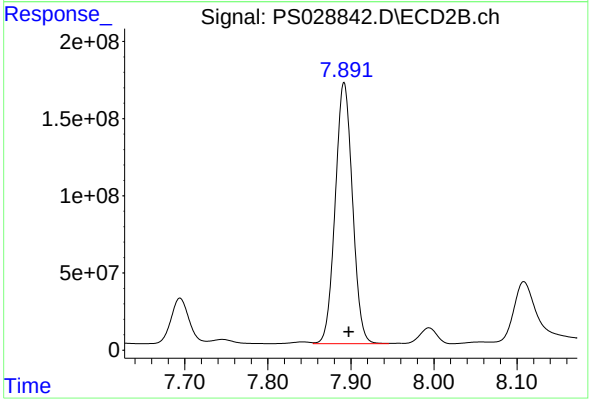
#4 2,4-DCAA

R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 443751426
Conc: 394.26 ng/ml



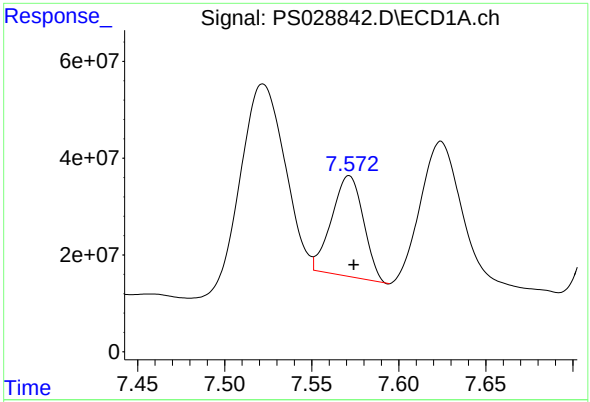
#5 DICAMBA

R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4667249294
Conc: 473.32 ng/ml



#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.006 min
Response: 2441586467
Conc: 444.74 ng/ml



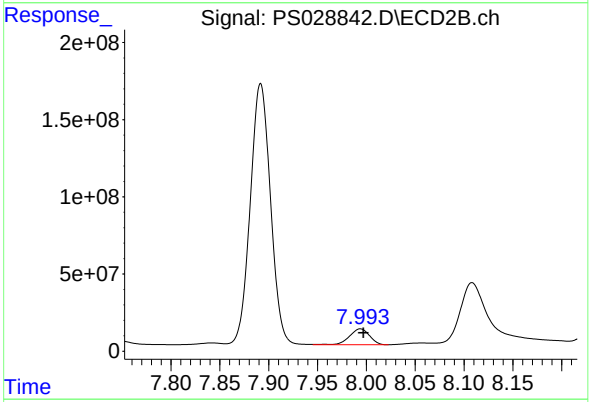
#6 MCPP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 263543280
Conc: 42.32 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

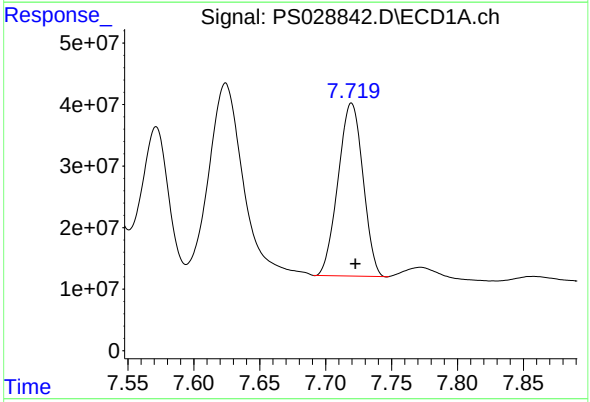
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



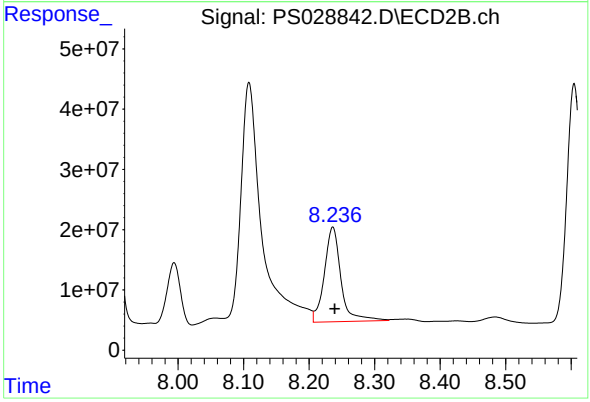
#6 MCPP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147766382
Conc: 45.22 ug/ml



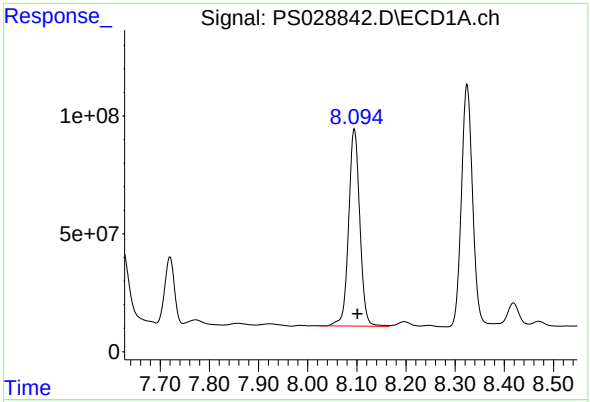
#7 MCPA

R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369261786
Conc: 42.13 ug/ml



#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 276461146
Conc: 59.67 ug/ml



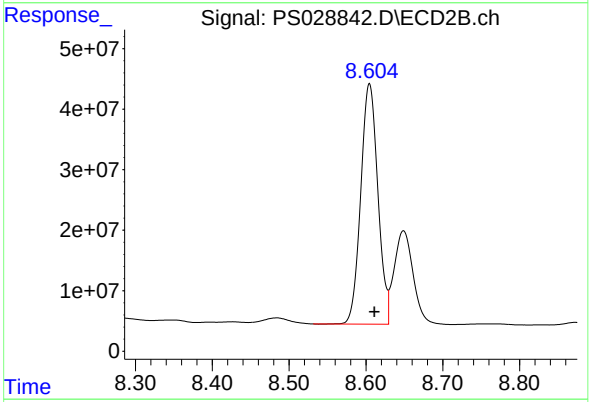
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 1320642746
Conc: 497.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

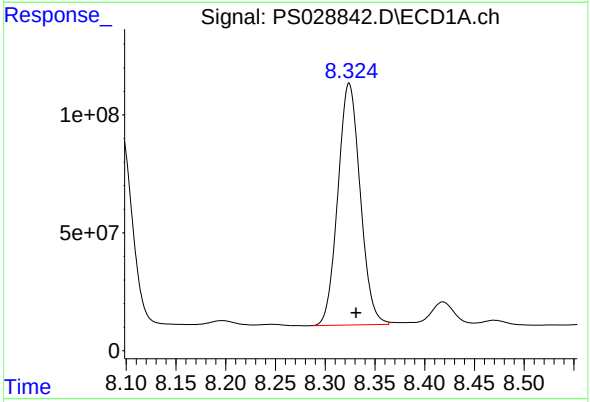
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



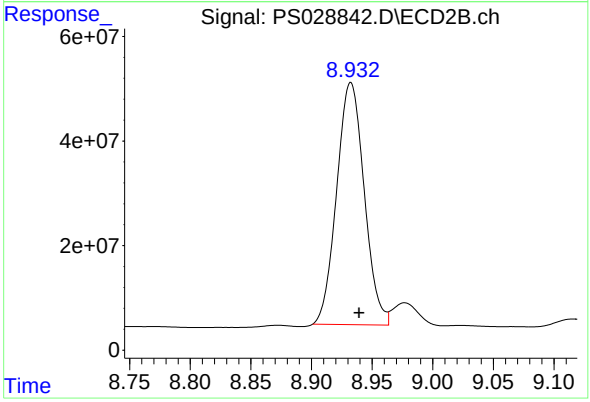
#8 DICHLORPROP

R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 615826659
Conc: 446.36 ng/ml



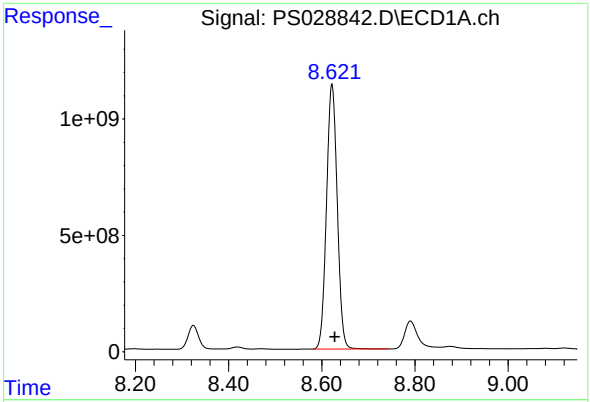
#9 2,4-D

R.T.: 8.324 min
Delta R.T.: -0.008 min
Response: 1603555294
Conc: 562.74 ng/ml m



#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 732329351
Conc: 507.45 ng/ml



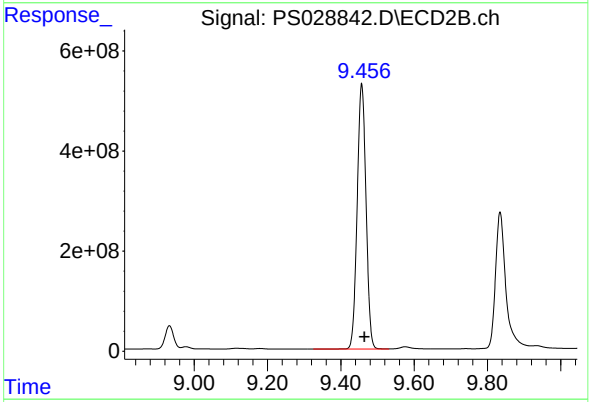
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 18222081326
Conc: 466.43 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

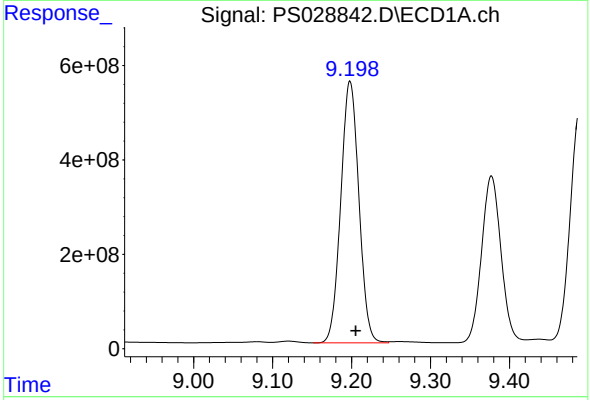
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



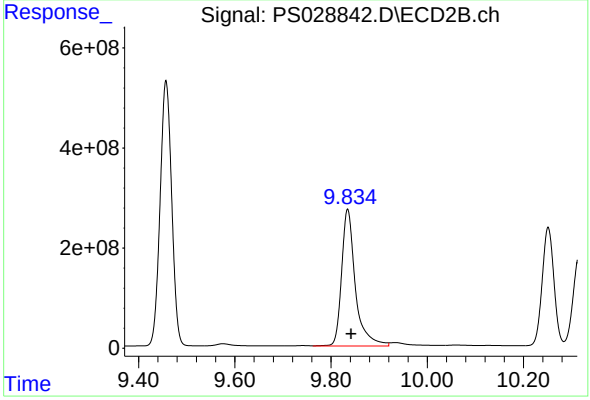
#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 8884255255
Conc: 407.56 ng/ml



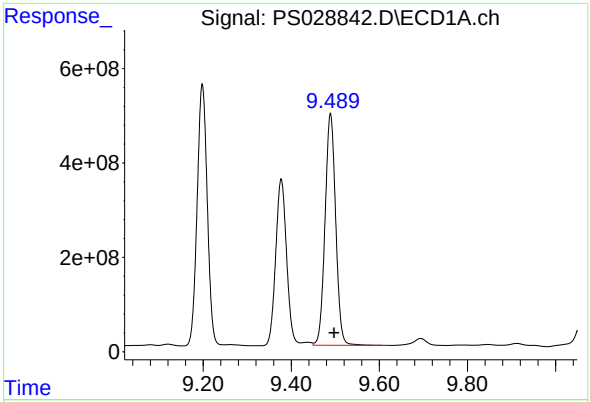
#11 2,4,5-TP (SILVEX)

R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8847543543
Conc: 563.20 ng/ml



#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 5441119823
Conc: 605.68 ng/ml



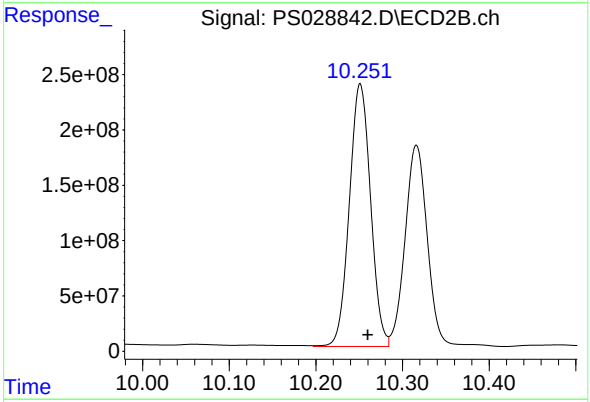
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8214982918
Conc: 504.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

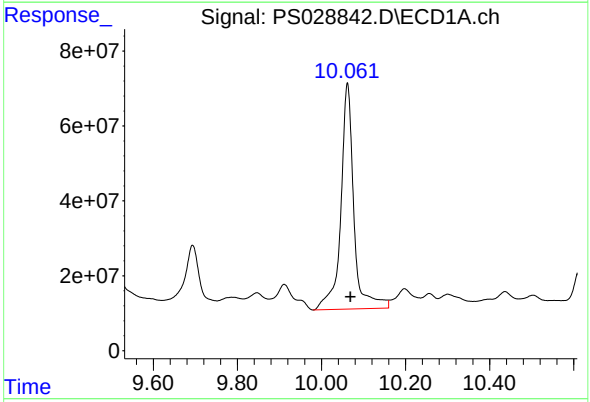
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



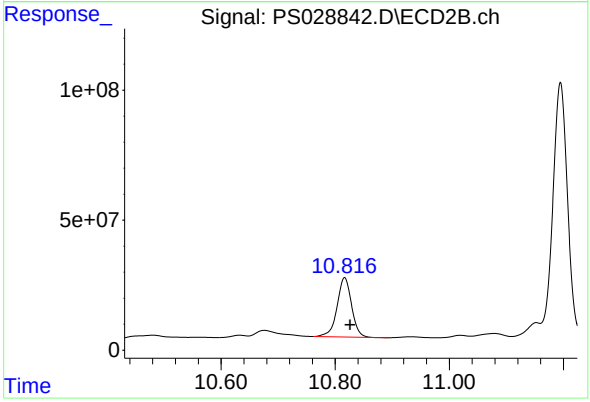
#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4038236865
Conc: 463.68 ng/ml



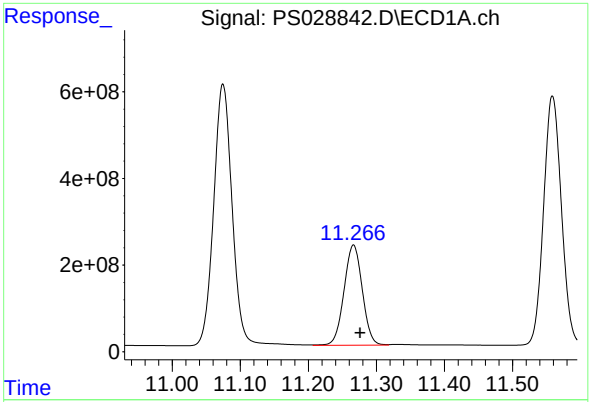
#13 2,4-DB

R.T.: 10.062 min
Delta R.T.: -0.007 min
Response: 1300294089
Conc: 416.55 ng/ml



#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.009 min
Response: 401187575
Conc: 413.13 ng/ml



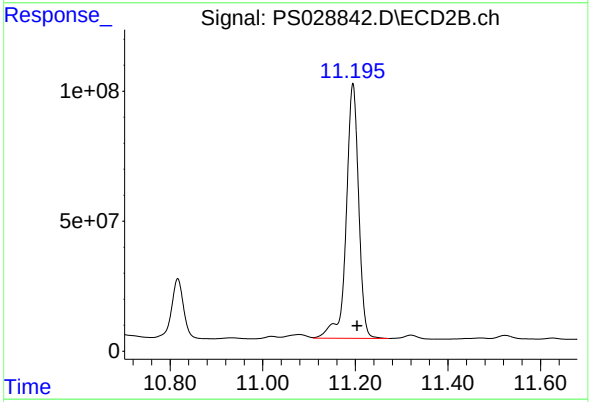
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4317674741
Conc: 321.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

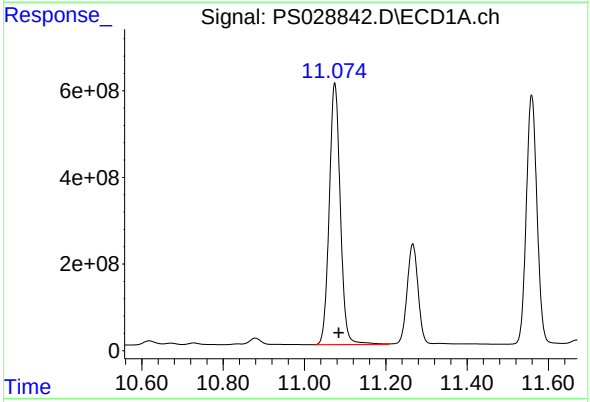
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



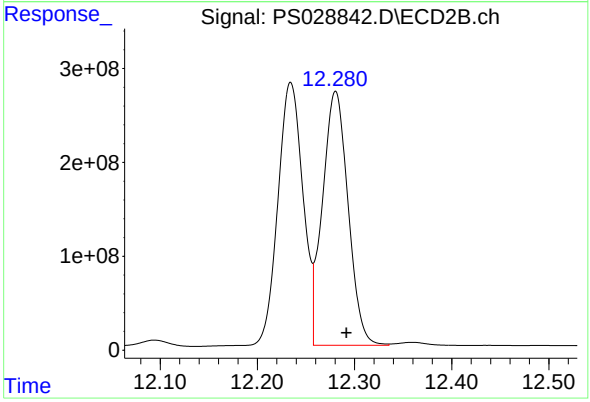
#14 DINOSEB

R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 1828773162
Conc: 296.92 ng/ml



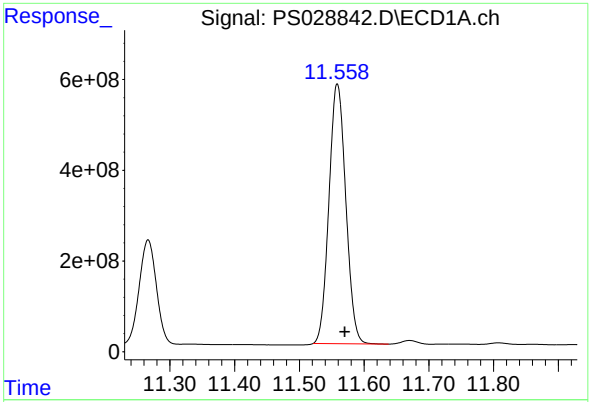
#15 Picloram

R.T.: 11.075 min
Delta R.T.: -0.010 min
Response: 11399310902
Conc: 425.14 ng/ml



#15 Picloram

R.T.: 12.281 min
Delta R.T.: -0.011 min
Response: 4960040884
Conc: 386.33 ng/ml



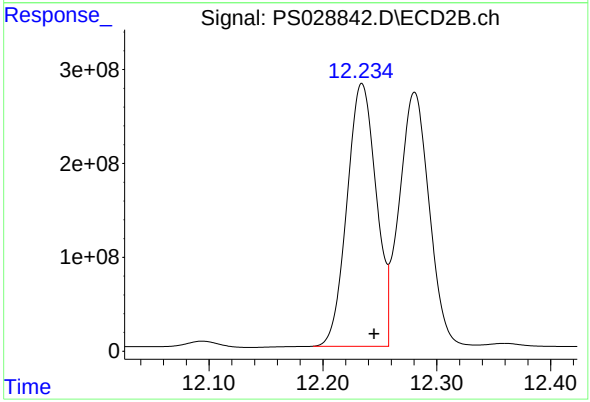
#16 DCPA

R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10341882538
Conc: 430.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 4998573728
Conc: 465.22 ng/ml

Raw Data: **PS028843.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/19/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/19/24
Client Sample ID:	WC-SOIL-20241219MSD	SDG No.:	P5380
Lab Sample ID:	P5362-02MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% 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
PS028843.D	1	12/27/24 10:20	12/27/24 23:08	PB165896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	55.1		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	62.5		4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	715	*	32 - 138		143%	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

Sample Results: **PS028843.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:08
Operator : AR\AJ
Sample : P5362-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.206	7.695	1618.0E6	443.5E6	715.295	394.029 #
		Target Compounds						
1)	T	Dalapon	2.623	2.677	895.4E6	1165.9E6	317.909m	592.243m#
2)	T	3,5-DICHL...	6.381	6.656	1747.6E6	744.4E6	530.351	449.063m
5)	T	DICAMBA	7.391	7.892	4678.5E6	2439.7E6	474.466	444.401
6)	T	MCPP	7.571	7.994	269.2E6	147.1E6	43.234	45.008
7)	T	MCPA	7.720	8.236	369.6E6	271.0E6	42.165	58.489 #
8)	T	DICHLORPROP	8.096	8.605	1307.4E6	618.0E6	492.757	447.973
9)	T	2,4-D	8.325	8.933	1570.4E6	727.6E6	551.092	504.185
10)	T	Pentachlo...	8.622	9.457	18250.9E6	8870.3E6	467.169	406.916
11)	T	2,4,5-TP ...	9.198	9.835	8848.1E6	5610.4E6	563.238	624.527
12)	T	2,4,5-T	9.489	10.251	8228.2E6	4030.9E6	505.757	462.831
13)	T	2,4-DB	10.062	10.817	1262.0E6	402.5E6	404.283	414.493
14)	T	DINOSEB	11.266	11.196	4204.1E6	1752.4E6	312.766	284.517
15)	T	Picloram	11.075	12.282	11324.3E6	4930.1E6	422.348	383.996
16)	T	DCPA	11.559	12.236	10301.0E6	4978.2E6	428.296	463.323

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:08
Operator : AR\AJ
Sample : P5362-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

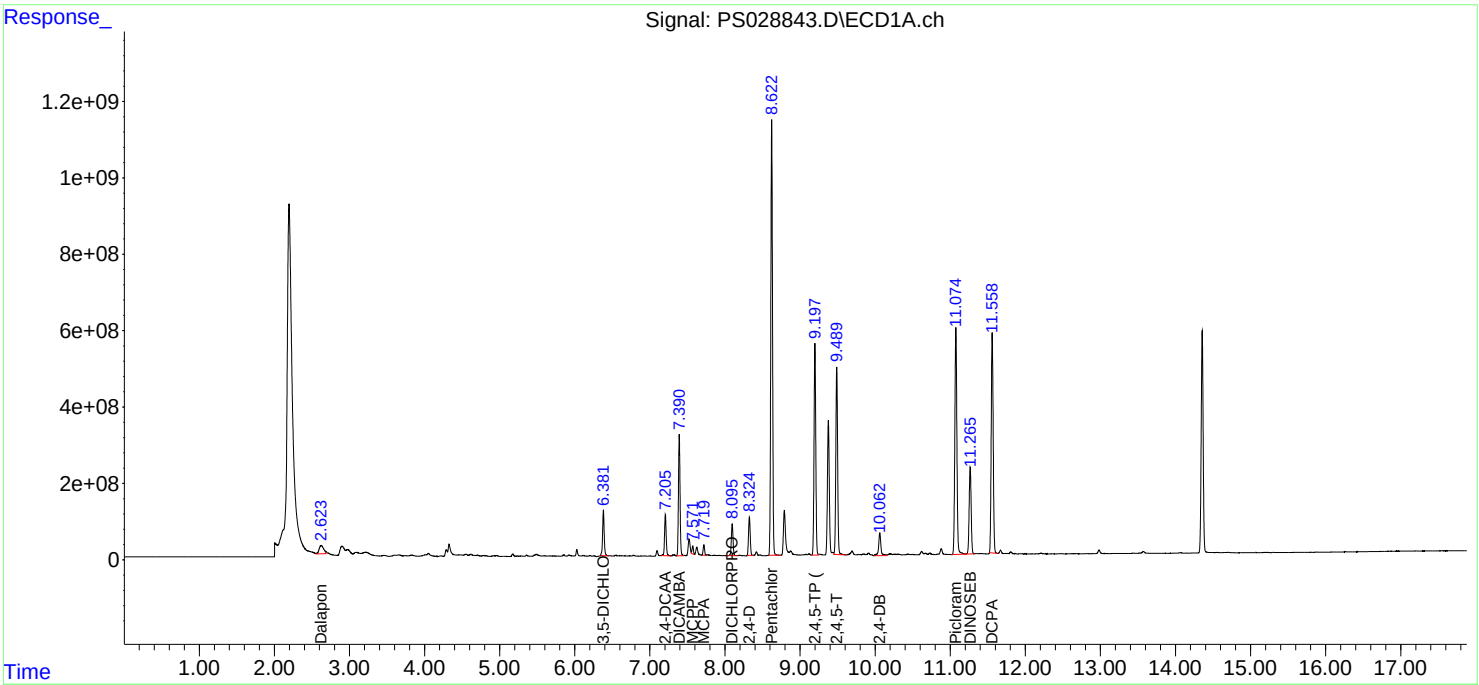
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

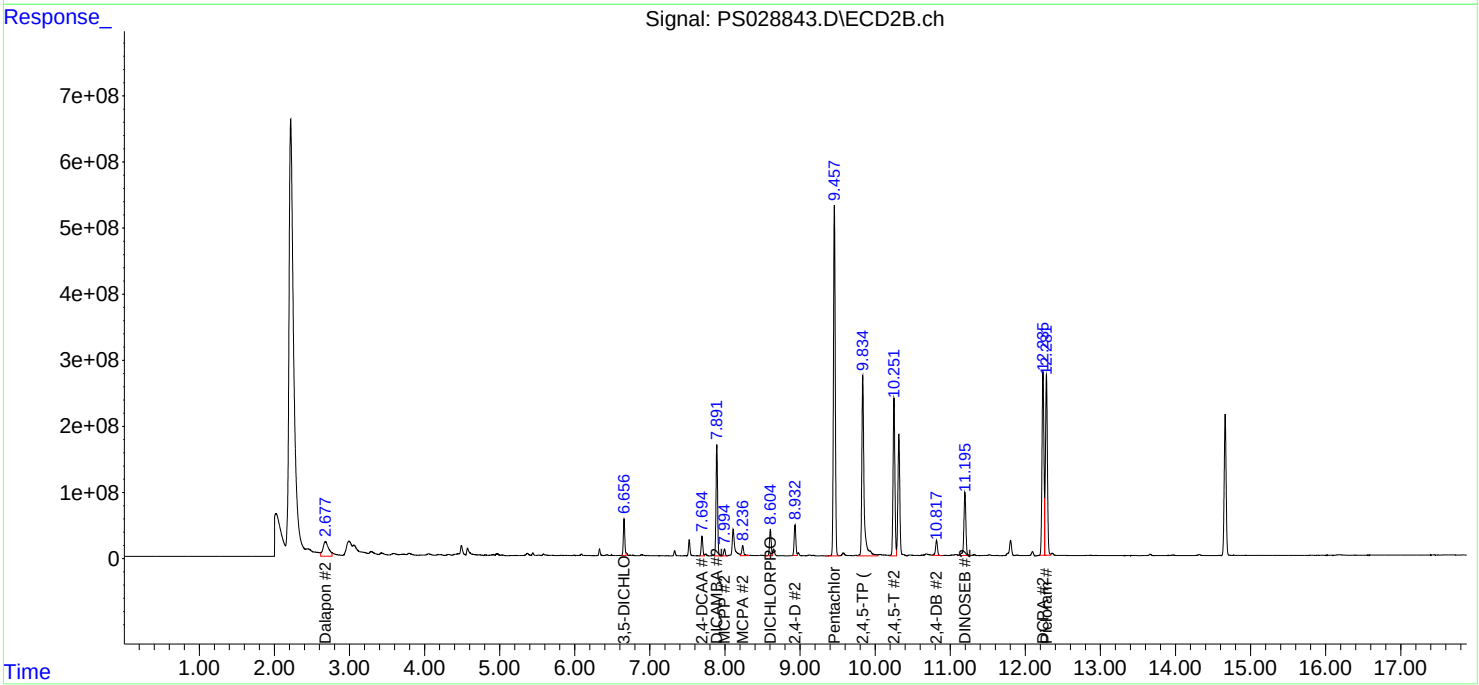
Manual Integrations APPROVED

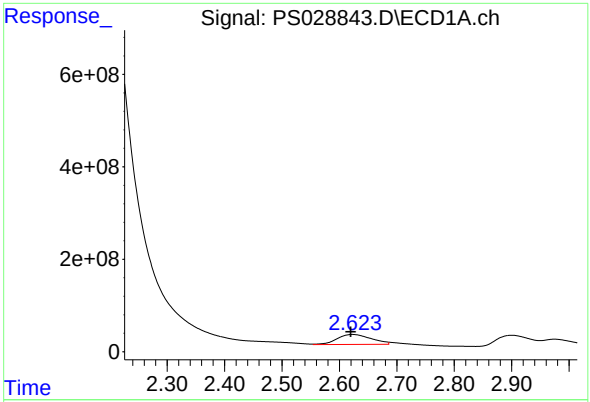
Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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







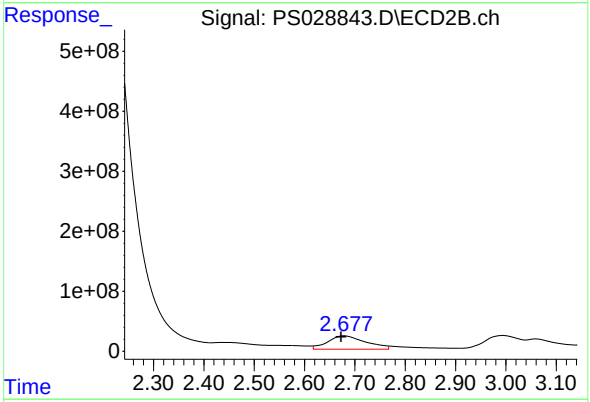
#1 Dalapon

R.T.: 2.623 min
Delta R.T.: 0.002 min
Response: 895438460
Conc: 317.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

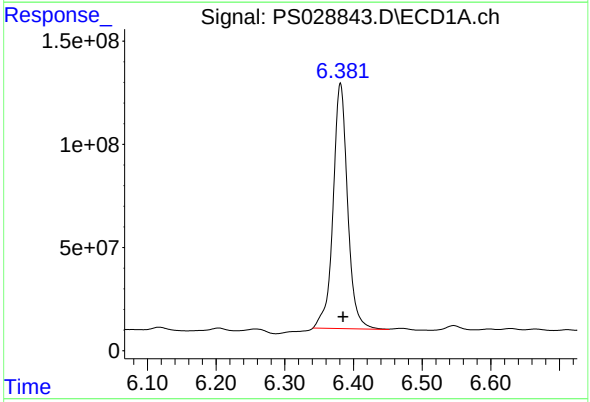
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



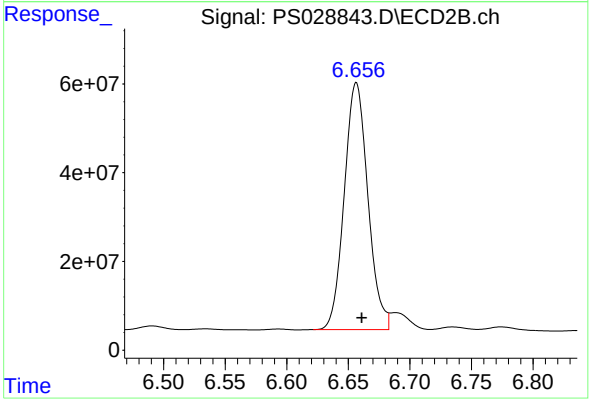
#1 Dalapon

R.T.: 2.677 min
Delta R.T.: 0.005 min
Response: 1165890898
Conc: 592.24 ng/ml m



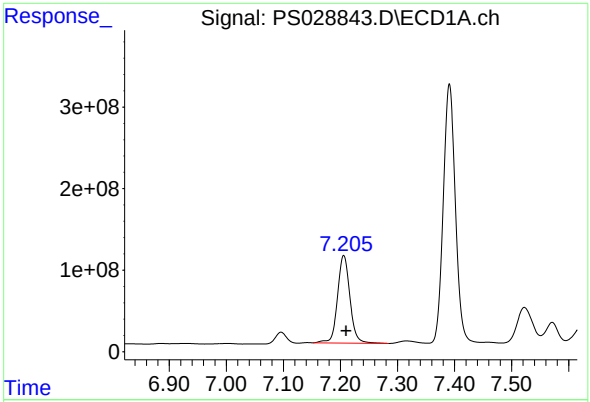
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1747579339
Conc: 530.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.656 min
Delta R.T.: -0.005 min
Response: 744355412
Conc: 449.06 ng/ml m



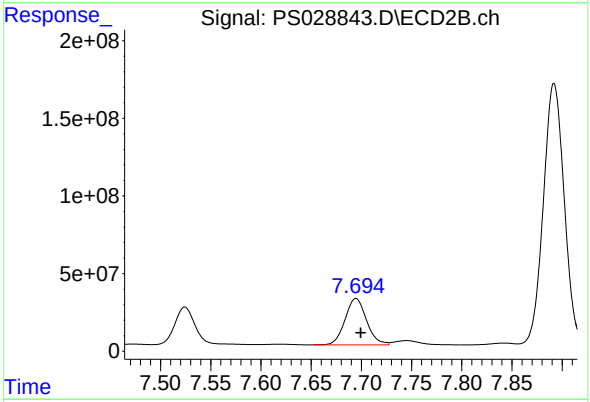
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1618016315
Conc: 715.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

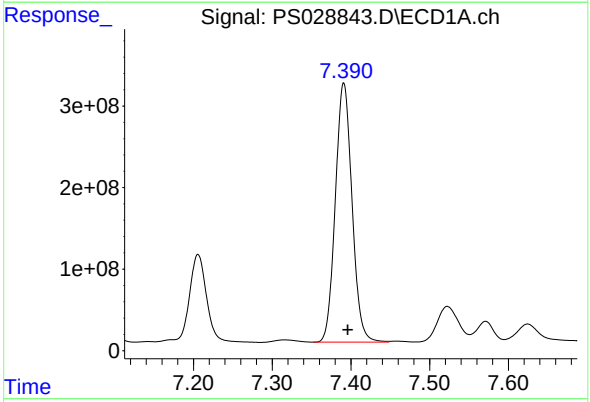
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



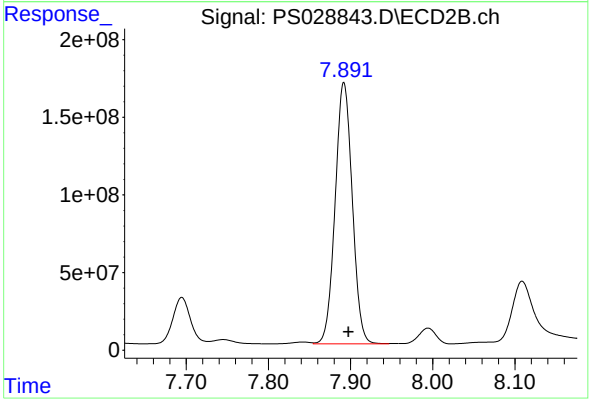
#4 2,4-DCAA

R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 443494340
Conc: 394.03 ng/ml



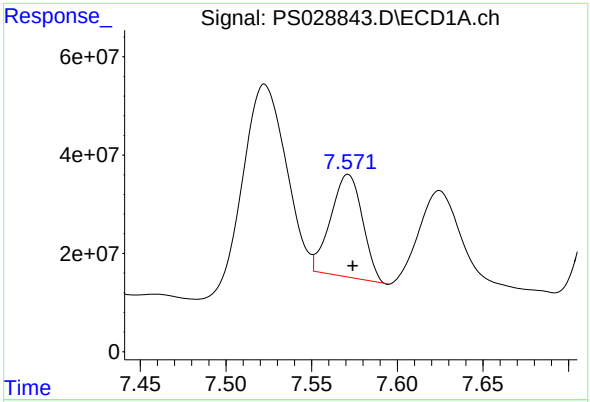
#5 DICAMBA

R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4678545006
Conc: 474.47 ng/ml



#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.005 min
Response: 2439705757
Conc: 444.40 ng/ml



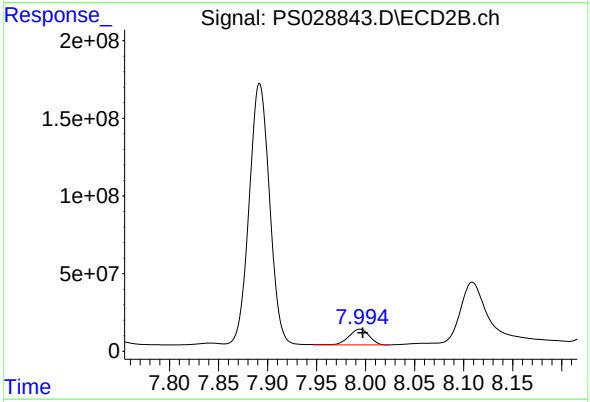
#6 MCPP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 269227926
Conc: 43.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

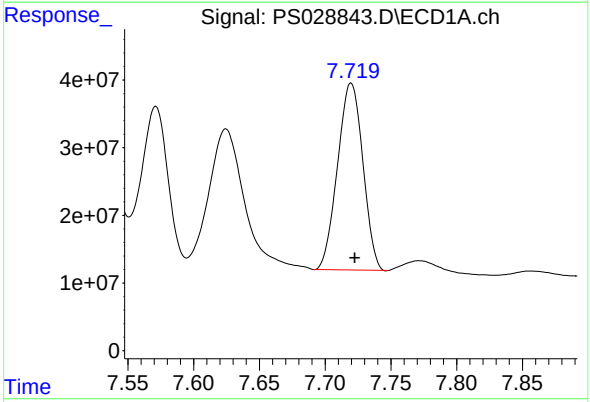
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



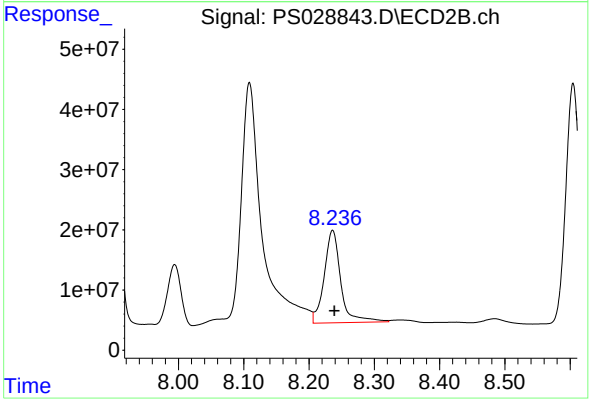
#6 MCPP

R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147077468
Conc: 45.01 ug/ml



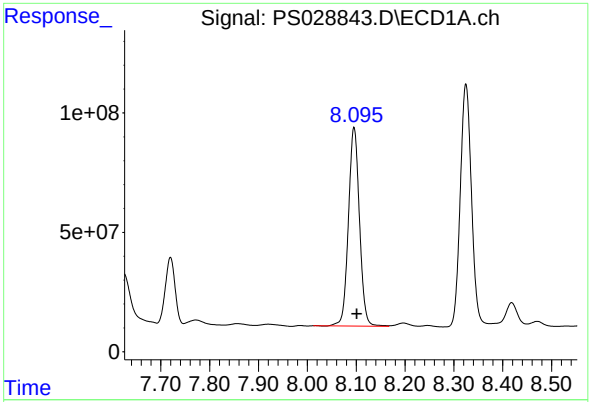
#7 MCPA

R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369594366
Conc: 42.16 ug/ml



#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 270972002
Conc: 58.49 ug/ml



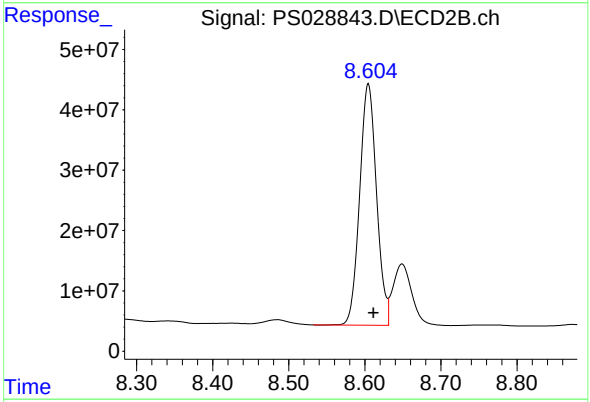
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1307370898
Conc: 492.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

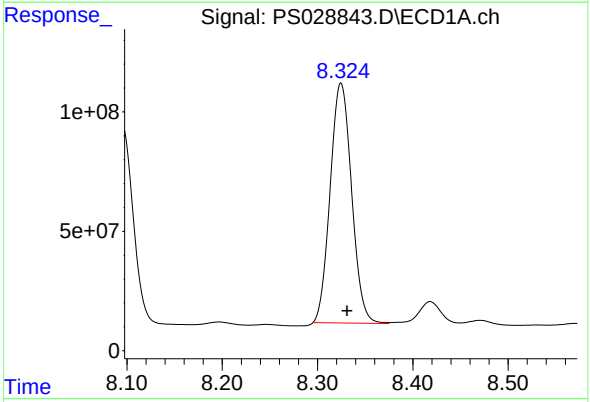
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



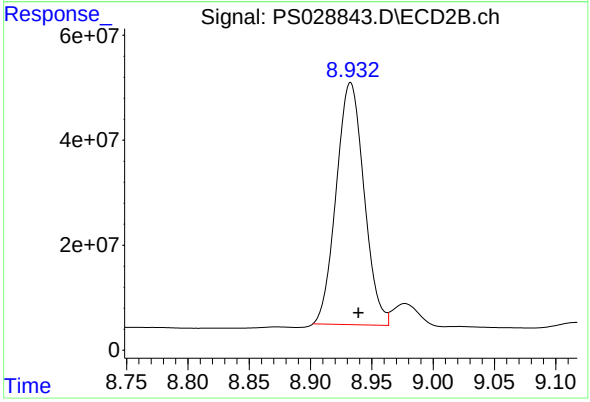
#8 DICHLORPROP

R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 618049190
Conc: 447.97 ng/ml



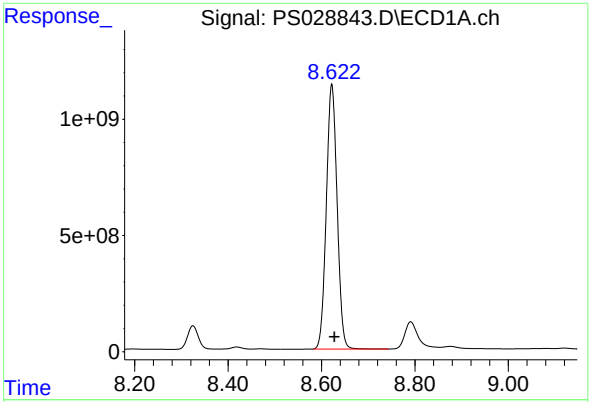
#9 2,4-D

R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1570356314
Conc: 551.09 ng/ml



#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.007 min
Response: 727612516
Conc: 504.19 ng/ml



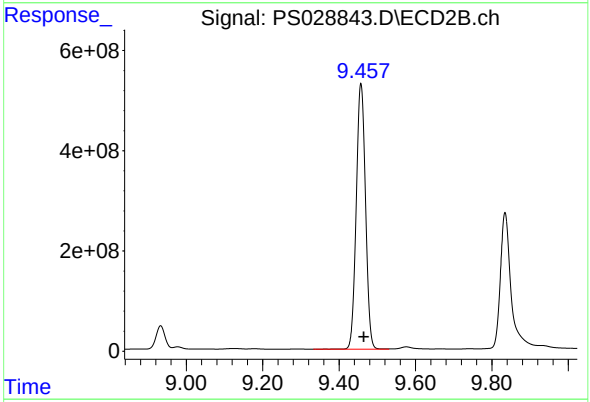
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 18250873340
Conc: 467.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

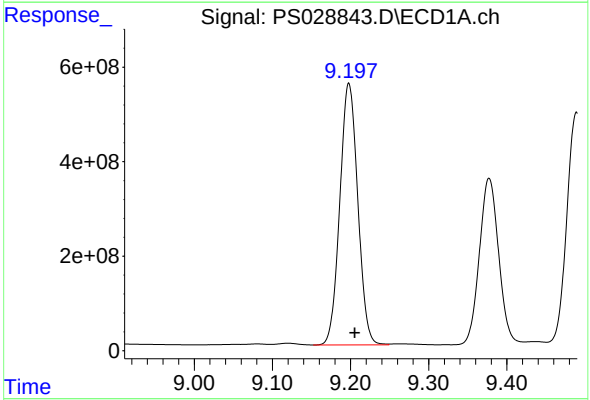
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



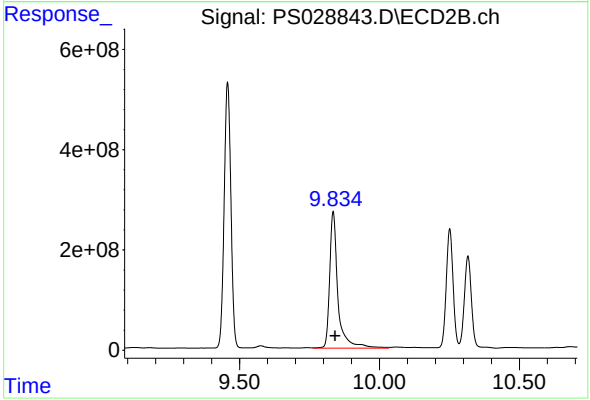
#10 Pentachlorophenol

R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 8870253743
Conc: 406.92 ng/ml



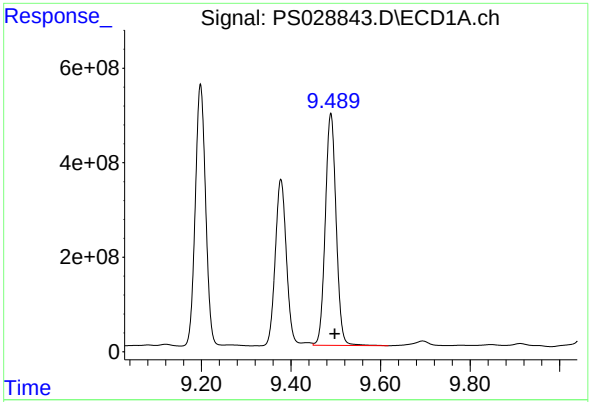
#11 2,4,5-TP (SILVEX)

R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8848090918
Conc: 563.24 ng/ml



#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 5610449350
Conc: 624.53 ng/ml



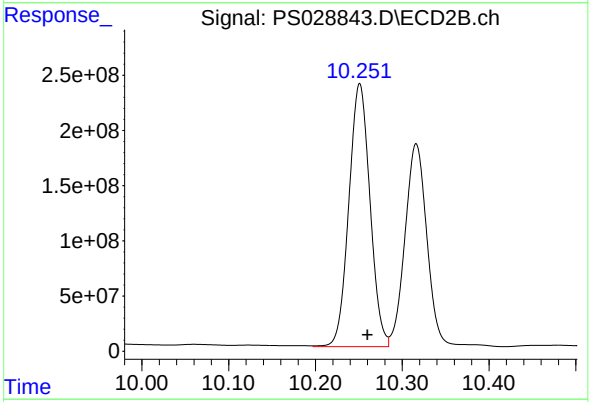
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8228249405
Conc: 505.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

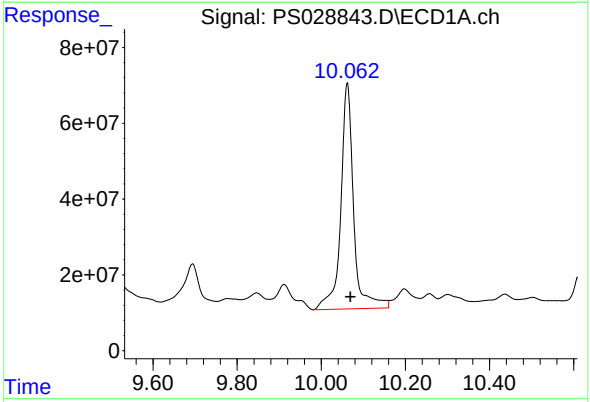
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



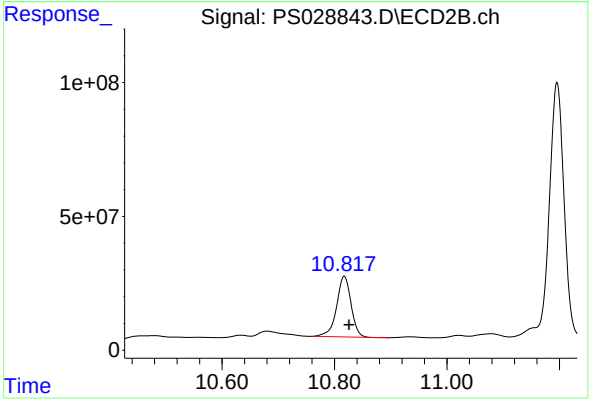
#12 2,4,5-T

R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4030876922
Conc: 462.83 ng/ml



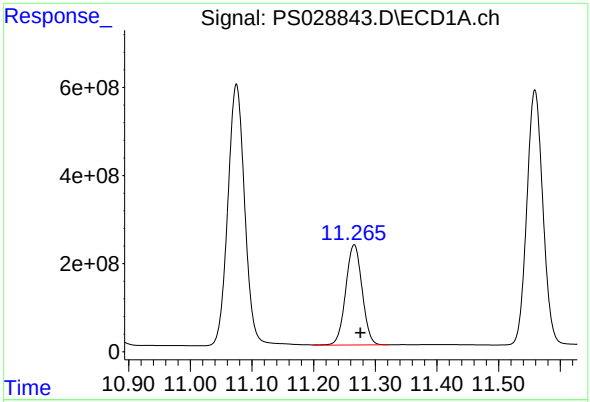
#13 2,4-DB

R.T.: 10.062 min
Delta R.T.: -0.008 min
Response: 1262008879
Conc: 404.28 ng/ml



#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.008 min
Response: 402513143
Conc: 414.49 ng/ml



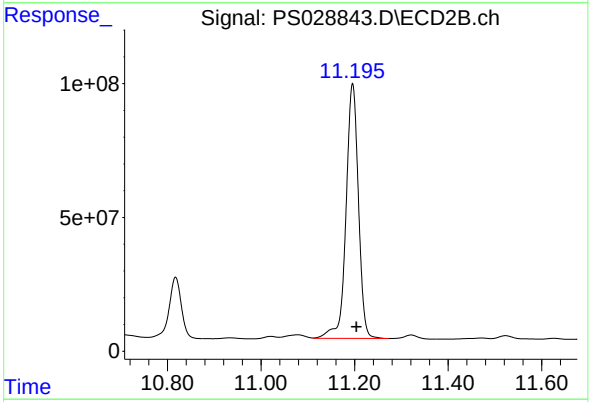
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4204110694
Conc: 312.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

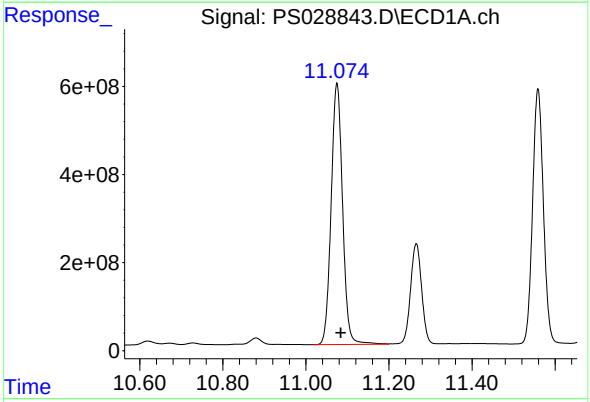
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



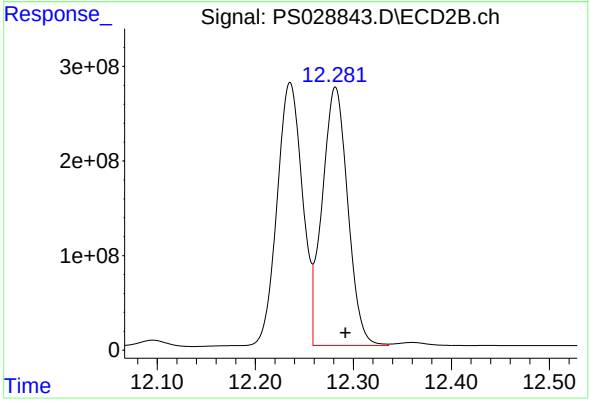
#14 DINOSEB

R.T.: 11.196 min
Delta R.T.: -0.008 min
Response: 1752379653
Conc: 284.52 ng/ml



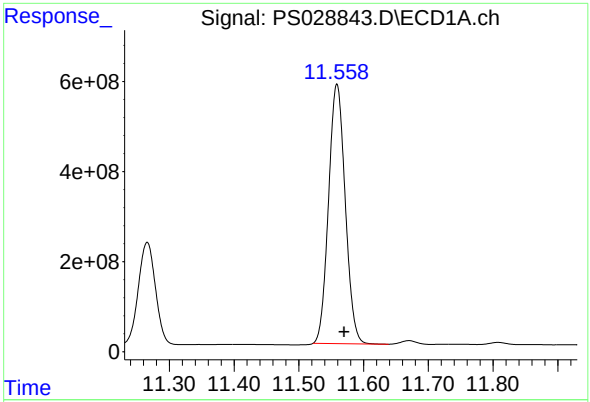
#15 Picloram

R.T.: 11.075 min
Delta R.T.: -0.009 min
Response: 11324329281
Conc: 422.35 ng/ml



#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 4930130386
Conc: 384.00 ng/ml



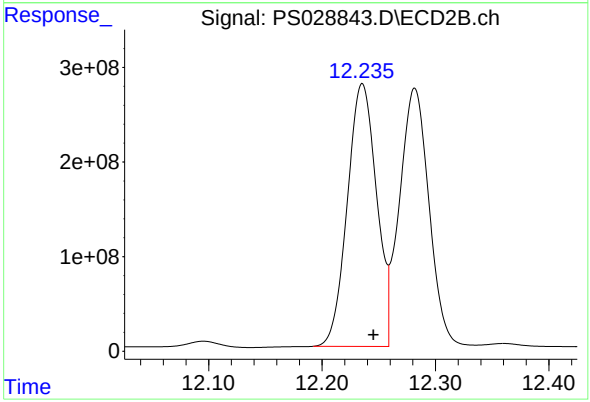
#16 DCPA

R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10300970584
Conc: 428.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 12/30/2024
Supervised By :Ankita Jodhani 12/30/2024



#16 DCPA

R.T.: 12.236 min
Delta R.T.: -0.010 min
Response: 4978207339
Conc: 463.32 ng/ml

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

Manual Integration Report

Sequence:	PS122324	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028787.D	MCPP	Abdul	12/26/2024 8:03:36 AM	Ankita	12/27/2024 7:49:25	Peak Integrated by Software
HSTDICC1000	PS028790.D	2,4-DCAA	Abdul	12/26/2024 8:03:40 AM	Ankita	12/27/2024 7:49:27	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS122724	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028828.D	DCPA	Abdul	12/30/2024 9:29:51 AM	Ankita	12/30/2024 9:51:17	Peak Integrated by Software
P5362-02MS	PS028842.D	2,4-D	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	4-Nitrophenol	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	Dalapon	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MS	PS028842.D	Dalapon #2	Abdul	12/30/2024 9:30:09 AM	Ankita	12/30/2024 9:51:26	Peak Integrated by Software
P5362-02MSD	PS028843.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software
P5362-02MSD	PS028843.D	Dalapon	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software
P5362-02MSD	PS028843.D	Dalapon #2	Abdul	12/30/2024 9:30:12 AM	Ankita	12/30/2024 9:51:27	Peak Integrated by Software
P5380-02	PS028844.D	2,4-DCAA #2	Abdul	12/30/2024 9:30:16 AM	Ankita	12/30/2024 9:51:29	Peak Integrated by Software

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

Manual Integration Report

Sequence:	ps123024	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5380-02RE	PS028850.D	2,4-DCAA	yogesh	12/31/2024 7:58:53 AM	Ankita	12/31/2024 7:59:19	Peak Integrated by Software
HSTDCCC750	PS028853.D	DCPA	yogesh	12/31/2024 7:58:55 AM	Ankita	12/31/2024 7:59:20	Peak Integrated by Software
HSTDCCC750	PS028859.D	DCPA	yogesh	12/31/2024 7:58:58 AM	Ankita	12/31/2024 7:59:23	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS123124	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028862.D	2,4-D	Abdul	1/2/2025 8:32:01 AM	Ankita	1/2/2025 9:46:01	Peak Integrated by Software
HSTDCCC750	PS028862.D	2,4-D #2	Abdul	1/2/2025 8:32:01 AM	Ankita	1/2/2025 9:46:01	Peak Integrated by Software
HSTDCCC750	PS028862.D	2,4-DCAA	Abdul	1/2/2025 8:32:01 AM	Ankita	1/2/2025 9:46:01	Peak Integrated by Software
HSTDCCC750	PS028862.D	DCPA #2	Abdul	1/2/2025 8:32:01 AM	Ankita	1/2/2025 9:46:01	Peak Integrated by Software
HSTDCCC750	PS028865.D	2,4-D #2	Abdul	1/2/2025 8:31:53 AM	Ankita	1/2/2025 9:46:02	Peak Integrated by Software
HSTDCCC750	PS028865.D	DCPA #2	Abdul	1/2/2025 8:31:53 AM	Ankita	1/2/2025 9:46:02	Peak Integrated by Software

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM		
SubDirectory	PS122324	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028785.D	23 Dec 2024 10:36	AR\AJ	Ok
2	I.BLK	PS028786.D	23 Dec 2024 11:00	AR\AJ	Ok
3	HSTDICC200	PS028787.D	23 Dec 2024 11:23	AR\AJ	Ok,M
4	HSTDICC500	PS028788.D	23 Dec 2024 11:47	AR\AJ	Ok
5	HSTDICC750	PS028789.D	23 Dec 2024 12:11	AR\AJ	Ok
6	HSTDICC1000	PS028790.D	23 Dec 2024 12:35	AR\AJ	Ok,M
7	HSTDICC1500	PS028791.D	23 Dec 2024 12:59	AR\AJ	Ok
8	HSTDICV750	PS028792.D	23 Dec 2024 13:23	AR\AJ	Ok
9	I.BLK	PS028793.D	23 Dec 2024 13:47	AR\AJ	Ok
10	HSTDCCC750	PS028794.D	23 Dec 2024 14:11	AR\AJ	Ok
11	P5330-01	PS028795.D	23 Dec 2024 14:34	AR\AJ	Ok,M
12	P5355-01	PS028796.D	23 Dec 2024 14:58	AR\AJ	Ok,M
13	PB165776BL	PS028797.D	23 Dec 2024 15:22	AR\AJ	Ok
14	PB165776BS	PS028798.D	23 Dec 2024 15:46	AR\AJ	Ok,M
15	I.BLK	PS028799.D	23 Dec 2024 16:10	AR\AJ	Ok
16	HSTDCCC750	PS028800.D	23 Dec 2024 16:34	AR\AJ	Ok
17	P5306-01	PS028801.D	23 Dec 2024 16:58	AR\AJ	Ok,M
18	P5306-03	PS028802.D	23 Dec 2024 17:22	AR\AJ	Ok,M
19	P5306-05	PS028803.D	23 Dec 2024 17:46	AR\AJ	Ok,M
20	P5306-07	PS028804.D	23 Dec 2024 18:10	AR\AJ	Ok,M
21	P5306-09	PS028805.D	23 Dec 2024 18:33	AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM		
SubDirectory	PS122324	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5306-11	PS028806.D	23 Dec 2024 18:57	AR\AJ	Ok,M
23	P5306-13	PS028807.D	23 Dec 2024 19:21	AR\AJ	Not Ok
24	P5306-15MS	PS028808.D	23 Dec 2024 19:45	AR\AJ	Not Ok
25	P5306-15MSD	PS028809.D	23 Dec 2024 20:09	AR\AJ	Not Ok
26	I.BLK	PS028810.D	23 Dec 2024 20:33	AR\AJ	Ok
27	HSTDCCC750	PS028811.D	23 Dec 2024 20:57	AR\AJ	Ok
28	PB165784BL	PS028812.D	23 Dec 2024 21:21	AR\AJ	Ok
29	P5356-01	PS028813.D	23 Dec 2024 21:45	AR\AJ	Ok
30	PB165784BS	PS028814.D	23 Dec 2024 22:09	AR\AJ	Ok
31	PB165784BSD	PS028815.D	23 Dec 2024 22:32	AR\AJ	Ok,M
32	I.BLK	PS028816.D	23 Dec 2024 22:56	AR\AJ	Ok
33	HSTDCCC750	PS028817.D	23 Dec 2024 23:20	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM		
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM		
SubDirectory	PS122724	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028826.D	27 Dec 2024 09:57	AR\AJ	Ok
2	I.BLK	PS028827.D	27 Dec 2024 10:21 an	AR\AJ	Ok
3	HSTDCCC750	PS028828.D	27 Dec 2024 10:45 an	AR\AJ	Ok,M
4	PB165874BL	PS028829.D	27 Dec 2024 16:45	AR\AJ	Ok
5	PB165874BS	PS028830.D	27 Dec 2024 17:09	AR\AJ	Ok,M
6	P5318-01	PS028831.D	27 Dec 2024 17:33	AR\AJ	Ok
7	P5318-01MS	PS028832.D	27 Dec 2024 17:57	AR\AJ	Ok,M
8	P5318-01MSD	PS028833.D	27 Dec 2024 18:21	AR\AJ	Ok,M
9	P5386-01	PS028834.D	27 Dec 2024 18:44	AR\AJ	Ok,M
10	P5386-03	PS028835.D	27 Dec 2024 19:08	AR\AJ	Ok
11	I.BLK	PS028836.D	27 Dec 2024 19:32	AR\AJ	Ok
12	HSTDCCC750	PS028837.D	27 Dec 2024 19:56	AR\AJ	Ok
13	PB165896BL	PS028838.D	27 Dec 2024 21:08	AR\AJ	Ok
14	PB165896BS	PS028839.D	27 Dec 2024 21:32	AR\AJ	Ok
15	PB165858TB	PS028840.D	27 Dec 2024 21:56	AR\AJ	Not Ok
16	P5362-02	PS028841.D	27 Dec 2024 22:20	AR\AJ	Ok
17	P5362-02MS	PS028842.D	27 Dec 2024 22:44	AR\AJ	Ok,M
18	P5362-02MSD	PS028843.D	27 Dec 2024 23:08	AR\AJ	Ok,M
19	P5380-02	PS028844.D	27 Dec 2024 23:32	AR\AJ	ReRun
20	I.BLK	PS028845.D	27 Dec 2024 23:56	AR\AJ	Ok
21	HSTDCCC750	PS028846.D	28 Dec 2024 00:19	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS123024

Review By	yogesh	Review On	12/31/2024 7:59:06 AM		
Supervise By	Ankita	Supervise On	12/31/2024 7:59:28 AM		
SubDirectory	PS123024	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028847.D	30 Dec 2024 08:41	AR\AJ	Ok
2	I.BLK	PS028848.D	30 Dec 2024 09:05	AR\AJ	Ok
3	HSTDCCC750	PS028849.D	30 Dec 2024 10:25	AR\AJ	Ok
4	P5380-02RE	PS028850.D	30 Dec 2024 10:50	AR\AJ	Confirms
5	P5306-15	PS028851.D	30 Dec 2024 11:14	AR\AJ	Ok
6	I.BLK	PS028852.D	30 Dec 2024 11:38	AR\AJ	Ok
7	HSTDCCC750	PS028853.D	30 Dec 2024 12:02	AR\AJ	Ok,M
8	PB165905BL	PS028854.D	30 Dec 2024 16:03	AR\AJ	Ok
9	PB165905BS	PS028855.D	30 Dec 2024 16:51	AR\AJ	Ok
10	PB165905BSD	PS028856.D	30 Dec 2024 17:16	AR\AJ	Ok
11	P5386-05	PS028857.D	30 Dec 2024 17:39	AR\AJ	Ok,M
12	I.BLK	PS028858.D	30 Dec 2024 18:03	AR\AJ	Ok
13	HSTDCCC750	PS028859.D	30 Dec 2024 18:27	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS123124

Review By	Abdul	Review On	1/2/2025 8:32:16 AM		
Supervise By	Ankita	Supervise On	1/2/2025 9:46:06 AM		
SubDirectory	PS123124	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028860.D	31 Dec 2024 08:11	AR\AJ	Ok
2	I.BLK	PS028861.D	31 Dec 2024 08:35	AR\AJ	Ok
3	HSTDCCC750	PS028862.D	31 Dec 2024 08:59	AR\AJ	Ok,M
4	PB165858TB	PS028863.D	31 Dec 2024 11:52	AR\AJ	Ok
5	I.BLK	PS028864.D	31 Dec 2024 12:16	AR\AJ	Ok
6	HSTDCCC750	PS028865.D	31 Dec 2024 12:40	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM		
SubDirectory	PS122324	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028785.D	23 Dec 2024 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PS028786.D	23 Dec 2024 11:00		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028787.D	23 Dec 2024 11:23		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028788.D	23 Dec 2024 11:47		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS028789.D	23 Dec 2024 12:11		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028790.D	23 Dec 2024 12:35		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028791.D	23 Dec 2024 12:59		AR\AJ	Ok
8	HSTDICV750	ICVPS122324	PS028792.D	23 Dec 2024 13:23		AR\AJ	Ok
9	I.BLK	I.BLK	PS028793.D	23 Dec 2024 13:47		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028794.D	23 Dec 2024 14:11		AR\AJ	Ok
11	P5330-01	TP-5	PS028795.D	23 Dec 2024 14:34		AR\AJ	Ok,M
12	P5355-01	RBR251688	PS028796.D	23 Dec 2024 14:58		AR\AJ	Ok,M
13	PB165776BL	PB165776BL	PS028797.D	23 Dec 2024 15:22		AR\AJ	Ok
14	PB165776BS	PB165776BS	PS028798.D	23 Dec 2024 15:46		AR\AJ	Ok,M
15	I.BLK	I.BLK	PS028799.D	23 Dec 2024 16:10		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS028800.D	23 Dec 2024 16:34		AR\AJ	Ok
17	P5306-01	OU4-VSL-07-121224	PS028801.D	23 Dec 2024 16:58		AR\AJ	Ok,M
18	P5306-03	OU4-VSL-08-121224	PS028802.D	23 Dec 2024 17:22		AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122324

Review By	Abdul	Review On	12/26/2024 8:04:51 AM		
Supervise By	Ankita	Supervise On	12/27/2024 7:50:05 AM		
SubDirectory	PS122324	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5306-05	OU4-VSL-09-121224	PS028803.D	23 Dec 2024 17:46		AR\AJ	Ok,M
20	P5306-07	OU4-VSL-10-121224	PS028804.D	23 Dec 2024 18:10		AR\AJ	Ok,M
21	P5306-09	OU4-VSL-11-121224	PS028805.D	23 Dec 2024 18:33		AR\AJ	Ok,M
22	P5306-11	OU4-VSL-12-121224	PS028806.D	23 Dec 2024 18:57		AR\AJ	Ok,M
23	P5306-13	OU4-VSL-13-121224	PS028807.D	23 Dec 2024 19:21	2,4-DCAA low in both column	AR\AJ	Not Ok
24	P5306-15MS	OU4-VSL-14-121224MS	PS028808.D	23 Dec 2024 19:45	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
25	P5306-15MSD	OU4-VSL-14-121224MS	PS028809.D	23 Dec 2024 20:09	2,4-DCAA high in first column , compound#14 recovery fail	AR\AJ	Not Ok
26	I.BLK	I.BLK	PS028810.D	23 Dec 2024 20:33		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS028811.D	23 Dec 2024 20:57		AR\AJ	Ok
28	PB165784BL	PB165784BL	PS028812.D	23 Dec 2024 21:21		AR\AJ	Ok
29	P5356-01	STAND-PIPE	PS028813.D	23 Dec 2024 21:45		AR\AJ	Ok
30	PB165784BS	PB165784BS	PS028814.D	23 Dec 2024 22:09		AR\AJ	Ok
31	PB165784BSD	PB165784BSD	PS028815.D	23 Dec 2024 22:32		AR\AJ	Ok,M
32	I.BLK	I.BLK	PS028816.D	23 Dec 2024 22:56		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028817.D	23 Dec 2024 23:20		AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM		
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM		
SubDirectory	PS122724	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028826.D	27 Dec 2024 09:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS028827.D	27 Dec 2024 10:21 am		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028828.D	27 Dec 2024 10:45 am		AR\AJ	Ok,M
4	PB165874BL	PB165874BL	PS028829.D	27 Dec 2024 16:45		AR\AJ	Ok
5	PB165874BS	PB165874BS	PS028830.D	27 Dec 2024 17:09		AR\AJ	Ok,M
6	P5318-01	AU-06-122024	PS028831.D	27 Dec 2024 17:33		AR\AJ	Ok
7	P5318-01MS	AU-06-122024MS	PS028832.D	27 Dec 2024 17:57	Some compound recovery fail	AR\AJ	Ok,M
8	P5318-01MSD	AU-06-122024MSD	PS028833.D	27 Dec 2024 18:21	Some compound recovery fail	AR\AJ	Ok,M
9	P5386-01	MOO-24-00398	PS028834.D	27 Dec 2024 18:44		AR\AJ	Ok,M
10	P5386-03	MOO-24-00395-96	PS028835.D	27 Dec 2024 19:08		AR\AJ	Ok
11	I.BLK	I.BLK	PS028836.D	27 Dec 2024 19:32		AR\AJ	Ok
12	HSTDCCC750	HSTDCCC750	PS028837.D	27 Dec 2024 19:56		AR\AJ	Ok
13	PB165896BL	PB165896BL	PS028838.D	27 Dec 2024 21:08		AR\AJ	Ok
14	PB165896BS	PB165896BS	PS028839.D	27 Dec 2024 21:32		AR\AJ	Ok
15	PB165858TB	PB165858TB	PS028840.D	27 Dec 2024 21:56	surrogate fail	AR\AJ	Not Ok
16	P5362-02	WC-SOIL-20241219	PS028841.D	27 Dec 2024 22:20		AR\AJ	Ok
17	P5362-02MS	WC-SOIL-20241219MS	PS028842.D	27 Dec 2024 22:44	DINOSEB low in 1st column	AR\AJ	Ok,M
18	P5362-02MSD	WC-SOIL-20241219MS	PS028843.D	27 Dec 2024 23:08	DINOSEB low in 1st column	AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS122724

Review By	Abdul	Review On	12/30/2024 9:30:50 AM		
Supervise By	Ankita	Supervise On	12/30/2024 9:51:42 AM		
SubDirectory	PS122724	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5380-02	TAPIAL3-IDW-SOIL-12	PS028844.D	27 Dec 2024 23:32	2,4-DCAA high in 1st columns.	AR\AJ	ReRun
20	I.BLK	I.BLK	PS028845.D	27 Dec 2024 23:56		AR\AJ	Ok
21	HSTDCCC750	HSTDCCC750	PS028846.D	28 Dec 2024 00:19		AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS123024

Review By	yogesh	Review On	12/31/2024 7:59:06 AM		
Supervise By	Ankita	Supervise On	12/31/2024 7:59:28 AM		
SubDirectory	PS123024	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028847.D	30 Dec 2024 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS028848.D	30 Dec 2024 09:05		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028849.D	30 Dec 2024 10:25		AR\AJ	Ok
4	P5380-02RE	TAPIAL3-IDW-SOIL-12	PS028850.D	30 Dec 2024 10:50	2,4-DCAA high in 1st columns.	AR\AJ	Confirms
5	P5306-15	OU4-VSL-14-121224	PS028851.D	30 Dec 2024 11:14		AR\AJ	Ok
6	I.BLK	I.BLK	PS028852.D	30 Dec 2024 11:38		AR\AJ	Ok
7	HSTDCCC750	HSTDCCC750	PS028853.D	30 Dec 2024 12:02		AR\AJ	Ok,M
8	PB165905BL	PB165905BL	PS028854.D	30 Dec 2024 16:03		AR\AJ	Ok
9	PB165905BS	PB165905BS	PS028855.D	30 Dec 2024 16:51		AR\AJ	Ok
10	PB165905BSD	PB165905BSD	PS028856.D	30 Dec 2024 17:16		AR\AJ	Ok
11	P5386-05	MOO-24-00397	PS028857.D	30 Dec 2024 17:39		AR\AJ	Ok,M
12	I.BLK	I.BLK	PS028858.D	30 Dec 2024 18:03		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS028859.D	30 Dec 2024 18:27		AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS123124

Review By	Abdul	Review On	1/2/2025 8:32:16 AM		
Supervise By	Ankita	Supervise On	1/2/2025 9:46:06 AM		
SubDirectory	PS123124	HP Acquire Method		HP Processing Method	ps122324 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028860.D	31 Dec 2024 08:11		AR\AJ	Ok
2	I.BLK	I.BLK	PS028861.D	31 Dec 2024 08:35		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028862.D	31 Dec 2024 08:59		AR\AJ	Ok,M
4	PB165858TB	PB165858TB	PS028863.D	31 Dec 2024 11:52		AR\AJ	Ok
5	I.BLK	I.BLK	PS028864.D	31 Dec 2024 12:16		AR\AJ	Ok
6	HSTDCCC750	HSTDCCC750	PS028865.D	31 Dec 2024 12:40		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165858

SOP ID :	M1311-TCLP-15
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
Pippete ID :	WC
Tumbler ID :	T-1
TCLP Filter ID :	114771

Start Prep Date :	12/26/2024 Time : 16:00
End Prep Date :	12/27/2024 Time : 10:15
Combination Ratio :	20
ZHE Cleaning Batch :	N/A
Initial Room Temperature:	22 °C
Final Room Temperature:	21 °C
TCLP Technician Signature :	JP
Supervisor By :	12

Standared 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	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 checked,30 rpm. p5386-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/27/24 ~~10:00~~ 10:30 JP	JP Prep Room	SK9. 1EXT
	Preparation Group	Analysis Group Metals

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165858

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
P5342-08	CHRT26634	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
P5342-09	HT2651	02	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5362-02	WC-SOIL-20241219	03	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P5386-02	MOO-24-00398	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5386-04	MOO-24-00395-96	06	100.01	2000	N/A	N/A	N/A	4.5	1.5	T-1
PB165858TB	LEB858	07	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P5342-08	CHRT26634	N/A	N/A	N/A	N/A	100	N/A
P5342-09	HT2651	N/A	N/A	N/A	N/A	100	N/A
P5362-02	WC-SOIL-20241219	N/A	N/A	N/A	N/A	100	N/A
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	N/A	N/A	N/A	N/A	100	N/A
P5386-02	MOO-24-00398	N/A	N/A	N/A	N/A	100	N/A
P5386-04	MOO-24-00395-96	N/A	N/A	N/A	N/A	100	N/A
PB165858TB	LEB858	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB165858

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
P5342-08	CHRT26634	5.02	96.5	6.6	2.5	#1	4.93
P5342-09	HT2651	5.03	96.5	6.2	2.5	#1	4.93
P5362-02	WC-SOIL-20241219	5.02	96.5	7.6	3.0	#1	4.93
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	5.01	96.5	10.5	4.0	#1	4.93
P5386-02	MOO-24-00398	5.02	96.5	6.8	2.5	#1	4.93
P5386-04	MOO-24-00395-96	5.00	96.5	7.0	2.5	#1	4.93
PB165858TB	LEB858	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p5380 **WorkList ID :** 186583 **Department :** TCLP Extraction **Date :** 12-26-2024 07:38:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5342-08	CHRT26634	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N12	12/18/2024	1311
P5342-09	HT2651	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N12	12/18/2024	1311
P5362-02	WC-SOIL-20241219	Solid	TCLP Extraction	Cool 4 deg C	PARS02	N21	12/19/2024	1311
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	Solid	TCLP Extraction	Cool 4 deg C	WEST04	N31	12/20/2024	1311
P5386-02	MOO-24-00398	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311
P5386-04	MOO-24-00395-96	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311

Date/Time 12/26/24 15:30
Raw Sample Received by: JB WDC,
Raw Sample Relinquished by: JM/SM/

Date/Time 12/26/24 17:30
Raw Sample Received by: JM/SM/
Raw Sample Relinquished by: JB WDC,

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165896

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	12/27/2024
Matrix :	Water			**Extraction Start Time :**	10:20
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	12/27/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:15
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23930
Surrogate	1.0ML	5000 PPB	PP24078
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	E3370
Acidified Na2SO4	N/A	EP2572
NAOH 6N	N/A	EP2553
1:3 SULPHURIC ACID	N/A	EP2564
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2529
Hexane	N/A	E3847
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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 # 03-40BTS721.

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
12/27/24	RP (Ext- Lab)	R-Post/PCB Lab
16:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165896

Analytical Method: M8151A-Herbicide-22 **Concentration Date:** 12/27/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165858TB	PB165858TB	TCLP Herbicide	100	6	ritesh	rajesh	10			SEP-06
PB165896BL	HBLK896	TCLP Herbicide	1000	6	ritesh	rajesh	10			7
PB165896BS	HLCS896	TCLP Herbicide	1000	6	ritesh	rajesh	10			8
P5362-02	WC-SOIL-20241219	TCLP Herbicide	100	6	ritesh	rajesh	10	A		9
P5362-02MS	WC-SOIL-20241219MS	TCLP Herbicide	100	6	ritesh	rajesh	10	A		10
P5362-02MSD	WC-SOIL-20241219MSD	TCLP Herbicide	100	6	ritesh	rajesh	10	A		11
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	TCLP Herbicide	100	6	ritesh	rajesh	10	A		12

* **Extracts relinquished on the same date as received.**

12/27/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165858

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
P5342-08	CHRT26634	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
P5342-09	HT2651	02	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-1
P5362-02	WC-SOIL-20241219	03	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P5386-02	MOO-24-00398	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P5386-04	MOO-24-00395-96	06	100.01	2000	N/A	N/A	N/A	4.5	1.5	T-1
PB165858TB	LEB858	07	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1

12/27/24

10:00

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

Prep Standard - Chemical Standard Summary

Order ID : P5380

Test : TCLP Herbicide

Prepbatch ID : PB165896,

Sequence ID/Qc Batch ID: PS122724,ps123024,PS123124,

Standard ID :
EP2553,EP2564,EP2572,PP23930,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24078,

Chemical ID :
E3370,E3551,E3657,E3818,E3826,E3843,M4459,M5173,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P12784,P12785,P13506,P13507,P13508,P13509,P13517,W3112,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1762	1:3 H2SO4 Soln	EP2564	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 250.00000ml of M5173 + 750.00000ml of W3112 = Final Quantity: 1000.000 ml

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
601	Acidified Sodium Sulphate 2	EP2572	12/16/2024	01/17/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/16/2024

FROM 100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23930	10/30/2024	04/23/2025	Abdul Mirza	None	None	Ankita Jodhani 10/30/2024

FROM 0.50000ml of P13517 + 1.00000ml of P12784 + 1.00000ml of P12785 + 47.50000ml of E3818 = Final Quantity: 50.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1453	1000 PPB Herb MIX STD	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1454	750 PPB Herb MIX STD	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24078	12/10/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024

FROM 1.25000ml of P13506 + 1.25000ml of P13507 + 1.25000ml of P13508 + 1.25000ml of P13509 + 195.00000ml of E3843 = Final Quantity: 200.000 ml

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

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

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	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

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	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

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	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

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	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

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	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12784

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/11/2023 / Abdul	P12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13506

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13507

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13509

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

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	0006750243	04/30/2025	10/30/2024 / Abdul	09/03/2024 / Abdul	P13517

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 / Iwona	07/03/2024 / Iwona	W3112

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

avantor™ | J.T.Baker®

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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

James Ethier
Jamie Ethier
Vice President Global Quality

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

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

avantor™ | J.T.Baker®

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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($(C_2H_5)_2O$) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C_2H_5OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H_2O_2)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titrable Acid (µeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

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

Country of Origin: US

Recd. by RP on 9/13/22

E 3370

James T Ethier
Jamie Ethier
Vice President Global Quality

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

PRODUCTOS QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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 RB on 7/24/23 E3551

VWR®

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:

Pellets

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

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 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.

E 3657	E 3659
E 3654	E 3660

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor™ | J.T.Baker®

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

Recd. by RP on 12/5/24

E 3843

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Material No.: 9530-33
Batch No.: 0000281827

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

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

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

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

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

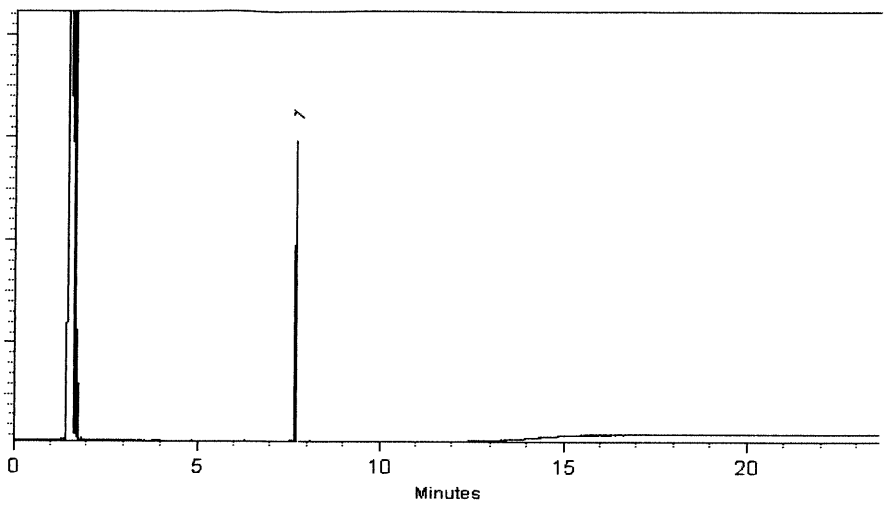
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

P 11177 to P 11186

AR 11/02/21

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 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%

P111177
↓
P111186

AR
11/02/21

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

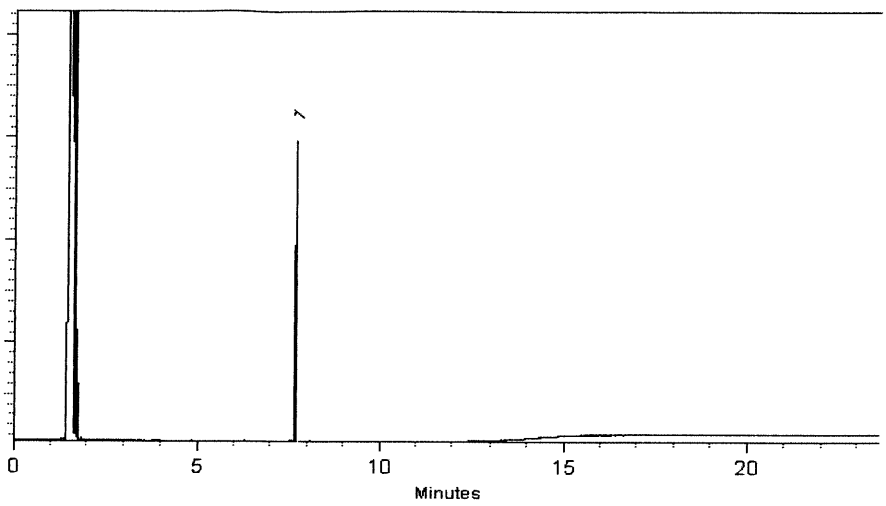
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Katelyn McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

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

P 11177 to P 11186

AR 11/02/21

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 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%

P111177
↓
P111186

AR
11/02/21

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.

P12616 (S) → P12620

7/5/2023

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

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 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Nitroanisole **CAS #** 100-17-4 (Lot 24765/7) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Pentachloroanisole **CAS #** 1825-21-4 (Lot 7921100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Chloramben methyl ester **CAS #** 7286-84-2 (Lot 6487100) **Purity** 98%	199.9 µg/mL	+/- 1.4176 +/- 6.7480 +/- 6.7480	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bentazon methyl ester **CAS #** 61592-45-8 (Lot 817100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Picloram methyl ester **CAS #** 14143-55-6 (Lot 386-21B) **Purity** 98%	201.9 µg/mL	+/- 1.4315 +/- 6.8141 +/- 6.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) **CAS #** 1861-32-1 (Lot 8008700) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

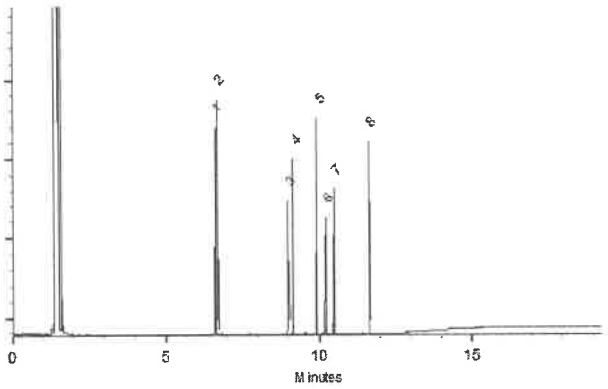
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 J Maye

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

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.

P12626 & P12630 (5)

7/5/2023

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

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.)

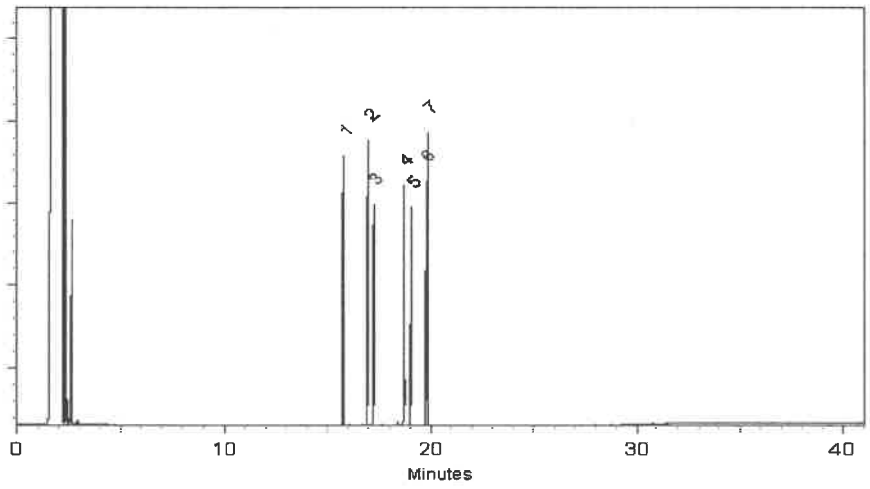
Inj. Temp:
250°C

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.

P 12685 ↓ P 12689 (S)

7/24/23

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

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.)

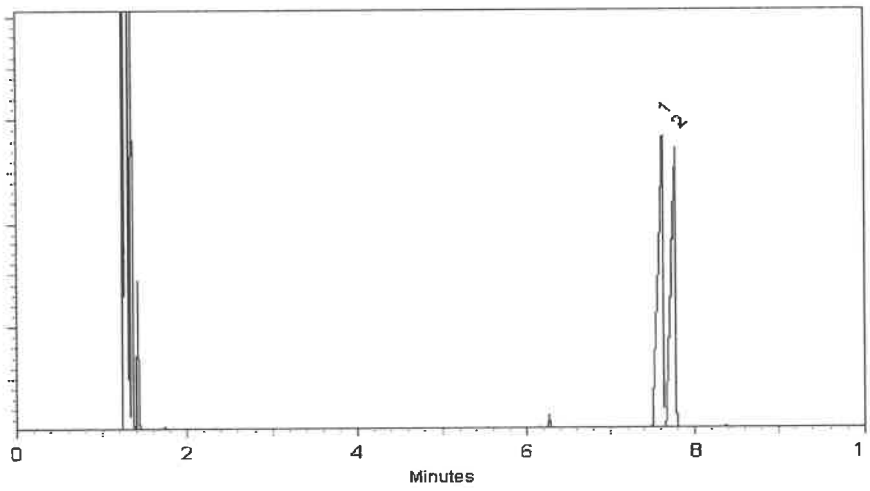
Inj. Temp:
250°C

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)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

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

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

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.

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

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

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

ISO 17025
Cert No. AT-1937

P12706 ↓ P12715 (10)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

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

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

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.

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

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

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

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

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

ISO 17025
Cert No. AT-1937

P12766 ↓ P12785 (20)

Agilent
Trusted Answers

ISO 17034

9.11.23

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: 0006750243
Lot Issue Date: 07-Jul-2023
Expiration Date: 31-Aug-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	±	0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	±	0.5 µg/mL	000093-76-5	NT01808

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.

Agilent

Trusted Answers

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

P12766 ↓ P12785 / 20

9/11/2023

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

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

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

ISO 17025
Cert No. AT-1937

P12766 ↓ P12785 (20)

Agilent
Trusted Answers

ISO 17034

9.11.23

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: 0006750243
Lot Issue Date: 07-Jul-2023
Expiration Date: 31-Aug-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	±	0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	±	0.5 µg/mL	000093-76-5	NT01808

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.

Agilent

Trusted Answers

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

P12766 ↓ P12785 / 20

9/11/2023

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

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

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

ISO 17025
Cert No. AT-1937

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

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

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

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

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

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

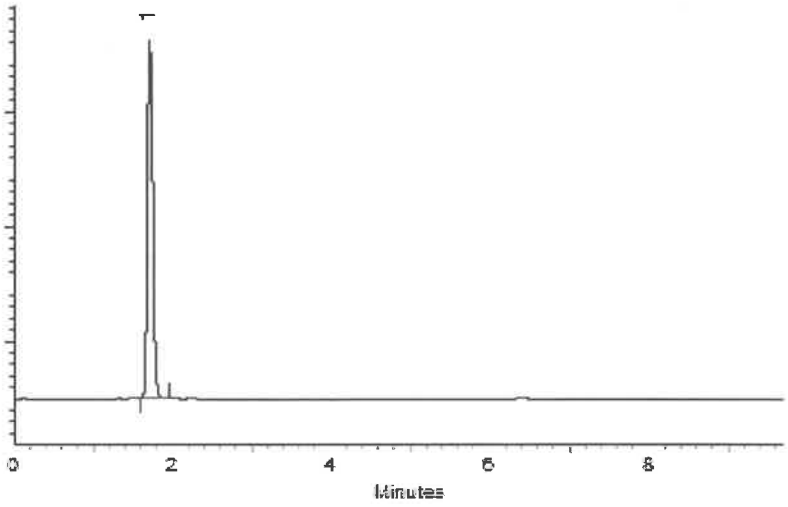
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



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: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

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

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

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

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

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

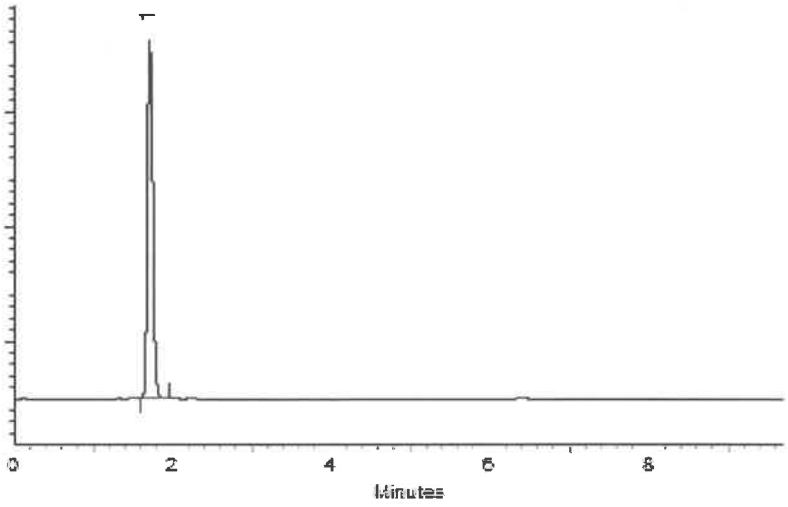
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



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: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

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

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

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

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

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

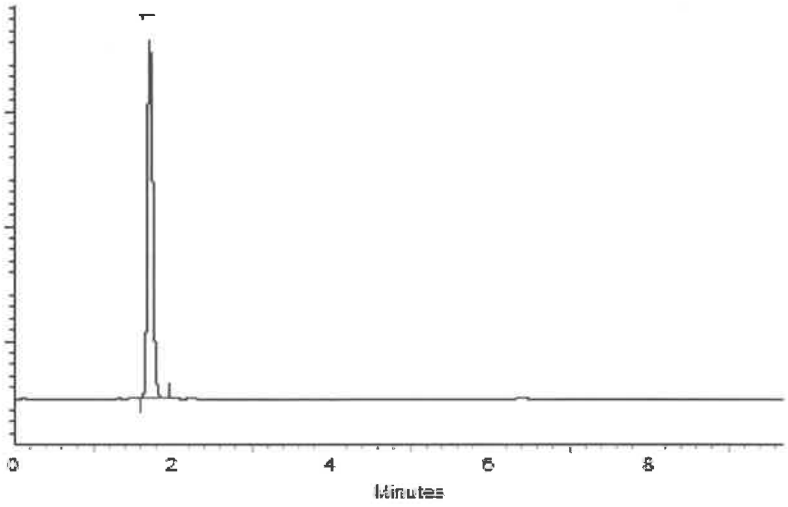
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



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: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

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

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

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

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

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

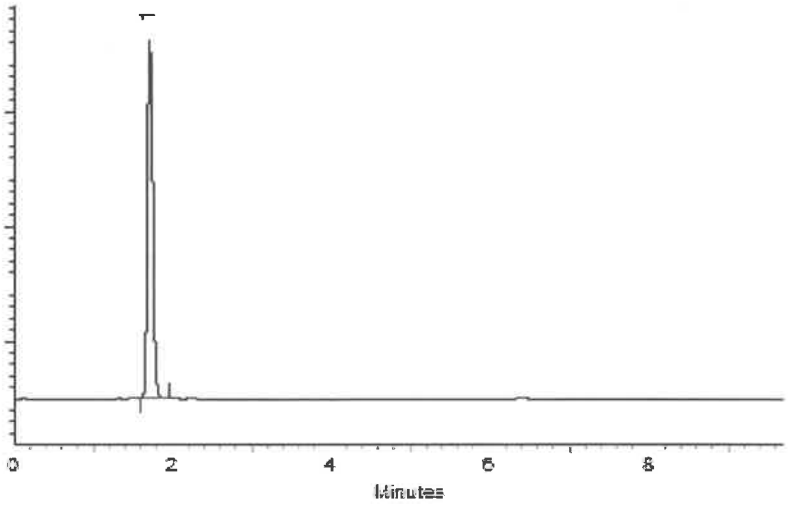
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



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: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Agilent
Trusted Answers

ISO 17034

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: 0006750243
Lot Issue Date: 07-Jul-2023
Expiration Date: 31-Aug-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.1	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.1	±	0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	±	0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	±	0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	±	0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	±	0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	±	0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	±	0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	±	0.5 µg/mL	000093-76-5	NT01808

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.

P13517 } (2)
P13518

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

9/4/2024

SHIPPING DOCUMENTS

P5380

Weston COC ID
Weston_20241220

Chain of Custody Record/Lab Work Request

WESTON SOLUTIONS

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	7	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SB- Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Analyses Requested:	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012B	PCB by EPA 8082A	Ignitability by EPA 1030	pH by EPA 9045D		
Container Type:	Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass		
Container Size:	25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz		
Preservative:	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6 dec	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6		

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected													Special Instructions/Comments
1	TAPIAL3-IDW-Soil-122024-T1	c	DS	6	no	12/20/2024	14:15	X	X	X	X	X	X	X	X	X	X			expedited 7 day TAT
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Shipping Airbill Number(s):		Cooler Number:	1	of	1

	Relinquished By	Date	Time	Received By	Date	Time	Additional Comments
1.)	[signature]	12/20/24	1800	[signature]	12/21/24	11:00	QSM 6.0 Compliant
2.)						2.3°C	Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD
3.)							

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

Laboratory Certification

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

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
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: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.699	503.9E6	237.0E6	222.752	210.534	
		Target Compounds							
1)	T	Dalapon	2.620	2.673	500.0E6	362.7E6	177.529	184.238	
2)	T	3,5-DICHL...	6.385	6.661	668.9E6	323.0E6	203.004	194.854	
3)	T	4-Nitroph...	7.008	7.228	299.9E6	166.2E6	199.645	198.584	
5)	T	DICAMBA	7.396	7.897	1911.4E6	998.4E6	193.846	181.867	
6)	T	MCPP	7.574	7.997	82965047	58391123	13.335	17.869	#
7)	T	MCPA	7.723	8.239	151.0E6	85488472	17.227	18.453	
8)	T	DICHLORPROP	8.101	8.611	551.3E6	266.5E6	207.799	193.146	
9)	T	2,4-D	8.331	8.939	591.5E6	276.9E6	207.594	191.888	
10)	T	Pentachlo...	8.628	9.464	8263.2E6	4286.0E6	211.512	196.616	
11)	T	2,4,5-TP ...	9.205	9.842	3194.4E6	1738.0E6	203.346	193.467	
12)	T	2,4,5-T	9.498	10.260	3340.3E6	1703.5E6	205.314	195.600	
13)	T	2,4-DB	10.069	10.826	695.4E6	175.1E6	222.773	180.294	
14)	T	DINOSEB	11.276	11.204	2736.5E6	1244.5E6	203.581	202.062	
15)	T	Picloram	11.084	12.292	5334.3E6	2328.7E6	198.947	181.377	
16)	T	DCPA	11.570	12.245	4983.4E6	2065.0E6	207.201	192.188	

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

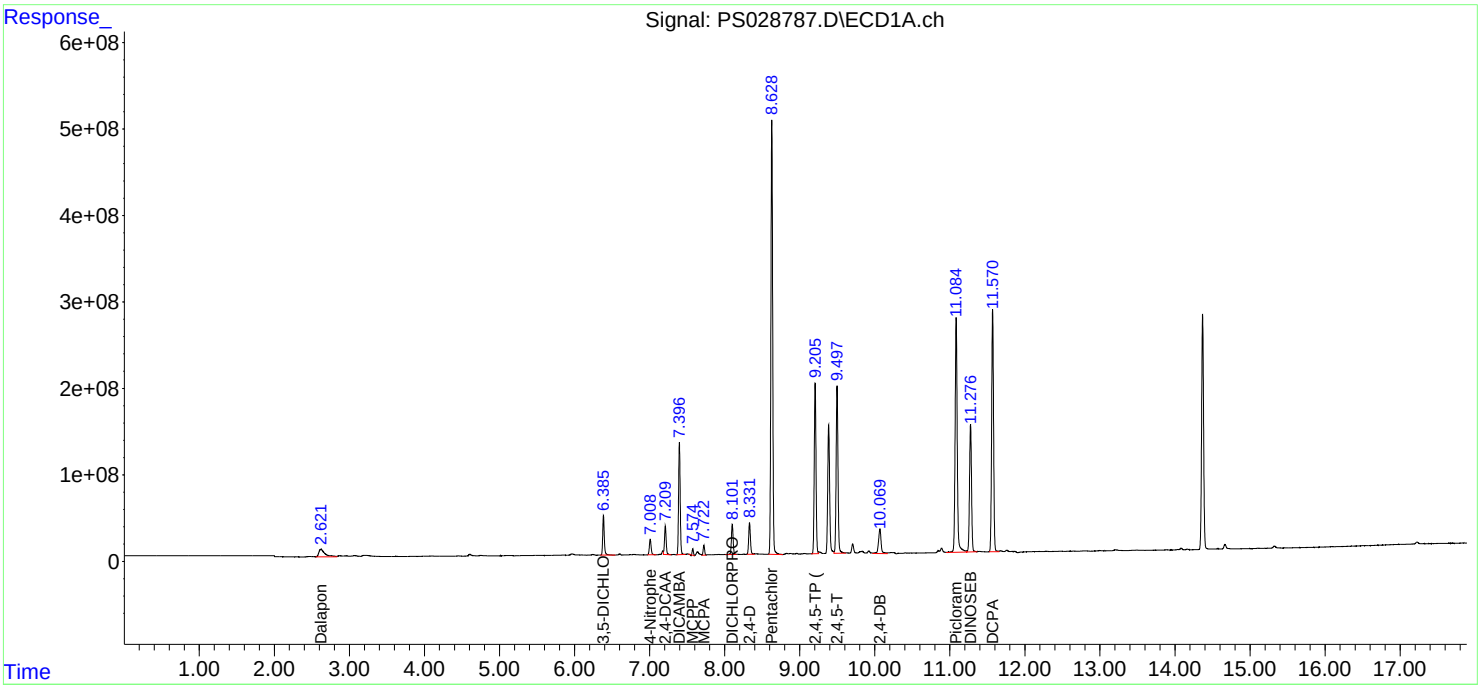
Quantitation Report (Not Reviewed)

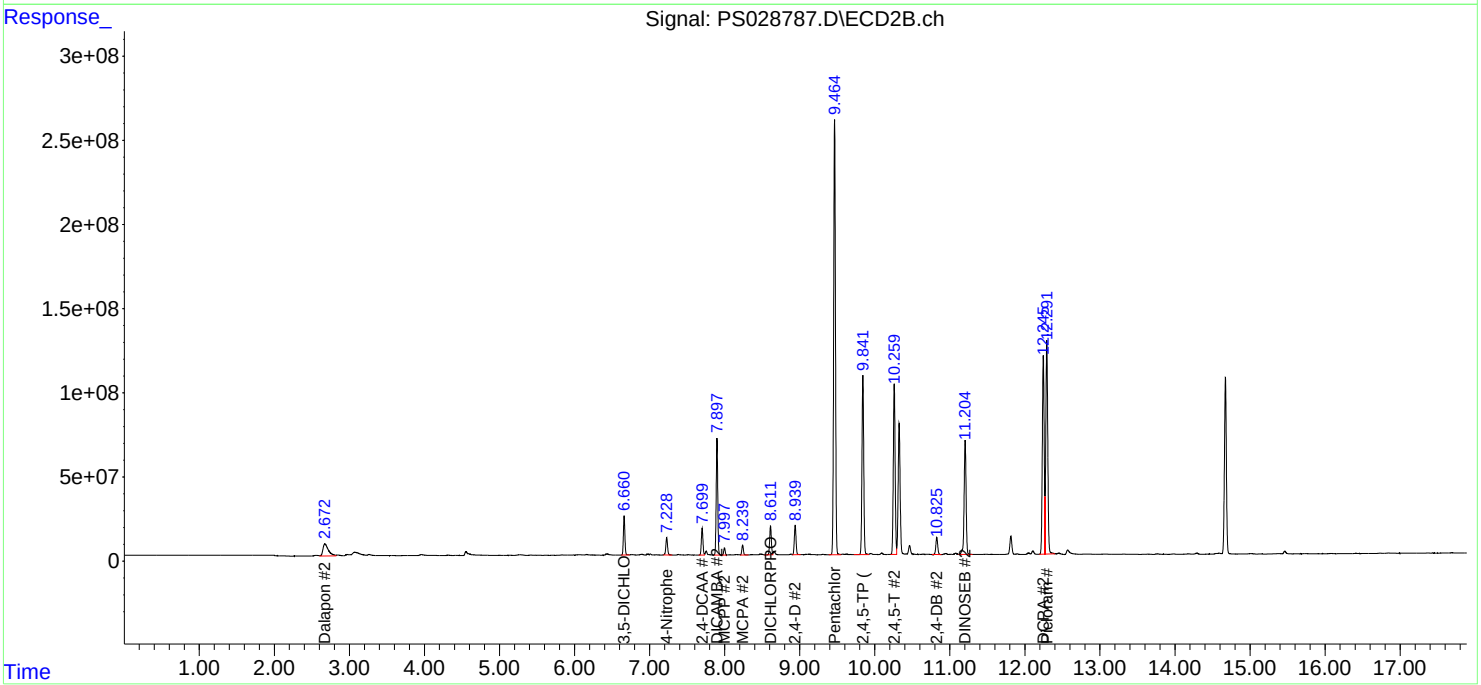
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 11:23
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

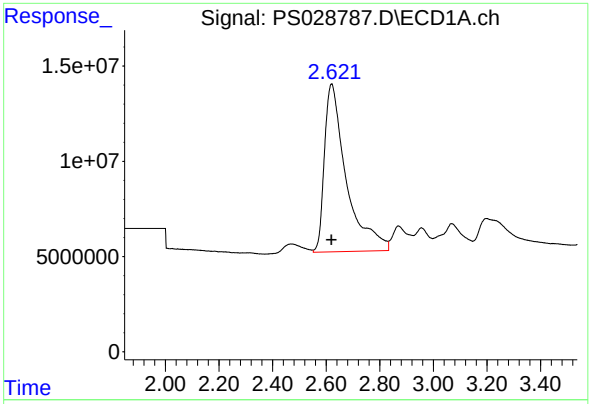
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:43:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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 0.25µm



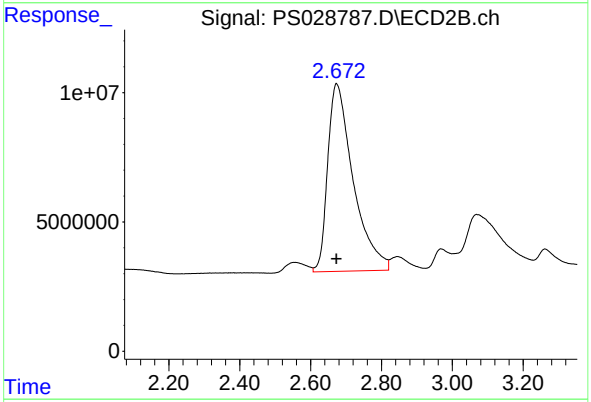




#1 Dalapon

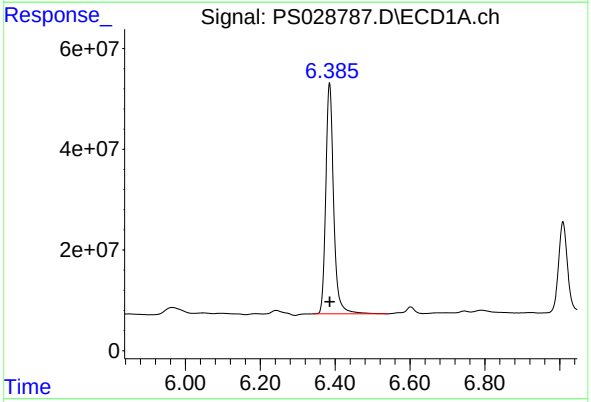
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 500038468
Conc: 177.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



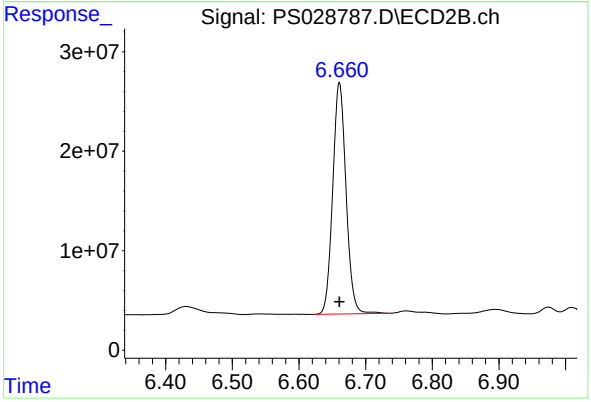
#1 Dalapon

R.T.: 2.673 min
Delta R.T.: 0.000 min
Response: 362691844
Conc: 184.24 ng/ml



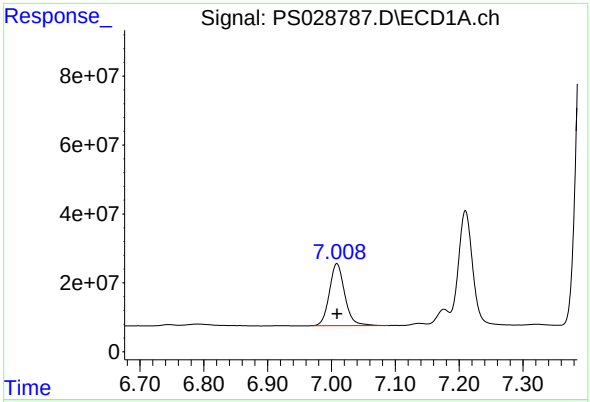
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 668926243
Conc: 203.00 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

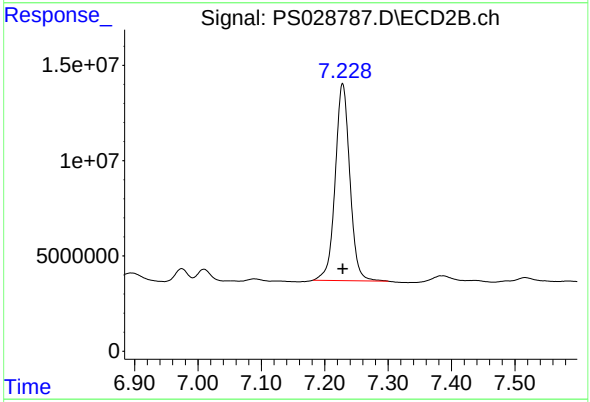
R.T.: 6.661 min
Delta R.T.: 0.000 min
Response: 322985148
Conc: 194.85 ng/ml



#3 4-Nitrophenol

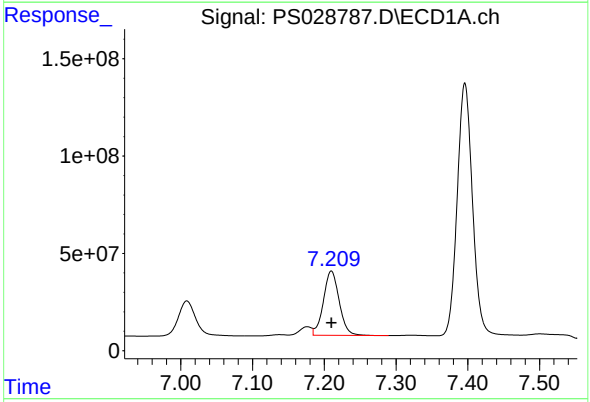
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 299878461
Conc: 199.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



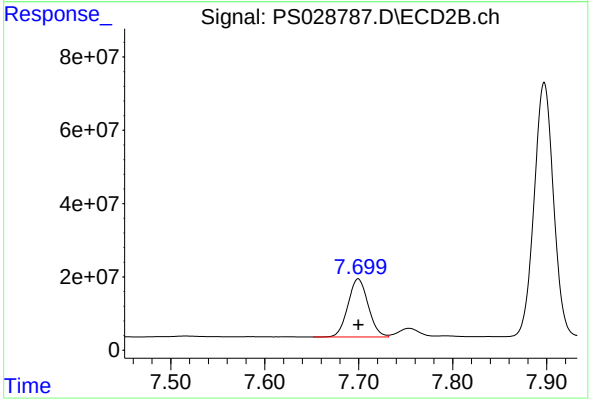
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 166193367
Conc: 198.58 ng/ml



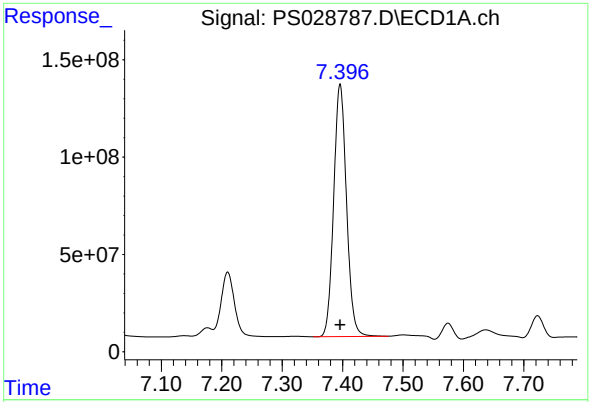
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 503871113
Conc: 222.75 ng/ml



#4 2,4-DCAA

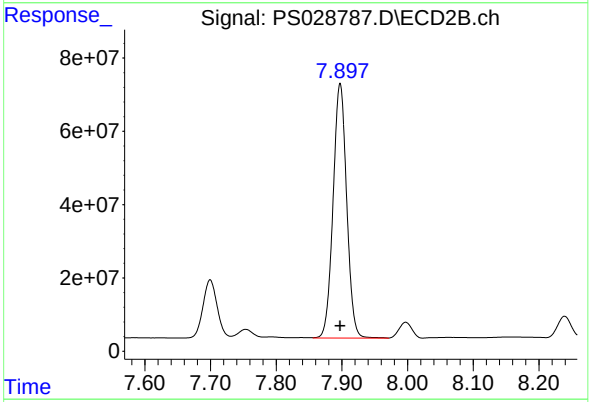
R.T.: 7.699 min
Delta R.T.: 0.000 min
Response: 236963416
Conc: 210.53 ng/ml



#5 DICAMBA

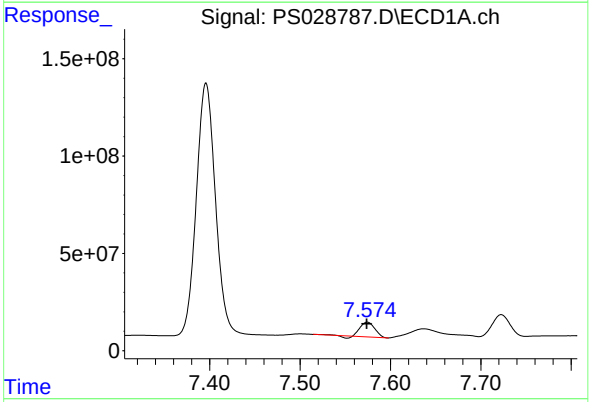
R.T.: 7.396 min
Delta R.T.: 0.000 min
Response: 1911442793
Conc: 193.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



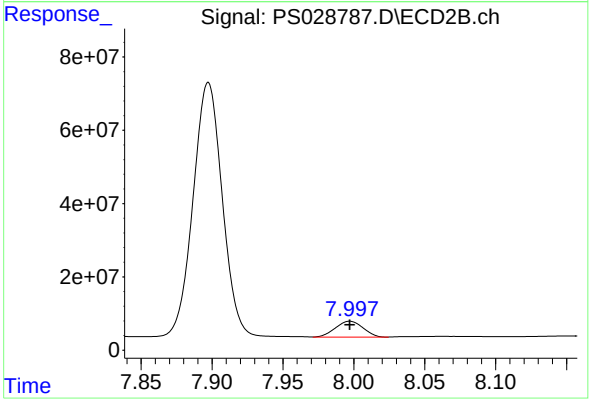
#5 DICAMBA

R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 998426779
Conc: 181.87 ng/ml



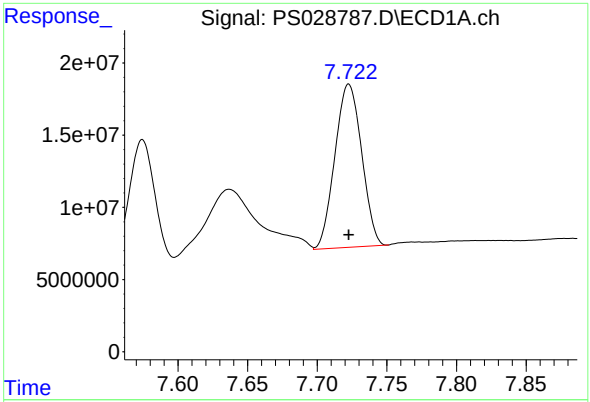
#6 MCPP

R.T.: 7.574 min
Delta R.T.: 0.000 min
Response: 82965047
Conc: 13.34 ug/ml



#6 MCPP

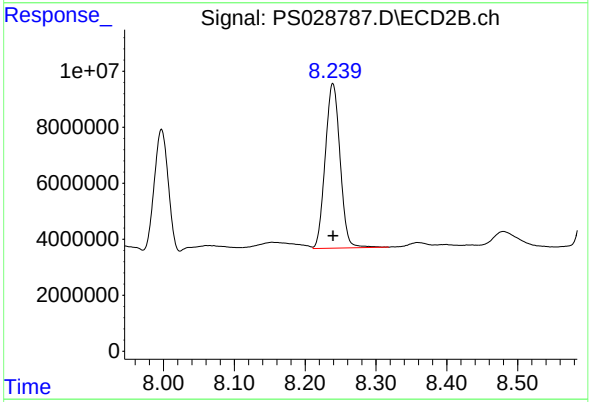
R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 58391123
Conc: 17.87 ug/ml



#7 MCPA

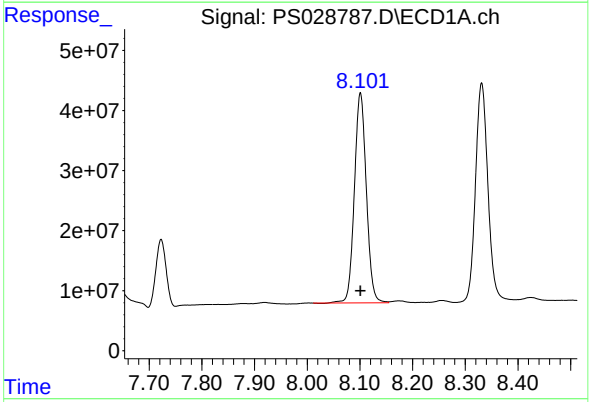
R.T.: 7.723 min
Delta R.T.: 0.000 min
Response: 151004248
Conc: 17.23 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



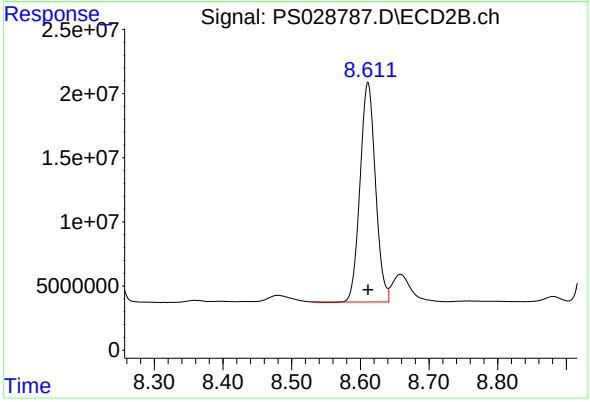
#7 MCPA

R.T.: 8.239 min
Delta R.T.: 0.000 min
Response: 85488472
Conc: 18.45 ug/ml



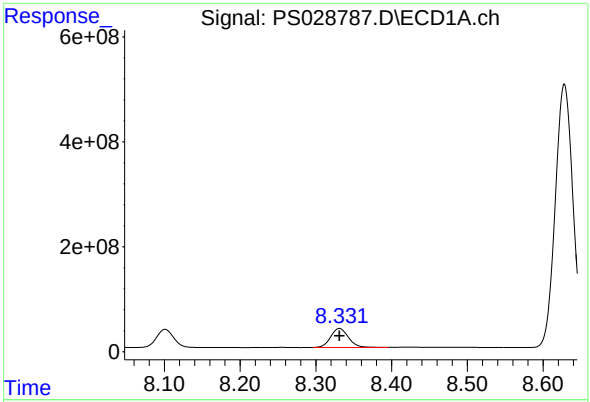
#8 DICHLORPROP

R.T.: 8.101 min
Delta R.T.: 0.000 min
Response: 551327966
Conc: 207.80 ng/ml



#8 DICHLORPROP

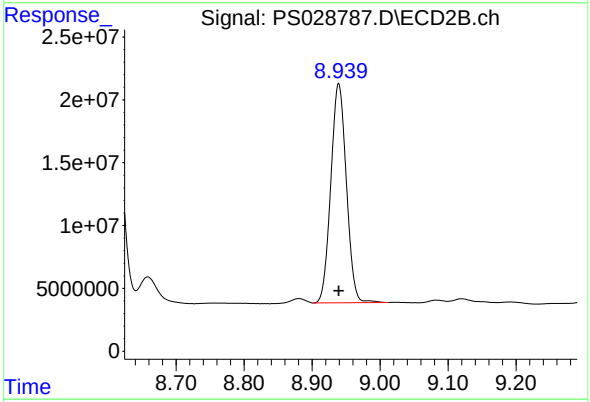
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 266475549
Conc: 193.15 ng/ml



#9 2,4-D

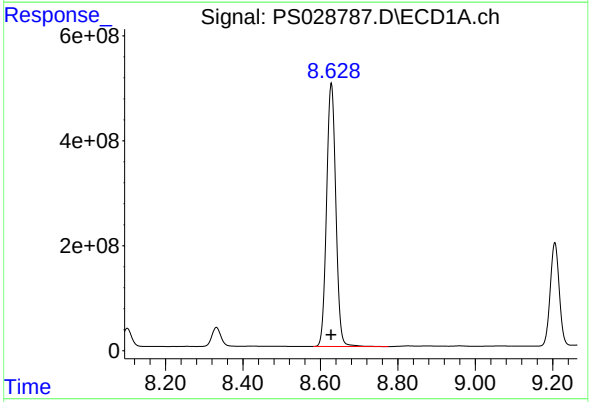
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 591545661
Conc: 207.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



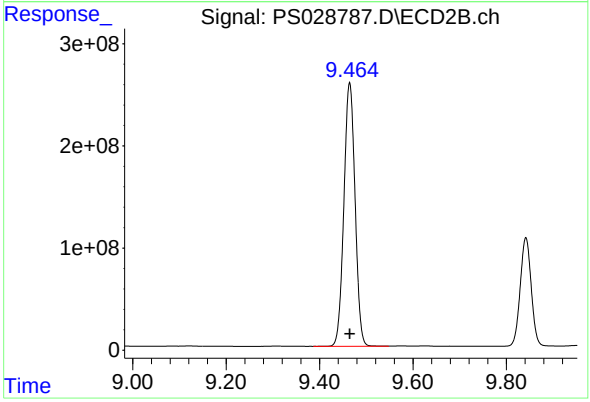
#9 2,4-D

R.T.: 8.939 min
Delta R.T.: 0.000 min
Response: 276921663
Conc: 191.89 ng/ml



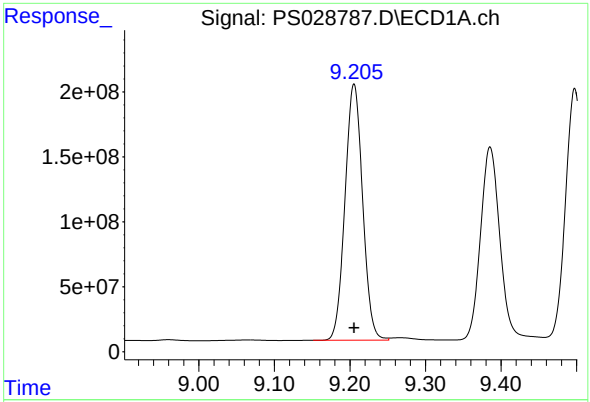
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 8263150461
Conc: 211.51 ng/ml



#10 Pentachlorophenol

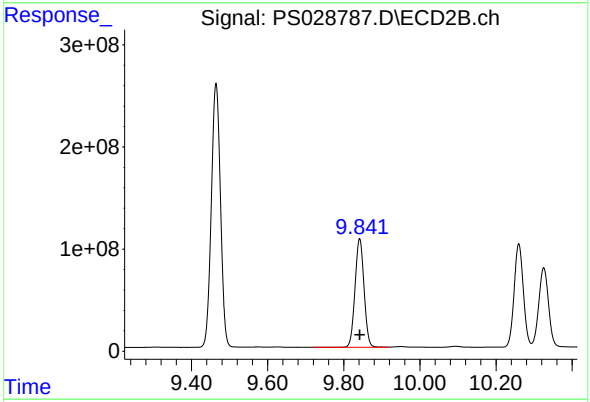
R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4285983917
Conc: 196.62 ng/ml



#11 2,4,5-TP (SILVEX)

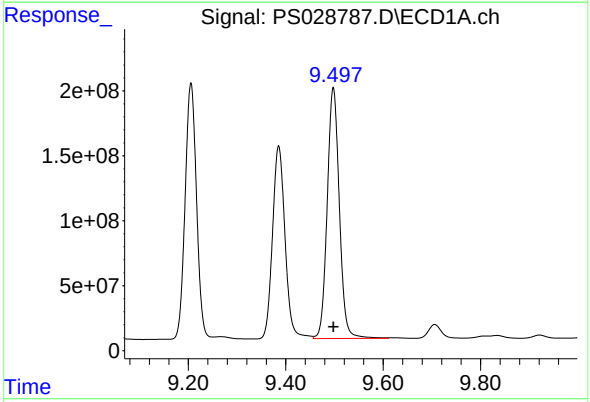
R.T.: 9.205 min
Delta R.T.: 0.000 min
Response: 3194421416
Conc: 203.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



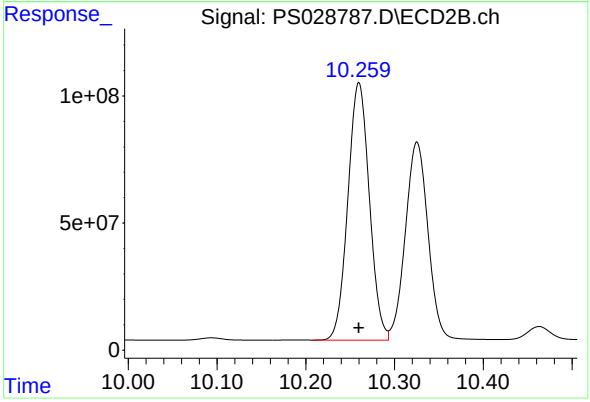
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 1738011876
Conc: 193.47 ng/ml



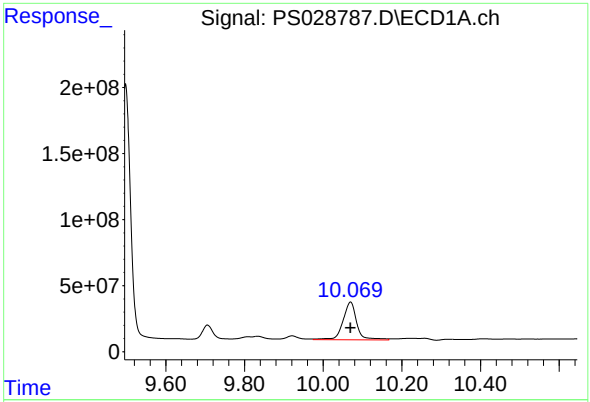
#12 2,4,5-T

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 3340298408
Conc: 205.31 ng/ml



#12 2,4,5-T

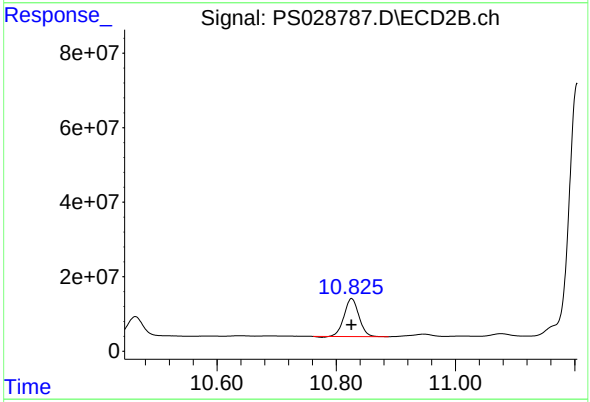
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 1703520011
Conc: 195.60 ng/ml



#13 2,4-DB

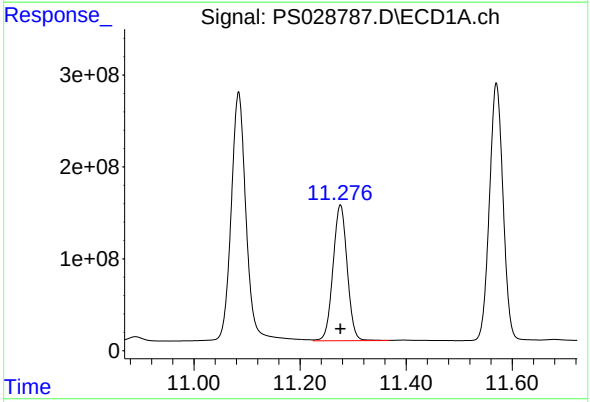
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 695408240
Conc: 222.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



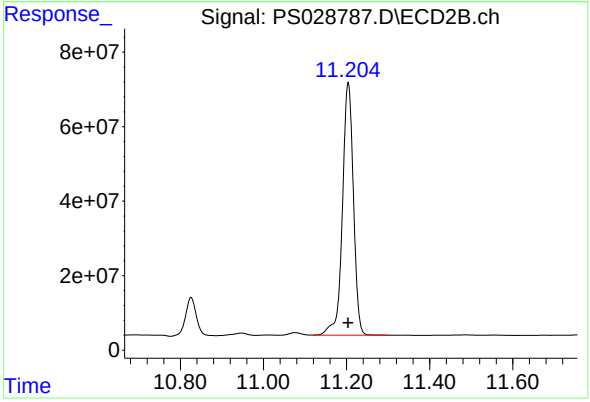
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 175083291
Conc: 180.29 ng/ml



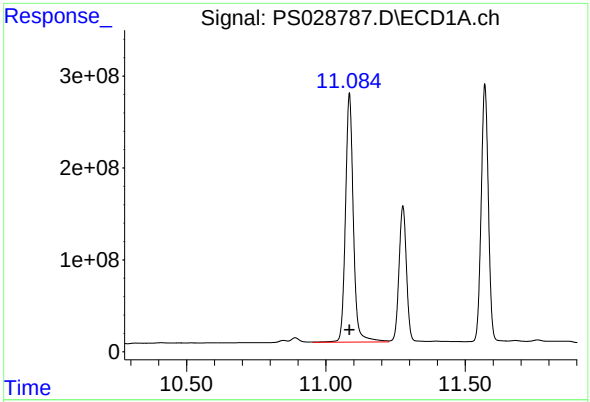
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 2736479281
Conc: 203.58 ng/ml



#14 DINOSEB

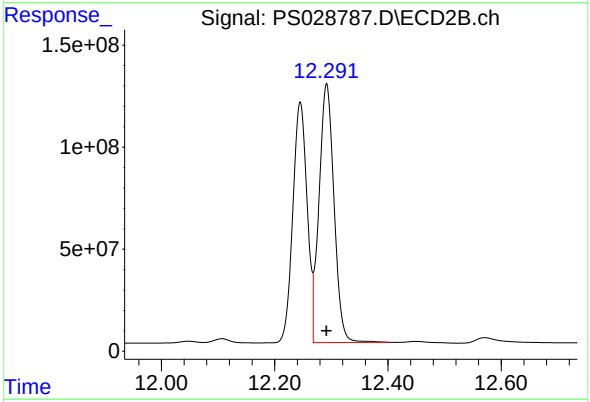
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1244531304
Conc: 202.06 ng/ml



#15 Picloram

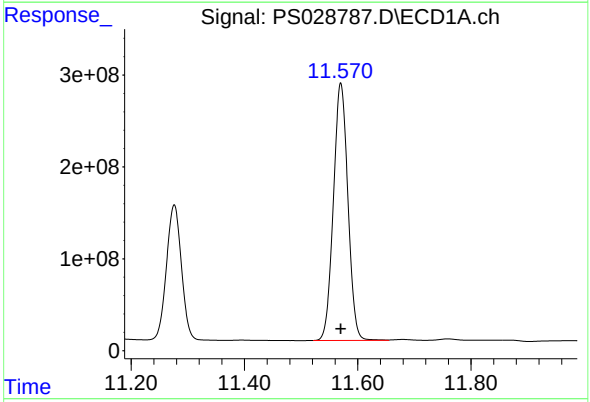
R.T.: 11.084 min
Delta R.T.: 0.000 min
Response: 5334309678
Conc: 198.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



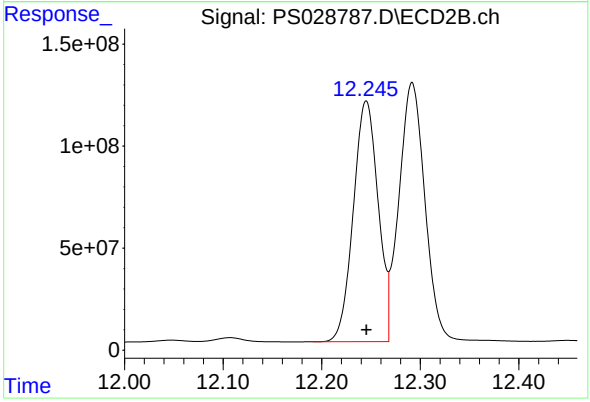
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 2328698069
Conc: 181.38 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 4983398928
Conc: 207.20 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 2064979082
Conc: 192.19 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
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: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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	7.210	7.700	2453.9E6	1104.1E6	1134.943	998.684
		Target Compounds						
1)	T	Dalapon	2.620	2.675	2590.1E6	1784.2E6	908.696	909.276
2)	T	3,5-DICHL...	6.385	6.660	2970.3E6	1521.1E6	932.245	932.254
3)	T	4-Nitroph...	7.008	7.228	1335.0E6	747.4E6	912.099	916.441
5)	T	DICAMBA	7.397	7.898	9168.9E6	5233.4E6	942.217	940.257
6)	T	MCPP	7.581	8.004	613.6E6	312.6E6	93.266	93.797
7)	T	MCPA	7.731	8.247	836.7E6	431.0E6	92.726	92.759
8)	T	DICHLORPROP	8.102	8.611	2407.7E6	1281.5E6	943.767	937.998
9)	T	2,4-D	8.331	8.940	2561.8E6	1344.1E6	936.700	939.288
10)	T	Pentachlo...	8.629	9.465	36738.0E6	20389.3E6	996.145	954.348
11)	T	2,4,5-TP ...	9.206	9.842	14533.1E6	8474.0E6	953.244	951.557
12)	T	2,4,5-T	9.497	10.260	14990.1E6	8190.7E6	954.258	952.545
13)	T	2,4-DB	10.069	10.826	2816.6E6	933.2E6	949.832	946.746
14)	T	DINOSEB	11.276	11.204	12260.6E6	5663.4E6	942.779	940.845
15)	T	Picloram	11.085	12.292	25059.4E6	12444.4E6	951.841	952.255
16)	T	DCPA	11.570	12.245	22401.4E6	10328.8E6	964.963	963.806

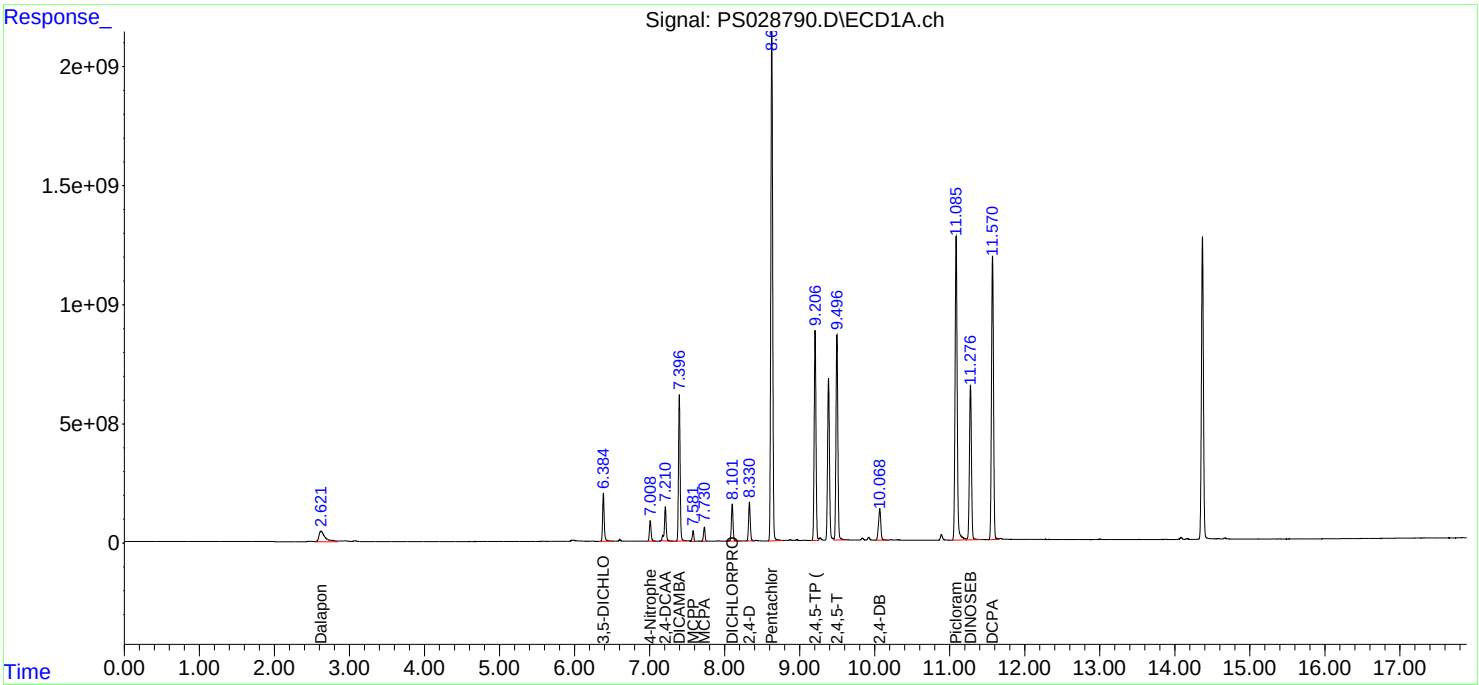
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

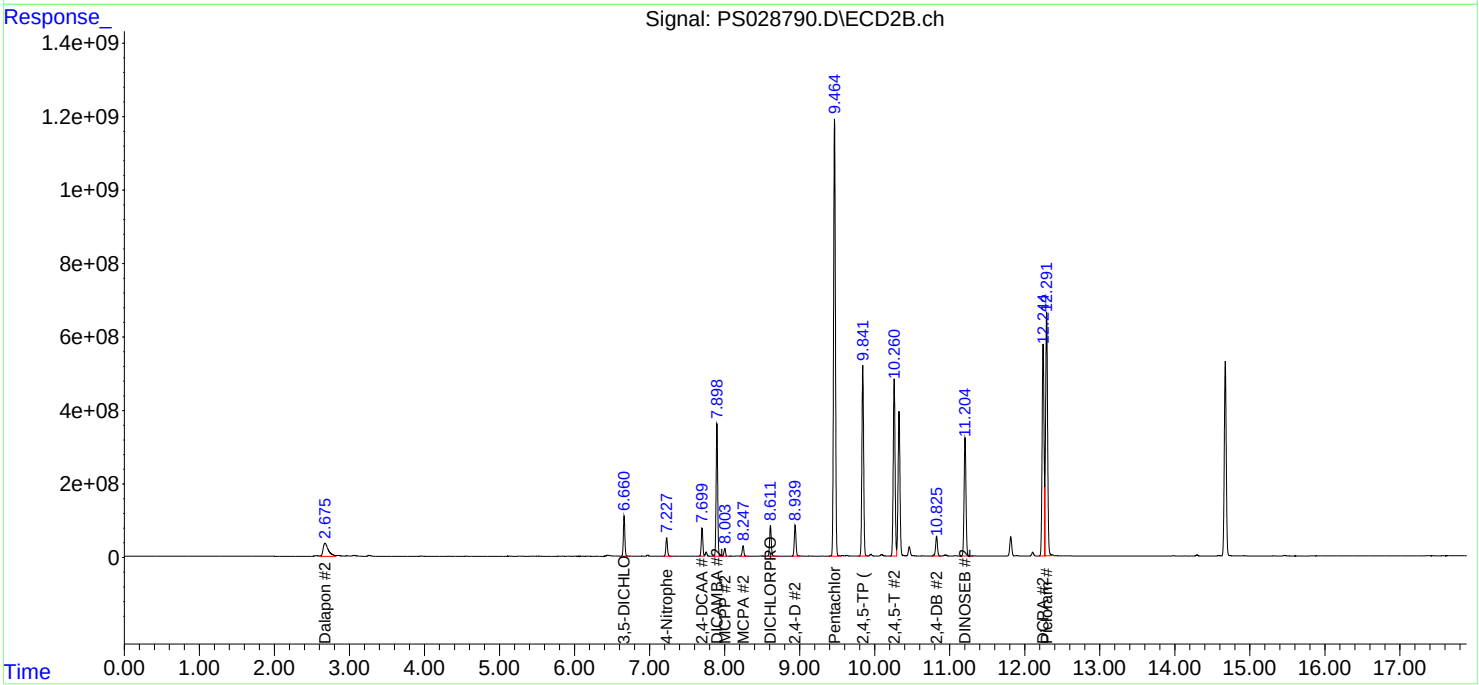
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122324\
Data File : PS028790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Dec 2024 12:35
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

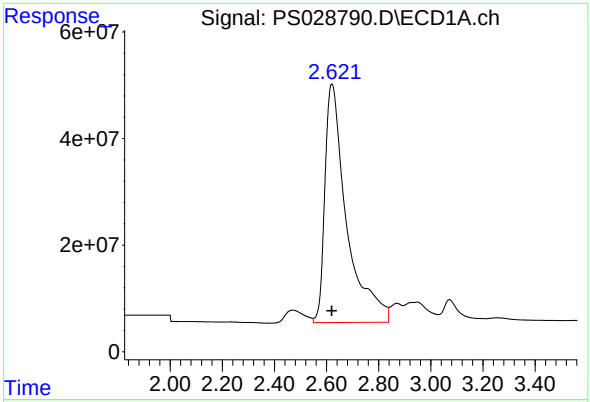
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 23 13:39:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:35:06 2024
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 0.25µm



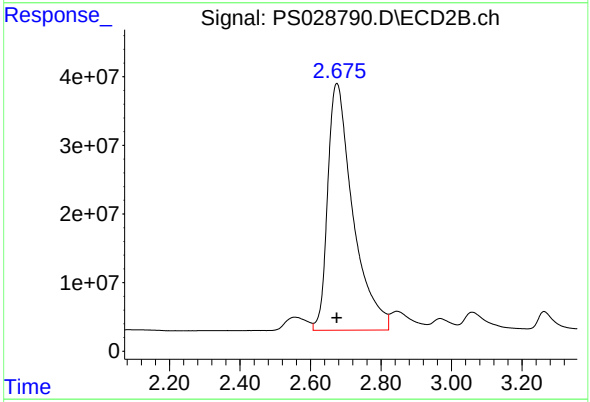




#1 Dalapon

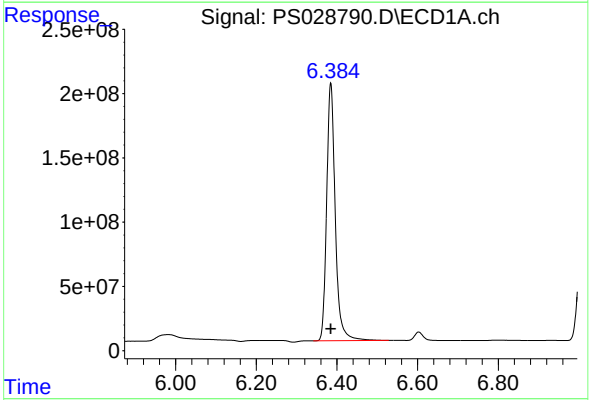
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 2590128401
Conc: 908.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



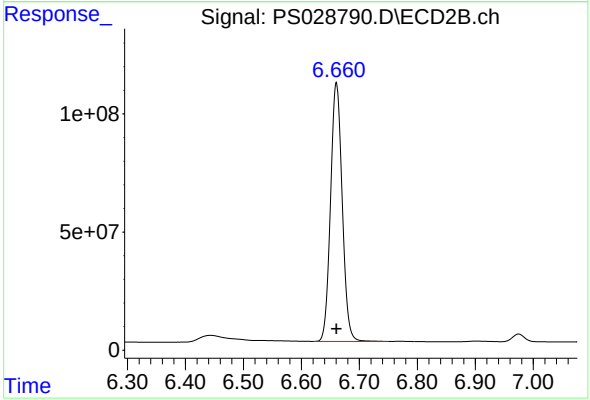
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.000 min
Response: 1784237725
Conc: 909.28 ng/ml



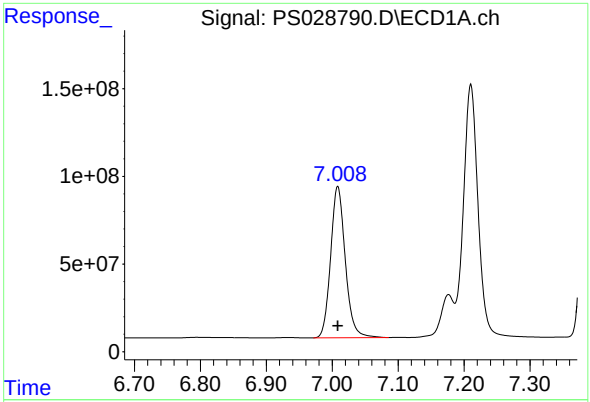
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 2970251089
Conc: 932.25 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

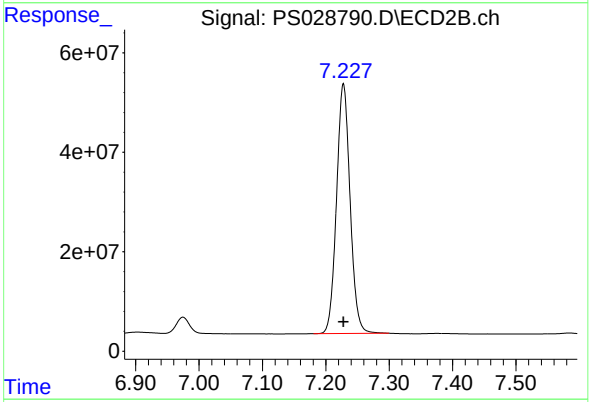
R.T.: 6.660 min
Delta R.T.: 0.000 min
Response: 1521097294
Conc: 932.25 ng/ml



#3 4-Nitrophenol

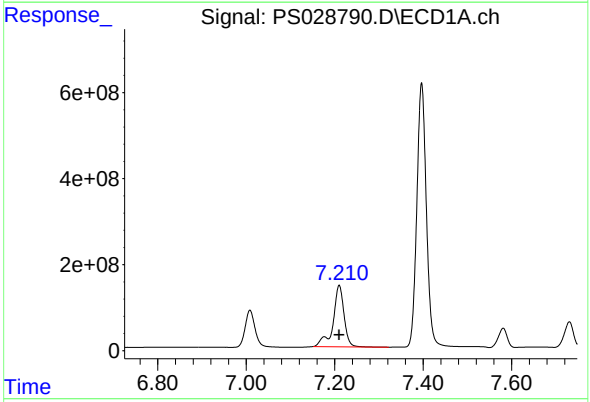
R.T.: 7.008 min
Delta R.T.: 0.000 min
Response: 1335023608
Conc: 912.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



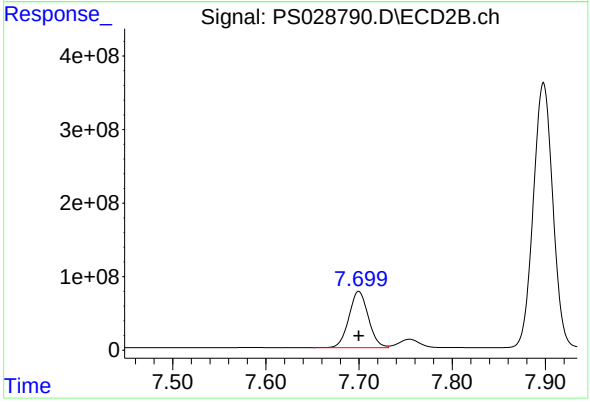
#3 4-Nitrophenol

R.T.: 7.228 min
Delta R.T.: 0.000 min
Response: 747396809
Conc: 916.44 ng/ml



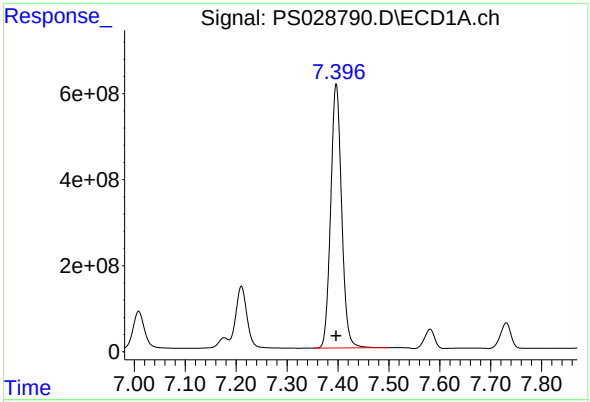
#4 2,4-DCAA

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 2453909564
Conc: 1134.94 ng/ml



#4 2,4-DCAA

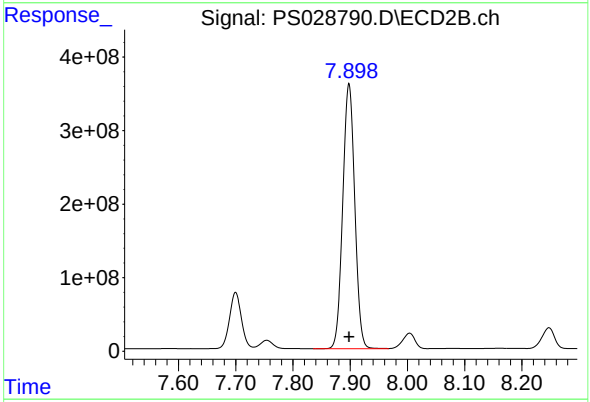
R.T.: 7.700 min
Delta R.T.: 0.000 min
Response: 1104094634
Conc: 998.68 ng/ml



#5 DICAMBA

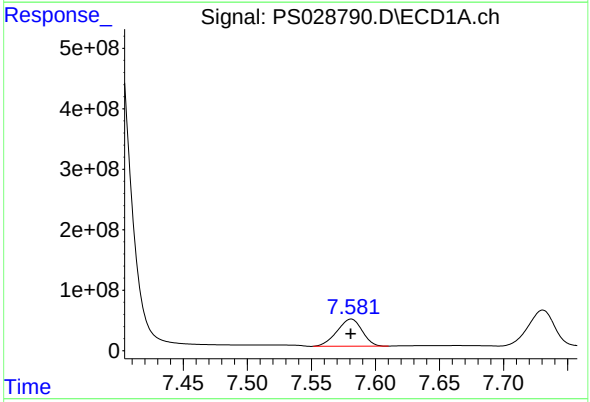
R.T.: 7.397 min
Delta R.T.: 0.000 min
Response: 9168915637
Conc: 942.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



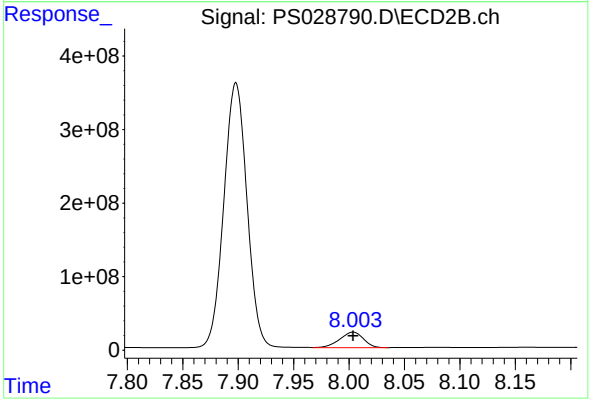
#5 DICAMBA

R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 5233373016
Conc: 940.26 ng/ml



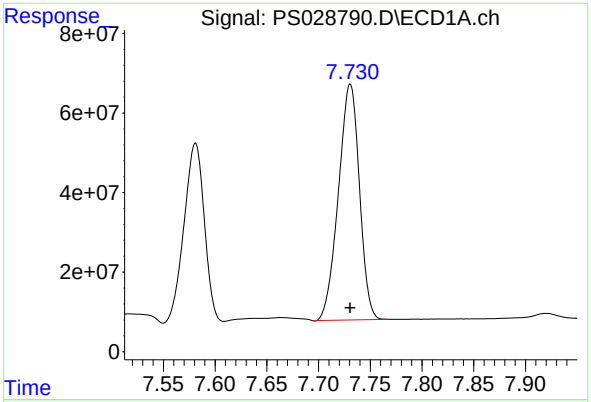
#6 MCPP

R.T.: 7.581 min
Delta R.T.: 0.000 min
Response: 613570466
Conc: 93.27 ug/ml



#6 MCPP

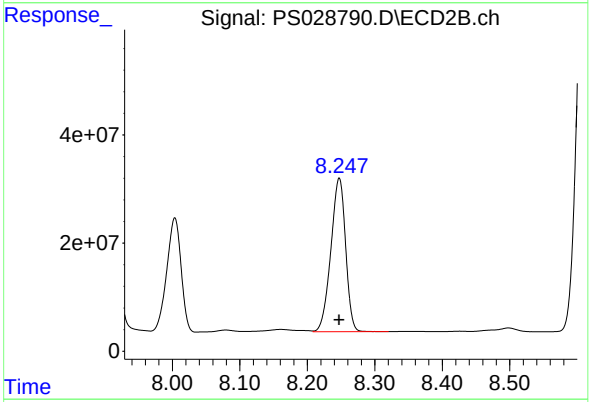
R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 312584461
Conc: 93.80 ug/ml



#7 MCPA

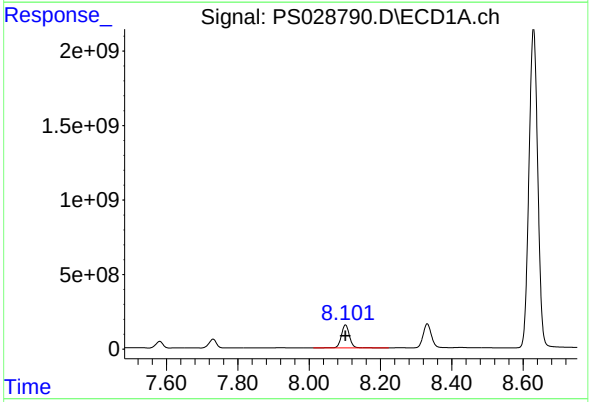
R.T.: 7.731 min
Delta R.T.: 0.000 min
Response: 836729639
Conc: 92.73 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



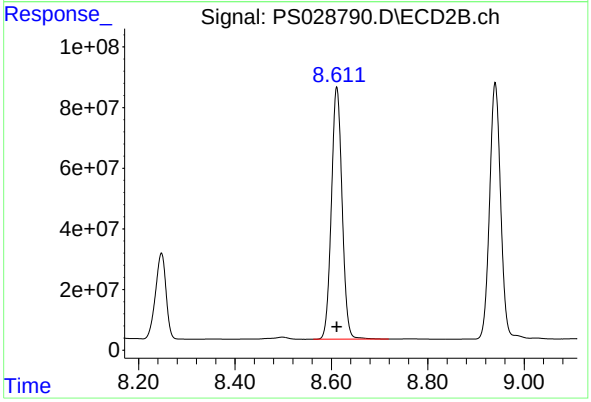
#7 MCPA

R.T.: 8.247 min
Delta R.T.: 0.000 min
Response: 431033829
Conc: 92.76 ug/ml



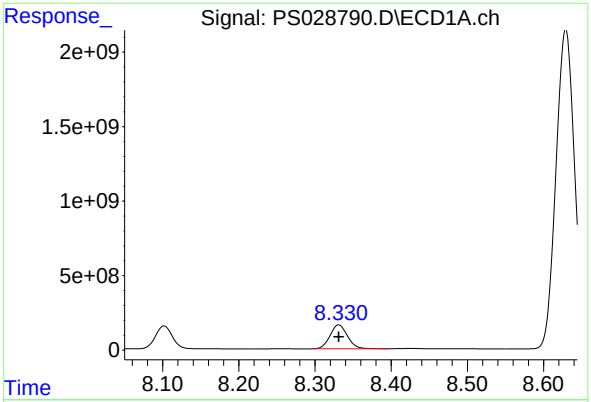
#8 DICHLORPROP

R.T.: 8.102 min
Delta R.T.: 0.000 min
Response: 2407731346
Conc: 943.77 ng/ml



#8 DICHLORPROP

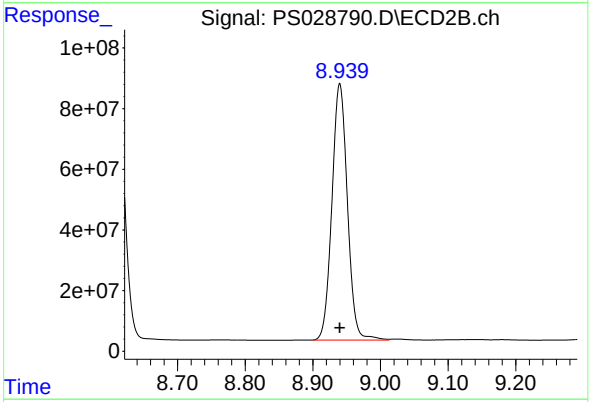
R.T.: 8.611 min
Delta R.T.: 0.000 min
Response: 1281467502
Conc: 938.00 ng/ml



#9 2,4-D

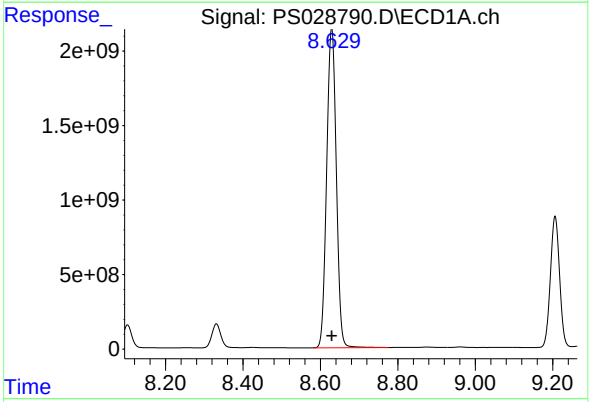
R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 2561822082
Conc: 936.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



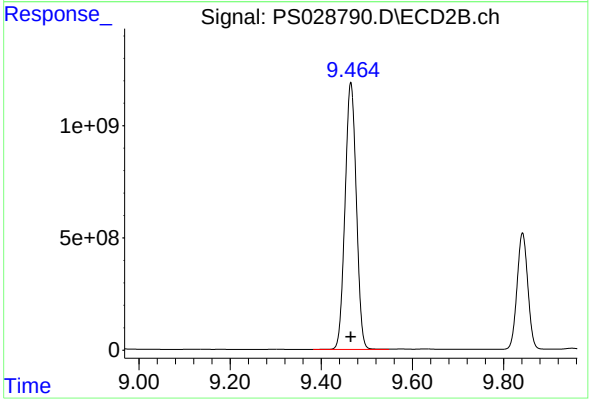
#9 2,4-D

R.T.: 8.940 min
Delta R.T.: 0.000 min
Response: 1344098924
Conc: 939.29 ng/ml



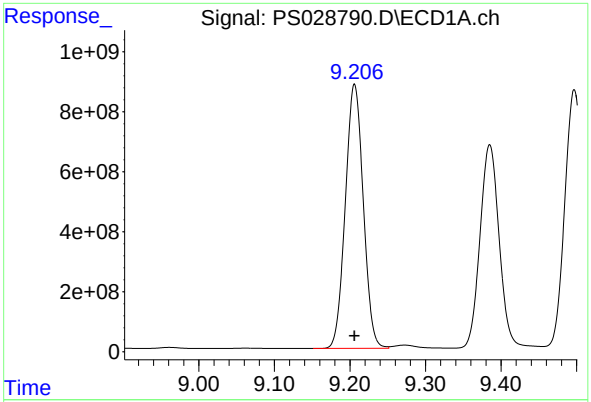
#10 Pentachlorophenol

R.T.: 8.629 min
Delta R.T.: 0.000 min
Response: 36737981703
Conc: 996.15 ng/ml



#10 Pentachlorophenol

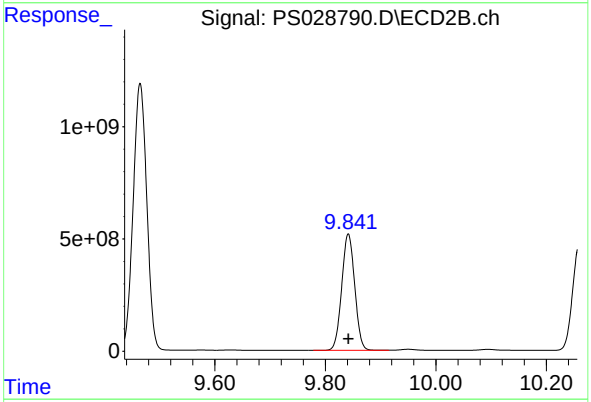
R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 20389309944
Conc: 954.35 ng/ml



#11 2,4,5-TP (SILVEX)

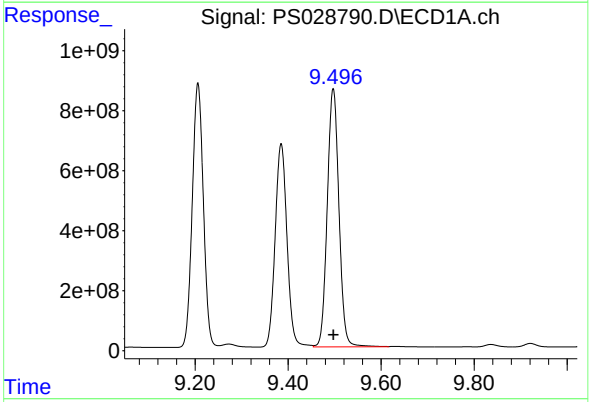
R.T.: 9.206 min
Delta R.T.: 0.000 min
Response: 14533086349
Conc: 953.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



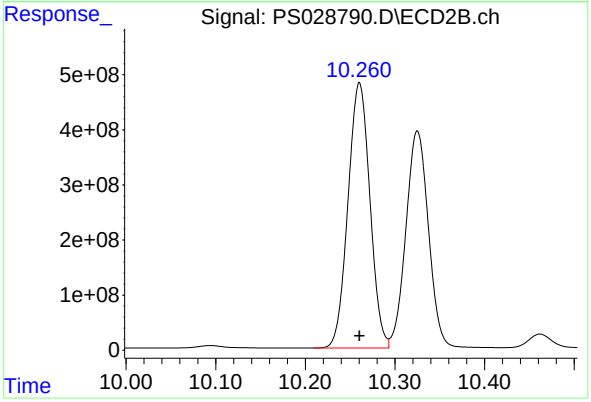
#11 2,4,5-TP (SILVEX)

R.T.: 9.842 min
Delta R.T.: 0.000 min
Response: 8474047803
Conc: 951.56 ng/ml



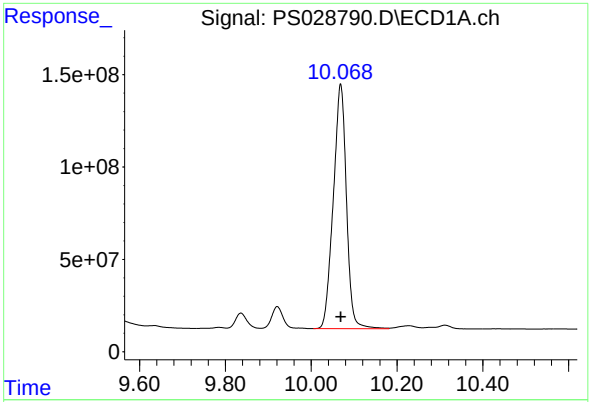
#12 2,4,5-T

R.T.: 9.497 min
Delta R.T.: 0.000 min
Response: 14990081895
Conc: 954.26 ng/ml



#12 2,4,5-T

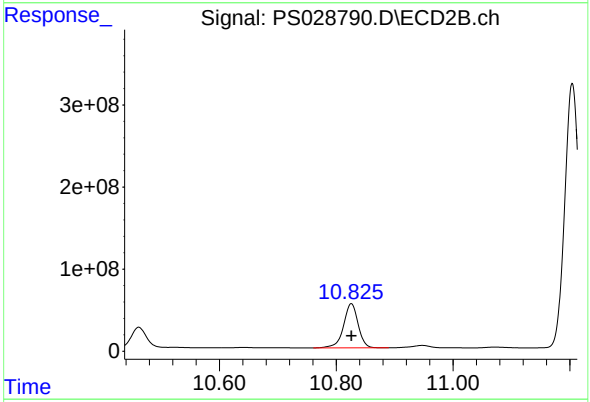
R.T.: 10.260 min
Delta R.T.: 0.000 min
Response: 8190674112
Conc: 952.55 ng/ml



#13 2,4-DB

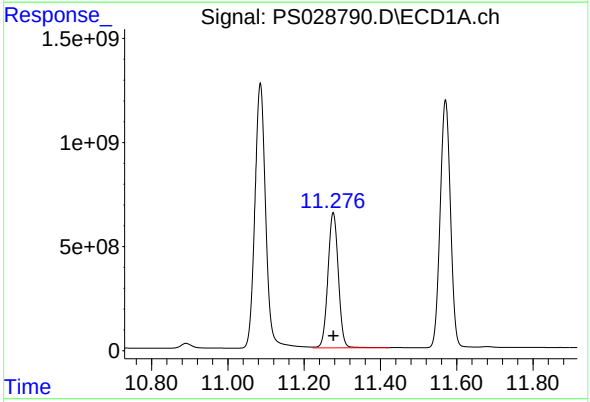
R.T.: 10.069 min
Delta R.T.: 0.000 min
Response: 2816645135
Conc: 949.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



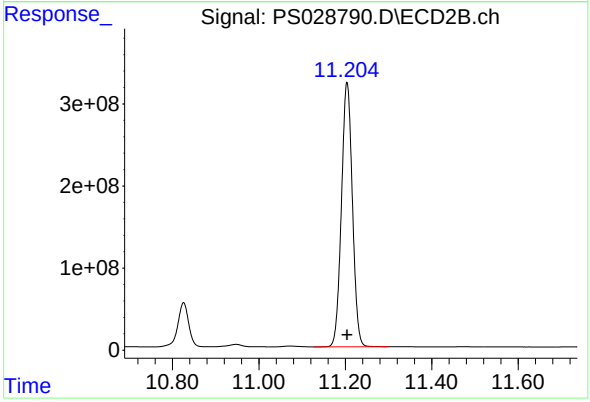
#13 2,4-DB

R.T.: 10.826 min
Delta R.T.: 0.000 min
Response: 933183960
Conc: 946.75 ng/ml



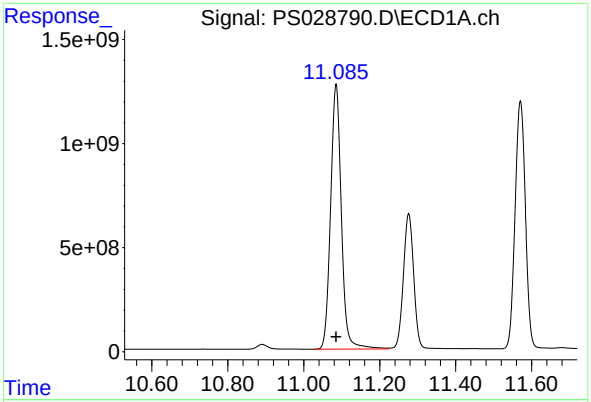
#14 DINOSEB

R.T.: 11.276 min
Delta R.T.: 0.000 min
Response: 12260566434
Conc: 942.78 ng/ml



#14 DINOSEB

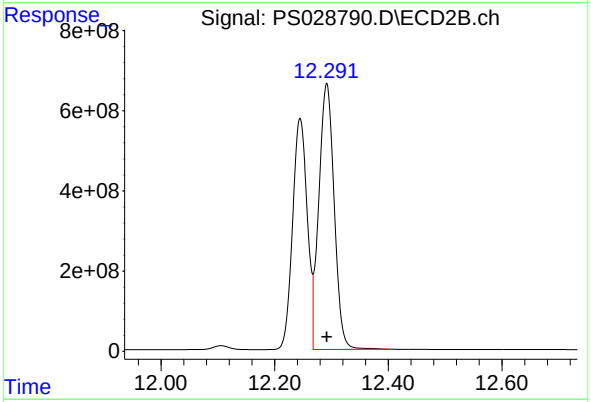
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 5663401402
Conc: 940.85 ng/ml



#15 Picloram

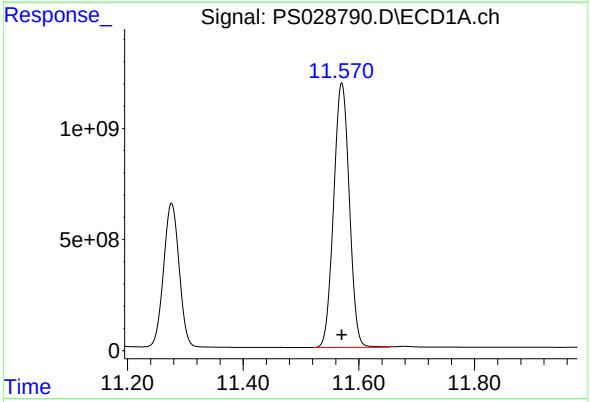
R.T.: 11.085 min
Delta R.T.: 0.000 min
Response: 25059396827
Conc: 951.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



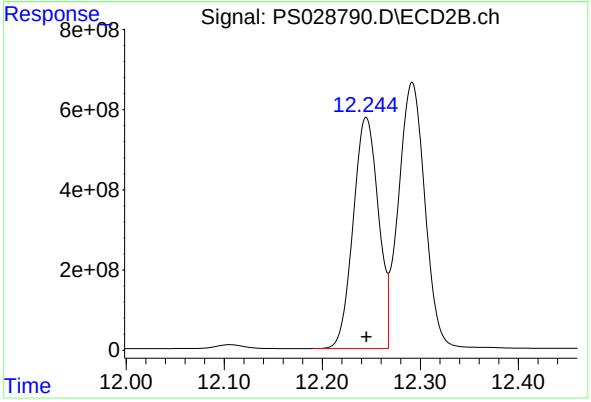
#15 Picloram

R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 12444414253
Conc: 952.26 ng/ml



#16 DCPA

R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 22401440664
Conc: 964.96 ng/ml



#16 DCPA

R.T.: 12.245 min
Delta R.T.: 0.000 min
Response: 10328797190
Conc: 963.81 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:44
Operator : AR\AJ
Sample : P5362-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.206	7.694	1619.3E6	443.8E6	715.849	394.257	#
		Target Compounds							
1)	T	Dalapon	2.620	2.676	991.5E6	1439.4E6	352.008	731.204	#
2)	T	3,5-DICHL...	6.381	6.656	1757.9E6	787.7E6	533.475	475.231	
3)	T	4-Nitroph...	6.993	7.225	16028110	2736148	10.671	3.269	#
5)	T	DICAMBA	7.391	7.892	4667.2E6	2441.6E6	473.321	444.744	
6)	T	MCPP	7.571	7.994	263.5E6	147.8E6	42.321	45.219	
7)	T	MCPA	7.720	8.236	369.3E6	276.5E6	42.127	59.674	#
8)	T	DICHLORPROP	8.095	8.605	1320.6E6	615.8E6	497.759	446.362	
9)	T	2,4-D	8.324	8.932	1510.7E6	732.3E6	530.151	507.454	
10)	T	Pentachlo...	8.622	9.457	18222.1E6	8884.3E6	466.432	407.559	
11)	T	2,4,5-TP ...	9.198	9.835	8847.5E6	5441.1E6	563.203	605.678	
12)	T	2,4,5-T	9.489	10.251	8215.0E6	4038.2E6	504.941	463.676	
13)	T	2,4-DB	10.062	10.816	1300.3E6	401.2E6	416.548	413.128	
14)	T	DINOSEB	11.266	11.195	4317.7E6	1828.8E6	321.214	296.920	
15)	T	Picloram	11.075	12.281	11399.3E6	4960.0E6	425.145	386.326	
16)	T	DCPA	11.559	12.234	10341.9E6	4998.6E6	429.997	465.218	

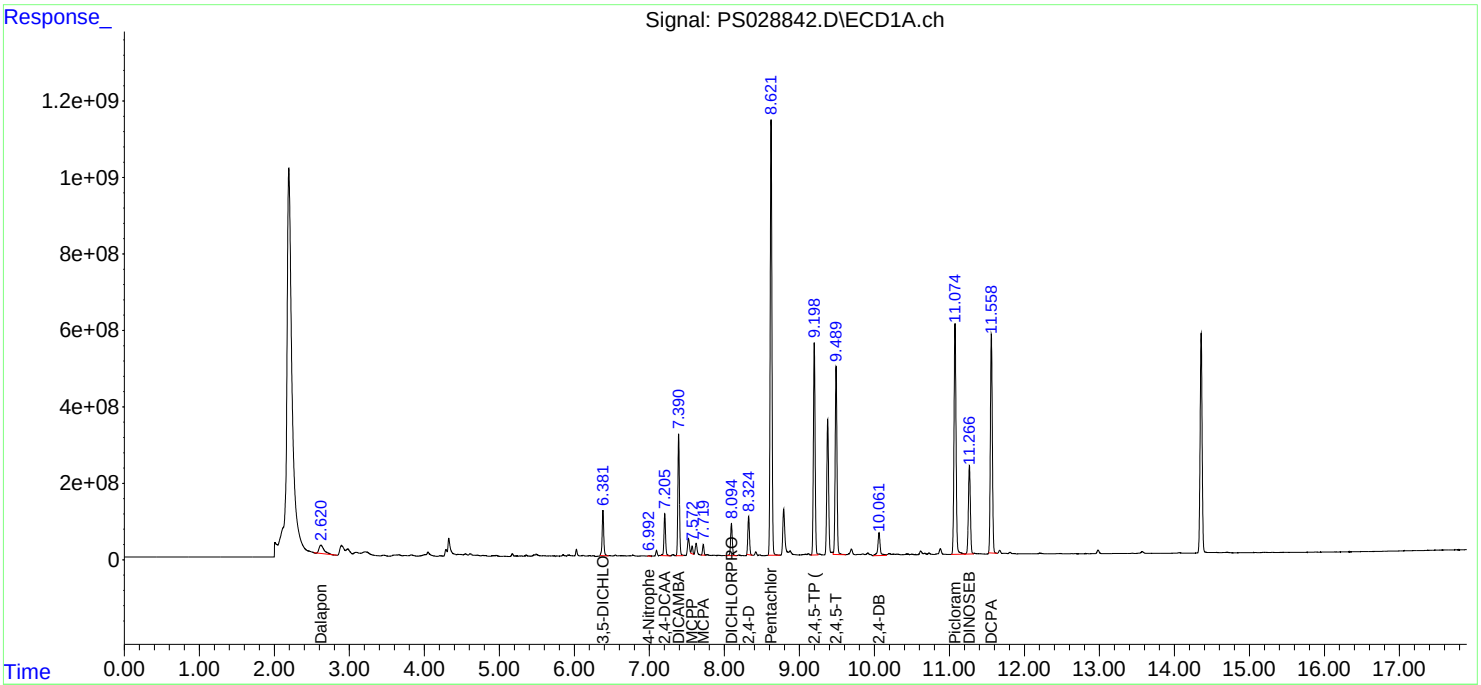
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

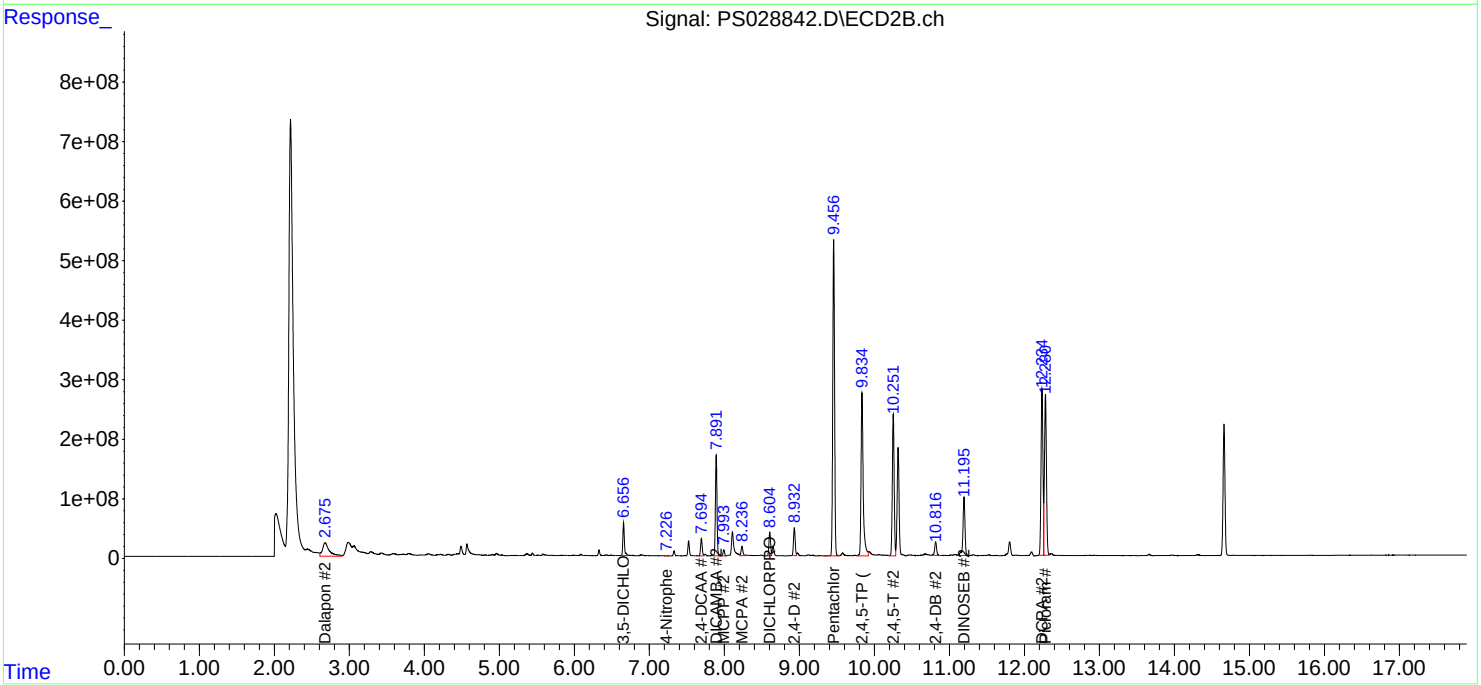
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 22:44
Operator : AR\AJ
Sample : P5362-02MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

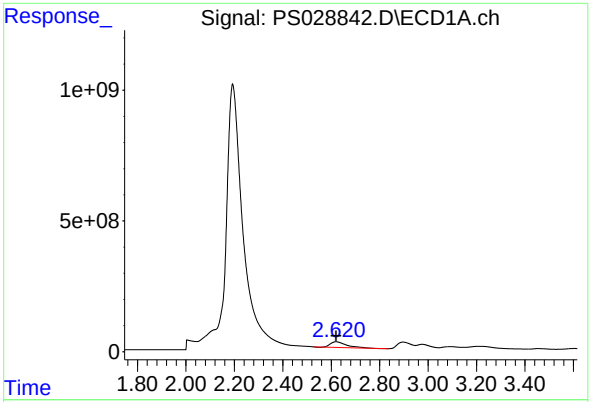
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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 0.25µm



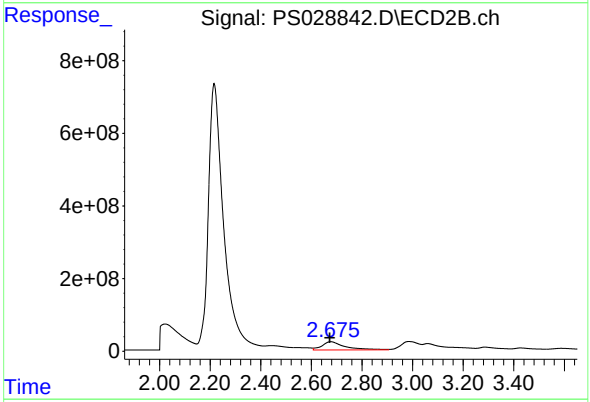




#1 Dalapon

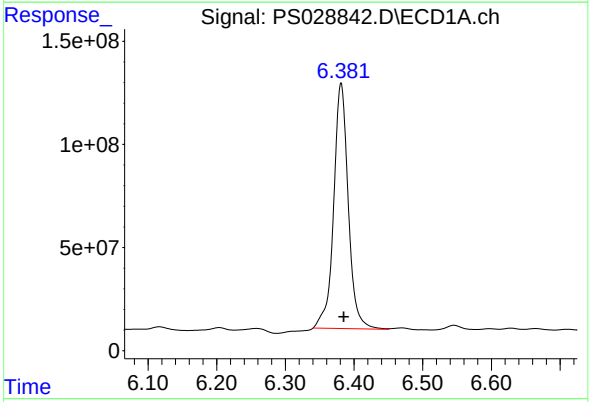
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 991482408
Conc: 352.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



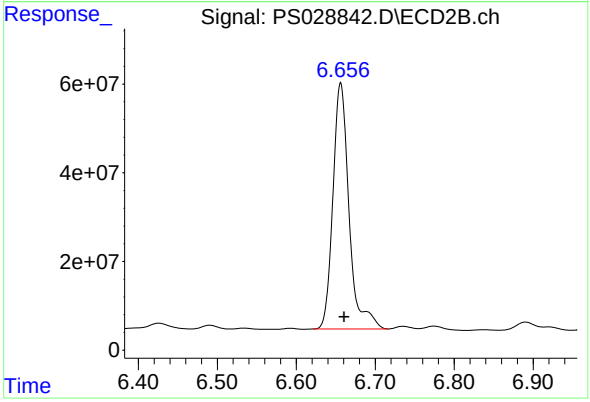
#1 Dalapon

R.T.: 2.676 min
Delta R.T.: 0.003 min
Response: 1439449996
Conc: 731.20 ng/ml



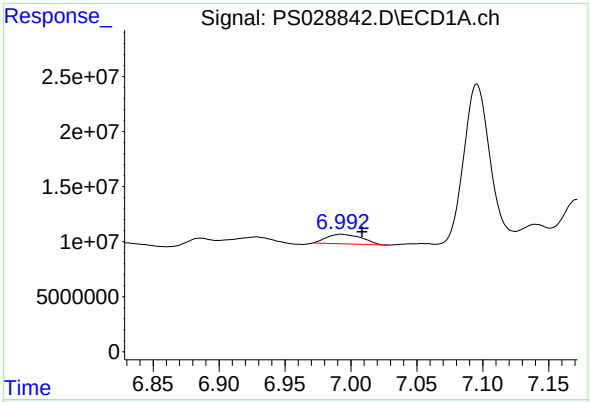
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1757871041
Conc: 533.47 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

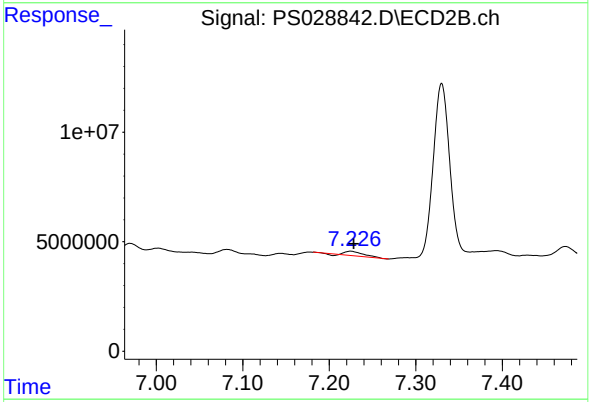
R.T.: 6.656 min
Delta R.T.: -0.004 min
Response: 787729558
Conc: 475.23 ng/ml



#3 4-Nitrophenol

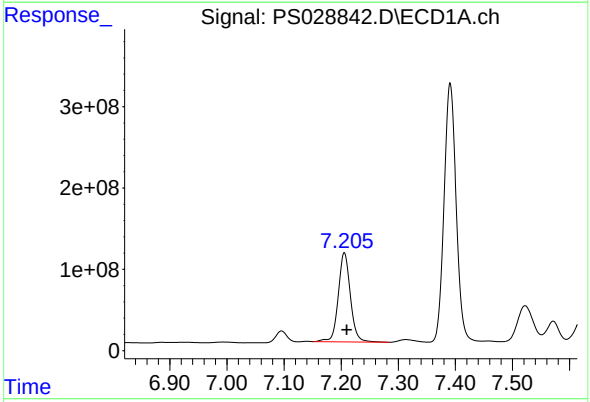
R.T.: 6.993 min
Delta R.T.: -0.016 min
Response: 16028110
Conc: 10.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



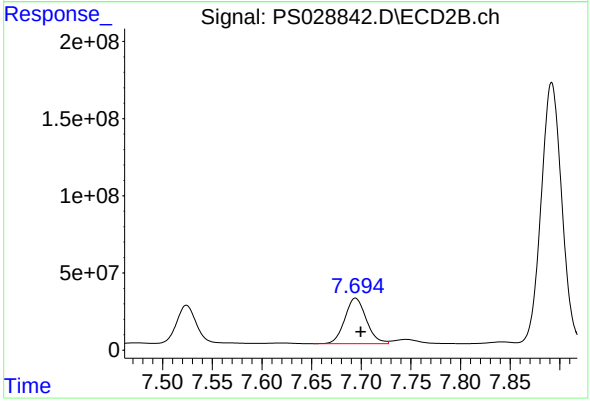
#3 4-Nitrophenol

R.T.: 7.225 min
Delta R.T.: -0.004 min
Response: 2736148
Conc: 3.27 ng/ml



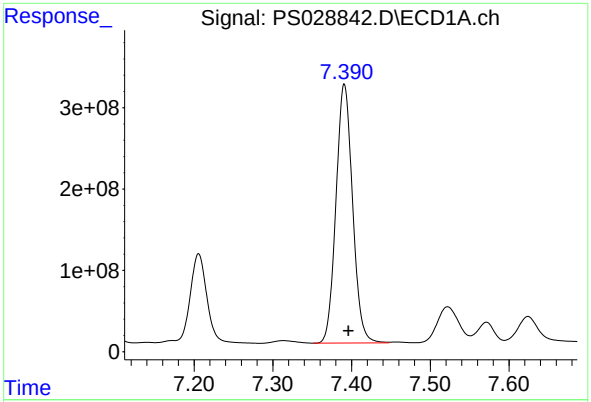
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1619268098
Conc: 715.85 ng/ml



#4 2,4-DCAA

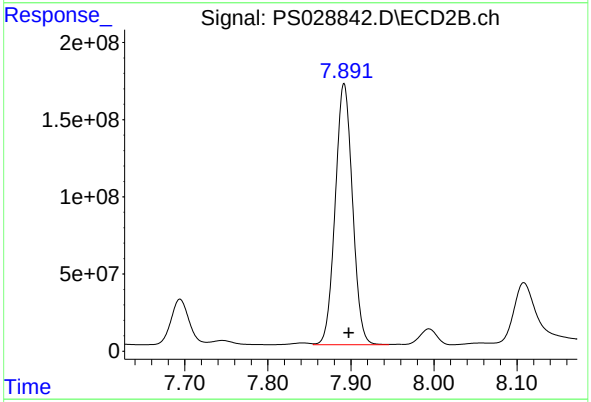
R.T.: 7.694 min
Delta R.T.: -0.005 min
Response: 443751426
Conc: 394.26 ng/ml



#5 DICAMBA

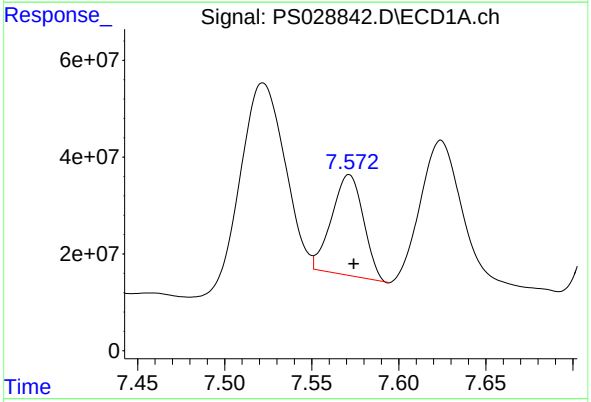
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4667249294
Conc: 473.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



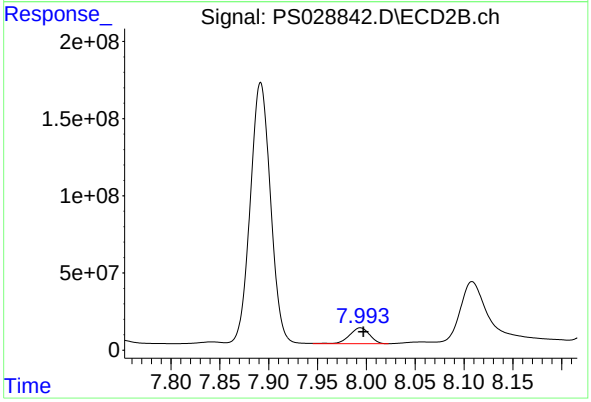
#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.006 min
Response: 2441586467
Conc: 444.74 ng/ml



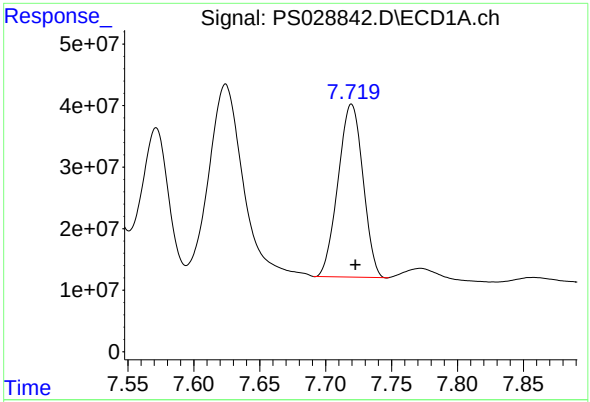
#6 MCPP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 263543280
Conc: 42.32 ug/ml



#6 MCPP

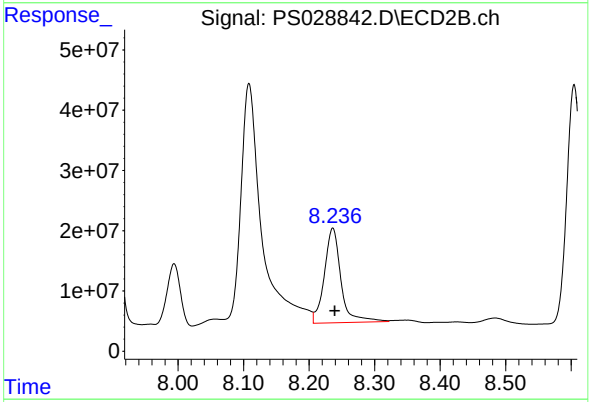
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147766382
Conc: 45.22 ug/ml



#7 MCPA

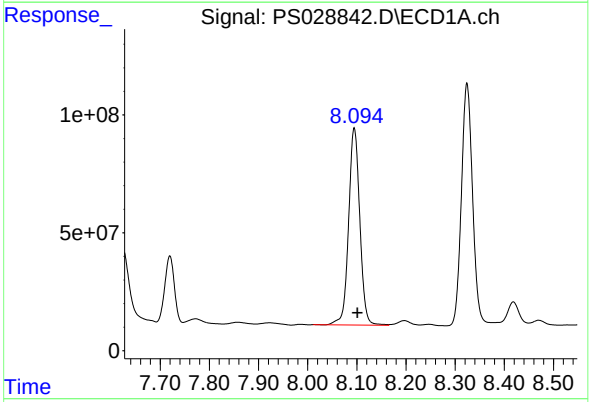
R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369261786
Conc: 42.13 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



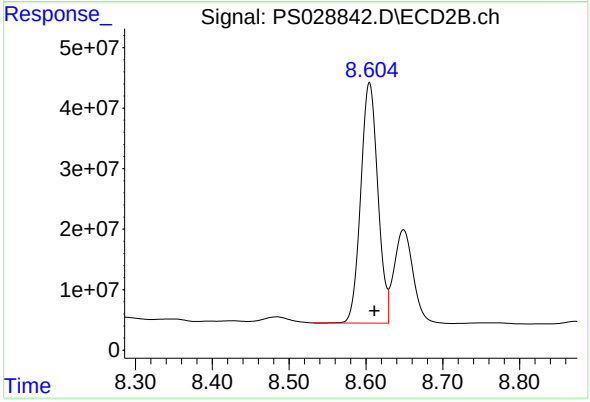
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 276461146
Conc: 59.67 ug/ml



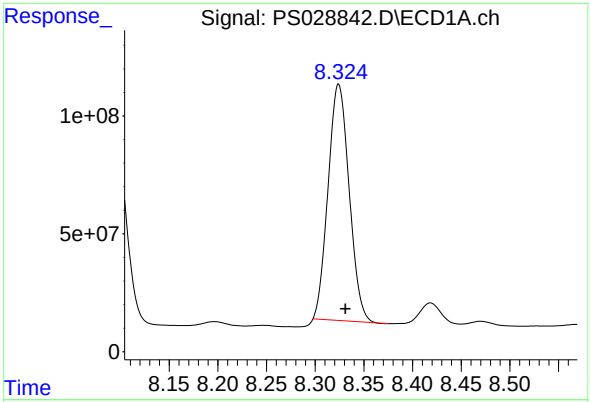
#8 DICHLORPROP

R.T.: 8.095 min
Delta R.T.: -0.006 min
Response: 1320642746
Conc: 497.76 ng/ml



#8 DICHLORPROP

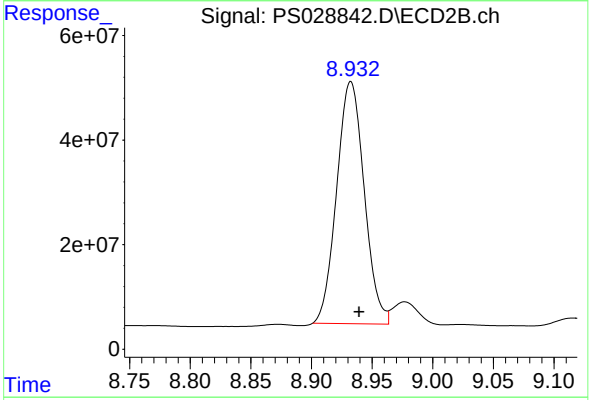
R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 615826659
Conc: 446.36 ng/ml



#9 2,4-D

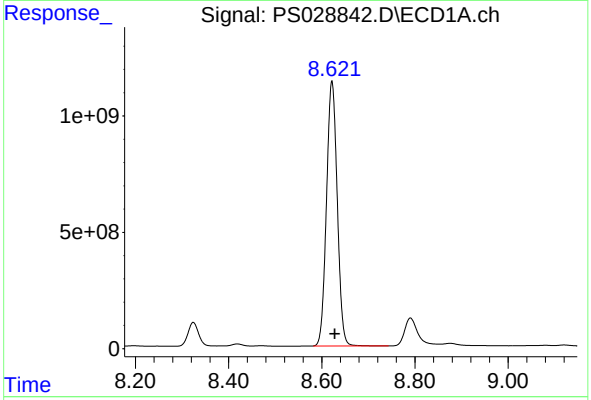
R.T.: 8.324 min
Delta R.T.: -0.007 min
Response: 1510683062
Conc: 530.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



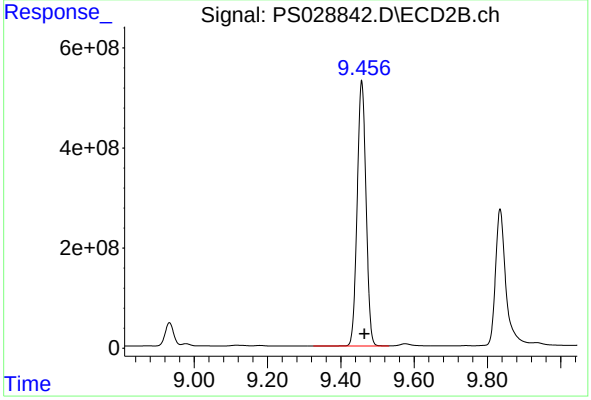
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 732329351
Conc: 507.45 ng/ml



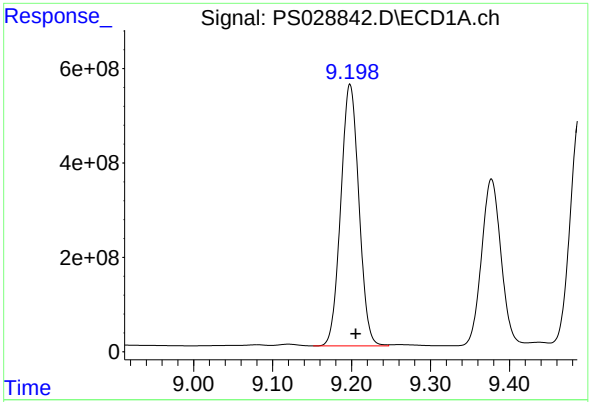
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 18222081326
Conc: 466.43 ng/ml



#10 Pentachlorophenol

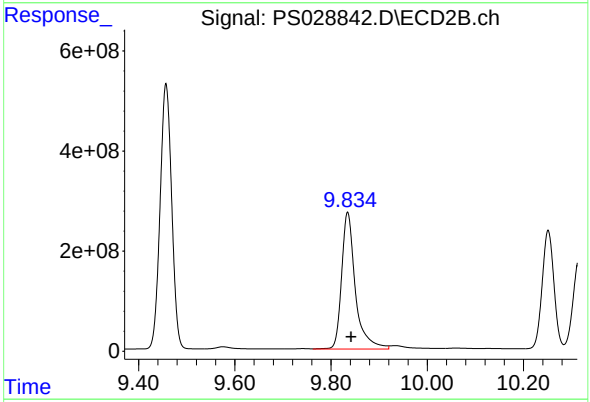
R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 8884255255
Conc: 407.56 ng/ml



#11 2,4,5-TP (SILVEX)

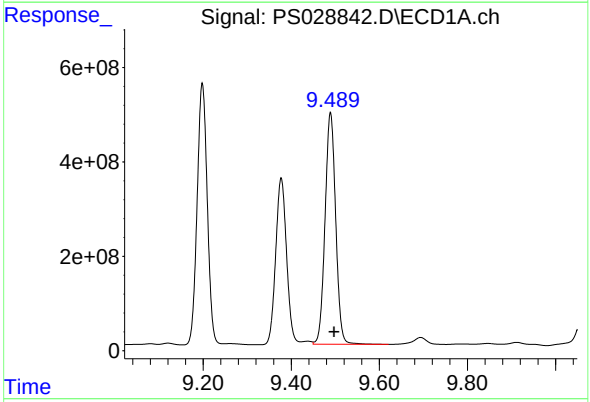
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8847543543
Conc: 563.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



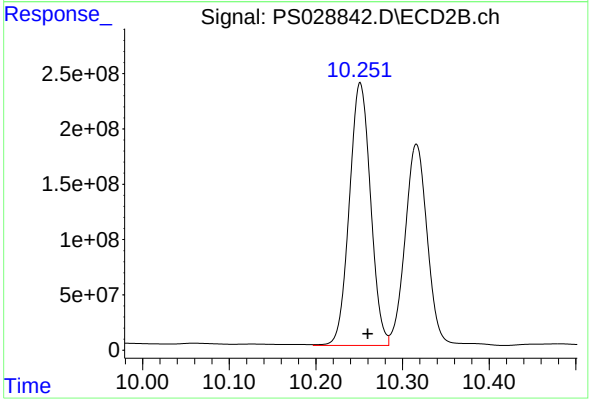
#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 5441119823
Conc: 605.68 ng/ml



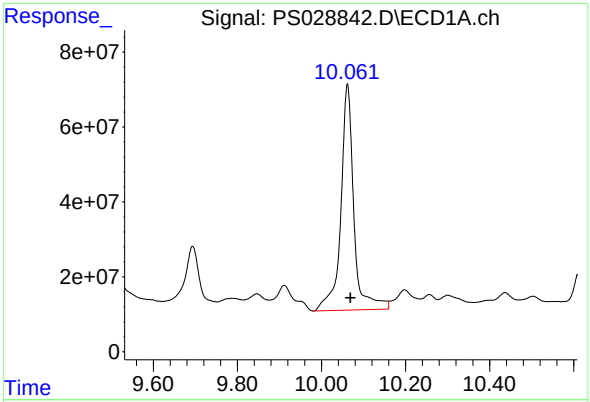
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8214982918
Conc: 504.94 ng/ml



#12 2,4,5-T

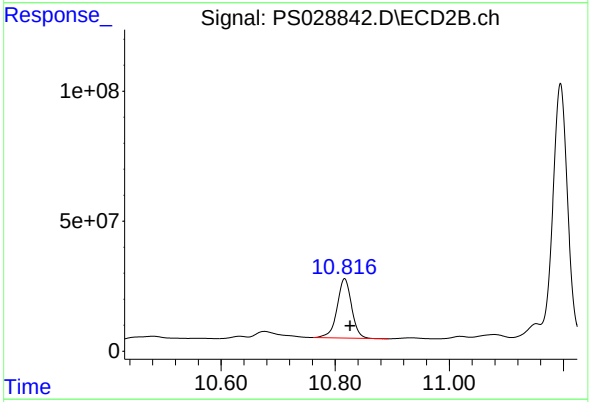
R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4038236865
Conc: 463.68 ng/ml



#13 2,4-DB

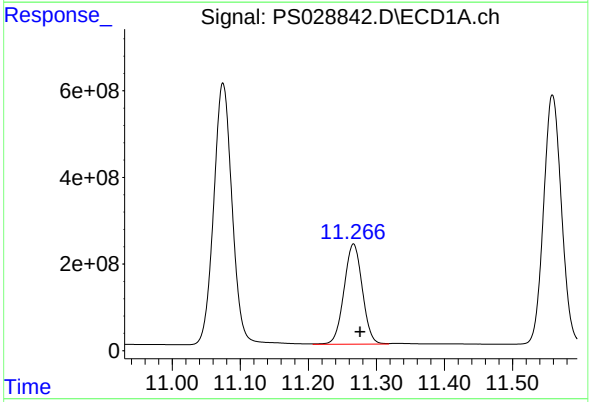
R.T.: 10.062 min
Delta R.T.: -0.007 min
Response: 1300294089
Conc: 416.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



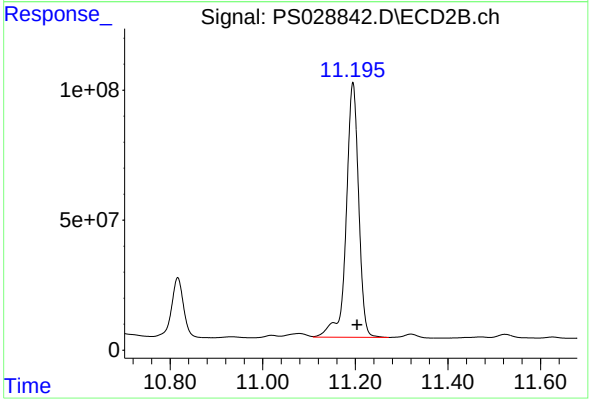
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.009 min
Response: 401187575
Conc: 413.13 ng/ml



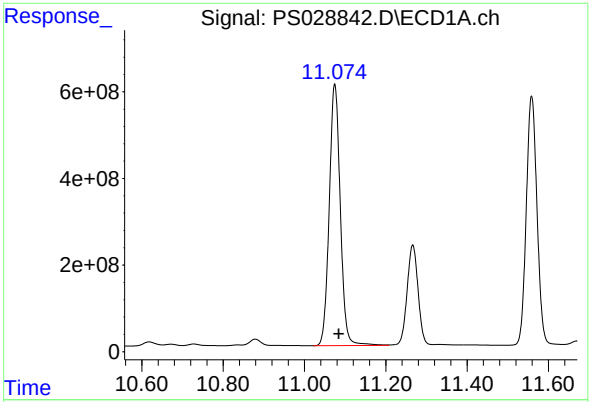
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4317674741
Conc: 321.21 ng/ml



#14 DINOSEB

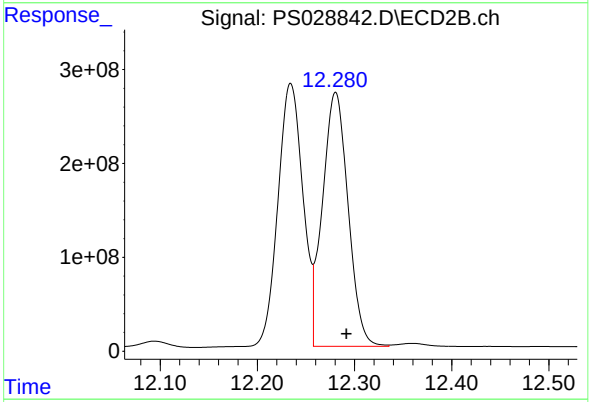
R.T.: 11.195 min
Delta R.T.: -0.009 min
Response: 1828773162
Conc: 296.92 ng/ml



#15 Picloram

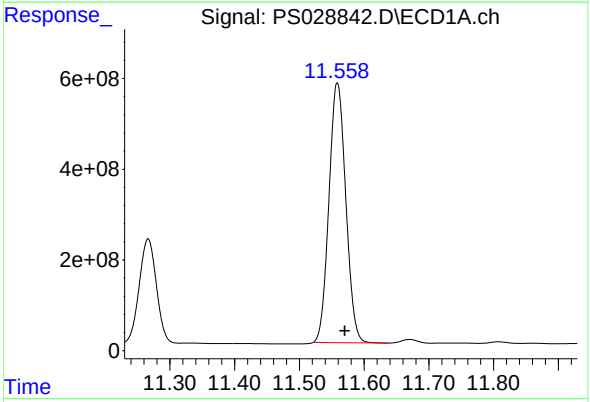
R.T.: 11.075 min
Delta R.T.: -0.010 min
Response: 11399310902
Conc: 425.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MS



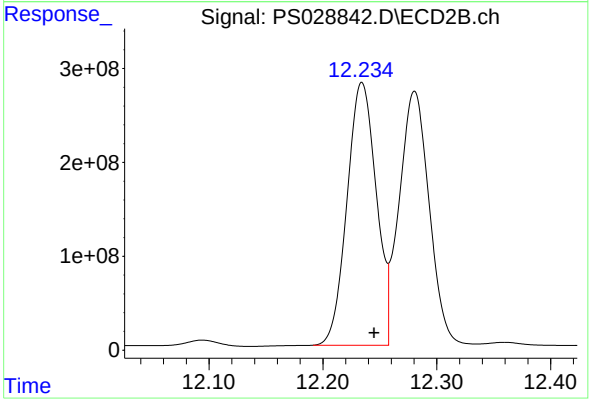
#15 Picloram

R.T.: 12.281 min
Delta R.T.: -0.011 min
Response: 4960040884
Conc: 386.33 ng/ml



#16 DCPA

R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10341882538
Conc: 430.00 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 4998573728
Conc: 465.22 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:08
Operator : AR\AJ
Sample : P5362-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.206	7.695	1618.0E6	443.5E6	715.295	394.029	#
		Target Compounds							
1)	T	Dalapon	2.623	2.678	968.0E6	1395.8E6	343.657	709.006	#
2)	T	3,5-DICHL...	6.381	6.656	1747.6E6	784.4E6	530.351	473.239	
3)	T	4-Nitroph...	7.003	7.226	11452336	2567877	7.624	3.068	#
5)	T	DICAMBA	7.391	7.892	4678.5E6	2439.7E6	474.466	444.401	
6)	T	MCPP	7.571	7.994	269.2E6	147.1E6	43.234	45.008	
7)	T	MCPA	7.720	8.236	369.6E6	271.0E6	42.165	58.489	#
8)	T	DICHLORPROP	8.096	8.605	1307.4E6	618.0E6	492.757	447.973	
9)	T	2,4-D	8.325	8.933	1570.4E6	727.6E6	551.092	504.185	
10)	T	Pentachlo...	8.622	9.457	18250.9E6	8870.3E6	467.169	406.916	
11)	T	2,4,5-TP ...	9.198	9.835	8848.1E6	5610.4E6	563.238	624.527	
12)	T	2,4,5-T	9.489	10.251	8228.2E6	4030.9E6	505.757	462.831	
13)	T	2,4-DB	10.062	10.817	1262.0E6	402.5E6	404.283	414.493	
14)	T	DINOSEB	11.266	11.196	4204.1E6	1752.4E6	312.766	284.517	
15)	T	Picloram	11.075	12.282	11324.3E6	4930.1E6	422.348	383.996	
16)	T	DCPA	11.559	12.236	10301.0E6	4978.2E6	428.296	463.323	

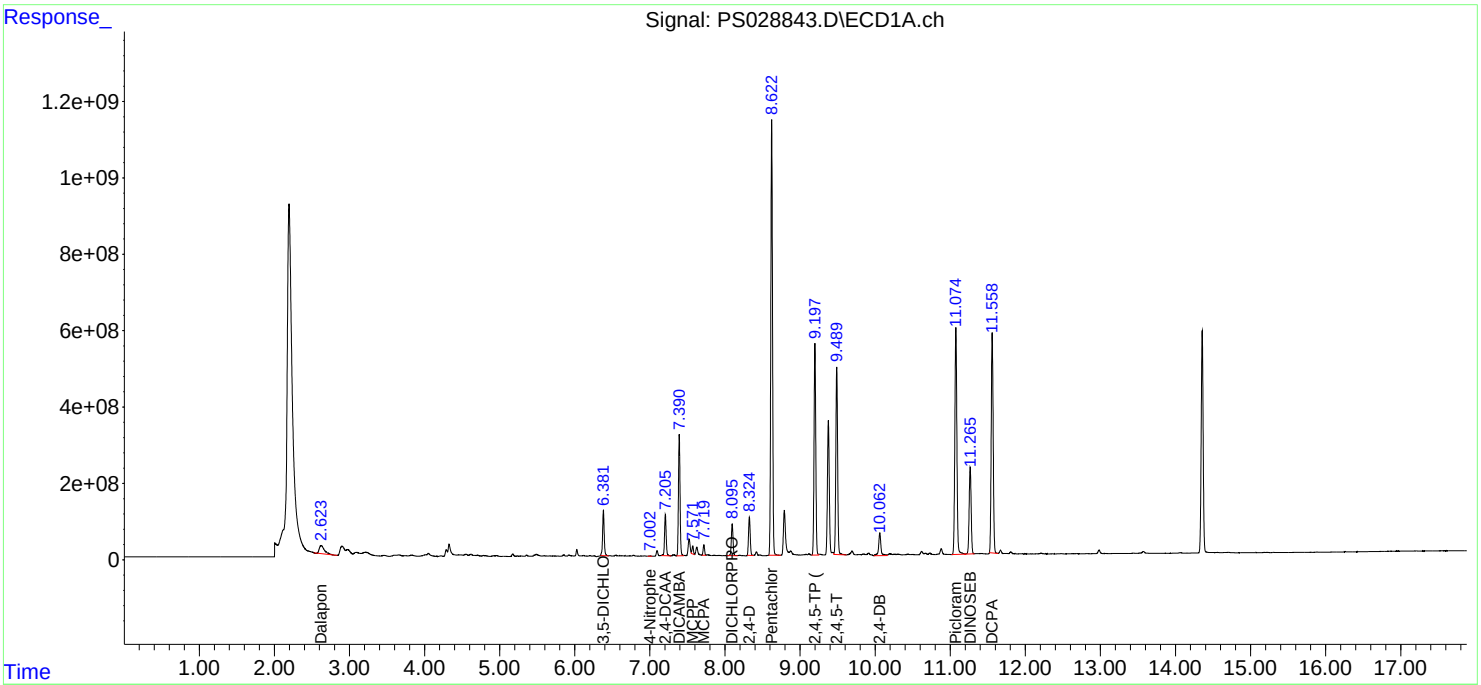
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

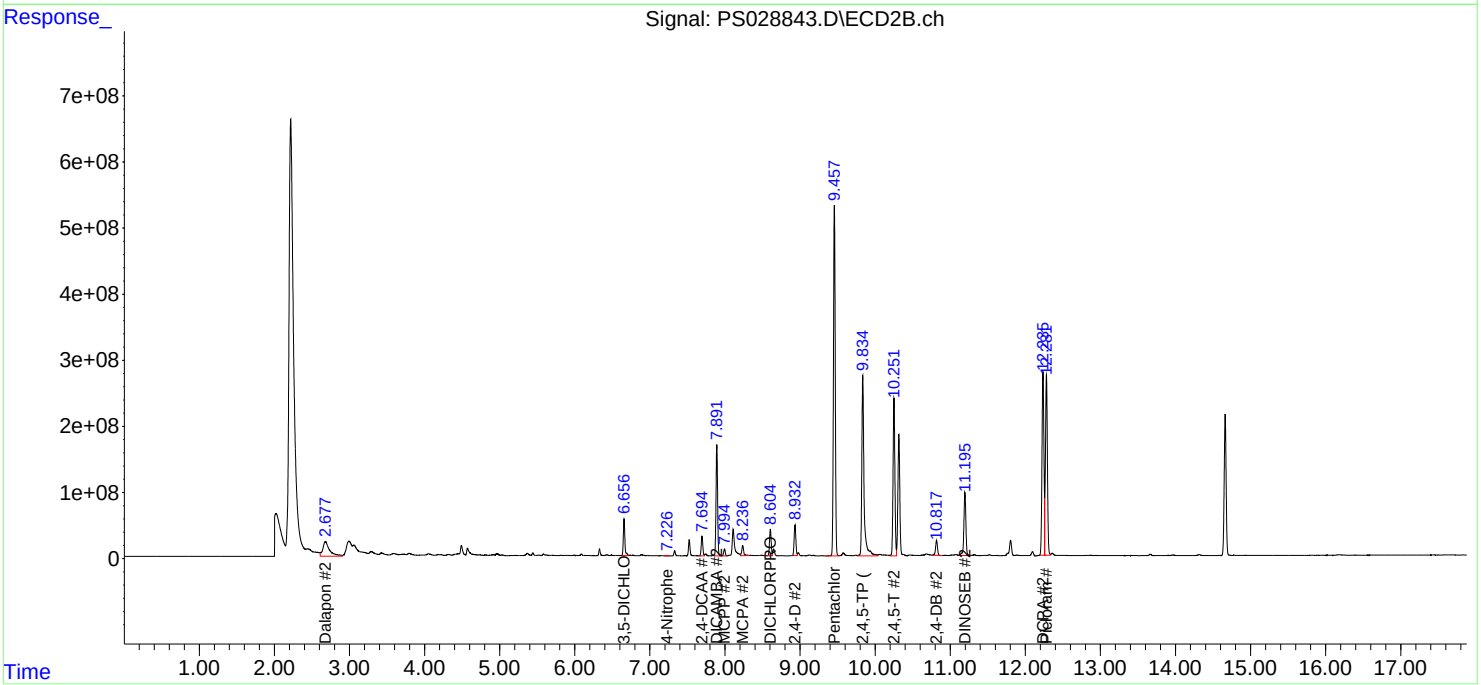
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028843.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:08
Operator : AR\AJ
Sample : P5362-02MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

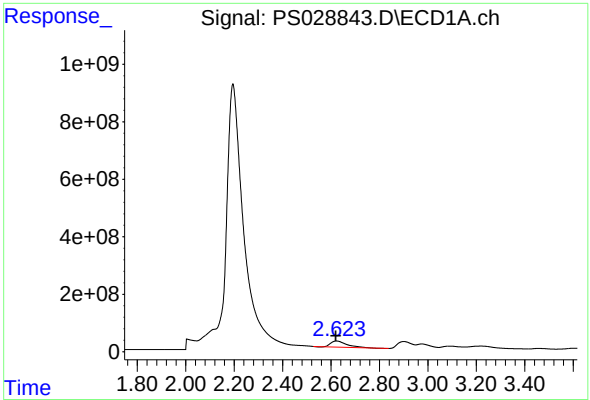
Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:08:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



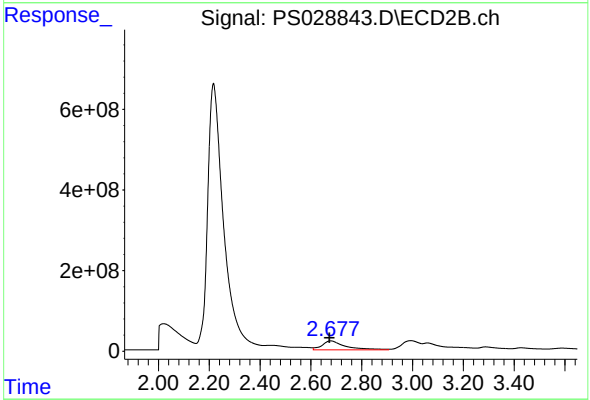




#1 Dalapon

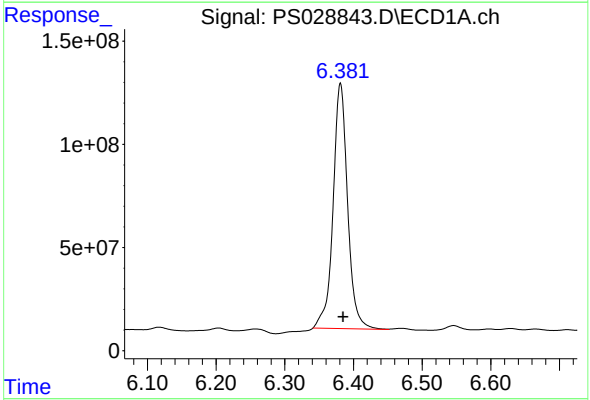
R.T.: 2.623 min
Delta R.T.: 0.003 min
Response: 967962272
Conc: 343.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



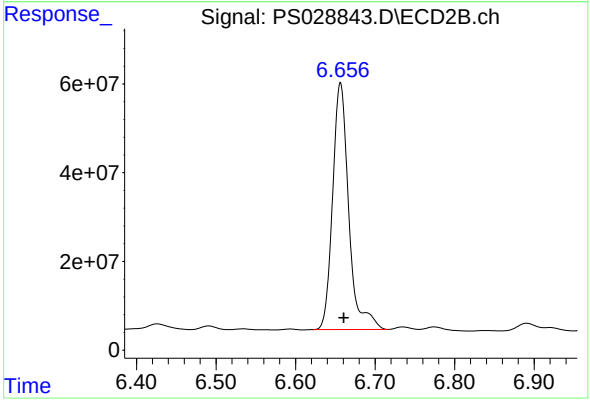
#1 Dalapon

R.T.: 2.678 min
Delta R.T.: 0.005 min
Response: 1395750704
Conc: 709.01 ng/ml



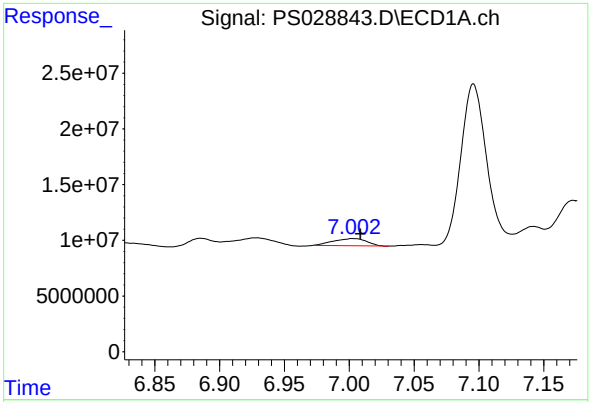
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.381 min
Delta R.T.: -0.004 min
Response: 1747579339
Conc: 530.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

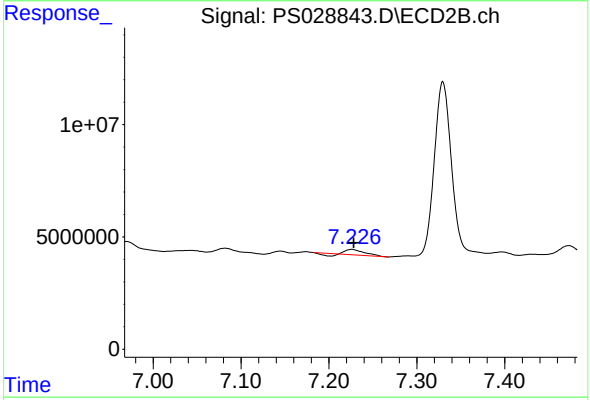
R.T.: 6.656 min
Delta R.T.: -0.004 min
Response: 784427894
Conc: 473.24 ng/ml



#3 4-Nitrophenol

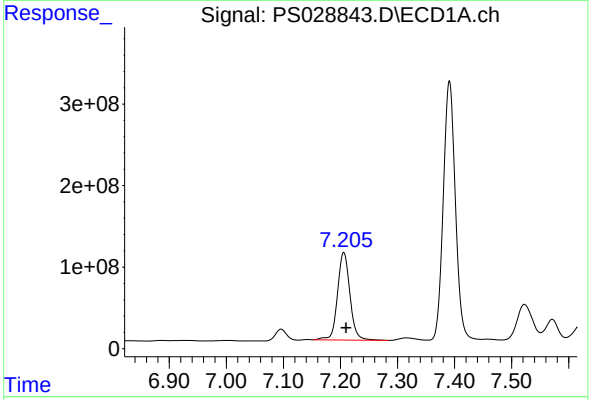
R.T.: 7.003 min
Delta R.T.: -0.005 min
Response: 11452336
Conc: 7.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



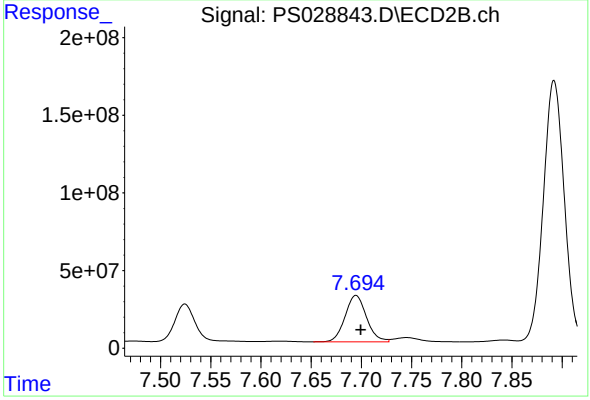
#3 4-Nitrophenol

R.T.: 7.226 min
Delta R.T.: -0.002 min
Response: 2567877
Conc: 3.07 ng/ml



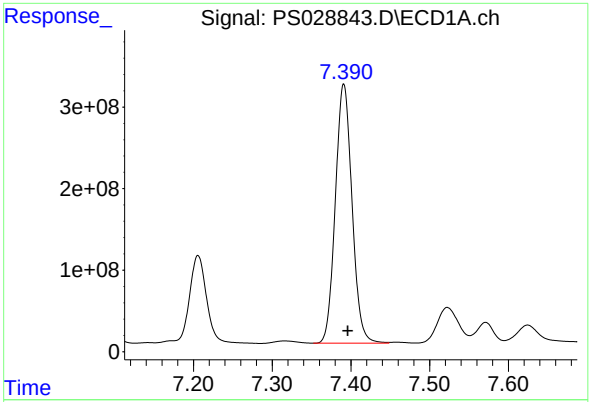
#4 2,4-DCAA

R.T.: 7.206 min
Delta R.T.: -0.004 min
Response: 1618016315
Conc: 715.30 ng/ml



#4 2,4-DCAA

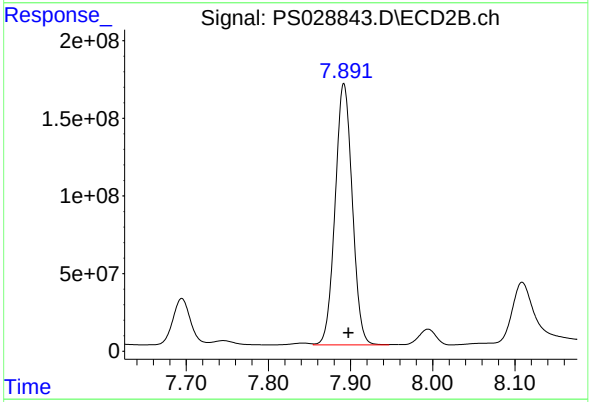
R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 443494340
Conc: 394.03 ng/ml



#5 DICAMBA

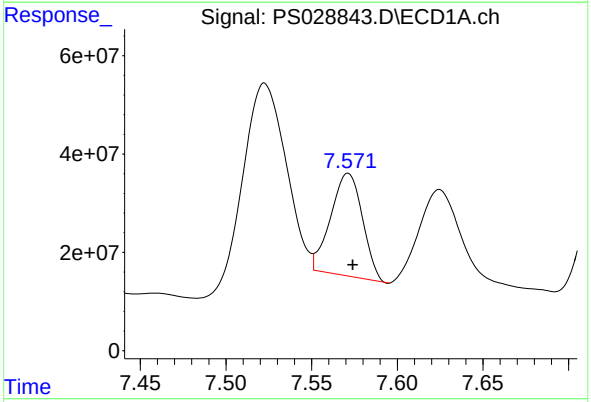
R.T.: 7.391 min
Delta R.T.: -0.005 min
Response: 4678545006
Conc: 474.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



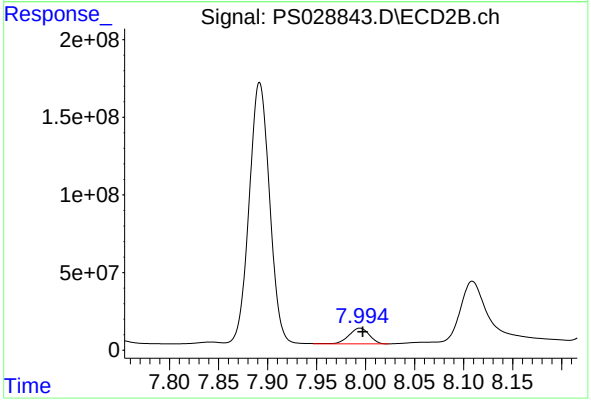
#5 DICAMBA

R.T.: 7.892 min
Delta R.T.: -0.005 min
Response: 2439705757
Conc: 444.40 ng/ml



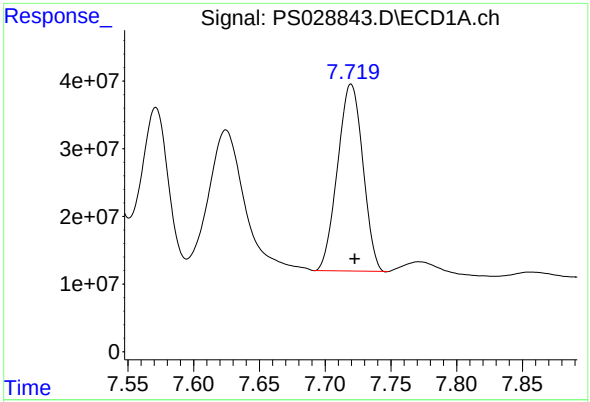
#6 MCPP

R.T.: 7.571 min
Delta R.T.: -0.003 min
Response: 269227926
Conc: 43.23 ug/ml



#6 MCPP

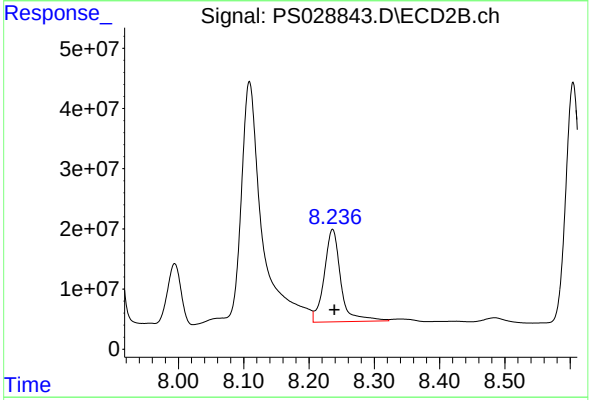
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 147077468
Conc: 45.01 ug/ml



#7 MCPA

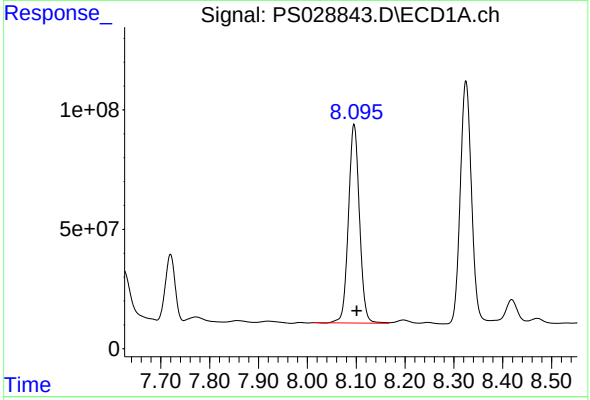
R.T.: 7.720 min
Delta R.T.: -0.003 min
Response: 369594366
Conc: 42.16 ug/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



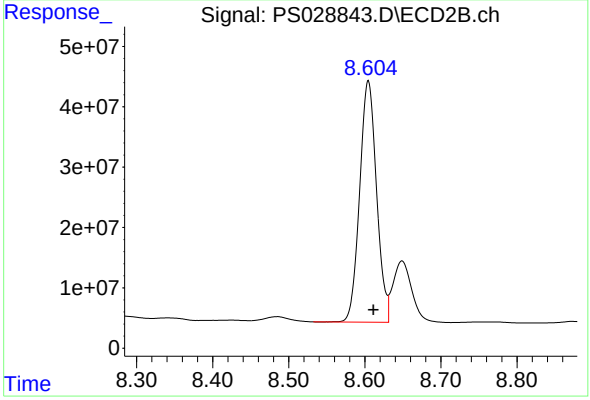
#7 MCPA

R.T.: 8.236 min
Delta R.T.: -0.003 min
Response: 270972002
Conc: 58.49 ug/ml



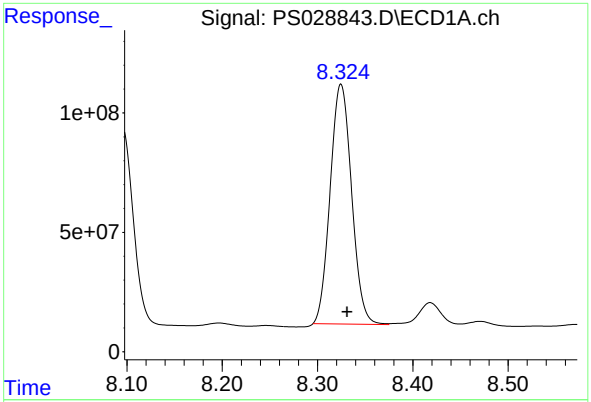
#8 DICHLORPROP

R.T.: 8.096 min
Delta R.T.: -0.005 min
Response: 1307370898
Conc: 492.76 ng/ml



#8 DICHLORPROP

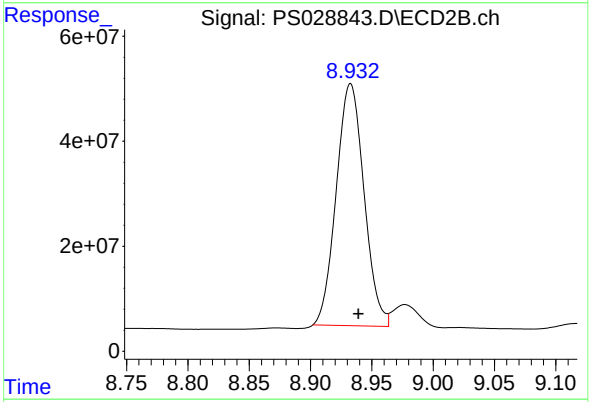
R.T.: 8.605 min
Delta R.T.: -0.007 min
Response: 618049190
Conc: 447.97 ng/ml



#9 2,4-D

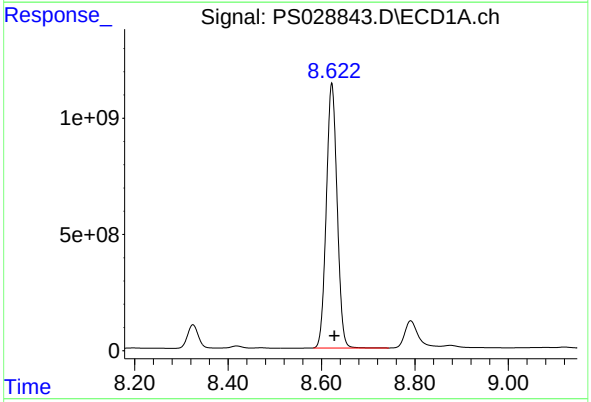
R.T.: 8.325 min
Delta R.T.: -0.006 min
Response: 1570356314
Conc: 551.09 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



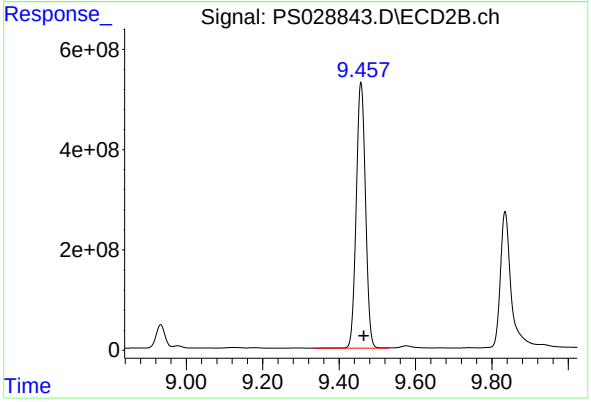
#9 2,4-D

R.T.: 8.933 min
Delta R.T.: -0.007 min
Response: 727612516
Conc: 504.19 ng/ml



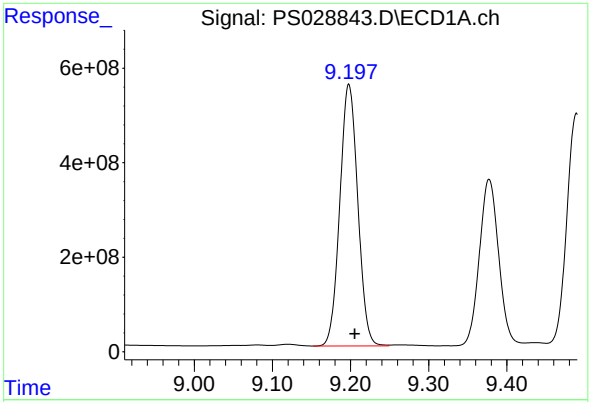
#10 Pentachlorophenol

R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 18250873340
Conc: 467.17 ng/ml



#10 Pentachlorophenol

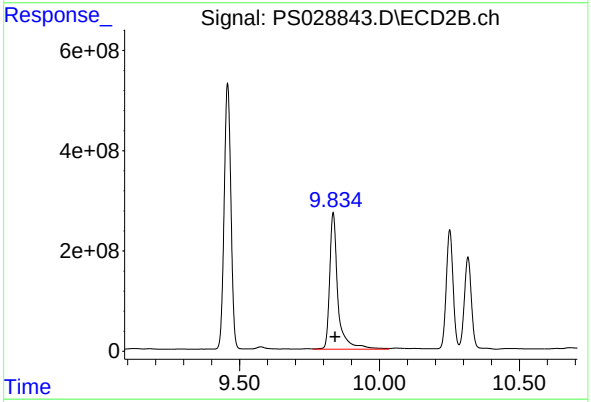
R.T.: 9.457 min
Delta R.T.: -0.007 min
Response: 8870253743
Conc: 406.92 ng/ml



#11 2,4,5-TP (SILVEX)

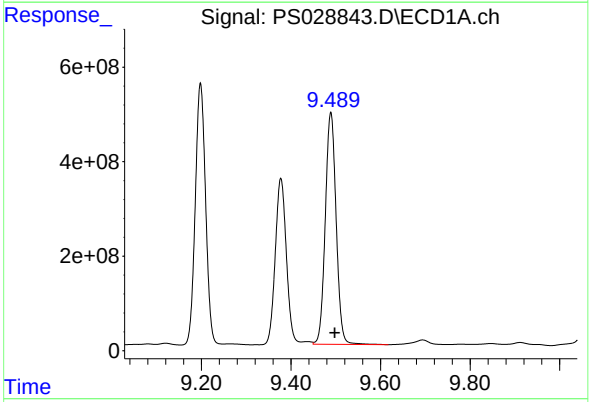
R.T.: 9.198 min
Delta R.T.: -0.007 min
Response: 8848090918
Conc: 563.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



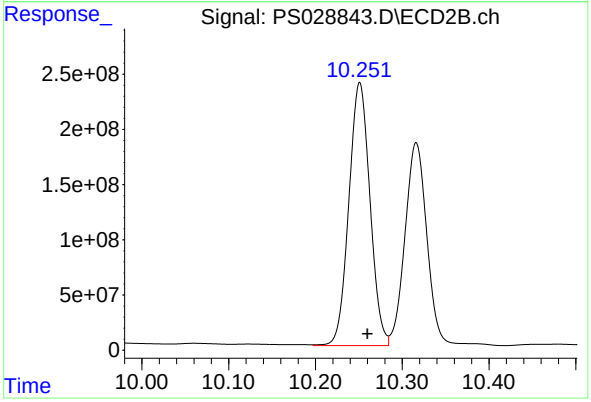
#11 2,4,5-TP (SILVEX)

R.T.: 9.835 min
Delta R.T.: -0.007 min
Response: 5610449350
Conc: 624.53 ng/ml



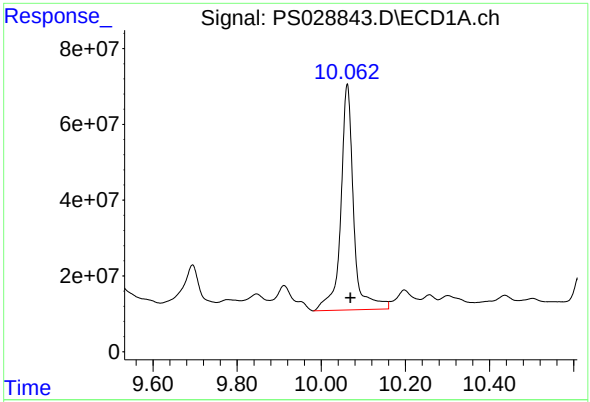
#12 2,4,5-T

R.T.: 9.489 min
Delta R.T.: -0.009 min
Response: 8228249405
Conc: 505.76 ng/ml



#12 2,4,5-T

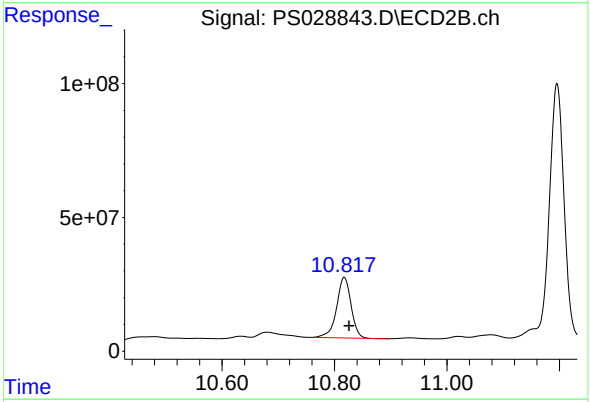
R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 4030876922
Conc: 462.83 ng/ml



#13 2,4-DB

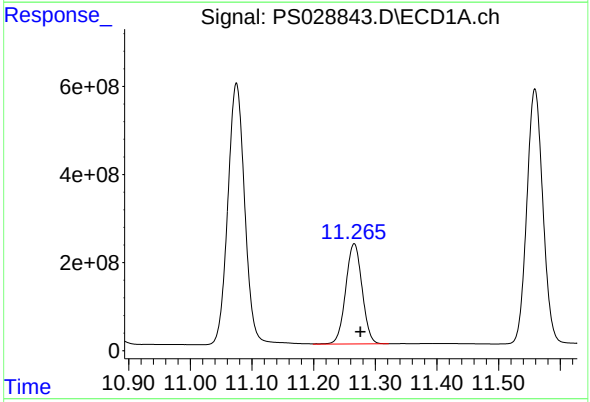
R.T.: 10.062 min
Delta R.T.: -0.008 min
Response: 1262008879
Conc: 404.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



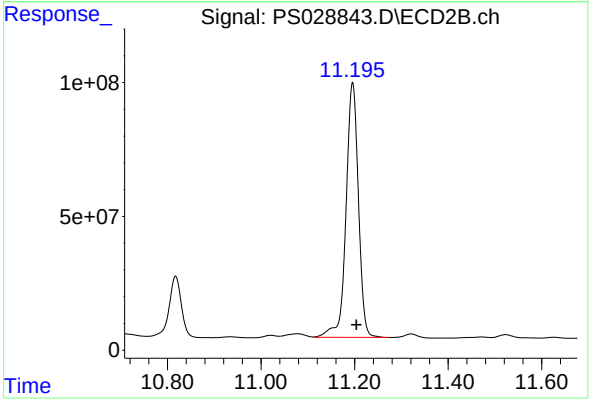
#13 2,4-DB

R.T.: 10.817 min
Delta R.T.: -0.008 min
Response: 402513143
Conc: 414.49 ng/ml



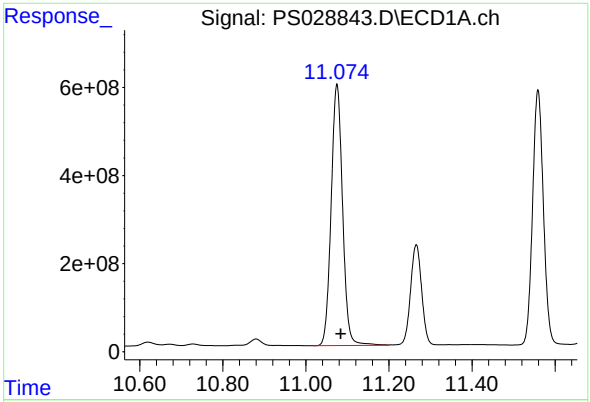
#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: -0.010 min
Response: 4204110694
Conc: 312.77 ng/ml



#14 DINOSEB

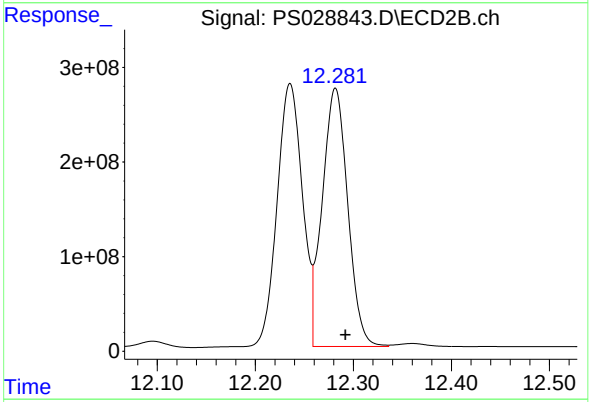
R.T.: 11.196 min
Delta R.T.: -0.008 min
Response: 1752379653
Conc: 284.52 ng/ml



#15 Picloram

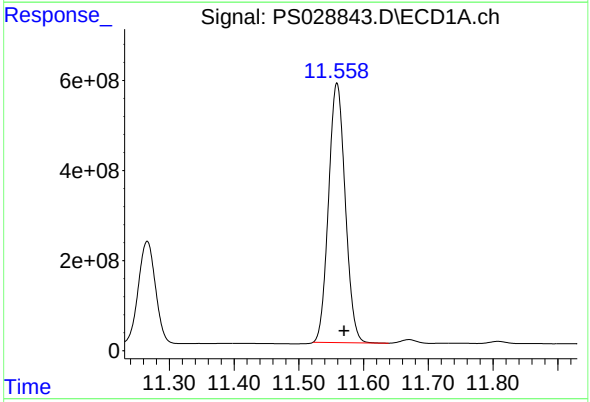
R.T.: 11.075 min
Delta R.T.: -0.009 min
Response: 11324329281
Conc: 422.35 ng/ml

Instrument :
ECD_S
ClientSampleId :
WC-SOIL-20241219MSD



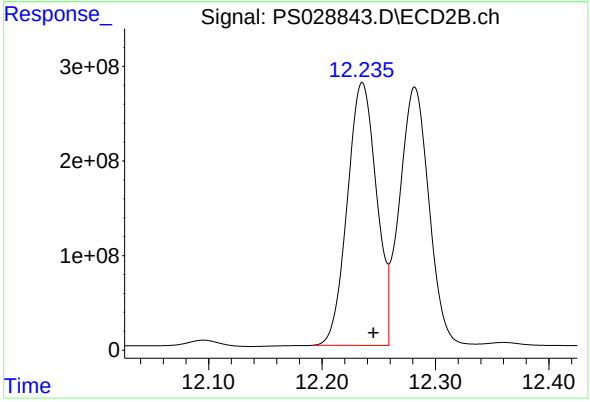
#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 4930130386
Conc: 384.00 ng/ml



#16 DCPA

R.T.: 11.559 min
Delta R.T.: -0.011 min
Response: 10300970584
Conc: 428.30 ng/ml



#16 DCPA

R.T.: 12.236 min
Delta R.T.: -0.010 min
Response: 4978207339
Conc: 463.32 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:32
Operator : AR\AJ
Sample : P5380-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.205	7.694	1801.3E6	469.8E6	796.334	417.418	#
		Target Compounds							
1)	T	Dalapon	2.573f	2.684	7891721	413.5E6	2.802	210.028	#
2)	T	3,5-DICHL...	6.356f	6.690f	77219111	80885769	23.434	48.798	#
3)	T	4-Nitroph...	6.993	7.227	5802000	2200751	3.863	2.630	#
6)	T	MCPP	0.000	7.985	0	7862362	N.D.	2.406	
7)	T	MCPA	7.722	8.241	3969589	43314697	<MDL	9.349	#
8)	T	DICHLORPROP	8.110	8.648f	31247722	145.4E6	11.777	105.396	#
9)	T	2,4-D	0.000	8.981f	0	6024903	N.D.	4.175	
10)	T	Pentachlo...	8.622	9.456	228.9E6	114.9E6	5.859	5.269	
11)	T	2,4,5-TP ...	9.195	9.871f	3136901	40382653	<MDL	4.495	#
12)	T	2,4,5-T	9.496	10.225f	14565133	44670547	<MDL	5.129	#
13)	T	2,4-DB	10.038f	10.844	299.7E6	-626412	96.016	N.D.	#
14)	T	DINOSEB	11.288	0.000	2279527	0	<MDL	N.D.	#
15)	T	Picloram	11.075	12.283	73989510	11235335	2.759	<MDL	#

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

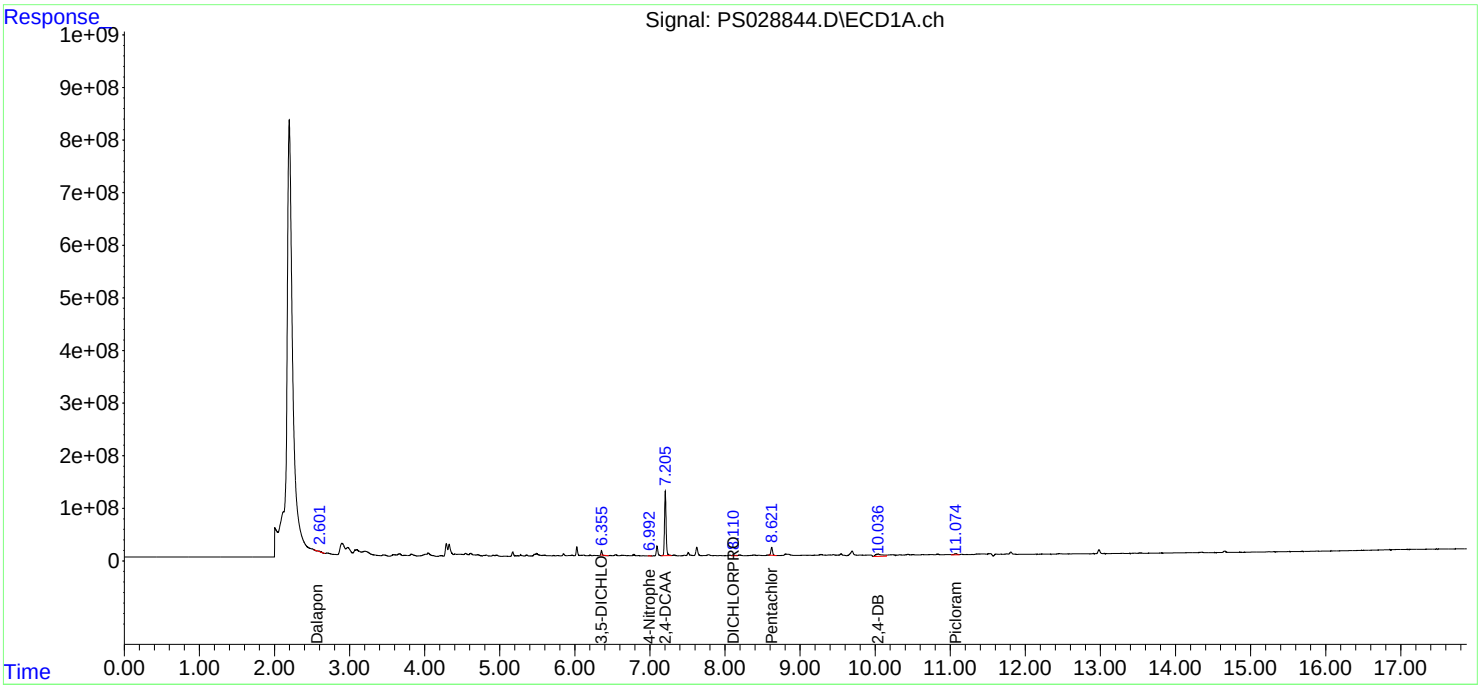
Quantitation Report (Not Reviewed)

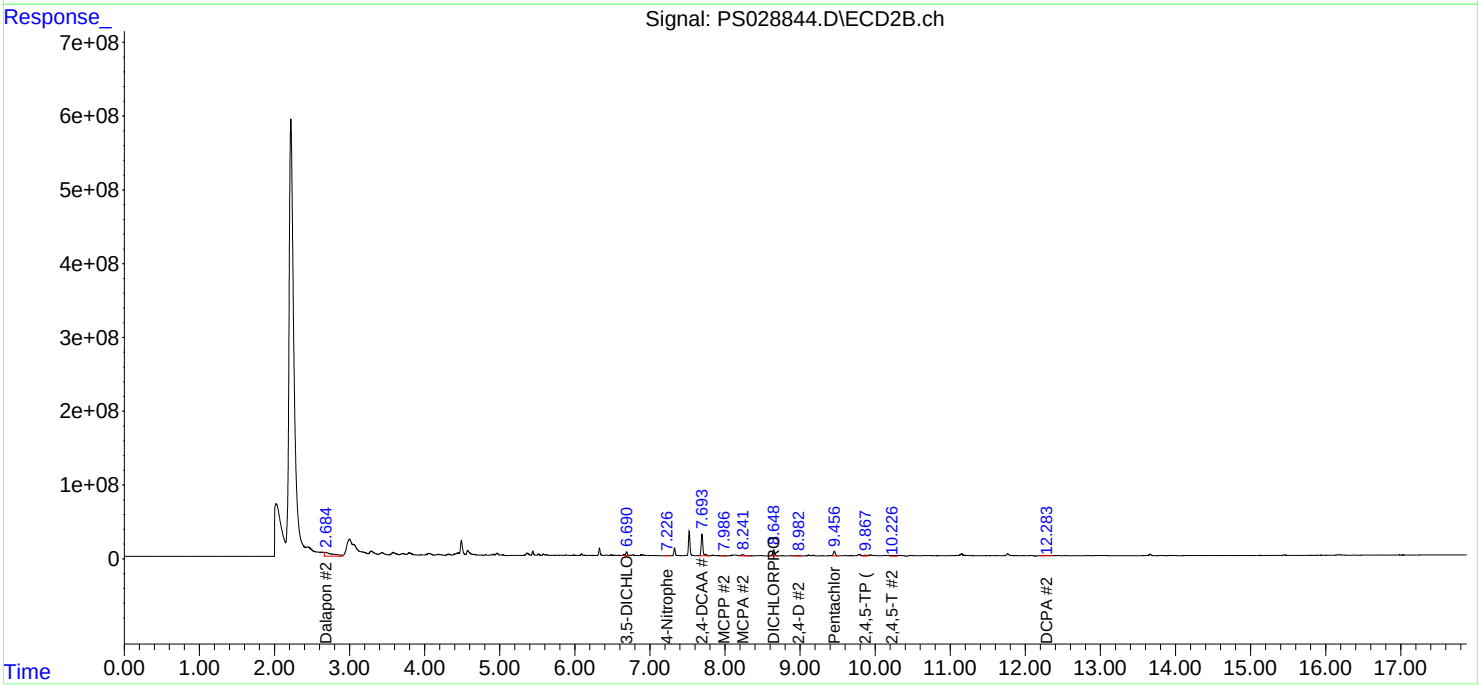
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS122724\
Data File : PS028844.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Dec 2024 23:32
Operator : AR\AJ
Sample : P5380-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

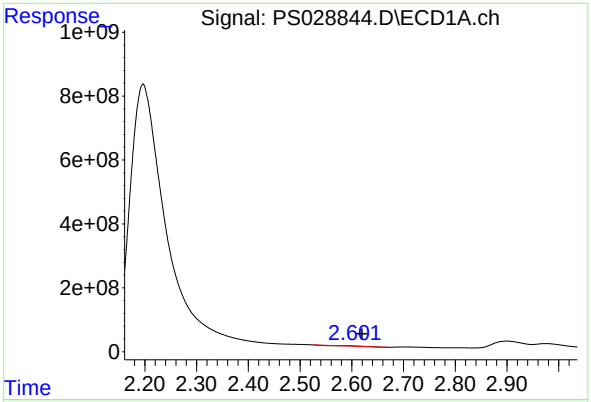
Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 02:09:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



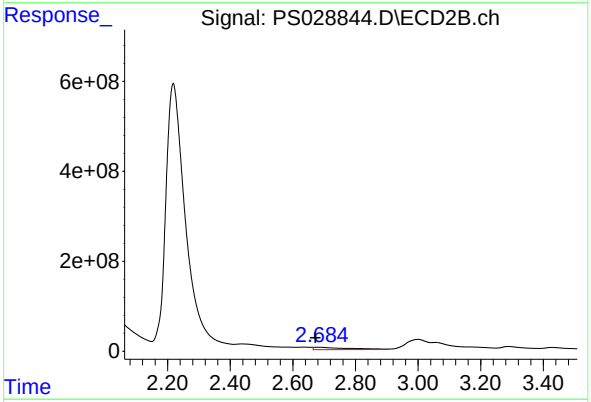




#1 Dalapon

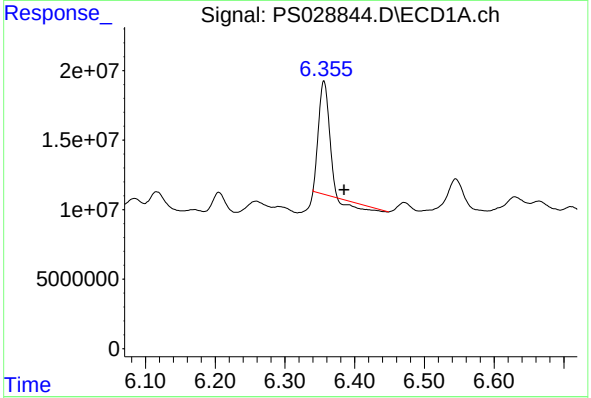
R.T.: 2.573 min
Delta R.T.: -0.047 min
Response: 7891721
Conc: 2.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



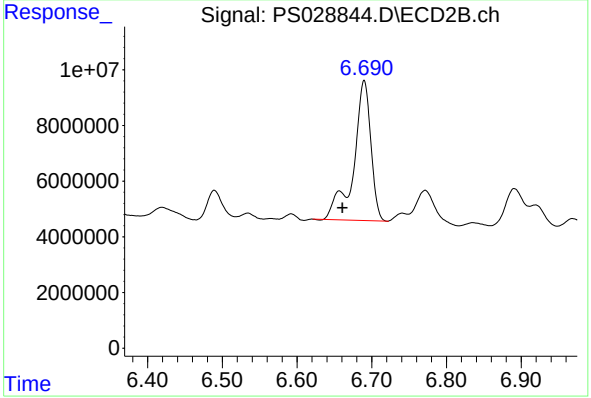
#1 Dalapon

R.T.: 2.684 min
Delta R.T.: 0.011 min
Response: 413462033
Conc: 210.03 ng/ml



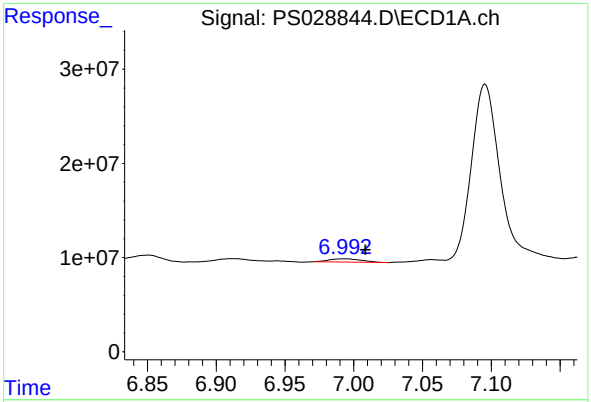
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.356 min
Delta R.T.: -0.029 min
Response: 77219111
Conc: 23.43 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

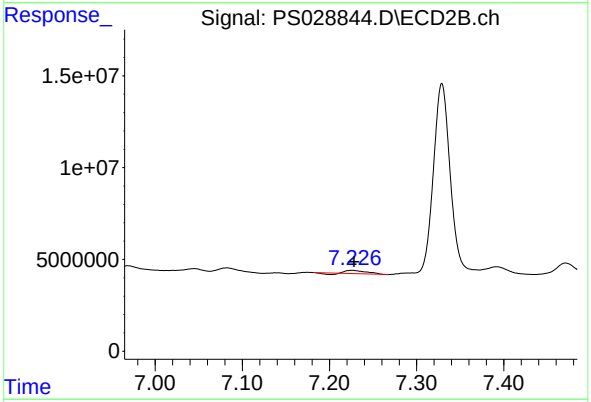
R.T.: 6.690 min
Delta R.T.: 0.029 min
Response: 80885769
Conc: 48.80 ng/ml



#3 4-Nitrophenol

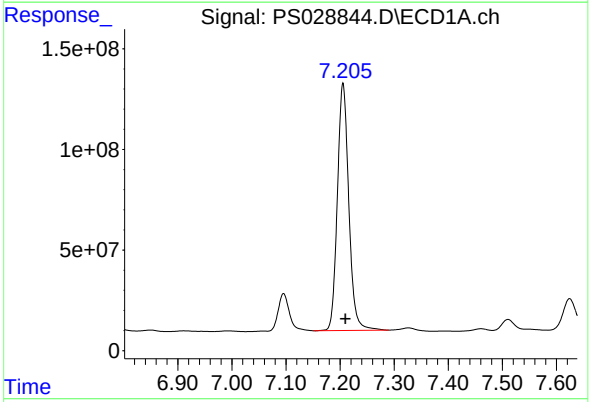
R.T.: 6.993 min
Delta R.T.: -0.016 min
Response: 5802000
Conc: 3.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



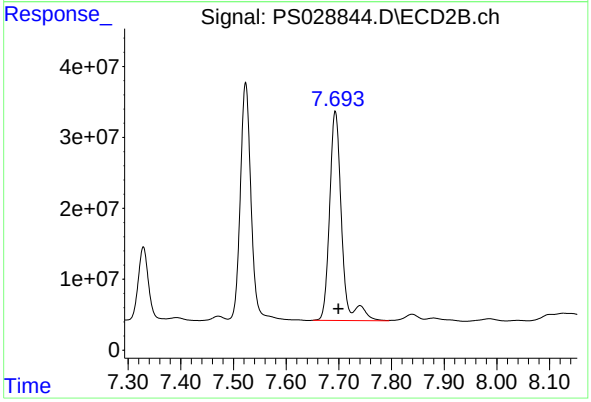
#3 4-Nitrophenol

R.T.: 7.227 min
Delta R.T.: -0.001 min
Response: 2200751
Conc: 2.63 ng/ml



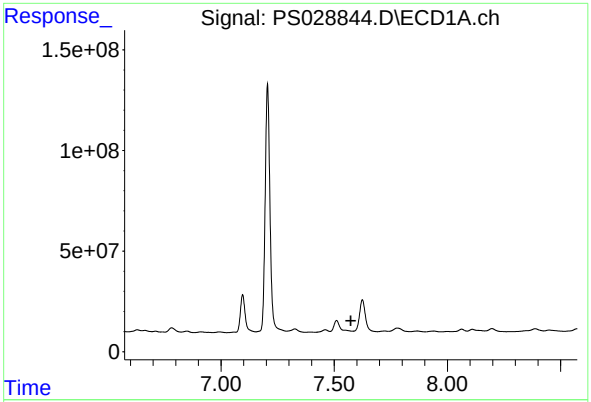
#4 2,4-DCAA

R.T.: 7.205 min
Delta R.T.: -0.004 min
Response: 1801327266
Conc: 796.33 ng/ml



#4 2,4-DCAA

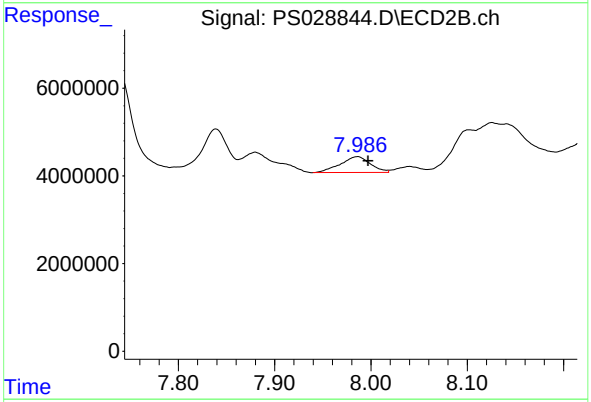
R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 469819882
Conc: 417.42 ng/ml



#6 MCPP

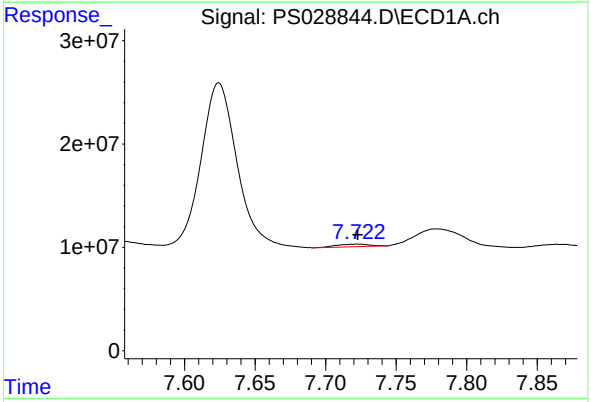
R.T.: 0.000 min
Exp R.T. : 7.574 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



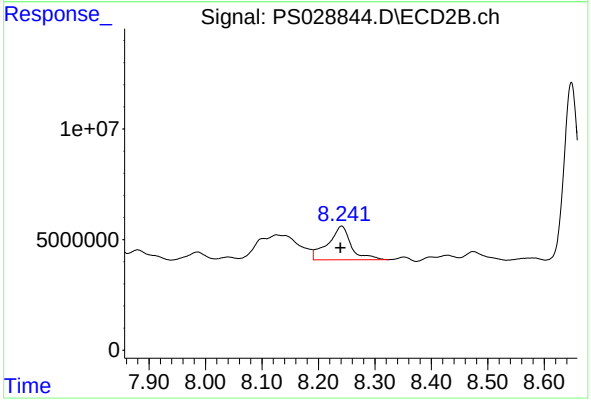
#6 MCPP

R.T.: 7.985 min
Delta R.T.: -0.012 min
Response: 7862362
Conc: 2.41 ug/ml



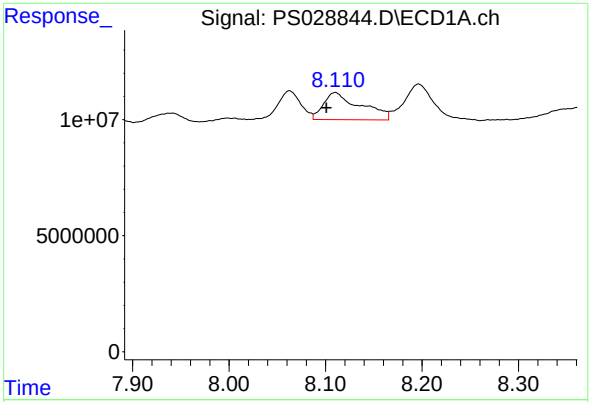
#7 MCPA

R.T.: 7.722 min
Delta R.T.: 0.000 min
Response: 3969589
Conc: N.D.



#7 MCPA

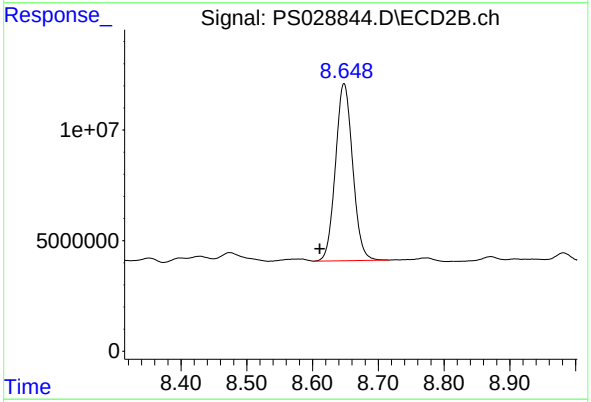
R.T.: 8.241 min
Delta R.T.: 0.001 min
Response: 43314697
Conc: 9.35 ug/ml



#8 DICHLORPROP

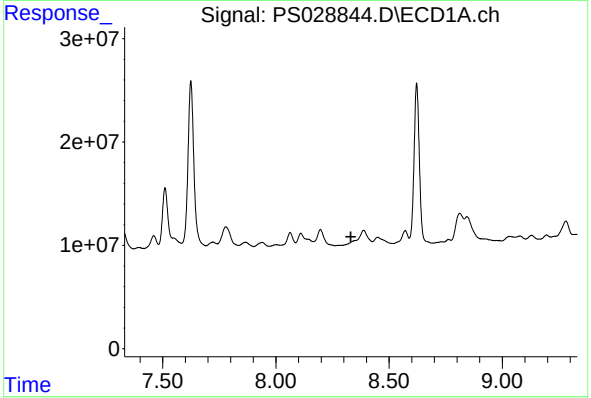
R.T.: 8.110 min
Delta R.T.: 0.009 min
Response: 31247722
Conc: 11.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



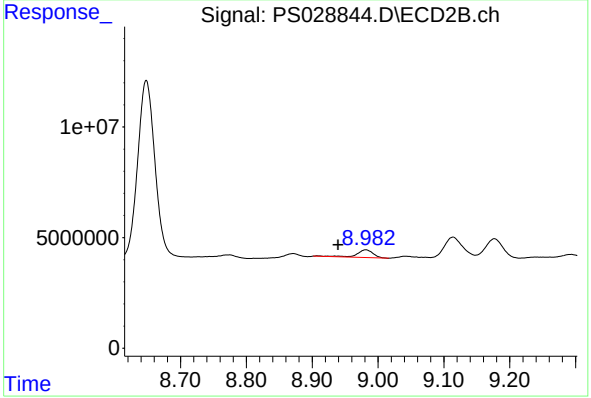
#8 DICHLORPROP

R.T.: 8.648 min
Delta R.T.: 0.037 min
Response: 145410698
Conc: 105.40 ng/ml



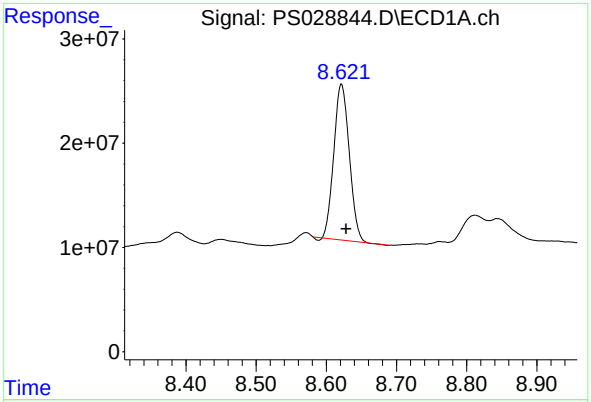
#9 2,4-D

R.T.: 0.000 min
Exp R.T. : 8.331 min
Response: 0
Conc: N.D.



#9 2,4-D

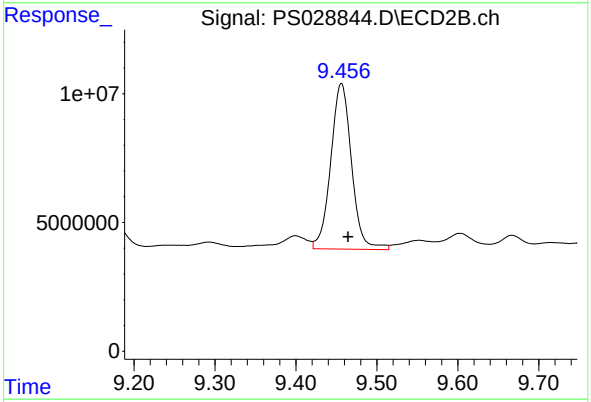
R.T.: 8.981 min
Delta R.T.: 0.042 min
Response: 6024903
Conc: 4.17 ng/ml



#10 Pentachlorophenol

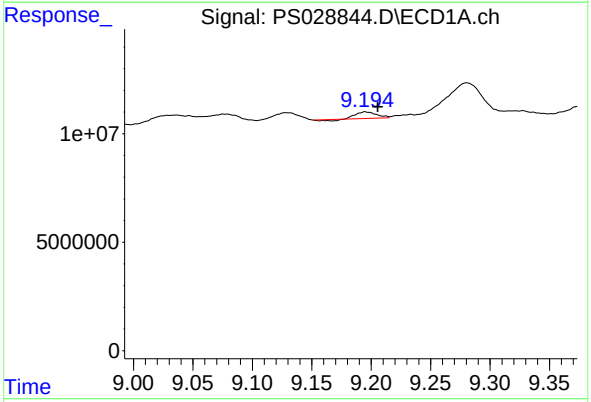
R.T.: 8.622 min
Delta R.T.: -0.006 min
Response: 228902457
Conc: 5.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



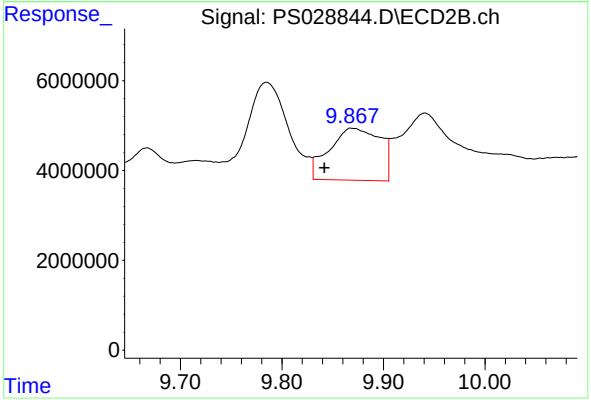
#10 Pentachlorophenol

R.T.: 9.456 min
Delta R.T.: -0.008 min
Response: 114866135
Conc: 5.27 ng/ml



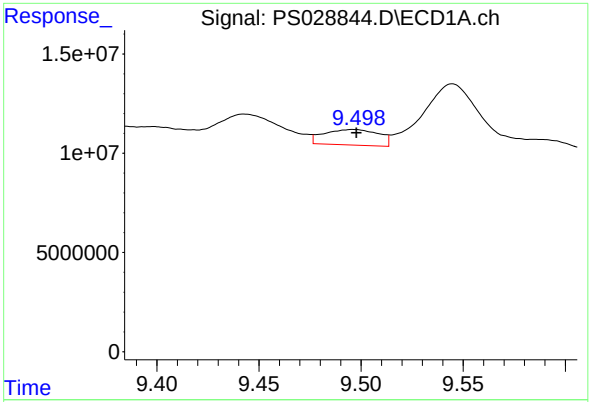
#11 2,4,5-TP (SILVEX)

R.T.: 9.195 min
Delta R.T.: -0.010 min
Response: 3136901
Conc: N.D.



#11 2,4,5-TP (SILVEX)

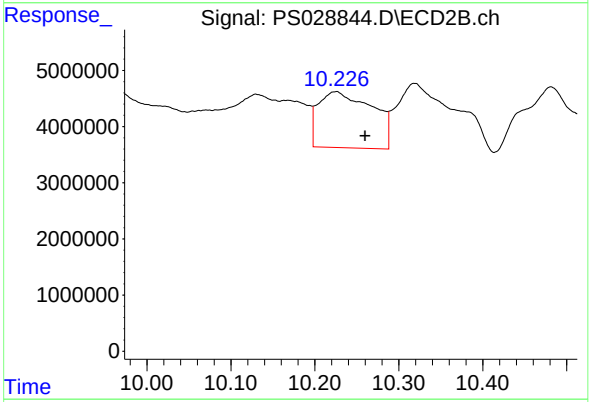
R.T.: 9.871 min
Delta R.T.: 0.030 min
Response: 40382653
Conc: 4.50 ng/ml



#12 2,4,5-T

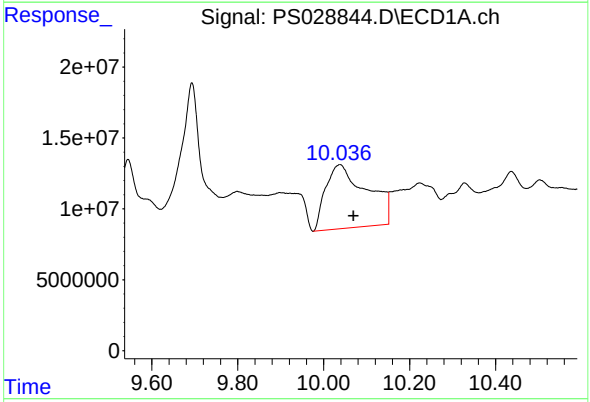
R.T.: 9.496 min
Delta R.T.: -0.002 min
Response: 14565133
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



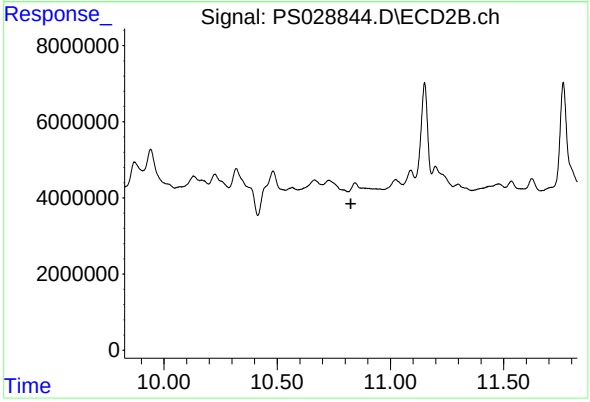
#12 2,4,5-T

R.T.: 10.225 min
Delta R.T.: -0.035 min
Response: 44670547
Conc: 5.13 ng/ml



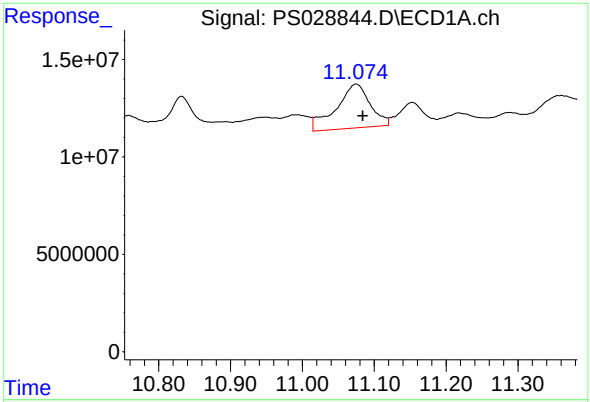
#13 2,4-DB

R.T.: 10.038 min
Delta R.T.: -0.032 min
Response: 299724063
Conc: 96.02 ng/ml



#13 2,4-DB

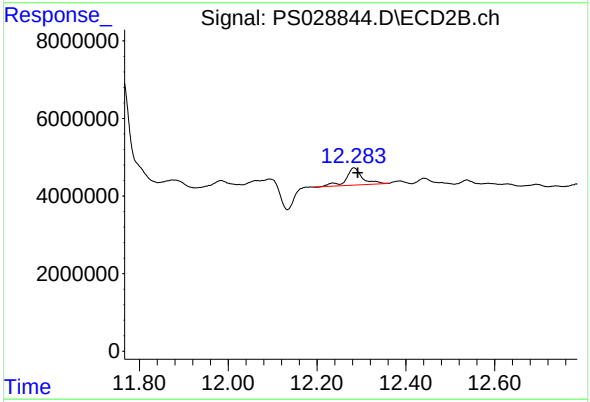
R.T.: 10.844 min
Delta R.T.: 0.018 min
Response: -626412
Conc: N.D.



#15 Picloram

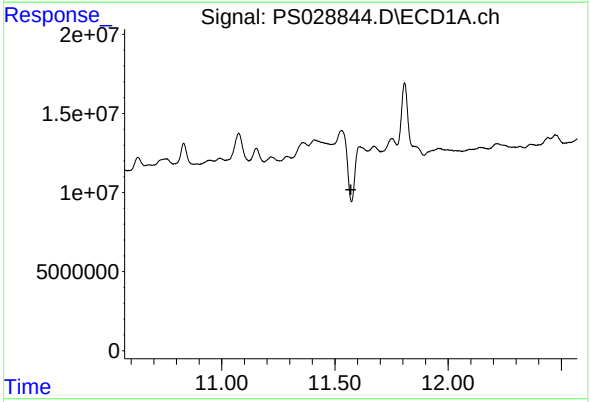
R.T.: 11.075 min
Delta R.T.: -0.009 min
Response: 73989510
Conc: 2.76 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1



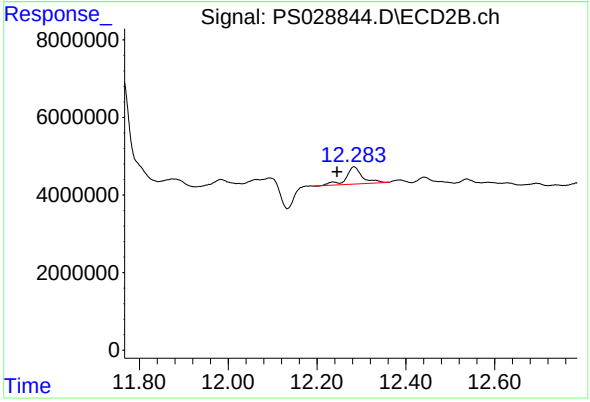
#15 Picloram

R.T.: 12.283 min
Delta R.T.: -0.008 min
Response: 11235335
Conc: N.D.



#16 DCPA

R.T.: 11.610 min
Delta R.T.: 0.040 min
Response: -76249589
Conc: N.D.



#16 DCPA

R.T.: 12.283 min
Delta R.T.: 0.038 min
Response: 11235335
Conc: 1.05 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028850.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:50
Operator : AR\AJ
Sample : P5380-02RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.211	7.694	1939.9E6	438.9E6	857.592	389.915	#
		Target Compounds							
1)	T	Dalapon	0.000	2.685	0	320.0E6	N.D.	162.571	
2)	T	3,5-DICHL...	6.361	6.690f	123.2E6	77907329	37.391	47.001	#
3)	T	4-Nitroph...	6.997	7.226	8700774	2719697	5.793	3.250	#
5)	T	DICAMBA	7.395	7.880	-7359456	11415598	N.D.	2.079	
6)	T	MCPP	0.000	7.985	0	11072482	N.D.	3.388	
7)	T	MCPA	7.731	8.241	3472079	38123674	<MDL	8.229	#
8)	T	DICHLORPROP	8.119	8.648f	31907448	98529967	12.026	71.416	#
9)	T	2,4-D	0.000	8.981f	0	4946666	N.D.	3.428	
10)	T	Pentachlo...	8.628	9.456	244.0E6	114.1E6	6.245	5.235	
11)	T	2,4,5-TP ...	9.204	9.866	-56602	32784210	N.D.	3.649	
12)	T	2,4,5-T	9.499	10.224f	18596822	43489302	1.143	4.993	#
13)	T	2,4-DB	10.047	10.845	318.4E6	-500929	102.009	N.D.	#
14)	T	DINOSEB	11.294	11.199	11913373	16016181	<MDL	2.600	#
15)	T	Picloram	11.086	12.282	196.0E6	45896534	7.311	3.575	#
16)	T	DCPA	0.000	12.282f	0	45896534	N.D.	4.272	

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

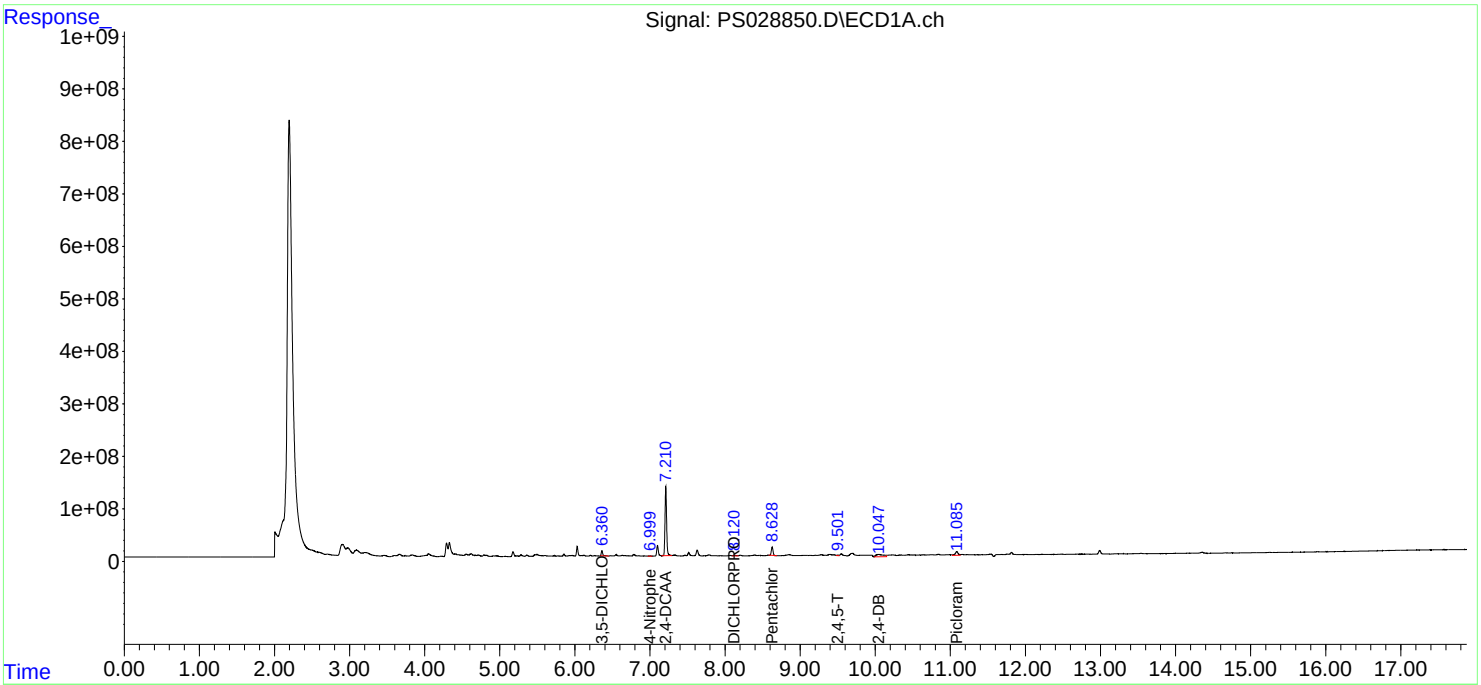
Quantitation Report (Not Reviewed)

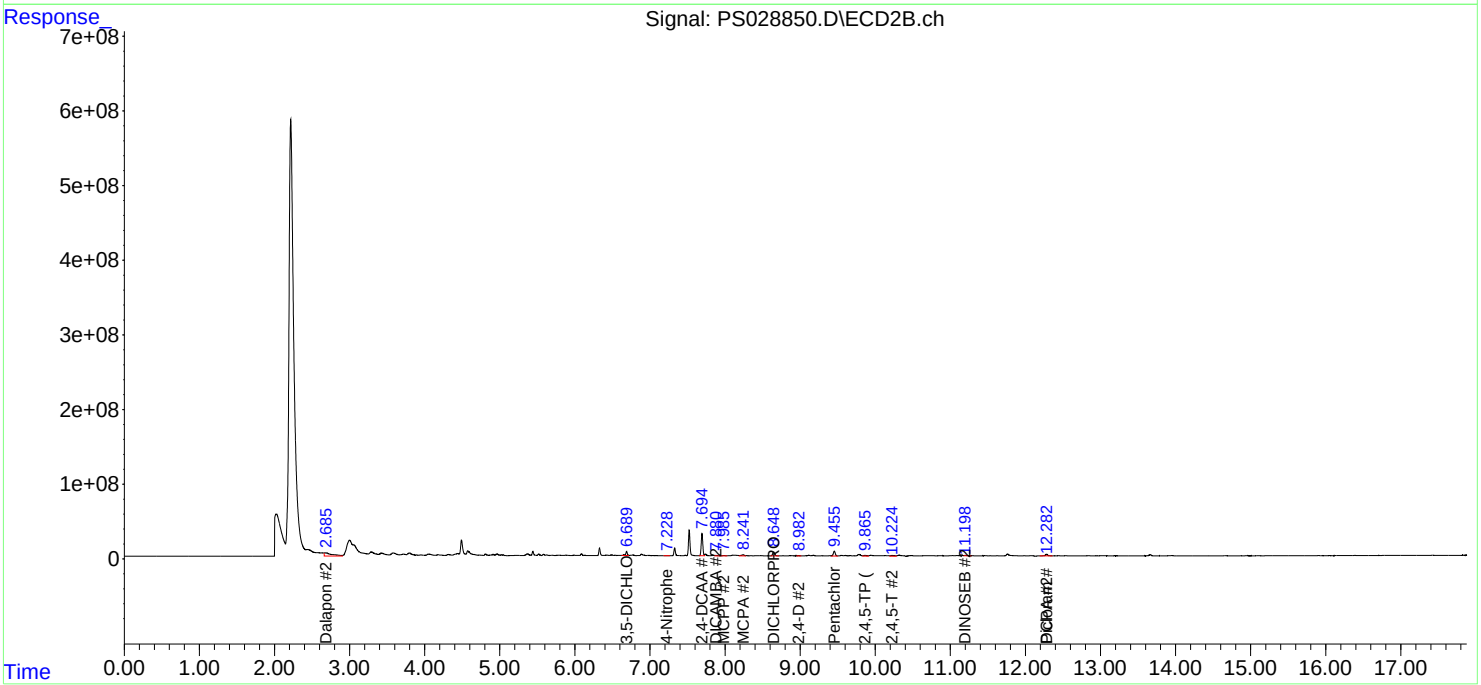
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028850.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 10:50
Operator : AR\AJ
Sample : P5380-02RE
Misc :
ALS Vial : 4 Sample Multiplier: 1

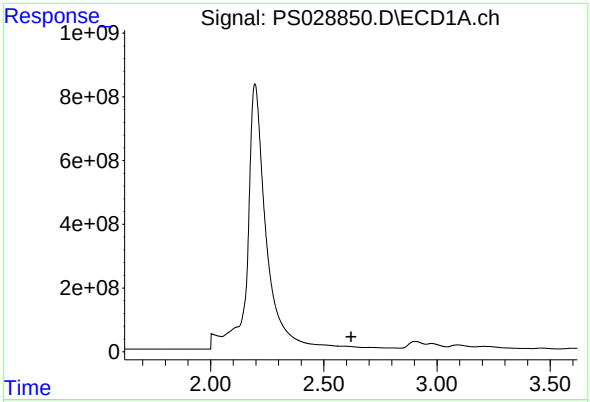
Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



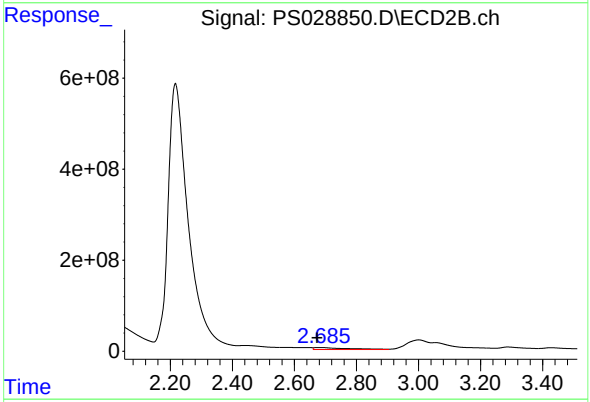




#1 Dalapon

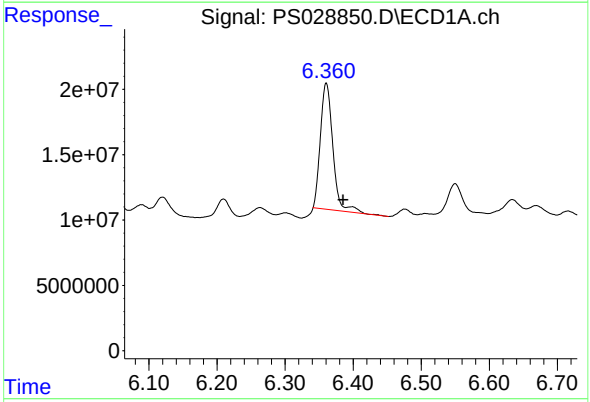
R.T.: 0.000 min
Exp R.T. : 2.620 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



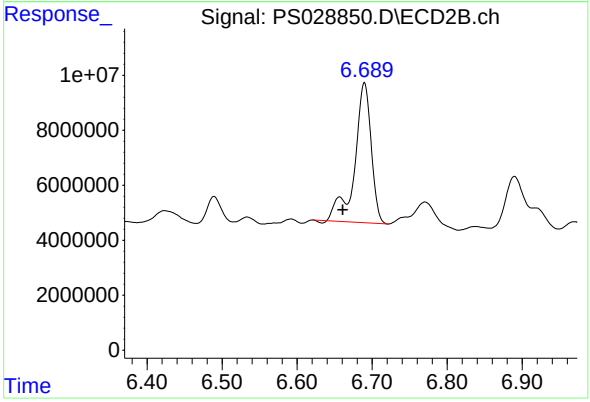
#1 Dalapon

R.T.: 2.685 min
Delta R.T.: 0.012 min
Response: 320037391
Conc: 162.57 ng/ml



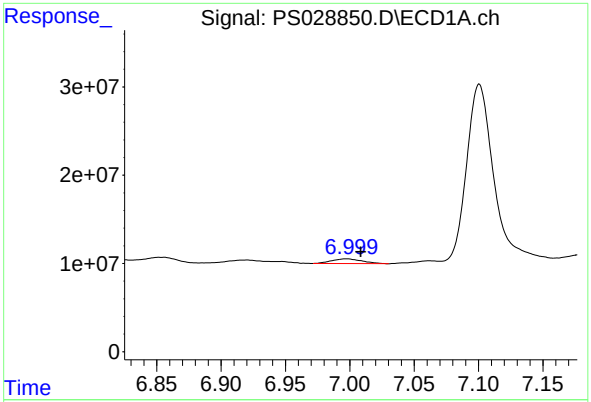
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.361 min
Delta R.T.: -0.024 min
Response: 123209895
Conc: 37.39 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

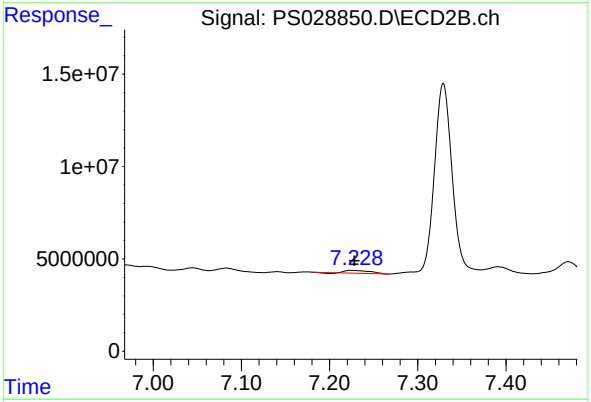
R.T.: 6.690 min
Delta R.T.: 0.029 min
Response: 77907329
Conc: 47.00 ng/ml



#3 4-Nitrophenol

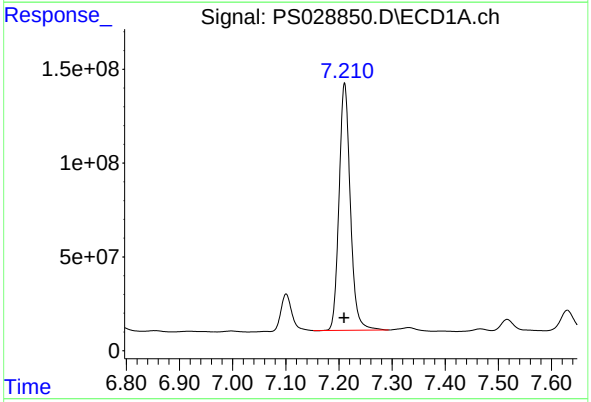
R.T.: 6.997 min
Delta R.T.: -0.011 min
Response: 8700774
Conc: 5.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



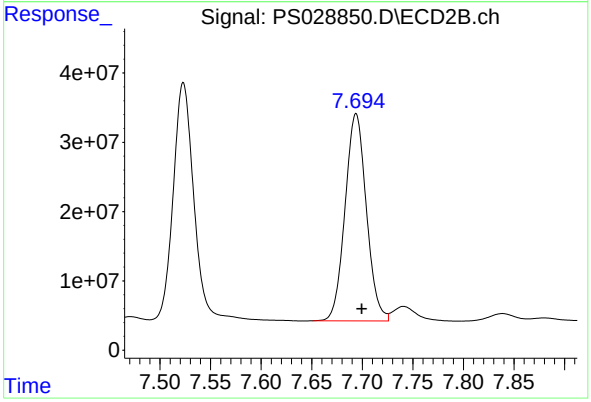
#3 4-Nitrophenol

R.T.: 7.226 min
Delta R.T.: -0.003 min
Response: 2719697
Conc: 3.25 ng/ml



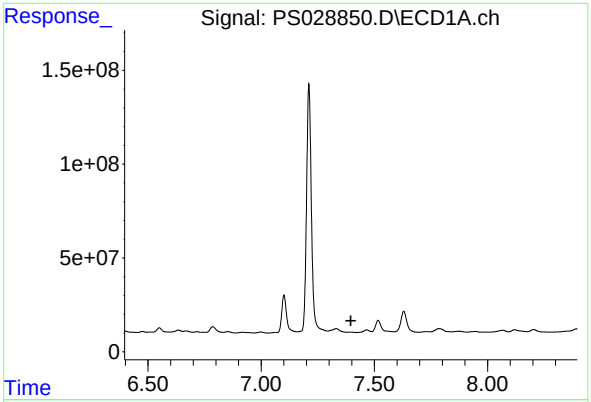
#4 2,4-DCAA

R.T.: 7.211 min
Delta R.T.: 0.000 min
Response: 1939895211
Conc: 857.59 ng/ml



#4 2,4-DCAA

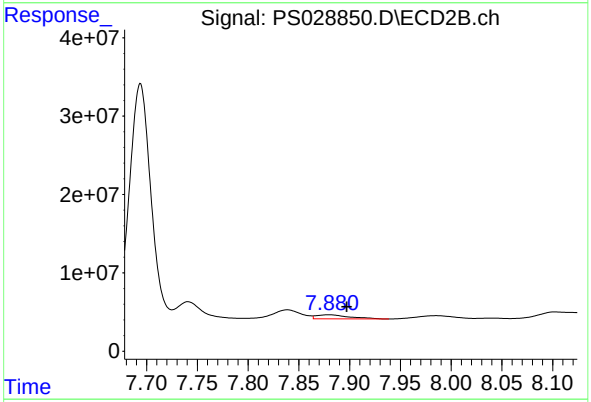
R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 438864149
Conc: 389.92 ng/ml



#5 DICAMBA

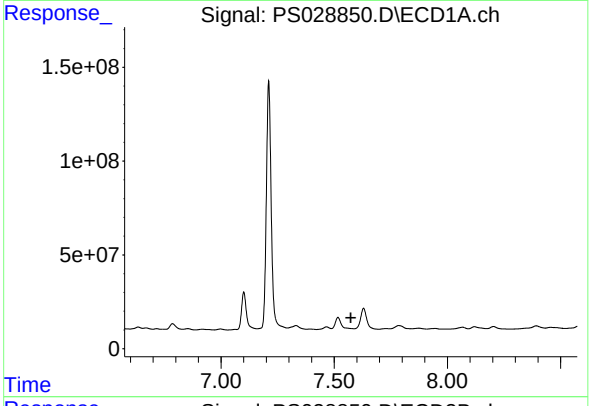
R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: -7359456
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



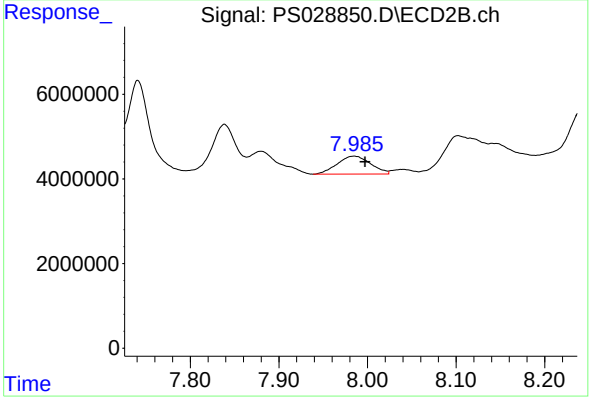
#5 DICAMBA

R.T.: 7.880 min
Delta R.T.: -0.018 min
Response: 11415598
Conc: 2.08 ng/ml



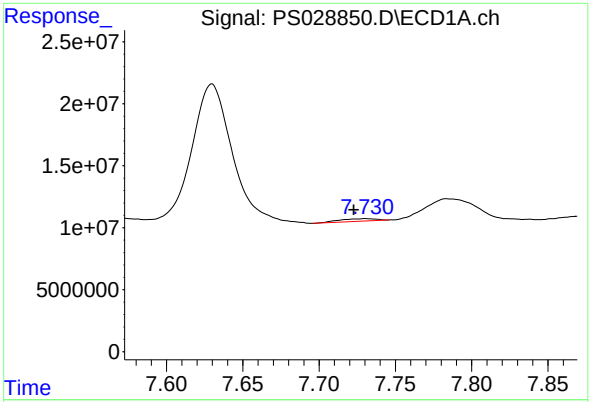
#6 MCPP

R.T.: 0.000 min
Exp R.T. : 7.574 min
Response: 0
Conc: N.D.



#6 MCPP

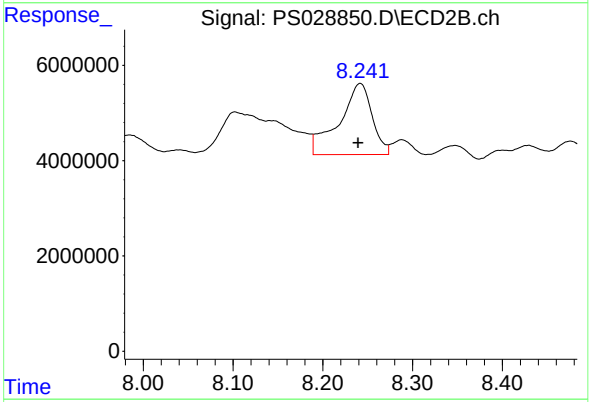
R.T.: 7.985 min
Delta R.T.: -0.013 min
Response: 11072482
Conc: 3.39 ug/ml



#7 MCPA

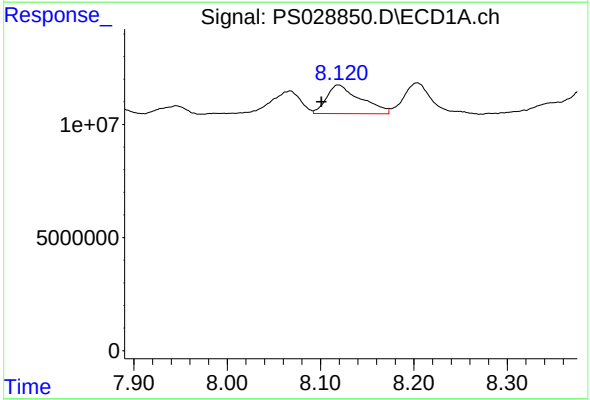
R.T.: 7.731 min
Delta R.T.: 0.008 min
Response: 3472079
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



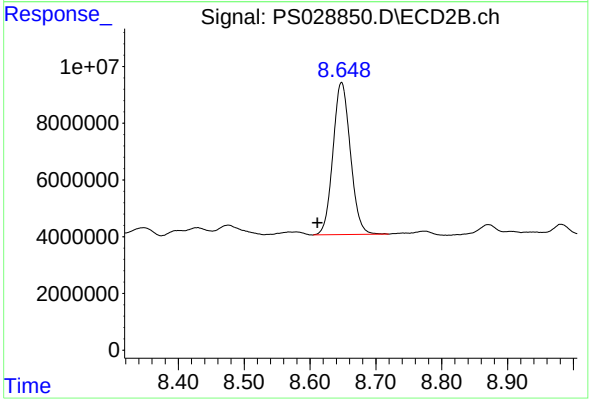
#7 MCPA

R.T.: 8.241 min
Delta R.T.: 0.002 min
Response: 38123674
Conc: 8.23 ug/ml



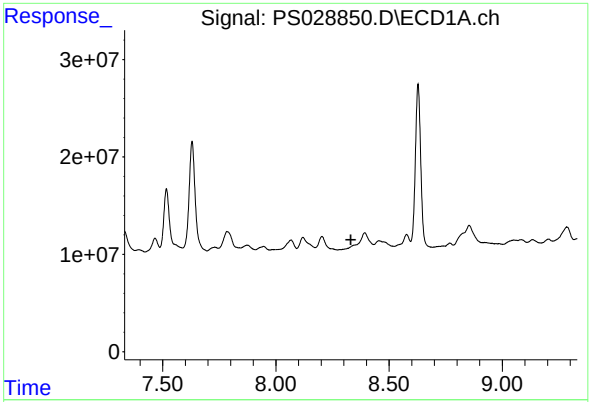
#8 DICHLORPROP

R.T.: 8.119 min
Delta R.T.: 0.018 min
Response: 31907448
Conc: 12.03 ng/ml



#8 DICHLORPROP

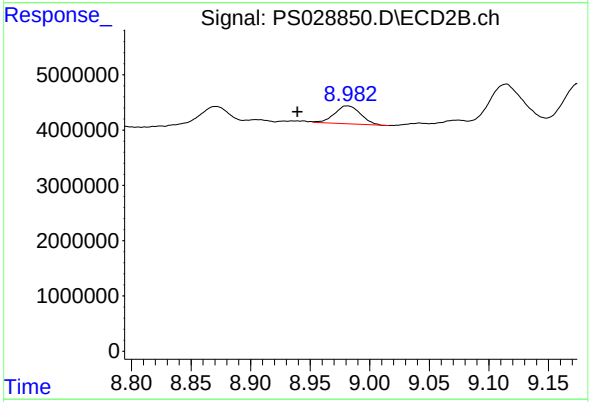
R.T.: 8.648 min
Delta R.T.: 0.037 min
Response: 98529967
Conc: 71.42 ng/ml



#9 2,4-D

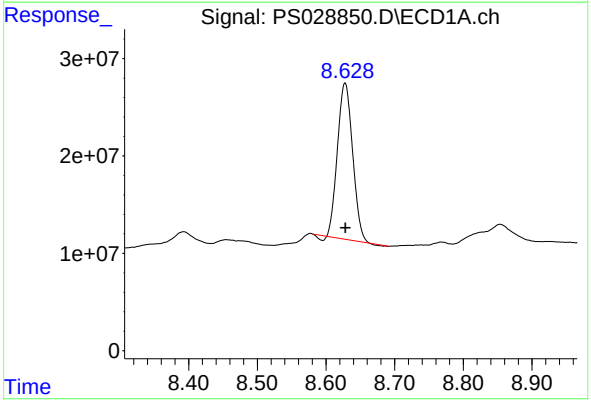
R.T.: 0.000 min
Exp R.T. : 8.331 min
Response: 0
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



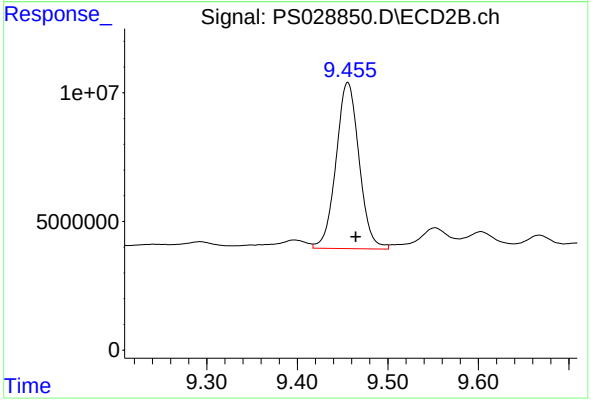
#9 2,4-D

R.T.: 8.981 min
Delta R.T.: 0.042 min
Response: 4946666
Conc: 3.43 ng/ml



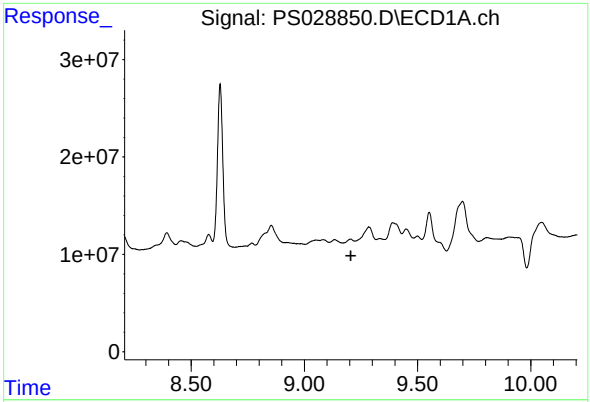
#10 Pentachlorophenol

R.T.: 8.628 min
Delta R.T.: 0.000 min
Response: 243968933
Conc: 6.24 ng/ml



#10 Pentachlorophenol

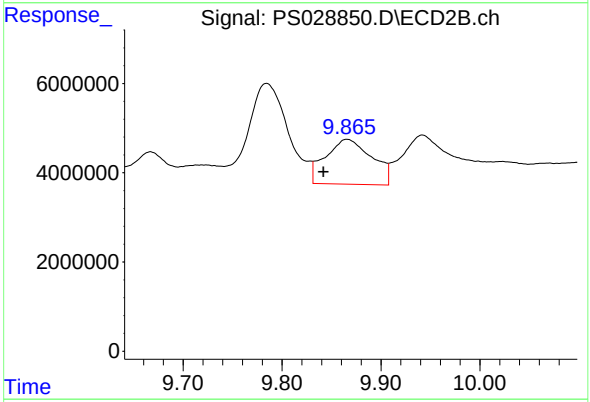
R.T.: 9.456 min
Delta R.T.: -0.009 min
Response: 114118433
Conc: 5.24 ng/ml



#11 2,4,5-TP (SILVEX)

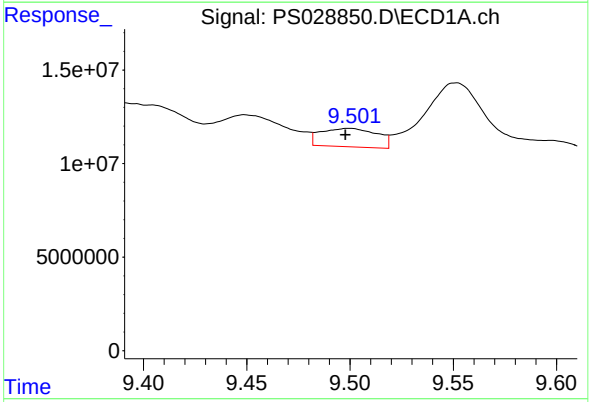
R.T.: 9.204 min
Delta R.T.: -0.001 min
Response: -56602
Conc: N.D.

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



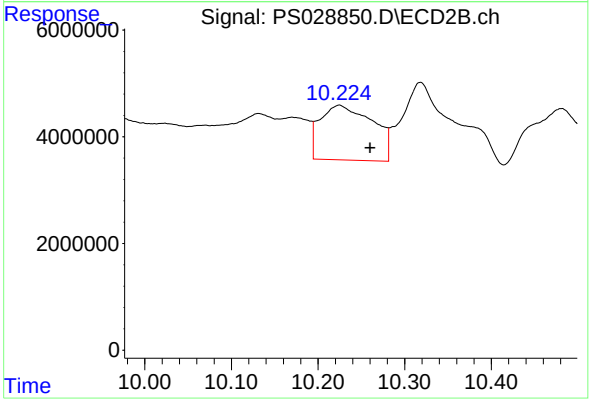
#11 2,4,5-TP (SILVEX)

R.T.: 9.866 min
Delta R.T.: 0.024 min
Response: 32784210
Conc: 3.65 ng/ml



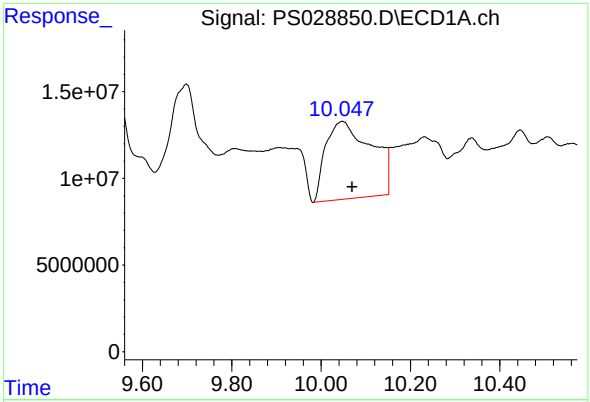
#12 2,4,5-T

R.T.: 9.499 min
Delta R.T.: 0.002 min
Response: 18596822
Conc: 1.14 ng/ml



#12 2,4,5-T

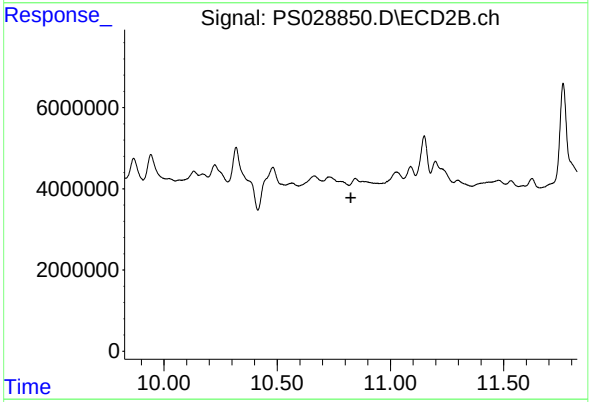
R.T.: 10.224 min
Delta R.T.: -0.035 min
Response: 43489302
Conc: 4.99 ng/ml



#13 2,4-DB

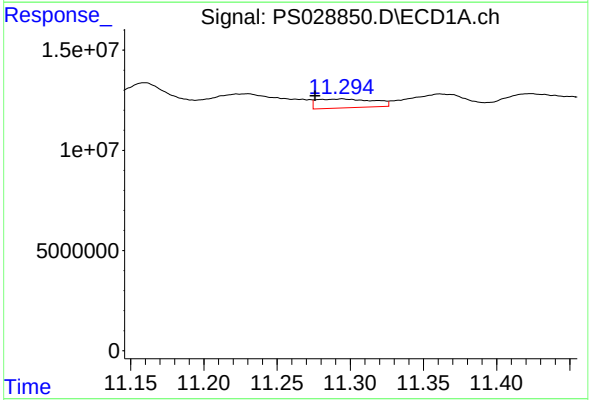
R.T.: 10.047 min
Delta R.T.: -0.022 min
Response: 318430891
Conc: 102.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



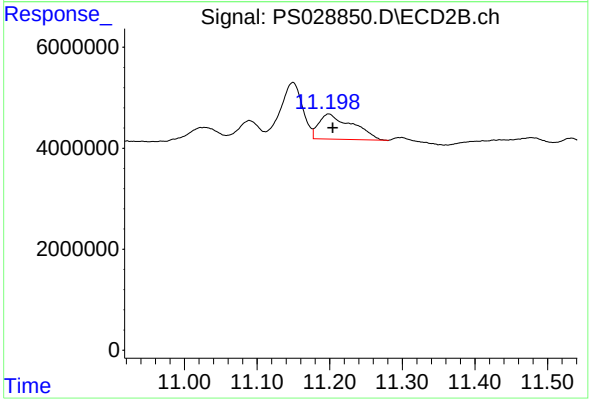
#13 2,4-DB

R.T.: 10.845 min
Delta R.T.: 0.019 min
Response: -500929
Conc: N.D.



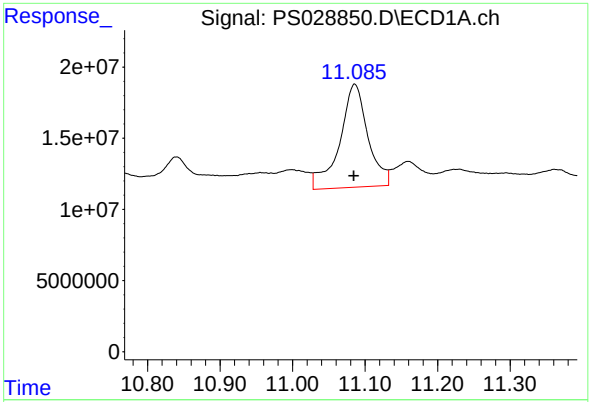
#14 DINOSEB

R.T.: 11.294 min
Delta R.T.: 0.018 min
Response: 11913373
Conc: N.D.



#14 DINOSEB

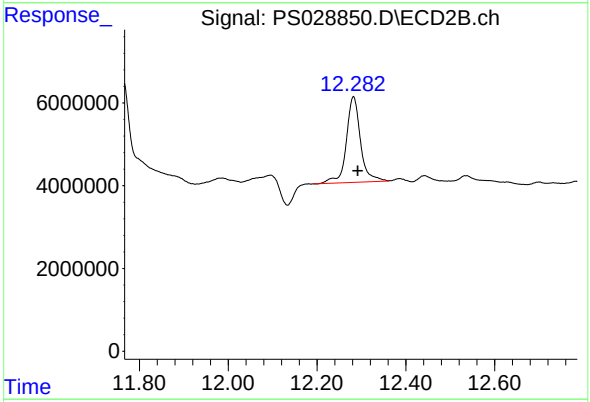
R.T.: 11.199 min
Delta R.T.: -0.005 min
Response: 16016181
Conc: 2.60 ng/ml



#15 Picloram

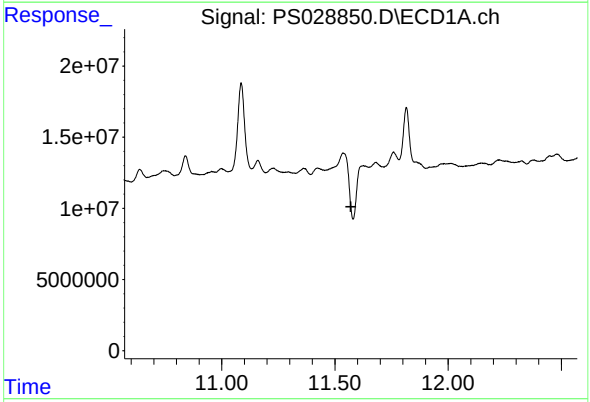
R.T.: 11.086 min
Delta R.T.: 0.002 min
Response: 196025608
Conc: 7.31 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1RE



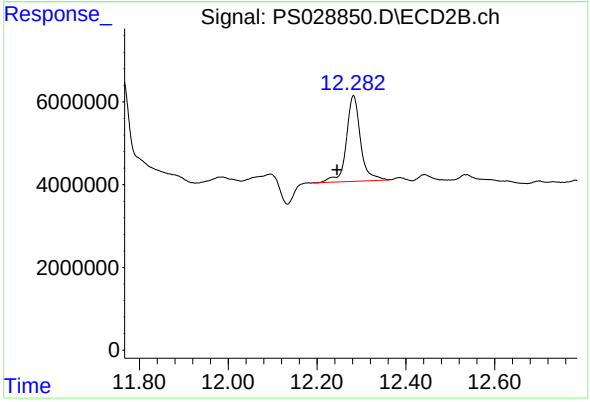
#15 Picloram

R.T.: 12.282 min
Delta R.T.: -0.010 min
Response: 45896534
Conc: 3.57 ng/ml



#16 DCPA

R.T.: 0.000 min
Exp R.T. : 11.570 min
Response: 0
Conc: N.D.



#16 DCPA

R.T.: 12.282 min
Delta R.T.: 0.037 min
Response: 45896534
Conc: 4.27 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
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: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.209	7.694	1761.4E6	765.3E6	778.693	679.982
		Target Compounds						
1)	T	Dalapon	2.621	2.675	1947.2E6	1232.9E6	691.328	626.289
2)	T	3,5-DICHL...	6.384	6.657	2402.1E6	1052.5E6	728.987	634.990
3)	T	4-Nitroph...	7.007	7.223	1056.3E6	527.4E6	703.263	630.156
5)	T	DICAMBA	7.395	7.891	7360.7E6	3585.6E6	746.476	653.137
6)	T	MCPP	7.576	7.994	448.6E6	208.5E6	72.034	63.801
7)	T	MCPA	7.725	8.237	610.7E6	290.3E6	69.671	62.656
8)	T	DICHLORPROP	8.099	8.604	1948.4E6	901.0E6	734.362	653.056
9)	T	2,4-D	8.329	8.932	2088.3E6	910.5E6	732.861	630.920
10)	T	Pentachlo...	8.627	9.457	30059.4E6	14543.3E6	769.433	667.164
11)	T	2,4,5-TP ...	9.203	9.833	11834.3E6	5953.0E6	753.329	662.657
12)	T	2,4,5-T	9.494	10.251	12141.2E6	5682.5E6	746.270	652.471
13)	T	2,4-DB	10.065	10.816	2228.8E6	634.4E6	713.991	653.250
14)	T	DINOSEB	11.271	11.194	9935.2E6	3920.4E6	739.129	636.520
15)	T	Picloram	11.081	12.280	19154.3E6	8261.6E6	714.372	643.479
16)	T	DCPA	11.566	12.234	18000.8E6	7168.6E6	748.443	667.183

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

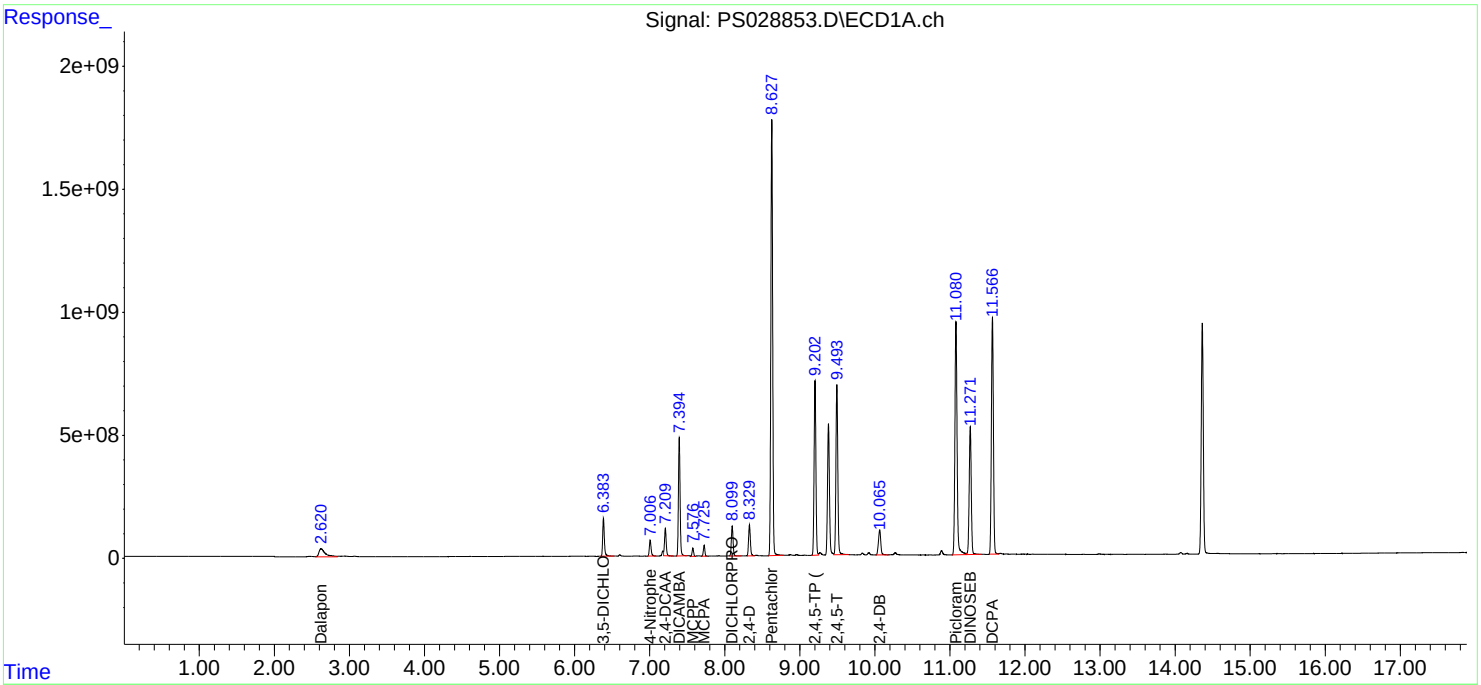
Quantitation Report (Not Reviewed)

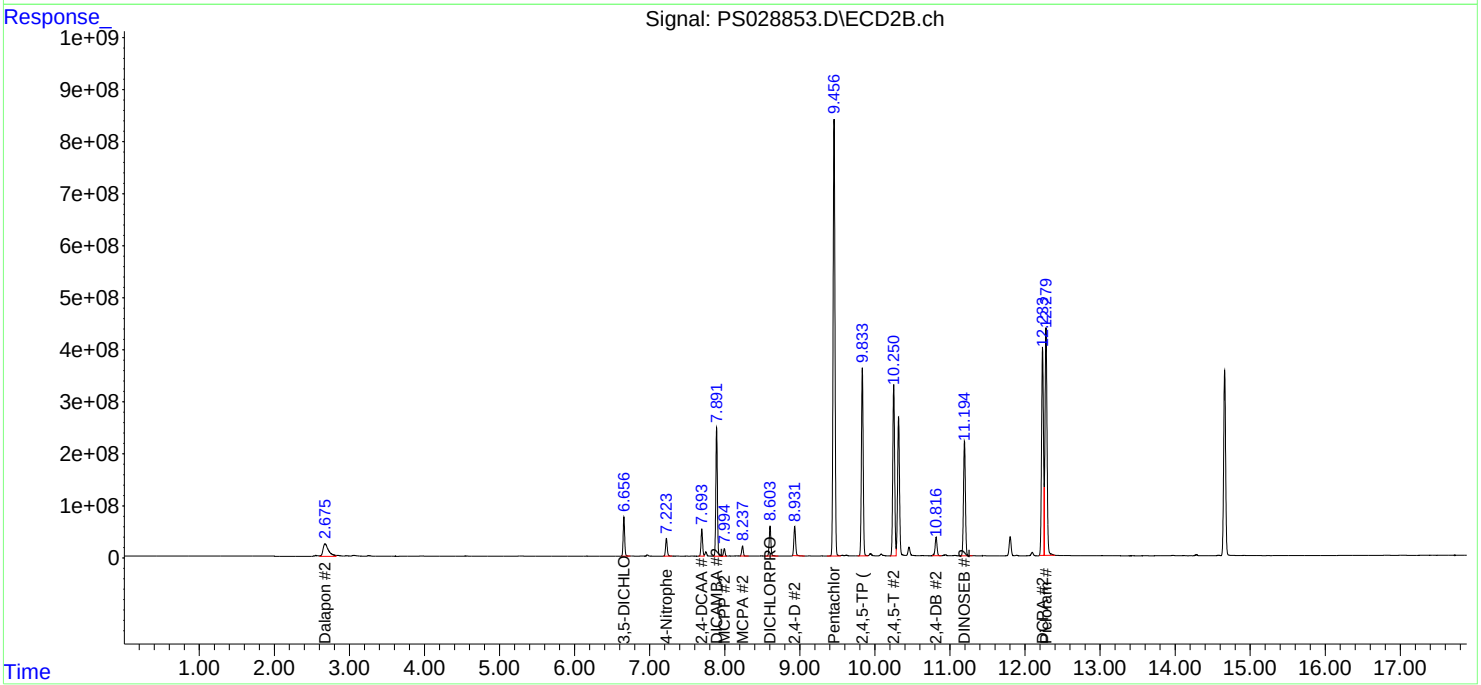
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123024\
Data File : PS028853.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Dec 2024 12:02
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

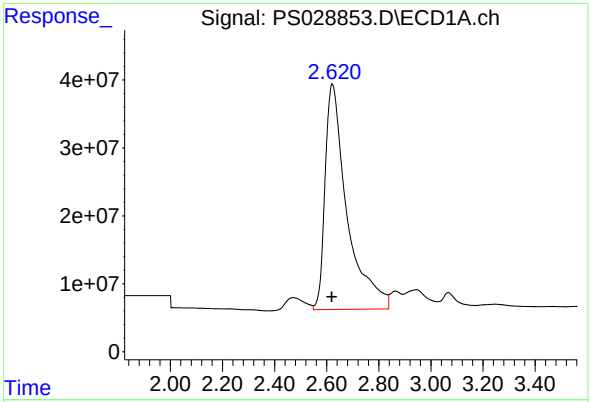
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 31 01:38:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



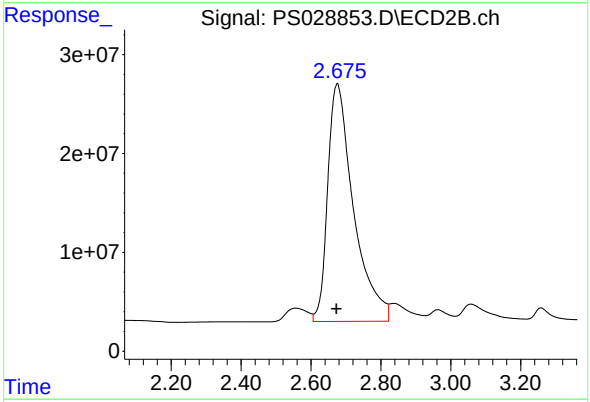




#1 Dalapon

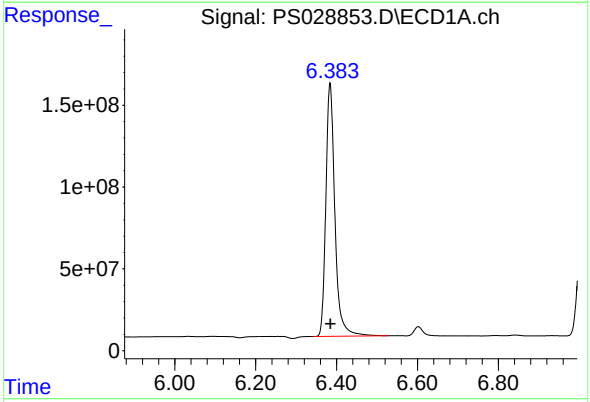
R.T.: 2.621 min
Delta R.T.: 0.001 min
Response: 1947228944
Conc: 691.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



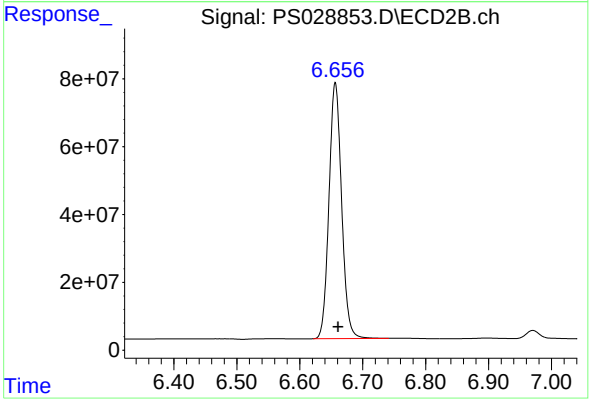
#1 Dalapon

R.T.: 2.675 min
Delta R.T.: 0.003 min
Response: 1232913611
Conc: 626.29 ng/ml



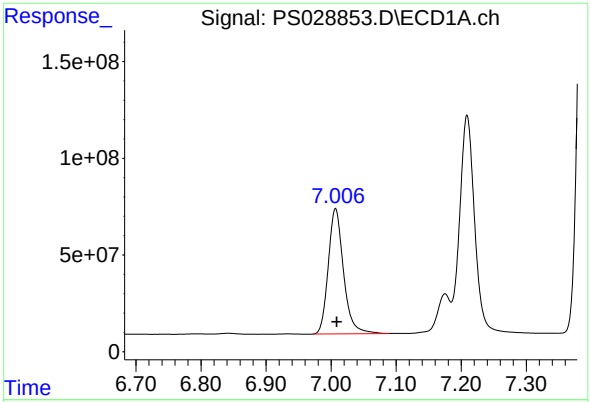
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.384 min
Delta R.T.: -0.001 min
Response: 2402109302
Conc: 728.99 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

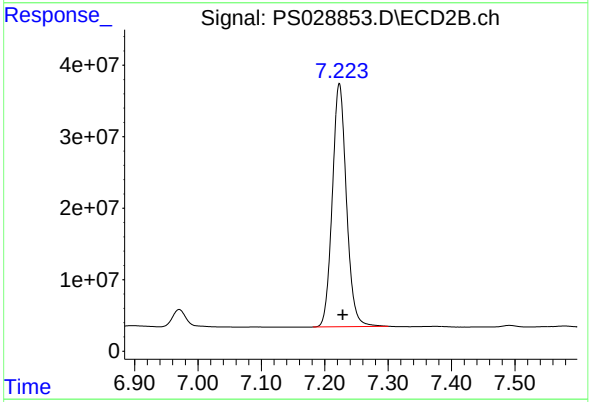
R.T.: 6.657 min
Delta R.T.: -0.004 min
Response: 1052542673
Conc: 634.99 ng/ml



#3 4-Nitrophenol

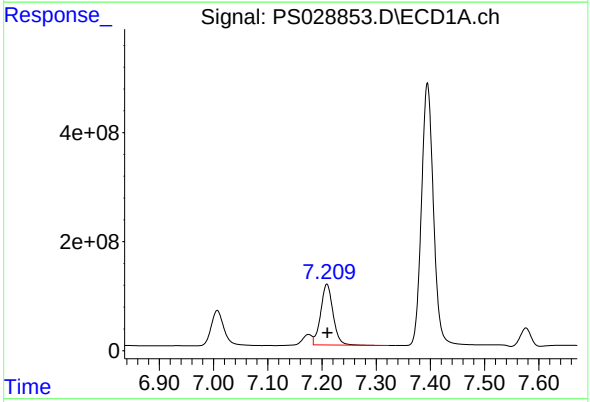
R.T.: 7.007 min
Delta R.T.: -0.002 min
Response: 1056342376
Conc: 703.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



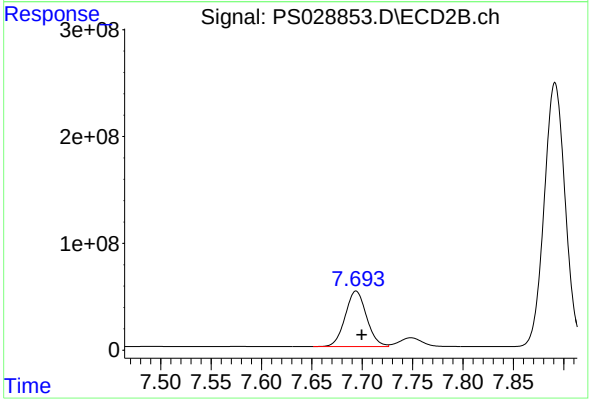
#3 4-Nitrophenol

R.T.: 7.223 min
Delta R.T.: -0.005 min
Response: 527373642
Conc: 630.16 ng/ml



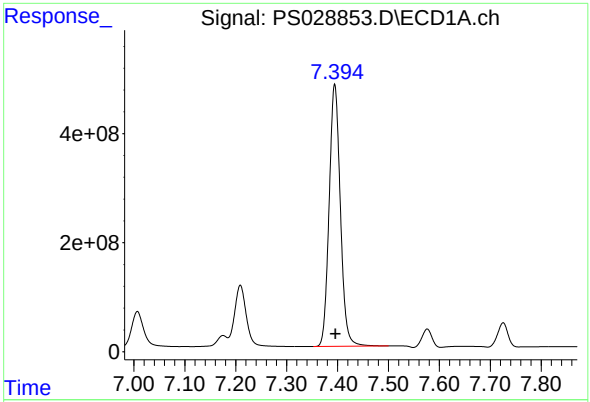
#4 2,4-DCAA

R.T.: 7.209 min
Delta R.T.: 0.000 min
Response: 1761424469
Conc: 778.69 ng/ml



#4 2,4-DCAA

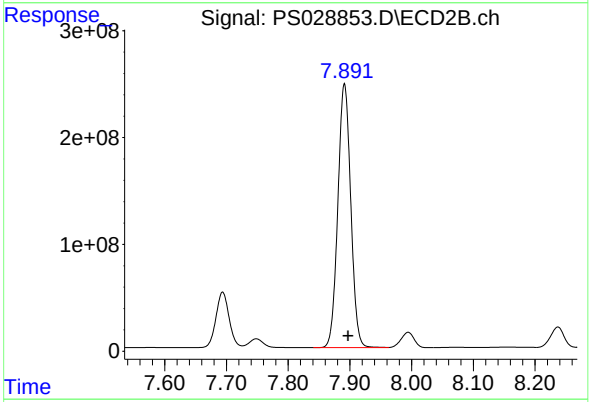
R.T.: 7.694 min
Delta R.T.: -0.006 min
Response: 765345315
Conc: 679.98 ng/ml



#5 DICAMBA

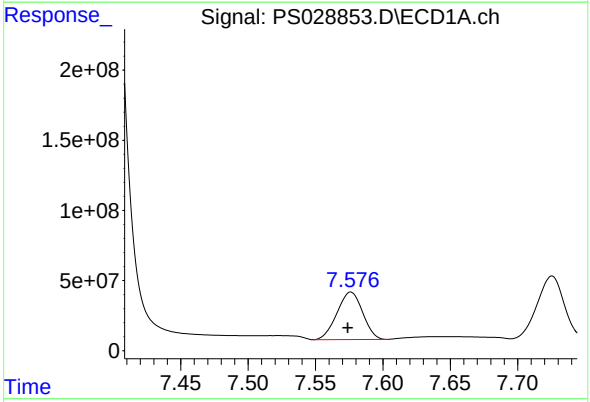
R.T.: 7.395 min
Delta R.T.: -0.001 min
Response: 7360734749
Conc: 746.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



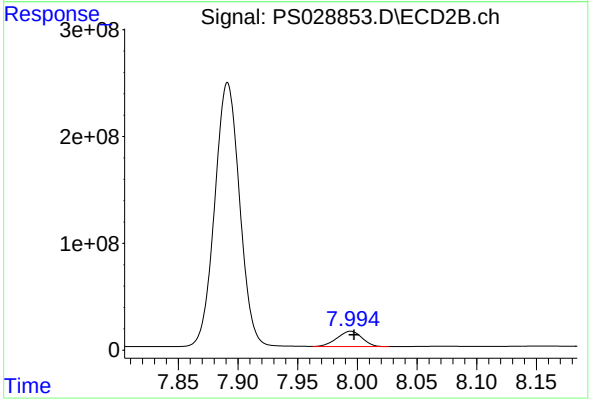
#5 DICAMBA

R.T.: 7.891 min
Delta R.T.: -0.006 min
Response: 3585639545
Conc: 653.14 ng/ml



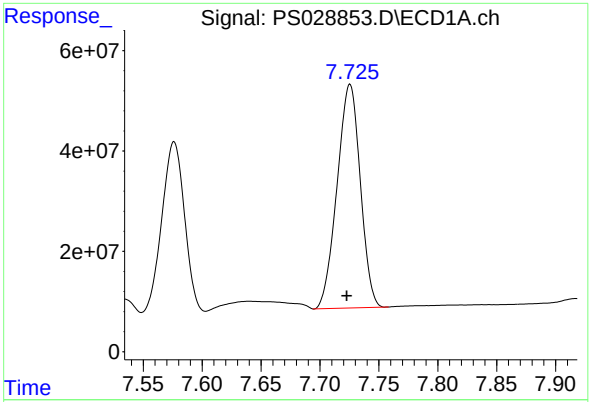
#6 MCPP

R.T.: 7.576 min
Delta R.T.: 0.002 min
Response: 448568724
Conc: 72.03 ug/ml



#6 MCPP

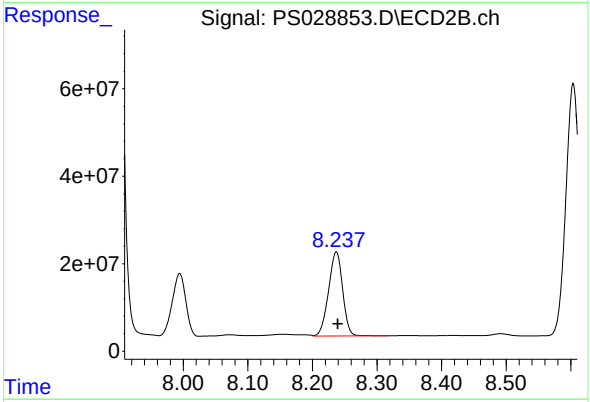
R.T.: 7.994 min
Delta R.T.: -0.003 min
Response: 208487575
Conc: 63.80 ug/ml



#7 MCPA

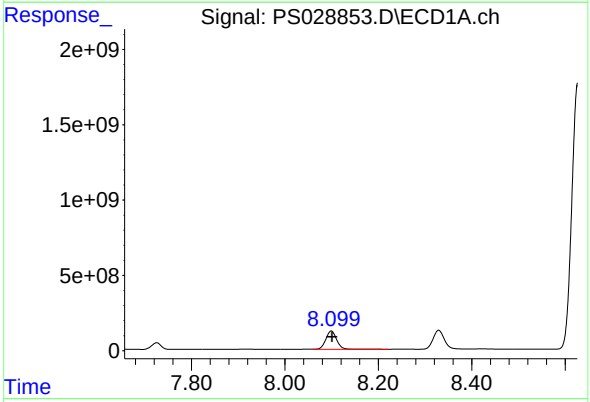
R.T.: 7.725 min
Delta R.T.: 0.003 min
Response: 610700824
Conc: 69.67 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



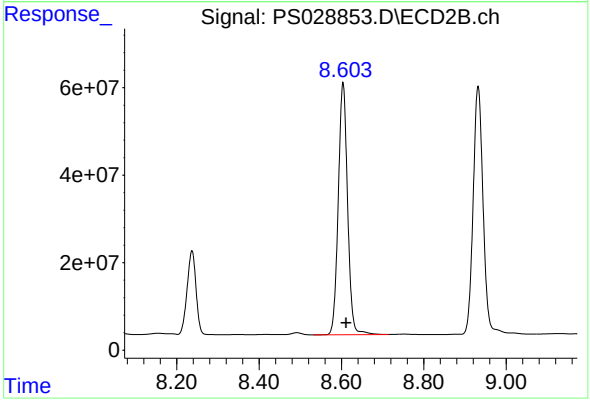
#7 MCPA

R.T.: 8.237 min
Delta R.T.: -0.002 min
Response: 290278880
Conc: 62.66 ug/ml



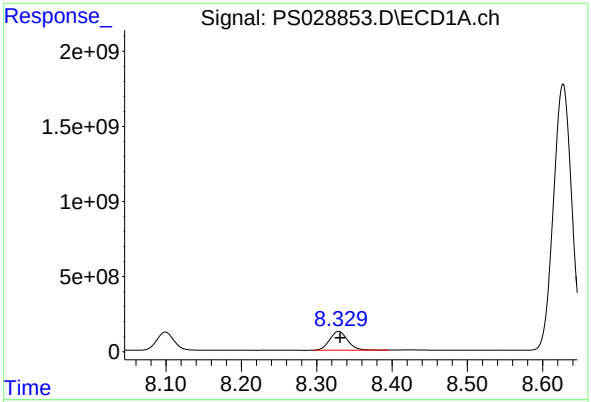
#8 DICHLORPROP

R.T.: 8.099 min
Delta R.T.: -0.002 min
Response: 1948390905
Conc: 734.36 ng/ml



#8 DICHLORPROP

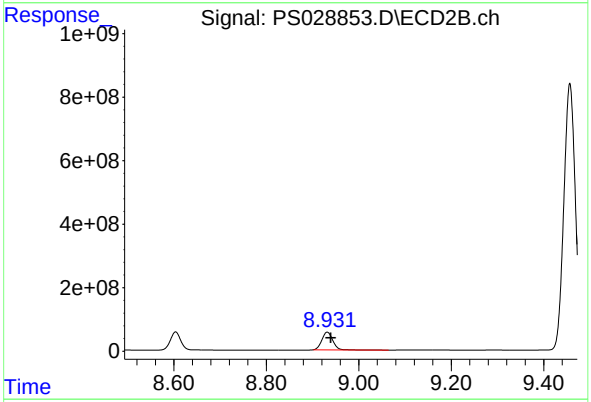
R.T.: 8.604 min
Delta R.T.: -0.007 min
Response: 900994262
Conc: 653.06 ng/ml



#9 2,4-D

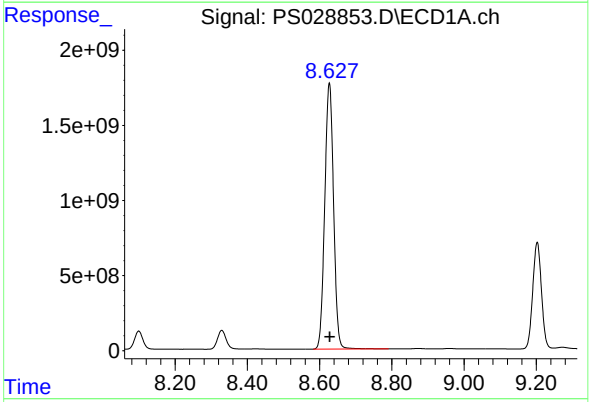
R.T.: 8.329 min
Delta R.T.: -0.002 min
Response: 2088311006
Conc: 732.86 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



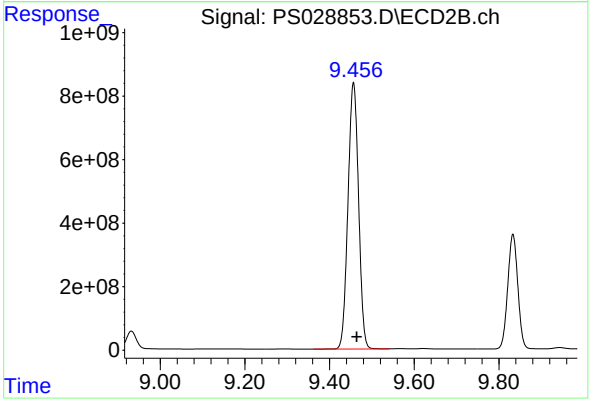
#9 2,4-D

R.T.: 8.932 min
Delta R.T.: -0.007 min
Response: 910508990
Conc: 630.92 ng/ml



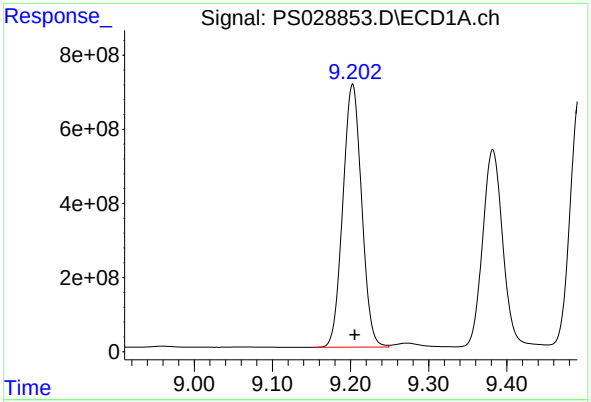
#10 Pentachlorophenol

R.T.: 8.627 min
Delta R.T.: -0.001 min
Response: 30059430980
Conc: 769.43 ng/ml



#10 Pentachlorophenol

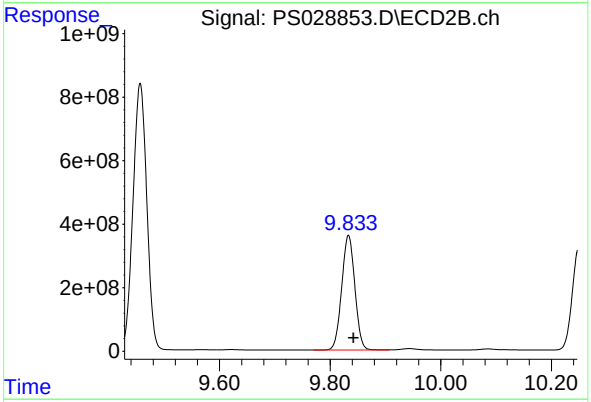
R.T.: 9.457 min
Delta R.T.: -0.008 min
Response: 14543319054
Conc: 667.16 ng/ml



#11 2,4,5-TP (SILVEX)

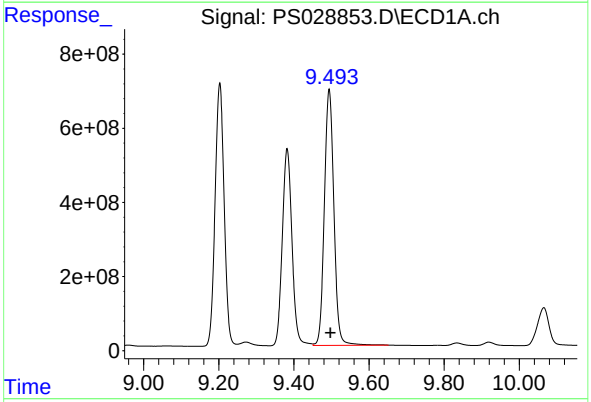
R.T.: 9.203 min
Delta R.T.: -0.003 min
Response: 11834288290
Conc: 753.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



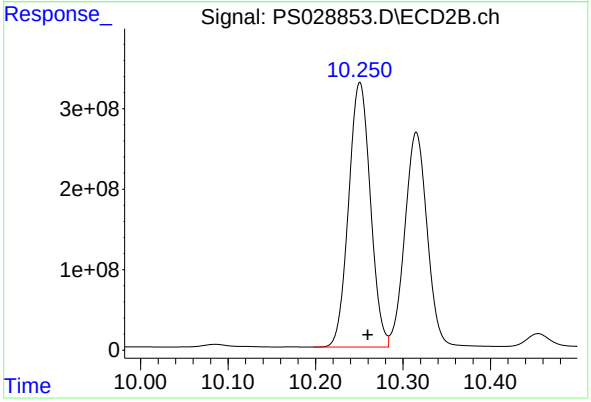
#11 2,4,5-TP (SILVEX)

R.T.: 9.833 min
Delta R.T.: -0.009 min
Response: 5952987470
Conc: 662.66 ng/ml



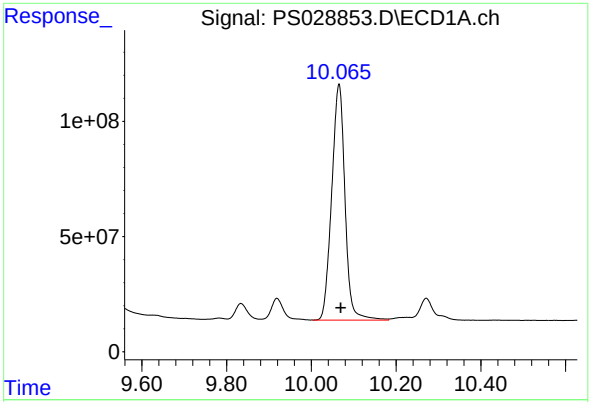
#12 2,4,5-T

R.T.: 9.494 min
Delta R.T.: -0.004 min
Response: 12141203726
Conc: 746.27 ng/ml



#12 2,4,5-T

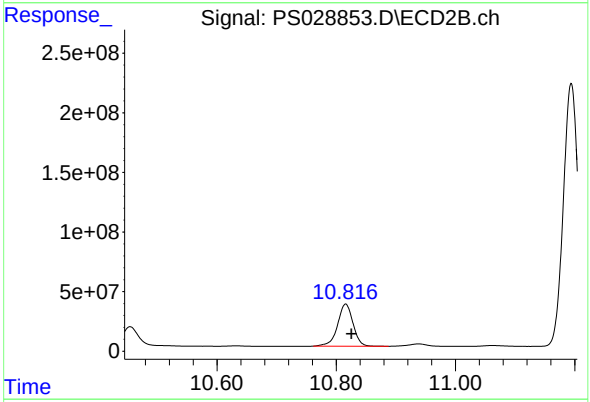
R.T.: 10.251 min
Delta R.T.: -0.009 min
Response: 5682486629
Conc: 652.47 ng/ml



#13 2,4-DB

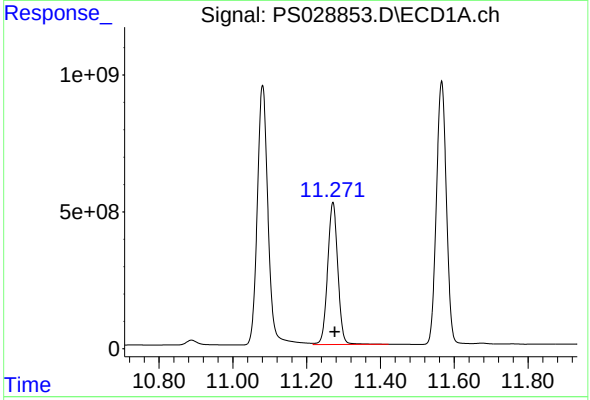
R.T.: 10.065 min
Delta R.T.: -0.004 min
Response: 2228792066
Conc: 713.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



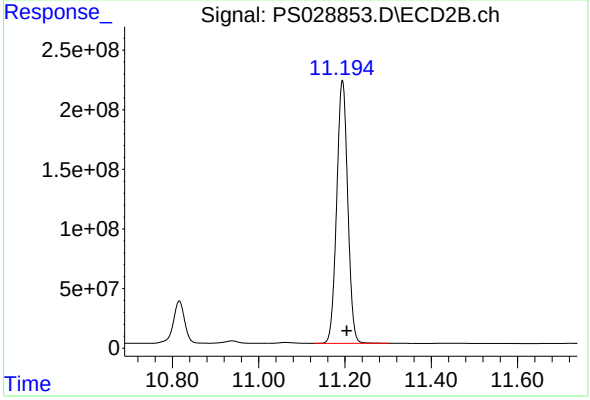
#13 2,4-DB

R.T.: 10.816 min
Delta R.T.: -0.010 min
Response: 634369856
Conc: 653.25 ng/ml



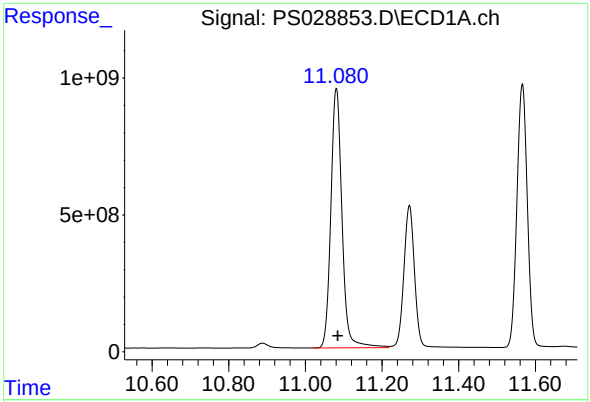
#14 DINOSEB

R.T.: 11.271 min
Delta R.T.: -0.005 min
Response: 9935171683
Conc: 739.13 ng/ml



#14 DINOSEB

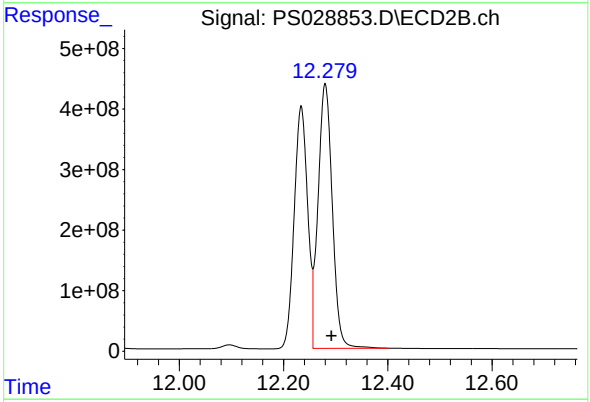
R.T.: 11.194 min
Delta R.T.: -0.010 min
Response: 3920417502
Conc: 636.52 ng/ml



#15 Picloram

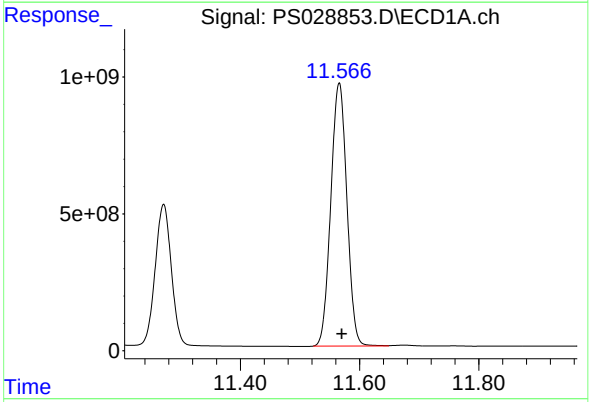
R.T.: 11.081 min
Delta R.T.: -0.004 min
Response: 19154286656
Conc: 714.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



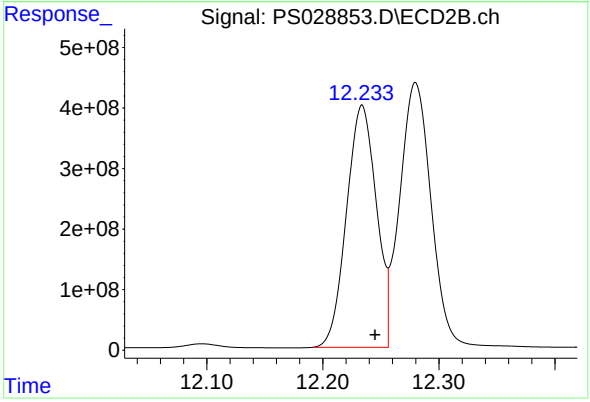
#15 Picloram

R.T.: 12.280 min
Delta R.T.: -0.012 min
Response: 8261640955
Conc: 643.48 ng/ml



#16 DCPA

R.T.: 11.566 min
Delta R.T.: -0.004 min
Response: 18000833847
Conc: 748.44 ng/ml



#16 DCPA

R.T.: 12.234 min
Delta R.T.: -0.011 min
Response: 7168597046
Conc: 667.18 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028862.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:59
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: Jan 01 00:24:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.207	7.690	1979.5E6	778.4E6	875.093	691.612
		Target Compounds						
1)	T	Dalapon	2.620	2.672	1939.8E6	1304.7E6	688.705	662.780
2)	T	3,5-DICHL...	6.383	6.653	2439.0E6	1071.1E6	740.194	646.181
3)	T	4-Nitroph...	7.006	7.219	1060.8E6	530.3E6	706.227	633.597
5)	T	DICAMBA	7.393	7.887	7469.3E6	3669.1E6	757.487	668.348
6)	T	MCPP	7.575	7.991	460.9E6	214.4E6	74.007	65.624
7)	T	MCPA	7.724	8.233	627.0E6	297.7E6	71.533	64.253
8)	T	DICHLORPROP	8.098	8.600	1973.8E6	916.2E6	743.937	664.047
9)	T	2,4-D	8.327	8.928	2078.5E6	841.2E6	729.423	582.905
10)	T	Pentachlo...	8.624	9.452	30444.1E6	14903.4E6	779.278	683.683
11)	T	2,4,5-TP ...	9.201	9.828	12021.4E6	6090.8E6	765.243	677.996
12)	T	2,4,5-T	9.493	10.246	12262.5E6	5794.2E6	753.725	665.298
13)	T	2,4-DB	10.063	10.811	2237.7E6	639.7E6	716.851	658.688
14)	T	DINOSEB	11.268	11.189	9950.1E6	3955.8E6	740.241	642.256
15)	T	Picloram	11.079	12.274	19443.5E6	8346.8E6	725.159	650.113
16)	T	DCPA	11.563	12.228	18209.2E6	7241.9E6	757.108	674.006

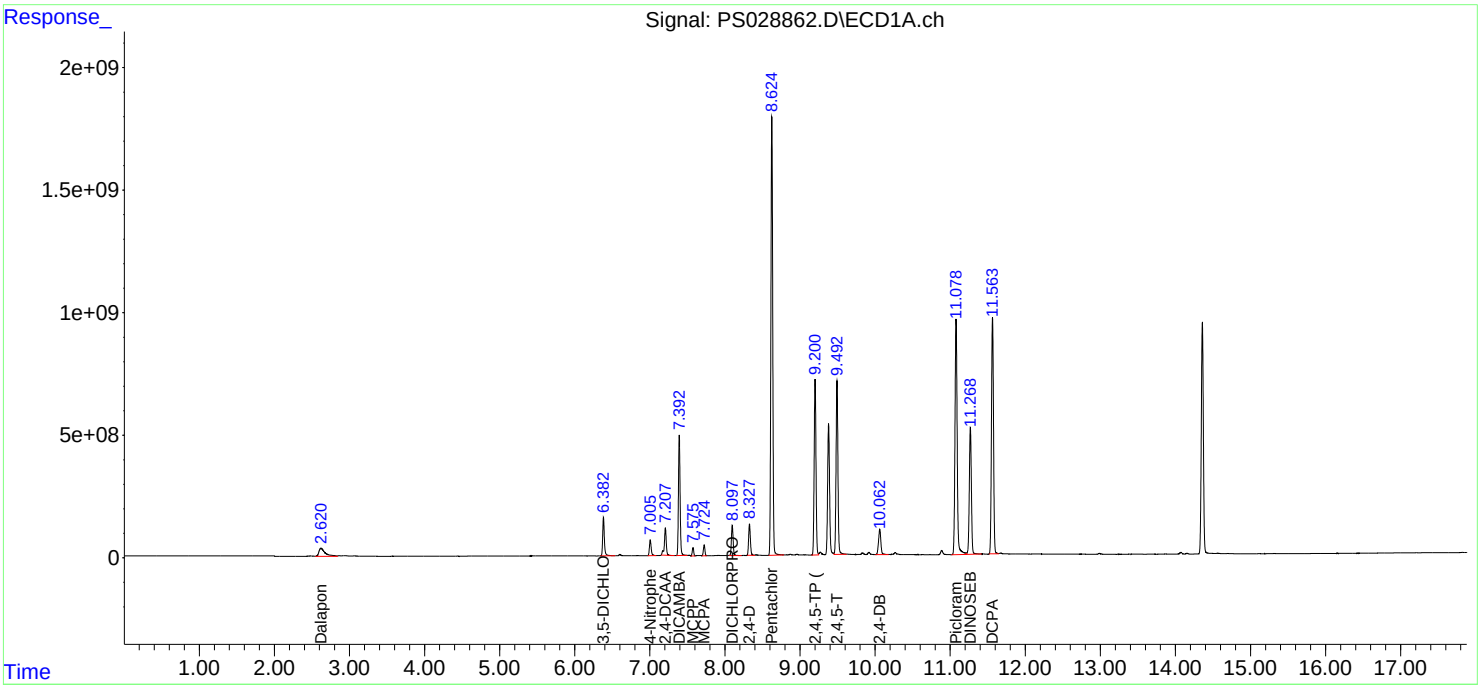
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

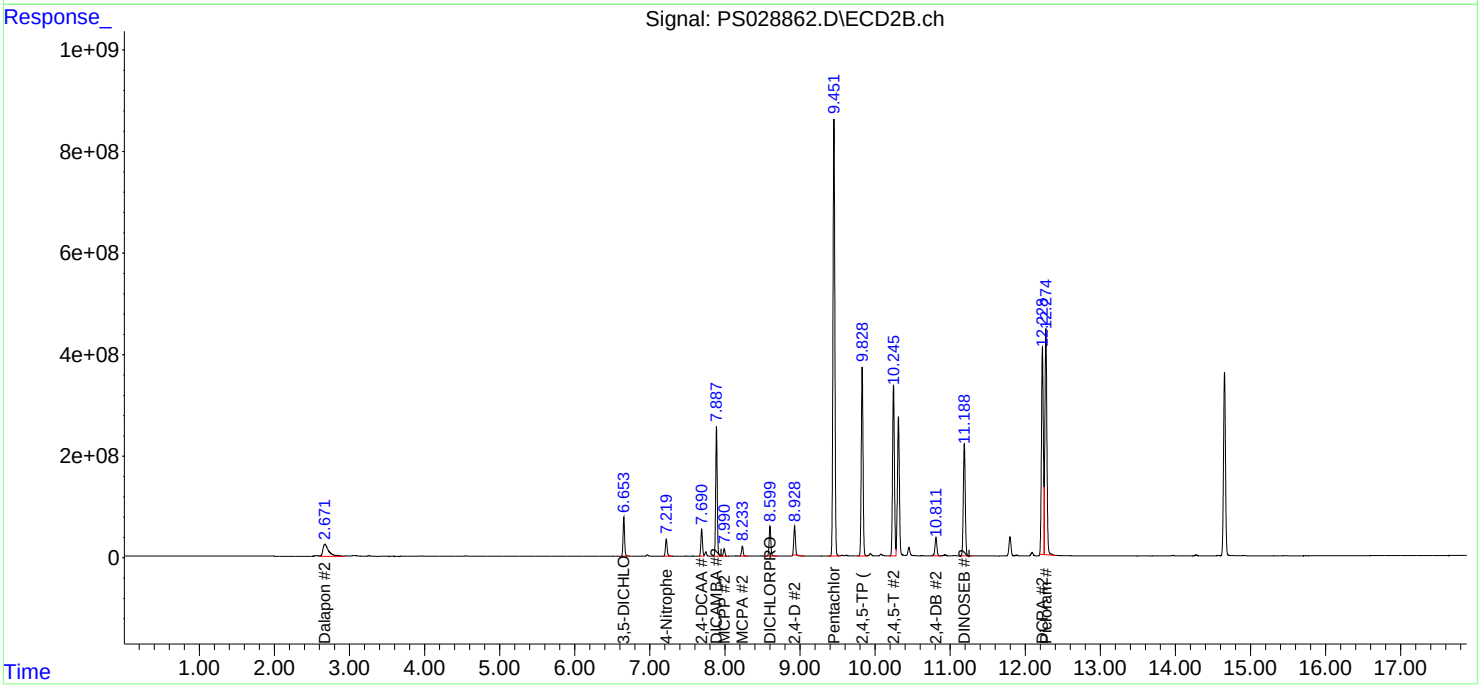
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028862.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 08:59
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

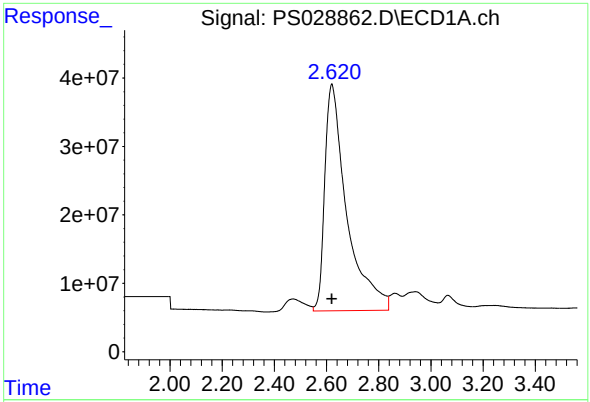
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:24:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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 0.25µm



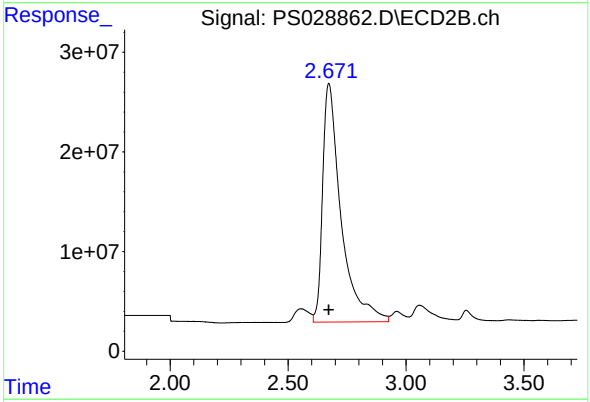




#1 Dalapon

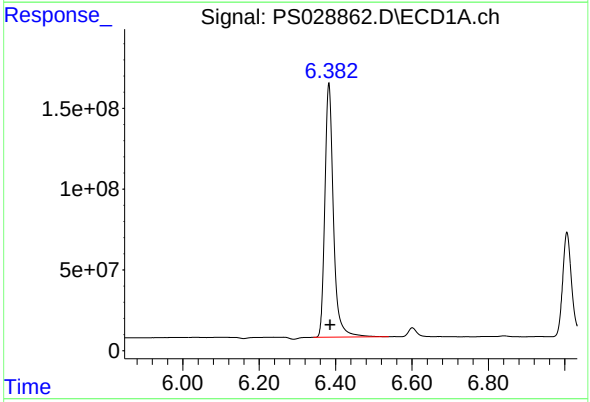
R.T.: 2.620 min
Delta R.T.: 0.000 min
Response: 1939842265
Conc: 688.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



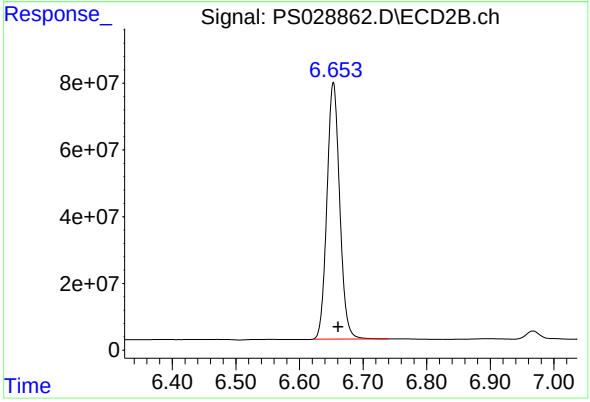
#1 Dalapon

R.T.: 2.672 min
Delta R.T.: 0.000 min
Response: 1304749753
Conc: 662.78 ng/ml



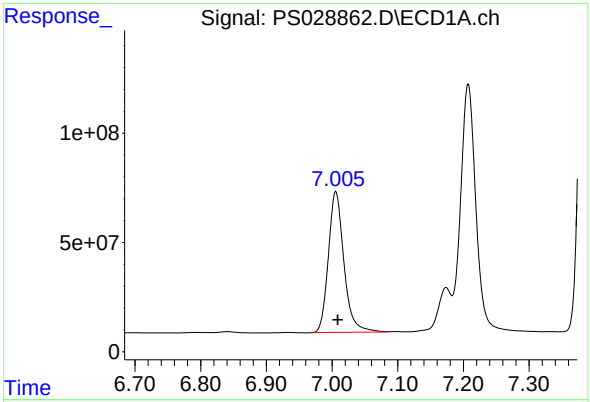
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.003 min
Response: 2439039424
Conc: 740.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

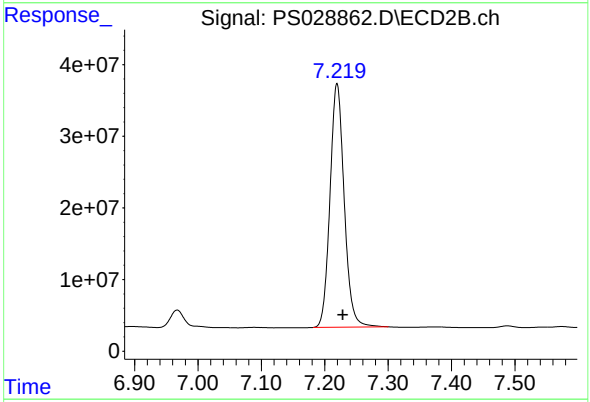
R.T.: 6.653 min
Delta R.T.: -0.007 min
Response: 1071092848
Conc: 646.18 ng/ml



#3 4-Nitrophenol

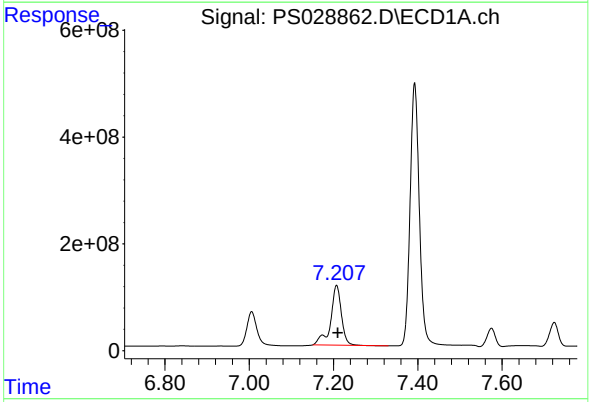
R.T.: 7.006 min
Delta R.T.: -0.003 min
Response: 1060794537
Conc: 706.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



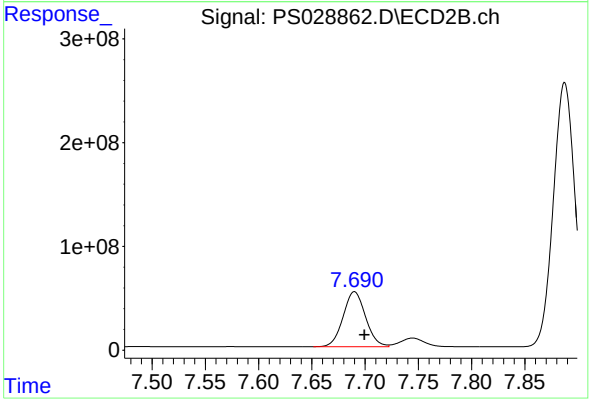
#3 4-Nitrophenol

R.T.: 7.219 min
Delta R.T.: -0.009 min
Response: 530252737
Conc: 633.60 ng/ml



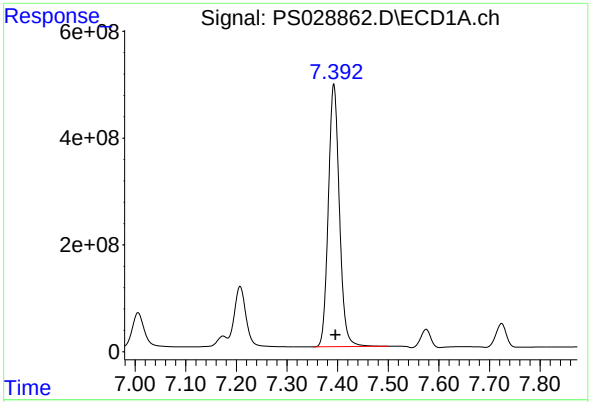
#4 2,4-DCAA

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1979481974
Conc: 875.09 ng/ml



#4 2,4-DCAA

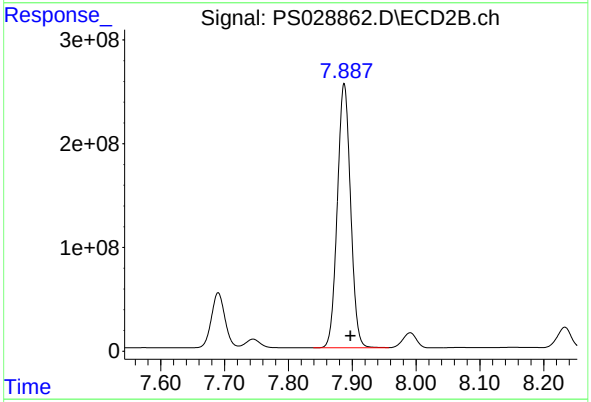
R.T.: 7.690 min
Delta R.T.: -0.009 min
Response: 778435113
Conc: 691.61 ng/ml



#5 DICAMBA

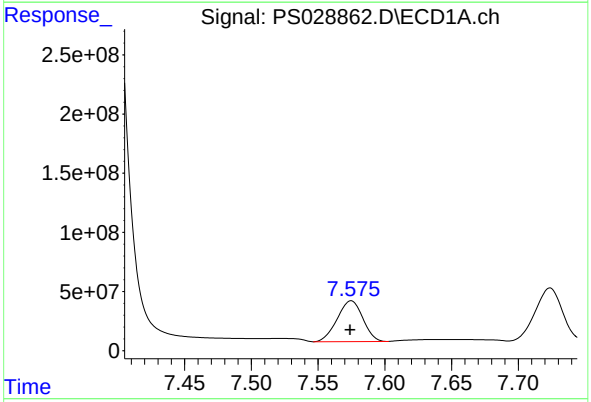
R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7469312380
Conc: 757.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



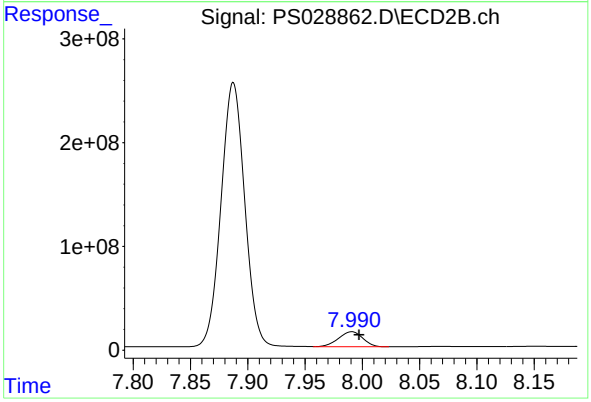
#5 DICAMBA

R.T.: 7.887 min
Delta R.T.: -0.010 min
Response: 3669143340
Conc: 668.35 ng/ml



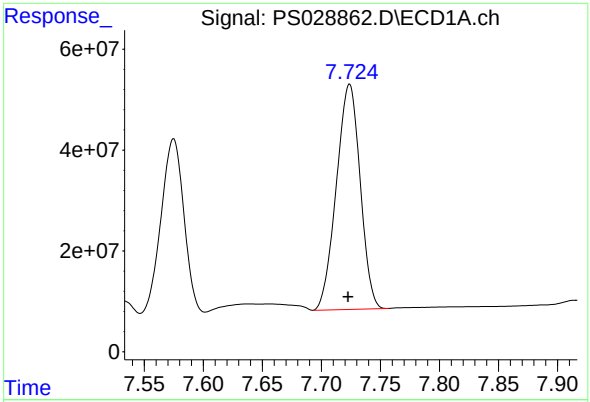
#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.000 min
Response: 460855538
Conc: 74.01 ug/ml



#6 MCPP

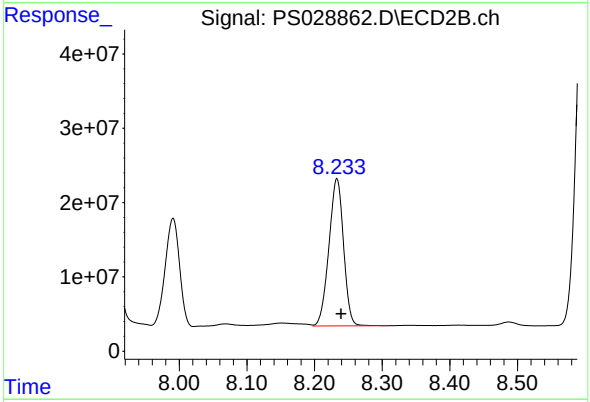
R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 214445806
Conc: 65.62 ug/ml



#7 MCPA

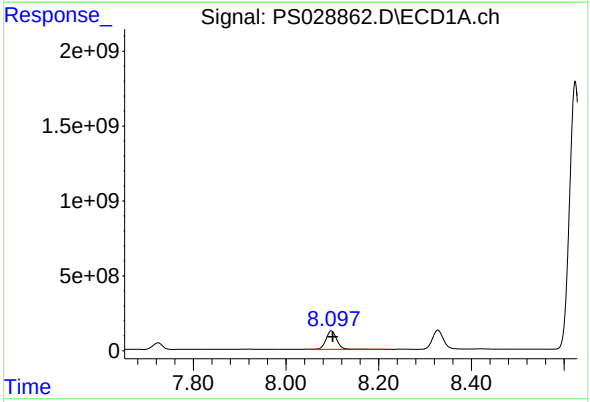
R.T.: 7.724 min
Delta R.T.: 0.001 min
Response: 627020138
Conc: 71.53 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



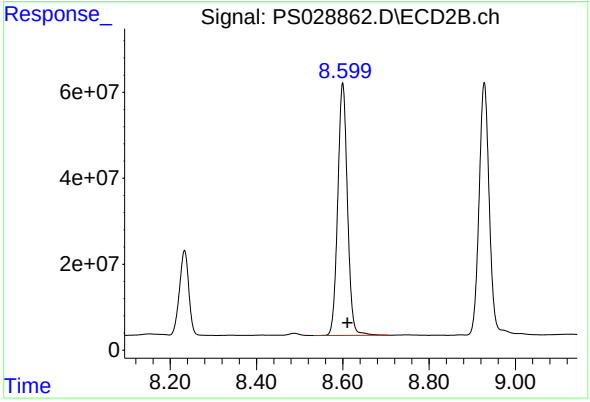
#7 MCPA

R.T.: 8.233 min
Delta R.T.: -0.006 min
Response: 297676124
Conc: 64.25 ug/ml



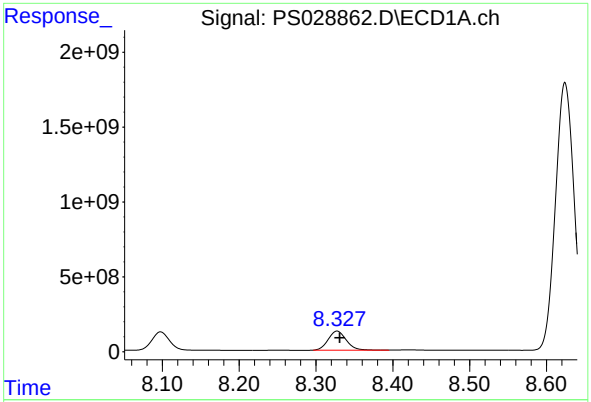
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 1973795948
Conc: 743.94 ng/ml



#8 DICHLORPROP

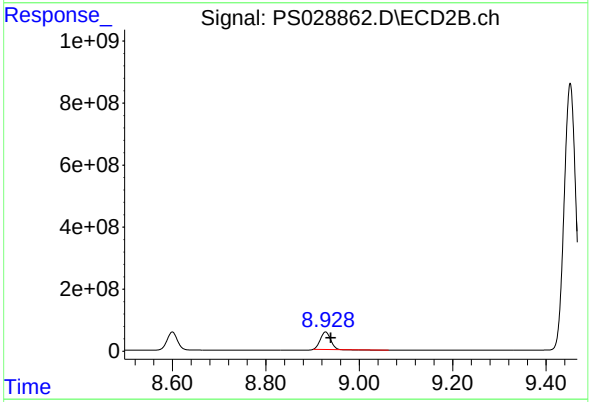
R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 916157951
Conc: 664.05 ng/ml



#9 2,4-D

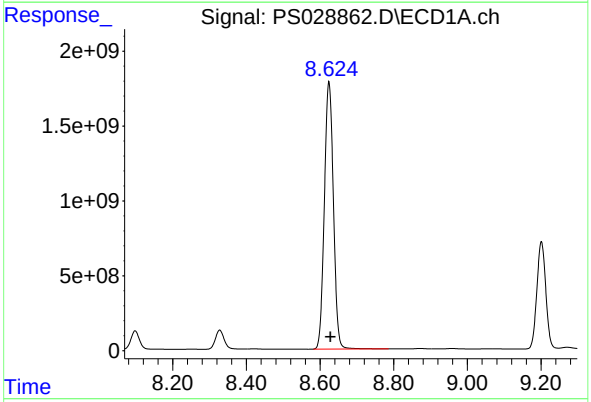
R.T.: 8.327 min
Delta R.T.: -0.004 min
Response: 2078514832
Conc: 729.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



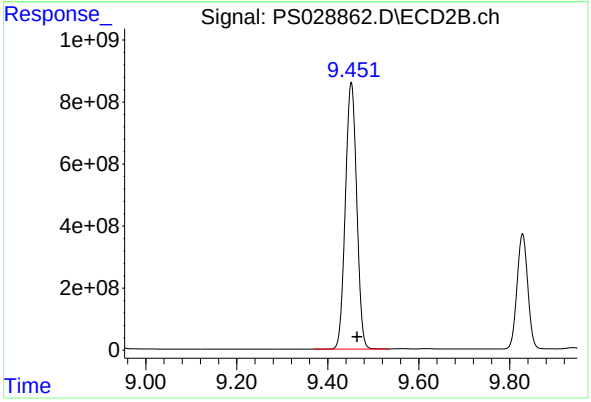
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.011 min
Response: 841217051
Conc: 582.91 ng/ml



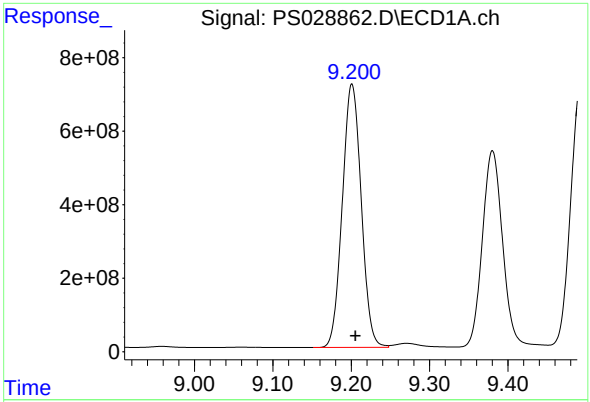
#10 Pentachlorophenol

R.T.: 8.624 min
Delta R.T.: -0.004 min
Response: 30444064610
Conc: 779.28 ng/ml



#10 Pentachlorophenol

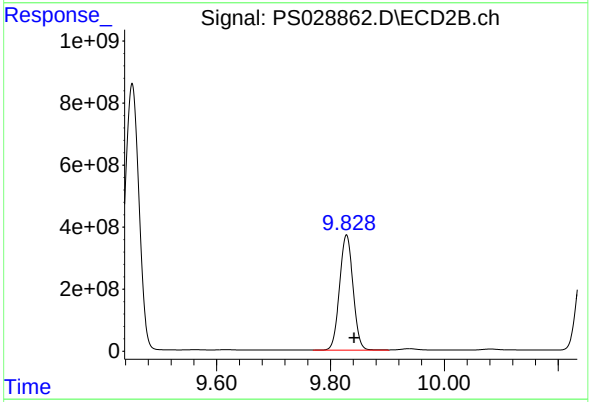
R.T.: 9.452 min
Delta R.T.: -0.013 min
Response: 14903403702
Conc: 683.68 ng/ml



#11 2,4,5-TP (SILVEX)

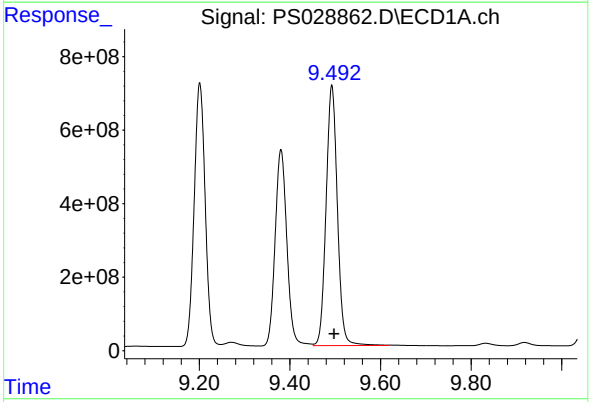
R.T.: 9.201 min
Delta R.T.: -0.004 min
Response: 12021446366
Conc: 765.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



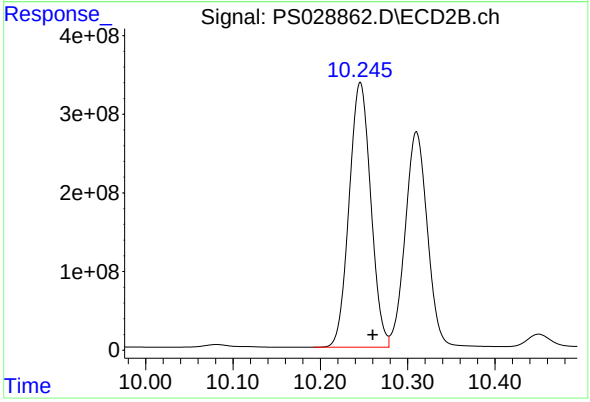
#11 2,4,5-TP (SILVEX)

R.T.: 9.828 min
Delta R.T.: -0.014 min
Response: 6090785383
Conc: 678.00 ng/ml



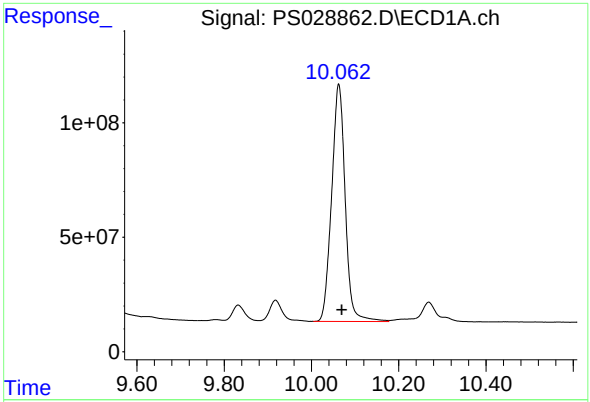
#12 2,4,5-T

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12262499332
Conc: 753.73 ng/ml



#12 2,4,5-T

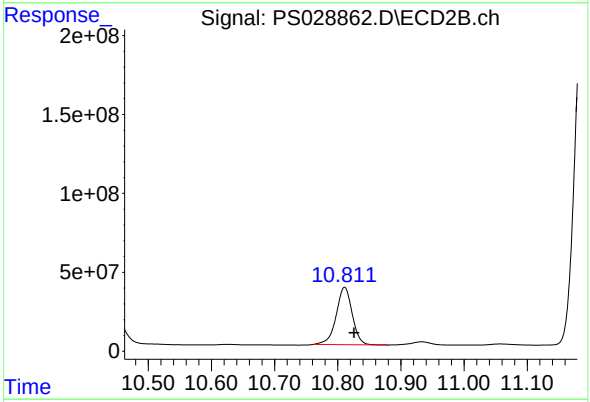
R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5794205419
Conc: 665.30 ng/ml



#13 2,4-DB

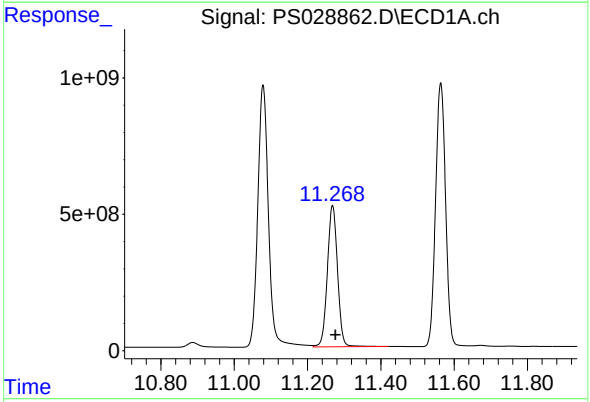
R.T.: 10.063 min
Delta R.T.: -0.007 min
Response: 2237721424
Conc: 716.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



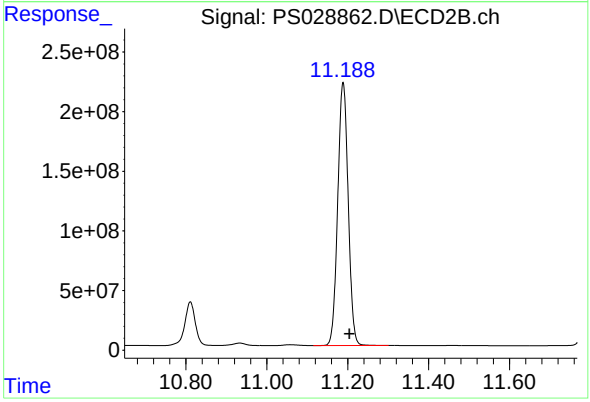
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 639650551
Conc: 658.69 ng/ml



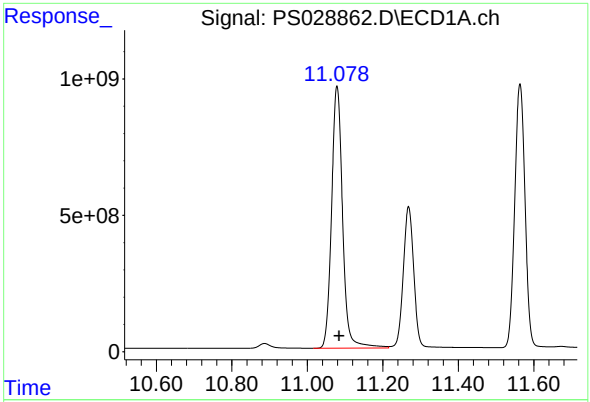
#14 DINOSEB

R.T.: 11.268 min
Delta R.T.: -0.008 min
Response: 9950113581
Conc: 740.24 ng/ml



#14 DINOSEB

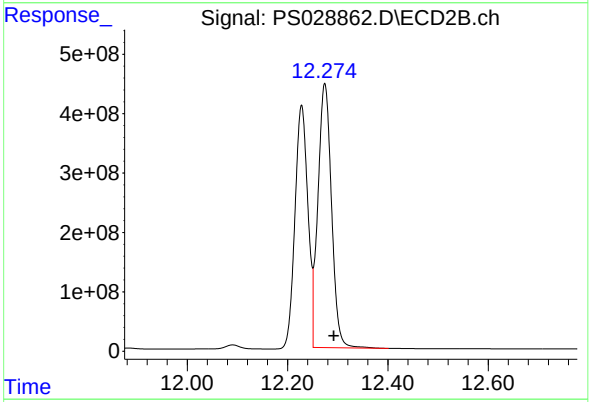
R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 3955750273
Conc: 642.26 ng/ml



#15 Picloram

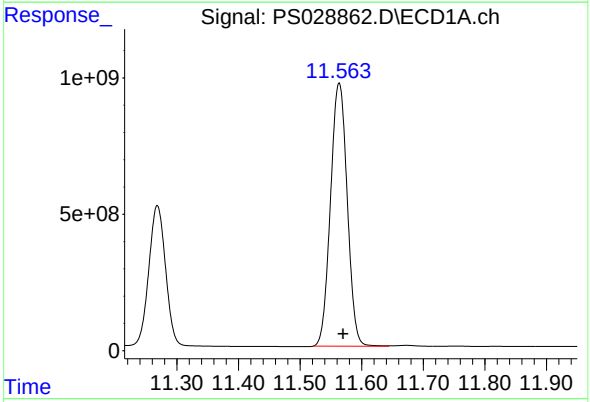
R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19443518996
Conc: 725.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



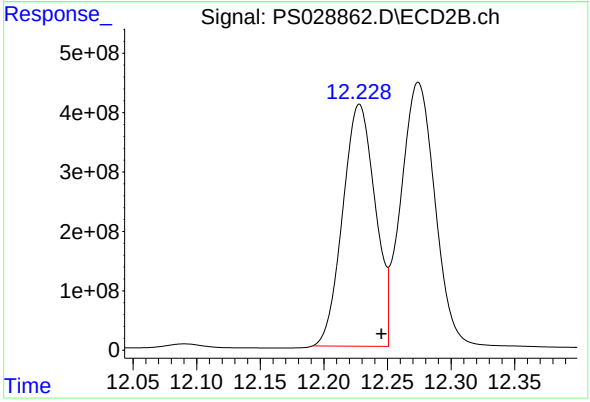
#15 Picloram

R.T.: 12.274 min
Delta R.T.: -0.017 min
Response: 8346811820
Conc: 650.11 ng/ml



#16 DCPA

R.T.: 11.563 min
Delta R.T.: -0.007 min
Response: 18209242157
Conc: 757.11 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.017 min
Response: 7241908168
Conc: 674.01 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:40
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: Jan 01 00:25:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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	7.208	7.691	1818.4E6	797.5E6	803.898	708.534
		Target Compounds						
1)	T	Dalapon	2.621	2.674	1950.3E6	1248.3E6	692.414	634.104
2)	T	3,5-DICHL...	6.383	6.654	2482.4E6	1094.7E6	753.349	660.435
3)	T	4-Nitroph...	7.006	7.220	1087.2E6	545.4E6	723.820	651.747
5)	T	DICAMBA	7.393	7.888	7618.6E6	3756.8E6	772.625	684.316
6)	T	MCPP	7.575	7.991	470.2E6	218.6E6	75.508	66.881
7)	T	MCPA	7.725	8.234	638.9E6	304.3E6	72.891	65.676
8)	T	DICHLORPROP	8.098	8.600	2024.8E6	940.4E6	763.172	681.643
9)	T	2,4-D	8.328	8.928	2138.3E6	863.2E6	750.404	598.159
10)	T	Pentachlo...	8.626	9.452	31097.2E6	15235.9E6	795.998	698.936
11)	T	2,4,5-TP ...	9.202	9.829	12255.3E6	6217.6E6	780.130	692.116
12)	T	2,4,5-T	9.493	10.246	12525.7E6	5915.0E6	769.902	679.174
13)	T	2,4-DB	10.064	10.811	2276.0E6	655.0E6	729.107	674.443
14)	T	DINOSEB	11.269	11.189	10184.7E6	4047.5E6	757.693	657.145
15)	T	Picloram	11.079	12.275	19519.8E6	8392.9E6	728.005	653.705
16)	T	DCPA	11.564	12.228	18581.1E6	7397.9E6	772.570	688.527

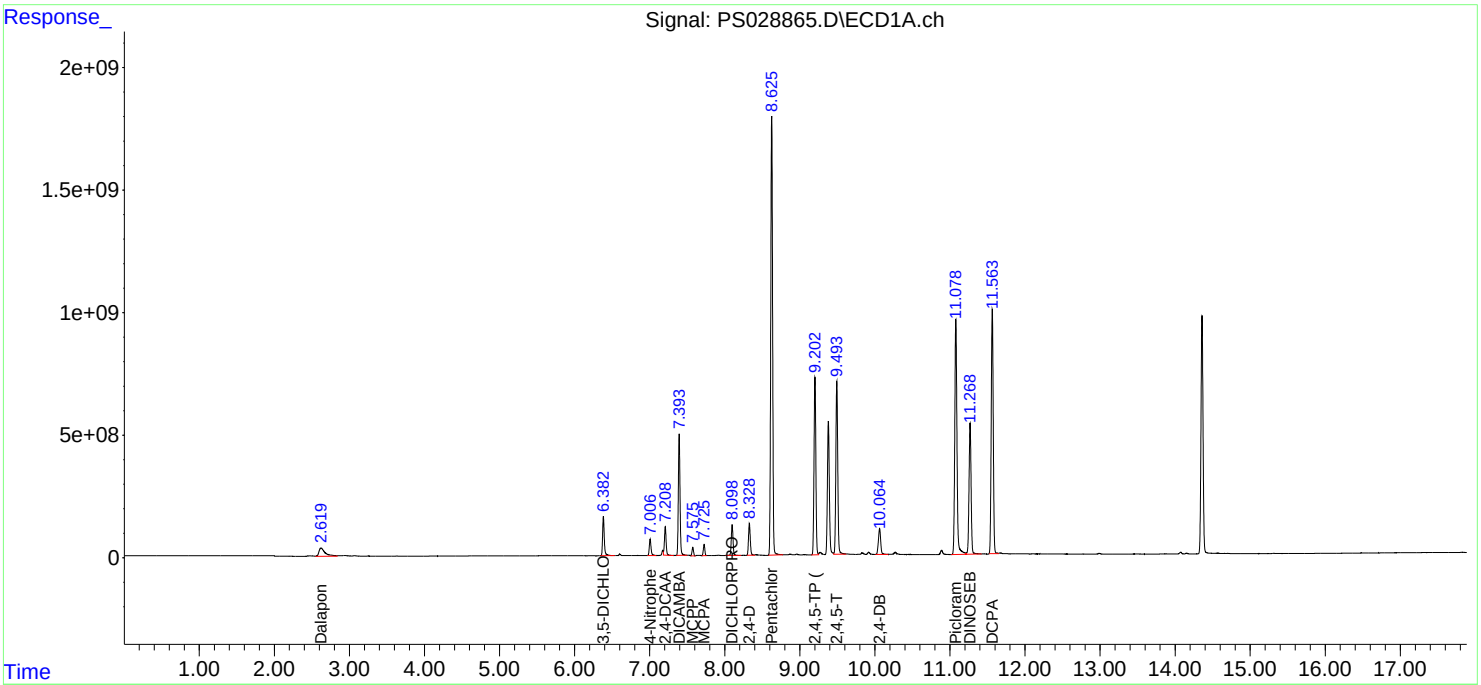
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

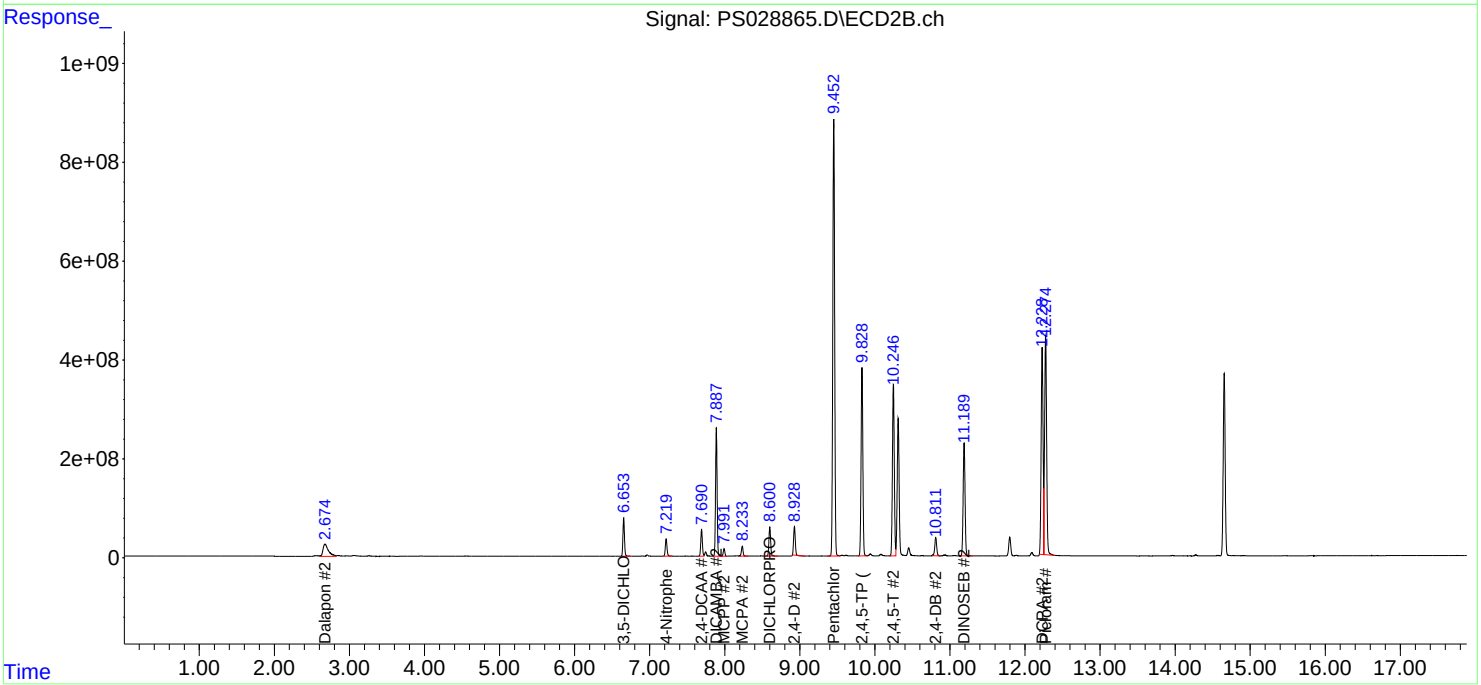
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS123124\
Data File : PS028865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Dec 2024 12:40
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

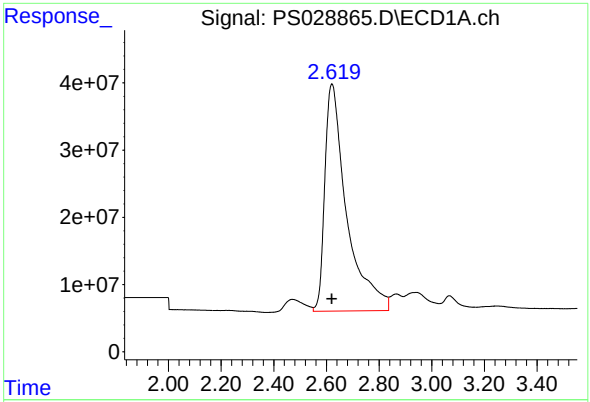
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 01 00:25:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS122324.M
Quant Title : 8080.M
QLast Update : Mon Dec 23 13:44:25 2024
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



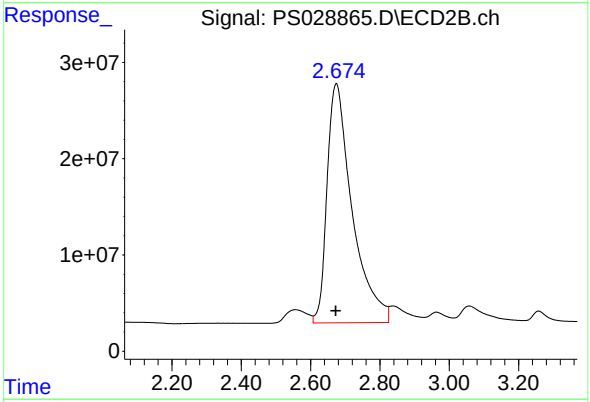




#1 Dalapon

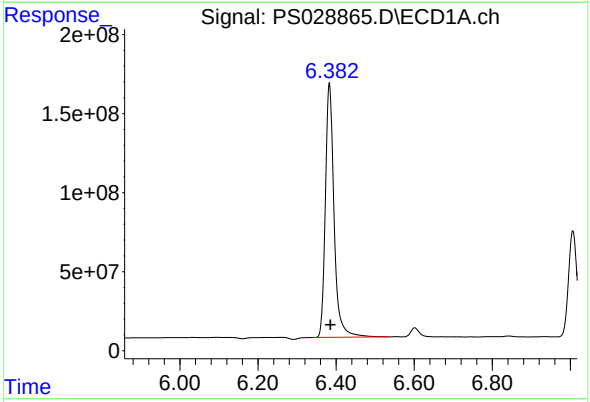
R.T.: 2.621 min
Delta R.T.: 0.000 min
Response: 1950287205
Conc: 692.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



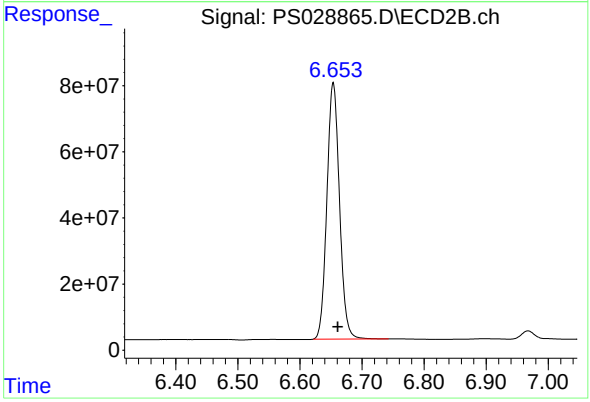
#1 Dalapon

R.T.: 2.674 min
Delta R.T.: 0.002 min
Response: 1248297922
Conc: 634.10 ng/ml



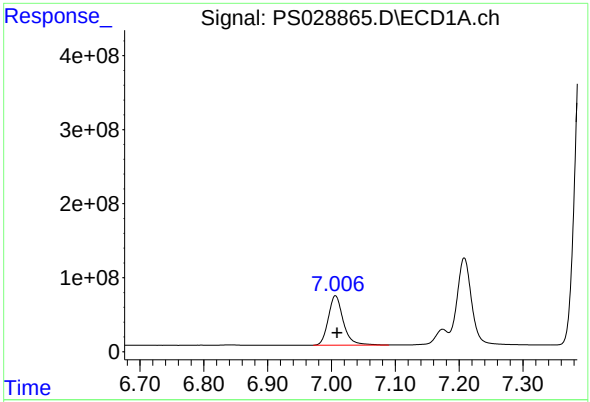
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 2482386054
Conc: 753.35 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

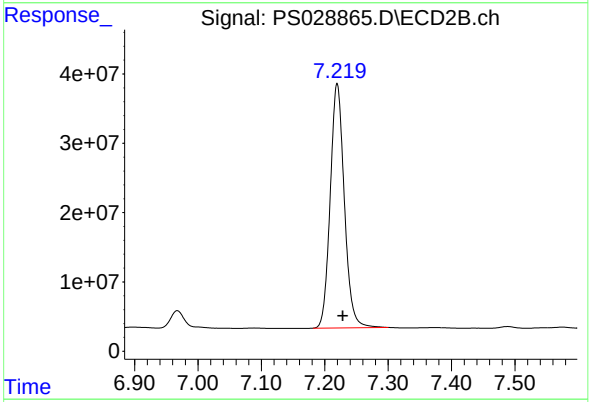
R.T.: 6.654 min
Delta R.T.: -0.007 min
Response: 1094719144
Conc: 660.43 ng/ml



#3 4-Nitrophenol

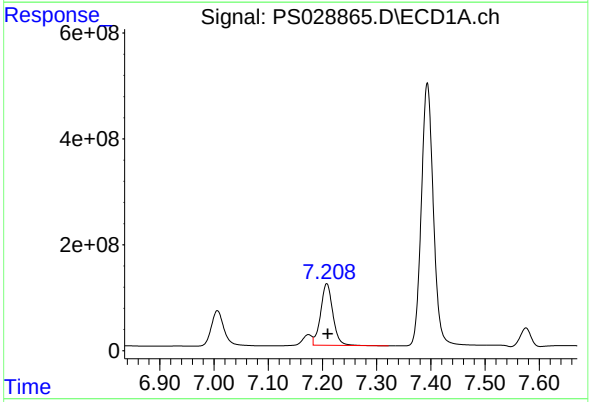
R.T.: 7.006 min
Delta R.T.: -0.002 min
Response: 1087220215
Conc: 723.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



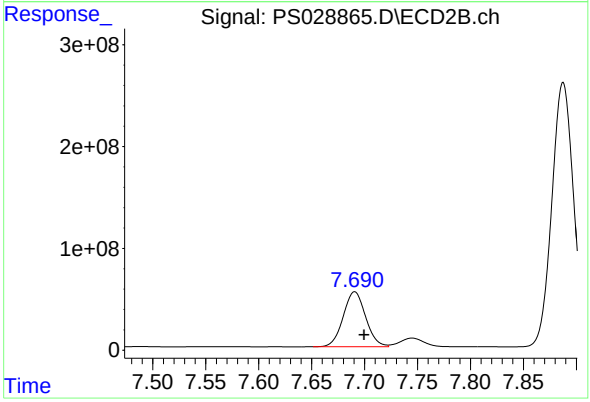
#3 4-Nitrophenol

R.T.: 7.220 min
Delta R.T.: -0.009 min
Response: 545442736
Conc: 651.75 ng/ml



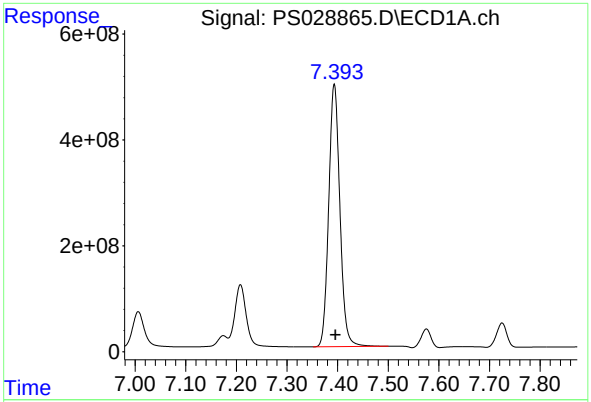
#4 2,4-DCAA

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 1818438306
Conc: 803.90 ng/ml



#4 2,4-DCAA

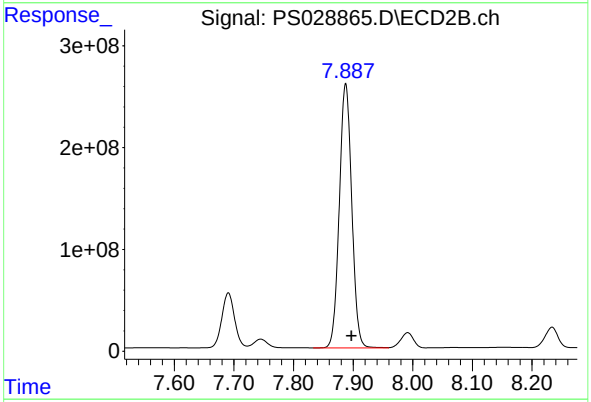
R.T.: 7.691 min
Delta R.T.: -0.009 min
Response: 797481442
Conc: 708.53 ng/ml



#5 DICAMBA

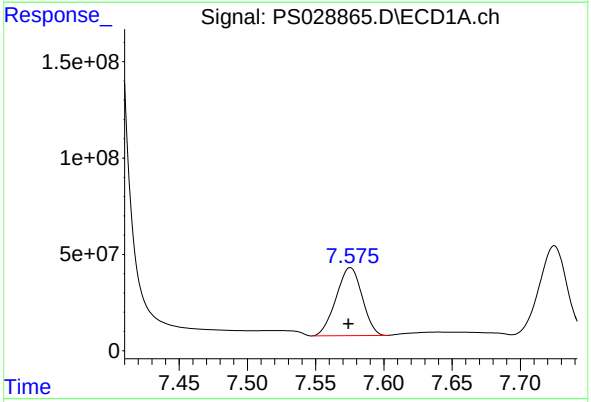
R.T.: 7.393 min
Delta R.T.: -0.003 min
Response: 7618578843
Conc: 772.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



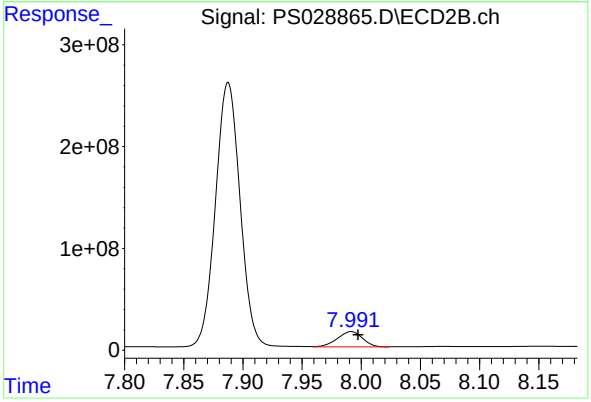
#5 DICAMBA

R.T.: 7.888 min
Delta R.T.: -0.010 min
Response: 3756806000
Conc: 684.32 ng/ml



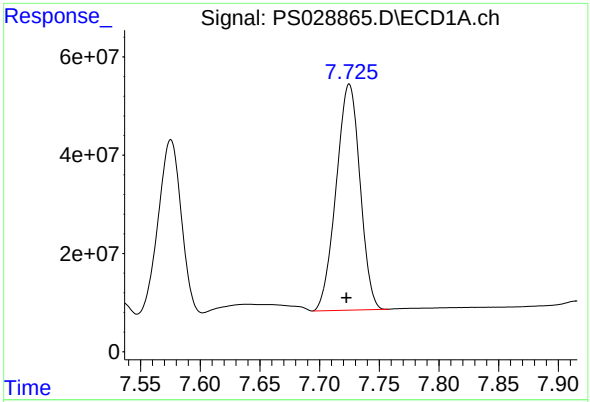
#6 MCPP

R.T.: 7.575 min
Delta R.T.: 0.001 min
Response: 470201653
Conc: 75.51 ug/ml



#6 MCPP

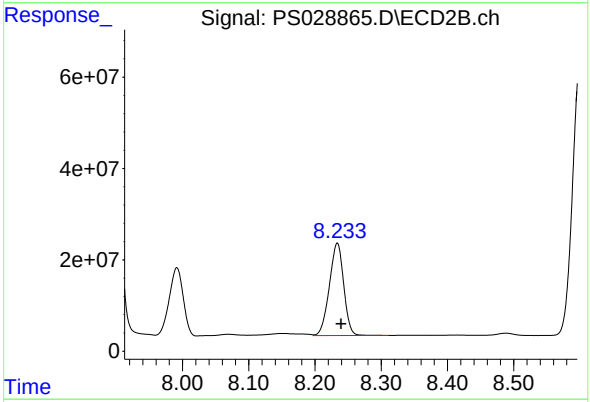
R.T.: 7.991 min
Delta R.T.: -0.006 min
Response: 218554368
Conc: 66.88 ug/ml



#7 MCPA

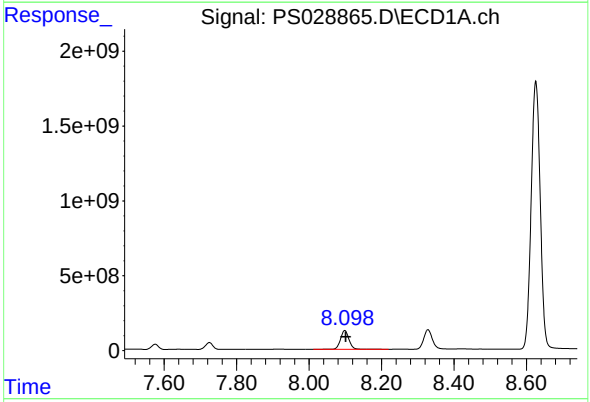
R.T.: 7.725 min
Delta R.T.: 0.002 min
Response: 638921719
Conc: 72.89 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



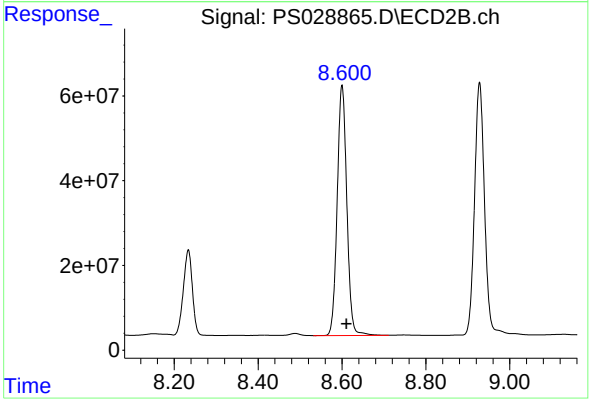
#7 MCPA

R.T.: 8.234 min
Delta R.T.: -0.006 min
Response: 304268403
Conc: 65.68 ug/ml



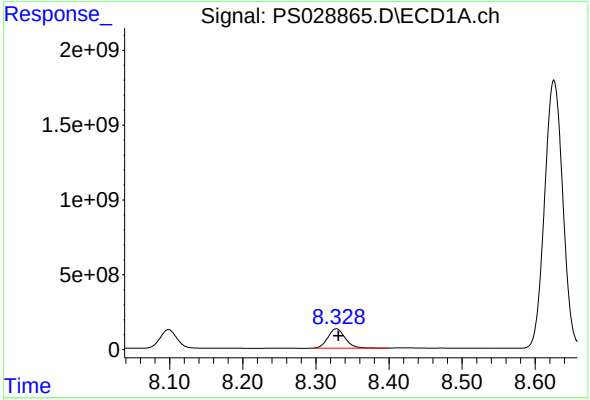
#8 DICHLORPROP

R.T.: 8.098 min
Delta R.T.: -0.003 min
Response: 2024830431
Conc: 763.17 ng/ml



#8 DICHLORPROP

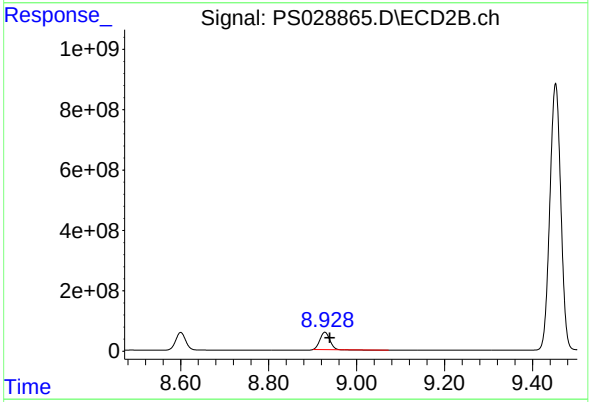
R.T.: 8.600 min
Delta R.T.: -0.011 min
Response: 940434238
Conc: 681.64 ng/ml



#9 2,4-D

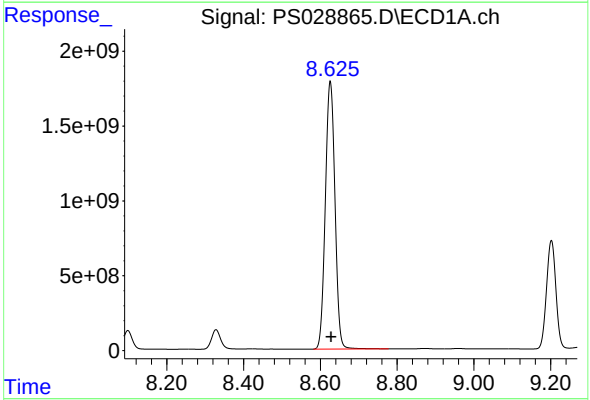
R.T.: 8.328 min
Delta R.T.: -0.003 min
Response: 2138302178
Conc: 750.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



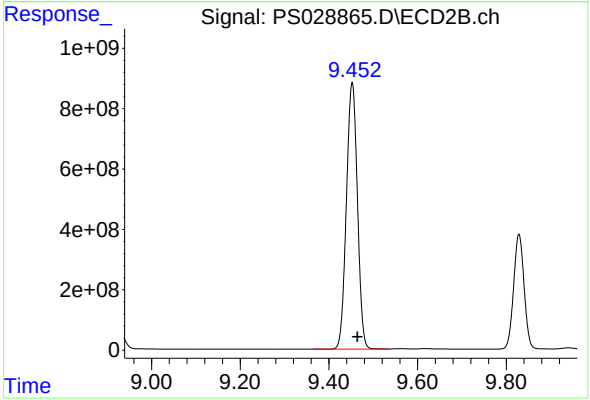
#9 2,4-D

R.T.: 8.928 min
Delta R.T.: -0.011 min
Response: 863230341
Conc: 598.16 ng/ml



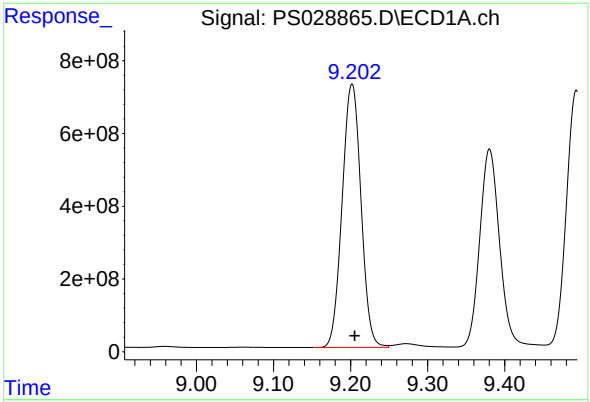
#10 Pentachlorophenol

R.T.: 8.626 min
Delta R.T.: -0.002 min
Response: 31097234817
Conc: 796.00 ng/ml



#10 Pentachlorophenol

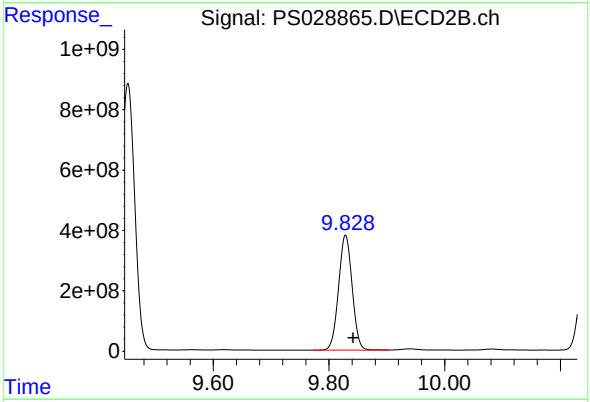
R.T.: 9.452 min
Delta R.T.: -0.012 min
Response: 15235899256
Conc: 698.94 ng/ml



#11 2,4,5-TP (SILVEX)

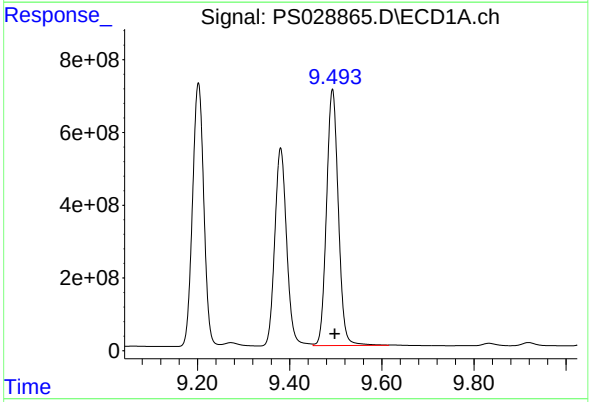
R.T.: 9.202 min
Delta R.T.: -0.004 min
Response: 12255318570
Conc: 780.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



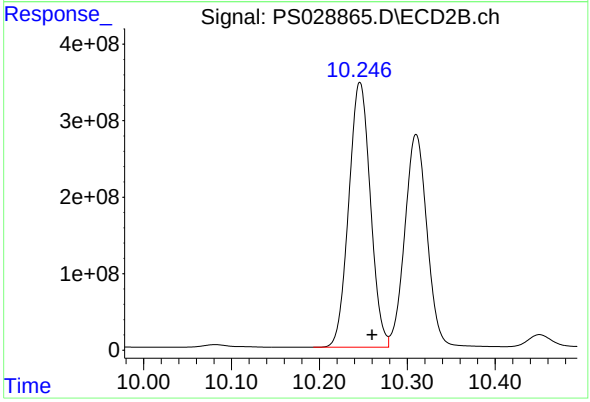
#11 2,4,5-TP (SILVEX)

R.T.: 9.829 min
Delta R.T.: -0.013 min
Response: 6217636956
Conc: 692.12 ng/ml



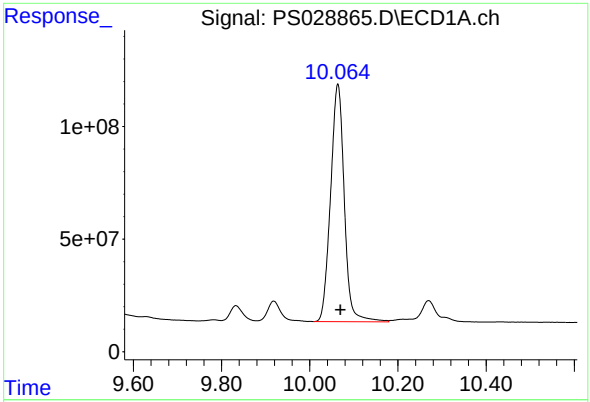
#12 2,4,5-T

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 12525679677
Conc: 769.90 ng/ml



#12 2,4,5-T

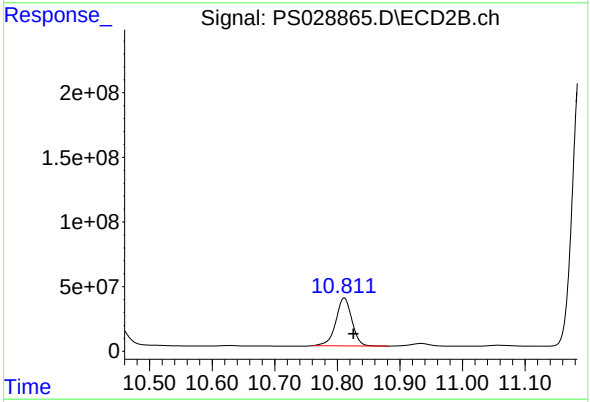
R.T.: 10.246 min
Delta R.T.: -0.014 min
Response: 5915049507
Conc: 679.17 ng/ml



#13 2,4-DB

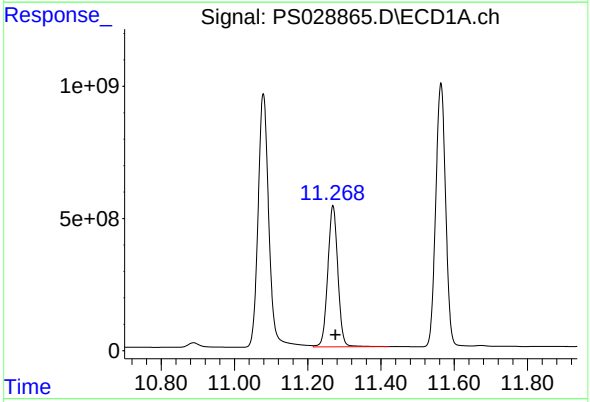
R.T.: 10.064 min
Delta R.T.: -0.006 min
Response: 2275979756
Conc: 729.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



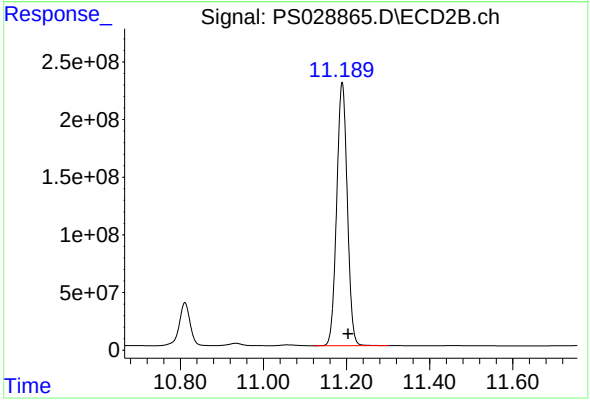
#13 2,4-DB

R.T.: 10.811 min
Delta R.T.: -0.015 min
Response: 654950053
Conc: 674.44 ng/ml



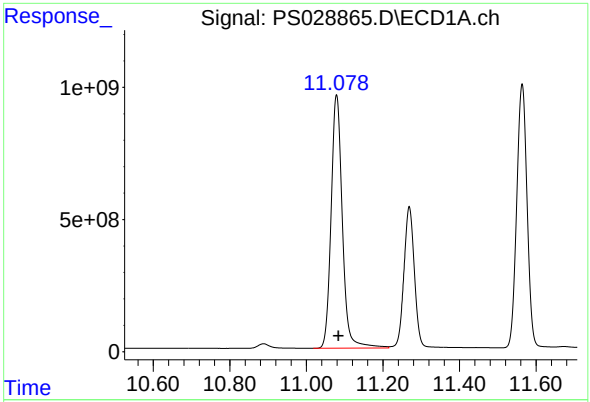
#14 DINOSEB

R.T.: 11.269 min
Delta R.T.: -0.007 min
Response: 10184697401
Conc: 757.69 ng/ml



#14 DINOSEB

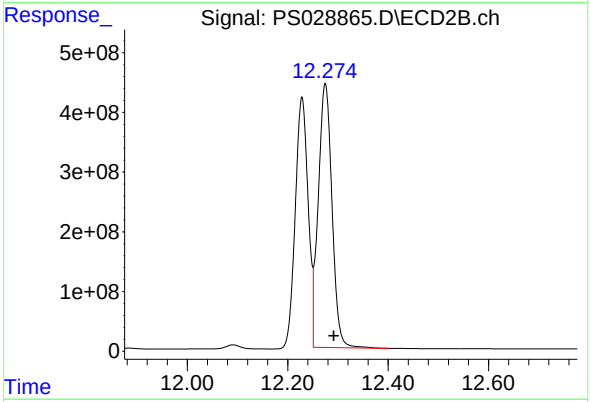
R.T.: 11.189 min
Delta R.T.: -0.015 min
Response: 4047451149
Conc: 657.14 ng/ml



#15 Picloram

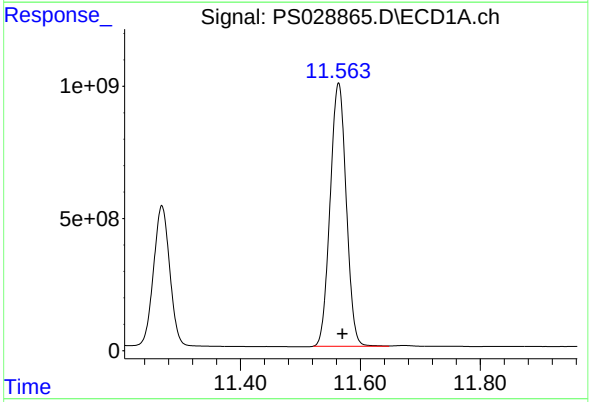
R.T.: 11.079 min
Delta R.T.: -0.005 min
Response: 19519842955
Conc: 728.01 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



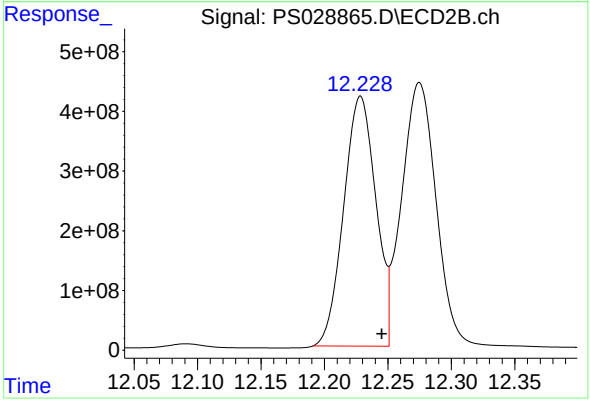
#15 Picloram

R.T.: 12.275 min
Delta R.T.: -0.017 min
Response: 8392924351
Conc: 653.70 ng/ml



#16 DCPA

R.T.: 11.564 min
Delta R.T.: -0.006 min
Response: 18581112395
Conc: 772.57 ng/ml



#16 DCPA

R.T.: 12.228 min
Delta R.T.: -0.017 min
Response: 7397935760
Conc: 688.53 ng/ml