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

# DATA PACKAGE

## GC SEMI-VOLATILES

**PROJECT NAME : RFP 905A**

**WESTON SOLUTIONS, INC.**

**1090 King Georges Post Road**

**Suite 201**

**Edison, NJ - 08837-3703**

**Phone No: 732-585-4410**

**ORDER ID : Q2641**

**ATTENTION : Smita Sumbaly**

**Laboratory Certification ID # 20012**

Alliance TECHNICAL GROUP

# Table Of Contents for Q2641

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# Cover Page

**Order ID :** Q2641

**Project ID :** RFP 905A

**Client :** Weston Solutions, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2641-01 | P001-CONCRETE001-01 |
| Q2641-02 | P001-CONCRETE001-01 |

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 : **APPROVED**
*By Sohil Jodhani, QA/QC Director at 9:54 am, Jul 31, 2025*

Date: 7/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Weston Solutions, Inc.**
**Project Name: RFP 905A**
**Project # N/A**
**Order ID # Q2641**
**Test Name: TCLP Herbicide**

**A. Number of Samples and Date of Receipt:**
1 Solid sample was received on 07/18/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: TCLP Herbicide. 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 #: 11324. The 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 were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q2641-02MS} with File ID: PS031234.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)155% - 2,4,5-TP(Silvex)(2)153%] and [2,4-D(1)161% - 2,4-D(2)172%] due to matrix interference.

The MSD {Q2641-02MSD} with File ID: PS031235.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)148% - 2,4,5-TP(Silvex)(2)145%] and [2,4-D(1)152% - 2,4-D(2)162%]due to matrix interference.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

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**E. Additional Comments:**

**F. Calculation for water sample:**

$$ug/l = \frac{(Ax)\ (Vt)\ (MW)}{(ICF)\ (Vi)\ (Vs)} \times DF$$

Where:
Ax = Area for the parameter to be measured.
ICF = average calibration factor for the calibration standards.
Vt = Volume of total extract in uL (Take into account dilutions)
Is = Amount of standard injected in nanograms (ng)
Vi = Volume of extract injected.
Vs = Volume of Aqueous extracted (mL).
MW = molecular weight of the compound

**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 APPROVED
*By Sohil Jodhani, QA/QC Director at 9:54 am, Jul 31, 2025*

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## 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:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 |

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## GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2641 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.<br><br>The Initial Calibration met the requirements.<br><br>The Continuous Calibration met the requirements | | | ✓ |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 5. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | ✓ |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br><br>The MS {Q2641-02MS} with File ID: PS031234.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)155% - 2,4,5-TP(Silvex)(2)153%] and [2,4-D(1)161% - 2,4-D(2)172%] due to matrix interference.<br><br>The MSD {Q2641-02MSD} with File ID: PS031235.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)148% - 2,4,5-TP(Silvex)(2)145%] and [2,4-D(1)152% - 2,4-D(2)162%]due to matrix interference.<br><br>The Blank Spike met requirements for all compounds.<br><br>The RPD were met for all analysis. | | ✓ | |
| 7. | Retention Time Shift Meet Criteria (if applicable)<br><br>Comments: | | | ✓ |
| 8. | Extraction Holding Time Met<br><br>If not met, list number of days exceeded for each sample: | | | ✓ |

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## 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:

QA REVIEW

**APPROVED**
*By Sohil Jodhani, QA/QC Director at 9:54 am, Jul 31, 2025*

Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2641

| | 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:** 07/29/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2641 | **OrderDate:** | 7/18/2025 10:44:13 AM |
| **Client:** | Weston Solutions, Inc. | **Project:** | RFP 905A |
| **Contact:** | Smita Sumbaly | **Location:** | O22 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2641-01** | **P001-CONCRETE001-01** | **SOIL** | | | **07/16/25** | | | **07/18/25** |
| | | | PCB | 8082A | | 07/21/25 | 07/21/25 | |
| **Q2641-02** | **P001-CONCRETE001-01** | **TCLP** | | | **07/16/25** | | | **07/18/25** |
| | | | TCLP Herbicide | 8151A | | 07/23/25 | 07/24/25 | |
| | | | TCLP Pesticide | 8081B | | 07/23/25 | 07/24/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2641 **Order ID:** Q2641

**Client:** Weston Solutions, Inc. **Project ID:** RFP 905A

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

**Client ID :**

**Total Concentration:** **0.000**

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** Q2641

**Client:** Weston Solutions, Inc.

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS031156.D | PIBLK-PS031156.D | 2,4-DCAA | 1 | 500 | 397 | 79 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 504 | 101 | | 61 | 136 |
| I.BLK-PS031221.D | PIBLK-PS031221.D | 2,4-DCAA | 1 | 500 | 415 | 83 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 492 | 98 | | 61 | 136 |
| Q2641-02 | P001-CONCRETE001-01 | 2,4-DCAA | 1 | 500 | 307 | 61 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 420 | 84 | | 61 | 136 |
| I.BLK-PS031232.D | PIBLK-PS031232.D | 2,4-DCAA | 1 | 500 | 412 | 82 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 491 | 98 | | 61 | 136 |
| Q2641-02MS | P001-CONCRETE001-01MS | 2,4-DCAA | 1 | 500 | 452 | 90 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 499 | 100 | | 61 | 136 |
| Q2641-02MSD | P001-CONCRETE001-01MSD | 2,4-DCAA | 1 | 500 | 418 | 84 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 463 | 93 | | 61 | 136 |
| PB169001BL | PB169001BL | 2,4-DCAA | 1 | 500 | 407 | 81 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 473 | 95 | | 61 | 136 |
| PB169001BS | PB169001BS | 2,4-DCAA | 1 | 500 | 488 | 98 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 501 | 100 | | 61 | 136 |
| PB168919TB | PB168919TB | 2,4-DCAA | 1 | 500 | 630 | 126 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 511 | 102 | | 61 | 136 |
| I.BLK-PS031242.D | PIBLK-PS031242.D | 2,4-DCAA | 1 | 500 | 422 | 84 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 498 | 100 | | 61 | 136 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2641 **Analytical Method:** 8151A

**Client:** Weston Solutions, Inc. **DataFile :** PS031234.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2641-02MS (Column 1)** | **Client Sample ID:** | | **P001-CONCRETE001-01M** | | | | | | | | |
| | 2,4-D | 50 | 0 | 80.3 | ug/L | 161 | * | | | 65 | 135 | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 77.7 | ug/L | 155 | * | | | 62 | 139 | |
| **Lab Sample ID:** | **Q2641-02MS (Column 2)** | **Client Sample ID:** | | **P001-CONCRETE001-01M** | | | | | | | | |
| | 2,4-D | 50 | 0 | 86.2 | ug/L | 172 | * | | | 65 | 135 | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 76.7 | ug/L | 153 | * | | | 62 | 139 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2641 **Analytical Method:** 8151A

**Client:** Weston Solutions, Inc. **DataFile :** PS031235.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2641-02MSD (Column 1)** | **Client Sample ID:** | | **P001-CONCRETE001-01M** | | | | | | | | |
| | 2,4-D | 50 | 0 | 76.2 | ug/L | 152 | * | 6 | | 65 | 135 | 20 |
| | 2,4,5-TP(Silvex) | 50 | 0 | 73.8 | ug/L | 148 | * | 5 | | 62 | 139 | 20 |
| **Lab Sample ID:** | **Q2641-02MSD (Column 2)** | **Client Sample ID:** | | **P001-CONCRETE001-01M** | | | | | | | | |
| | 2,4-D | 50 | 0 | 80.9 | ug/L | 162 | * | 6 | | 65 | 135 | 20 |
| | 2,4,5-TP(Silvex) | 50 | 0 | 72.7 | ug/L | 145 | * | 5 | | 62 | 139 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2641 **Analytical Method:** 8151A

**Client:** Weston Solutions, Inc. **Datafile :** PS031237.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169001BS (Column 1) | 2,4-D | 5 | 6.00 | ug/L | 120 | | | | 83 | 130 | |
| | 2,4,5-TP(Silvex) | 5 | 5.60 | ug/L | 112 | | | | 78 | 127 | |
| PB169001BS (Column 2) | 2,4-D | 5 | 5.50 | ug/L | 110 | | | | 83 | 130 | |
| | 2,4,5-TP(Silvex) | 5 | 5.30 | ug/L | 106 | | | | 78 | 127 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB169001BL

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q2641

Lab Sample ID: PB169001BL | Lab File ID: PS031236.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/23/2025

Date Analyzed (1): 07/24/2025 | Date Analyzed (2): 07/24/2025

Time Analyzed (1): 19:52 | Time Analyzed (2): 19:52

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 |
|---|---|---|---|---|
| P001-CONCRETE001-01 | Q2641-02 | PS031231.D | 07/24/2025 | 07/24/2025 |
| P001-CONCRETE001-01MS | Q2641-02MS | PS031234.D | 07/24/2025 | 07/24/2025 |
| P001-CONCRETE001-01MSD | Q2641-02MSD | PS031235.D | 07/24/2025 | 07/24/2025 |
| PB169001BS | PB169001BS | PS031237.D | 07/24/2025 | 07/24/2025 |
| PB168919TB | PB168919TB | PS031238.D | 07/24/2025 | 07/24/2025 |

COMMENTS:

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 905A | Date Received: | 07/23/25 |
| Client Sample ID: | PB168919TB | SDG No.: | Q2641 |
| Lab Sample ID: | PB168919TB | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031238.D | 1 | 07/23/25 11:45 | 07/24/25 20:40 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 630 | | 61 - 136 | 126% | 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\PS072425\
Data File : PS031238.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 20:40
Operator : AR\AJ
Sample : PB168919TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB168919TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:45:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.319 | 7.764 | 2738.0E6 | 518.3E6 | 629.683 | 510.657 |
| | Target Compounds | | | | | | |

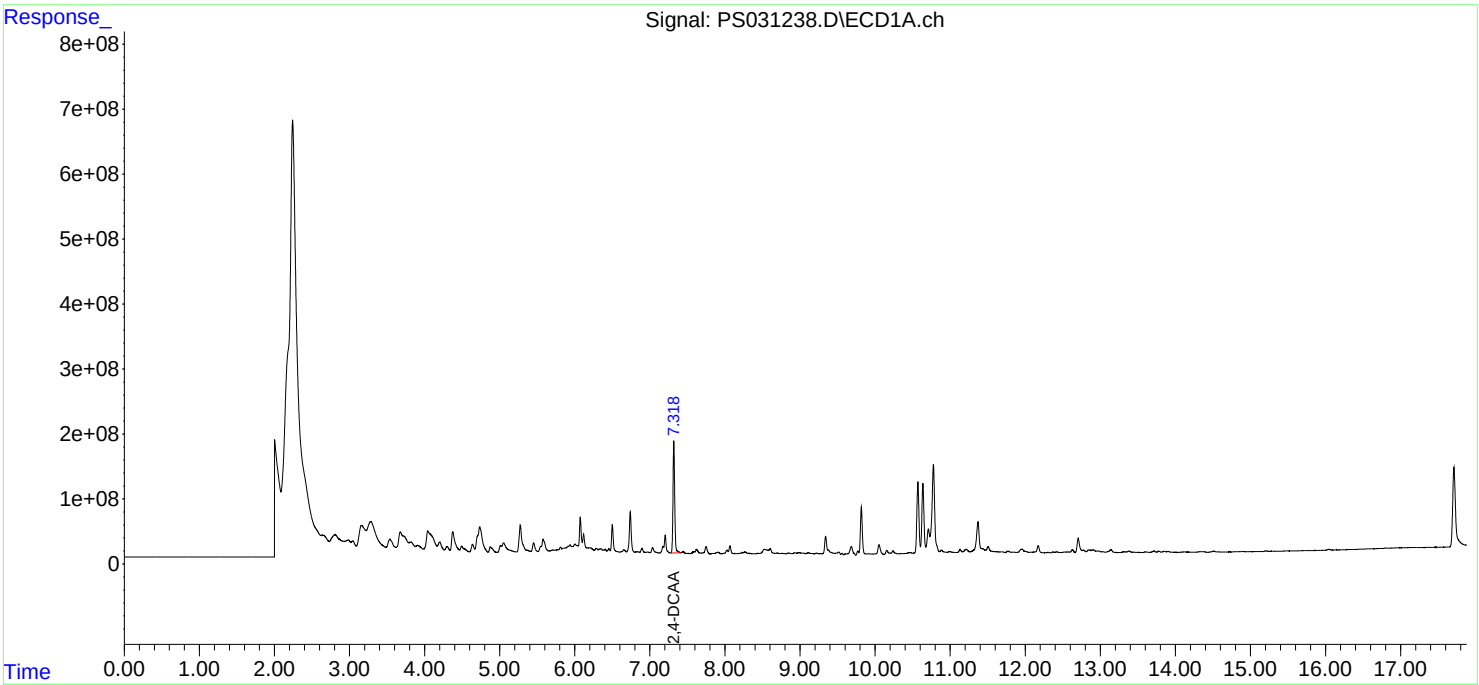
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

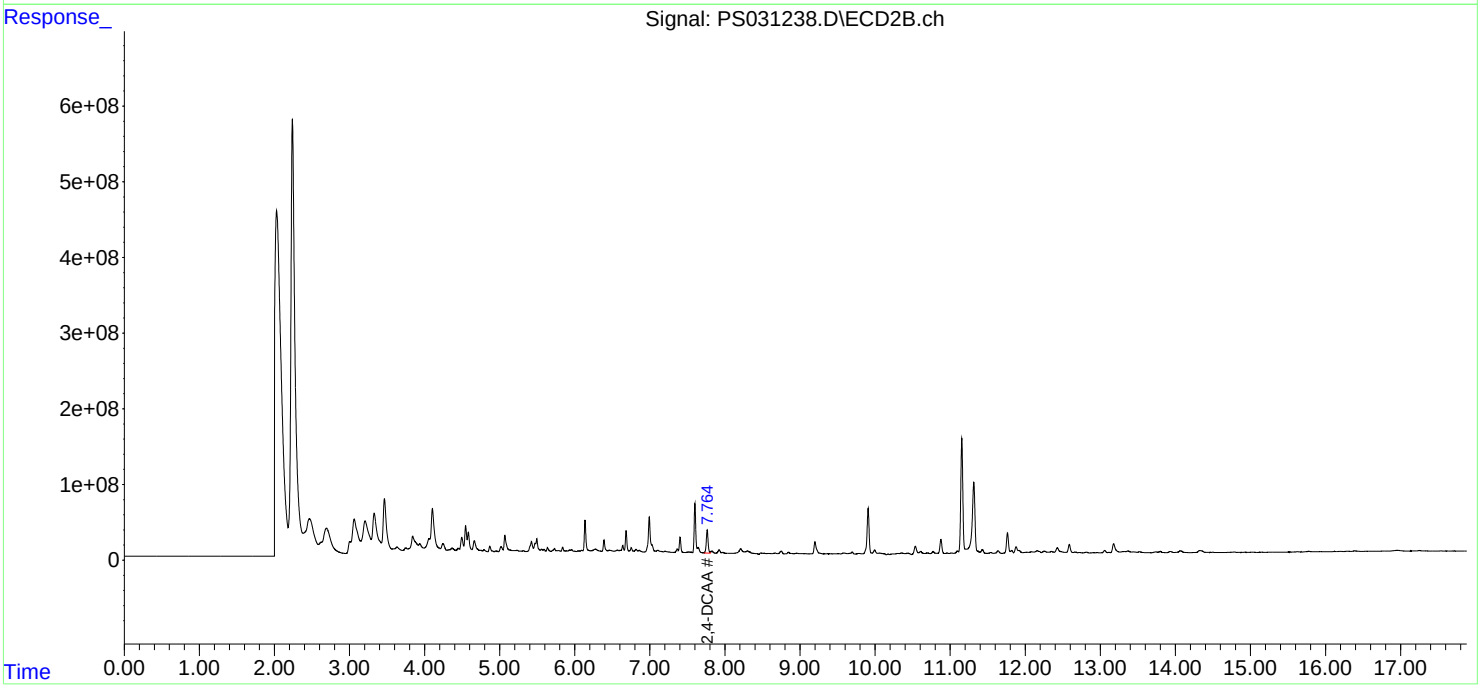
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031238.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 20:40
Operator : AR\AJ
Sample : PB168919TB
Misc :
ALS Vial : 17 Sample Multiplier: 1

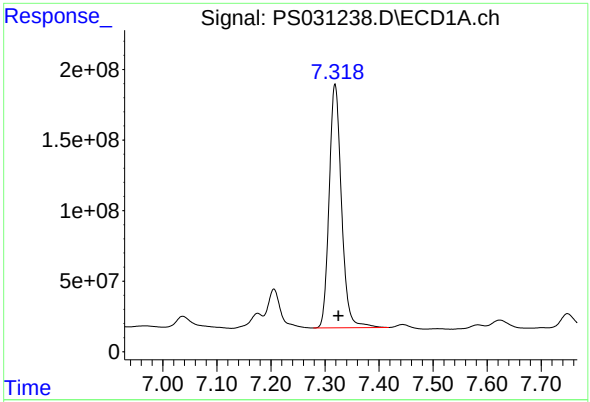
**Instrument :**
ECD_S
**ClientSampleId :**
PB168919TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:45:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



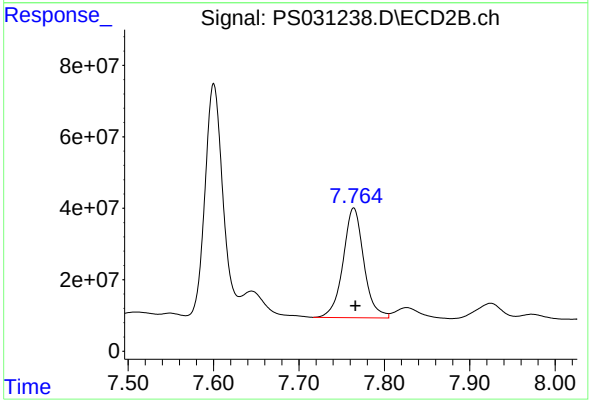






#4 2,4-DCAA

R.T.: 7.319 min
Delta R.T.: -0.006 min
Response: 2738019484
Conc: 629.68 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB168919TB




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 518300827
Conc: 510.66 ng/ml

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/16/25 |
| Project: | RFP 905A | Date Received: | 07/18/25 |
| Client Sample ID: | P001-CONCRETE001-01 | SDG No.: | Q2641 |
| Lab Sample ID: | Q2641-02 | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031231.D | 1 | 07/23/25 11:45 | 07/24/25 17:03 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 9.20 | U | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 7.80 | U | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 420 | | 61 - 136 | 84% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 17:03
Operator : AR\AJ
Sample : Q2641-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:07:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.319 | 7.764 | 1336.7E6 | 426.2E6 | 307.417 | 419.940 # |
| | Target Compounds | | | | | | |

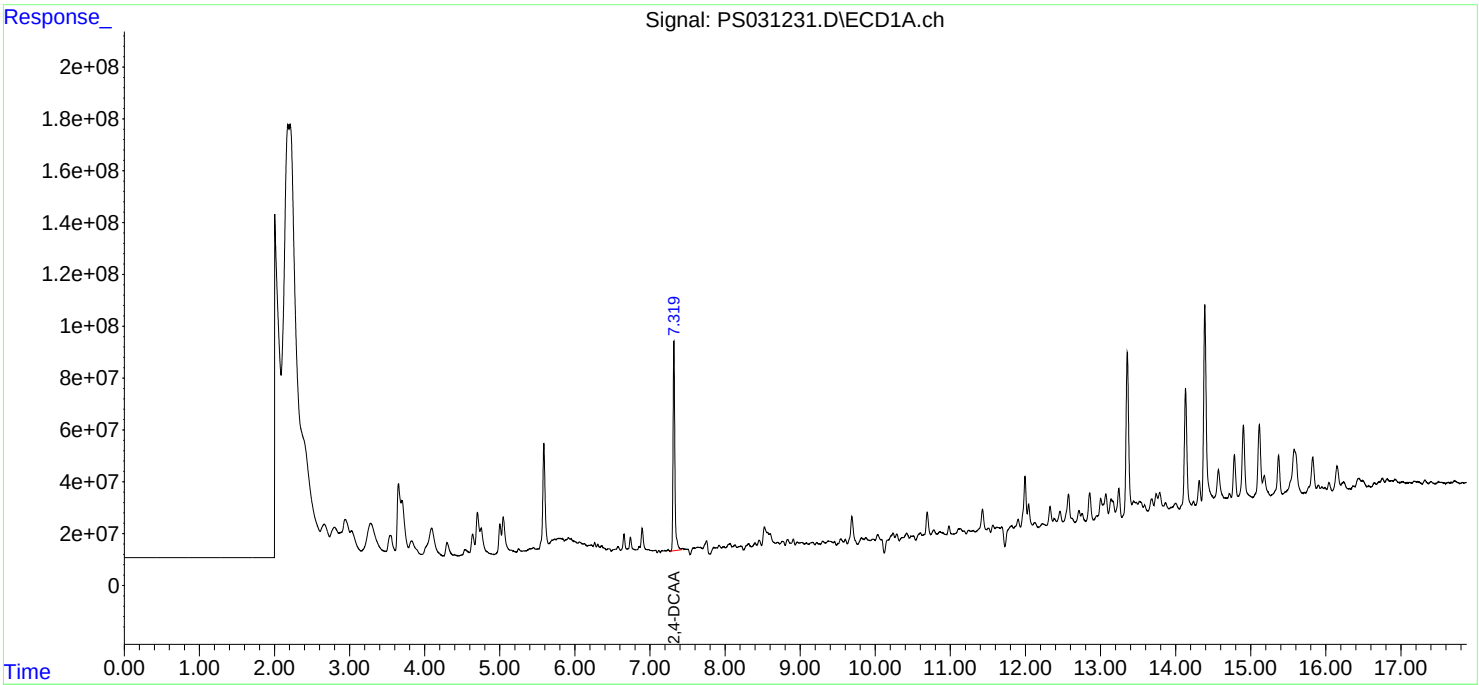
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

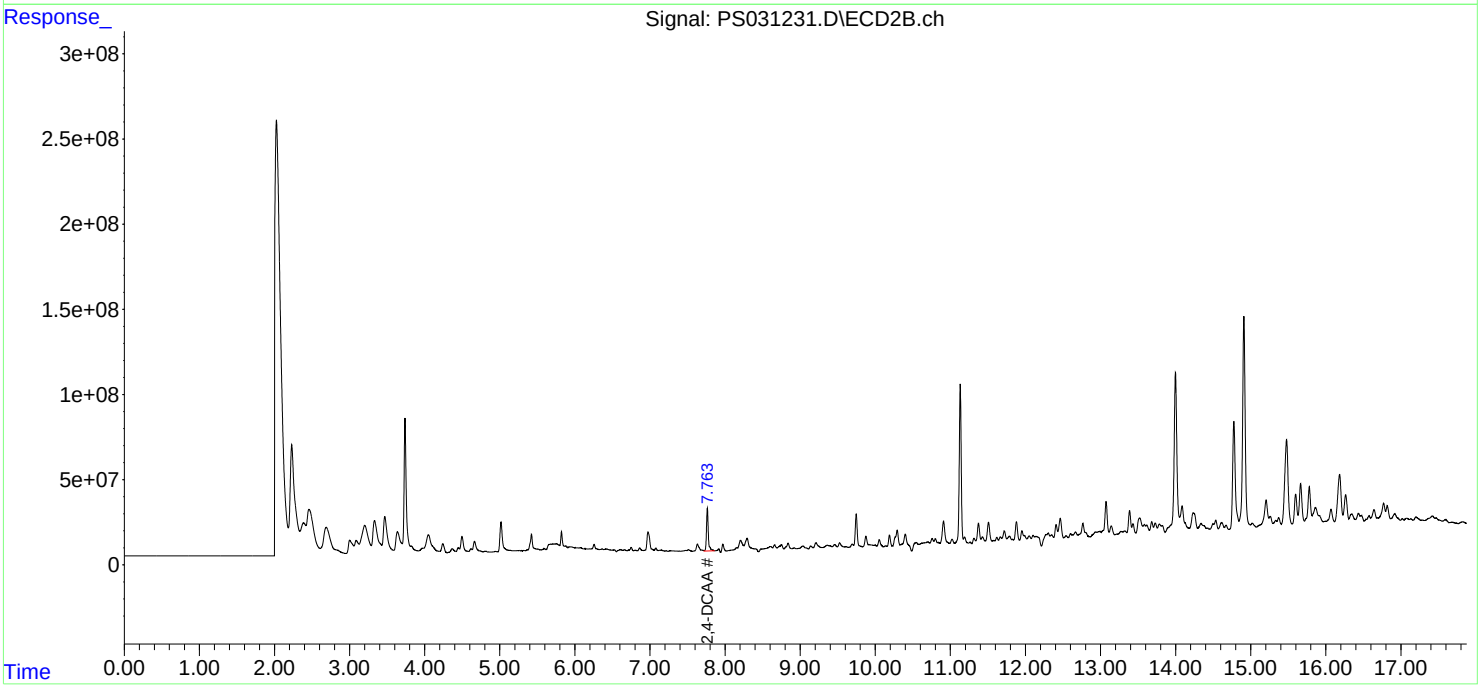
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 17:03
Operator : AR\AJ
Sample : Q2641-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

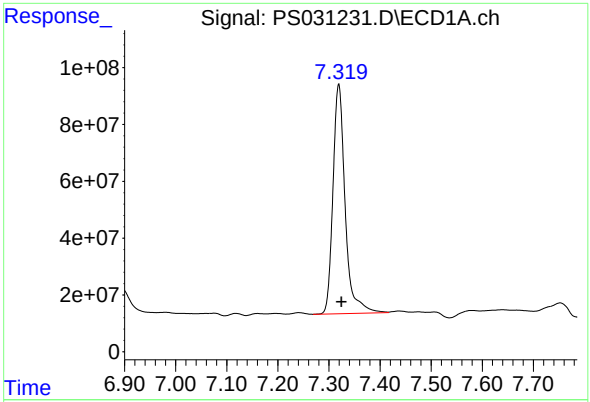
**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:07:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



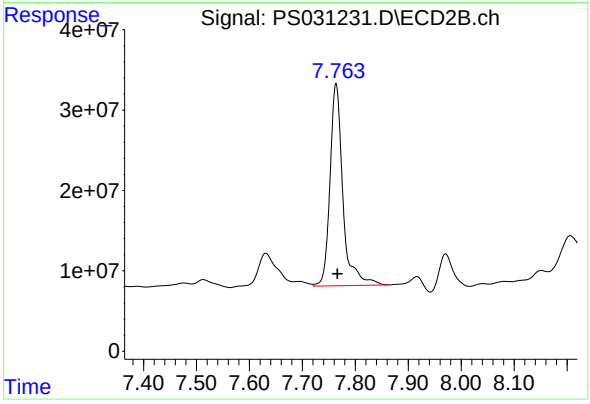






#4 2,4-DCAA

R.T.: 7.319 min
Delta R.T.: -0.005 min
Response: 1336728939
Conc: 307.42 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 426225882
Conc: 419.94 ng/ml

# CALIBRATION SUMMARY

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S
**Contract:** ROYF02
**SDG NO.:** Q2641
**Calibration Date(s):** 07/21/2025 07/21/2025
**Calibration Times:** 15:02 16:39

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

**LAB FILE ID:** RT 200 = PS031157.D RT 500 = PS031158.D
RT 750 = PS031159.D RT 1000 = PS031160.D RT 1500 = PS031161.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) | 9.34 | 9.34 | 9.34 | 9.34 | 9.34 | 9.34 | 9.24 | 9.44 |
| 2,4-D | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.36 | 8.56 |
| 2,4-DCAA | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.23 | 7.43 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Instrument ID:** ECD_S **Calibration Date(s):** 07/21/2025 07/21/2025

**Calibration Times:** 15:02 16:39

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

**LAB FILE ID:** RT 200 = PS031157.D RT 500 = PS031158.D

RT 750 = PS031159.D RT 1000 = PS031160.D RT 1500 = PS031161.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) | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.93 | 9.83 | 10.03 |
| 2,4-D | 9.03 | 9.03 | 9.02 | 9.03 | 9.02 | 9.03 | 8.93 | 9.13 |
| 2,4-DCAA | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.77 | 7.67 | 7.87 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S

**Contract:** ROYF02
**SDG NO.:** Q2641
**Calibration Date(s):** 07/21/2025 07/21/2025
**Calibration Times:** 15:02 16:39

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

**LAB FILE ID:** CF 200 = PS031157.D CF 500 = PS031158.D
CF 750 = PS031159.D CF 1000 = PS031160.D CF 1500 = PS031161.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 24592600000 | 22780000000 | 21638700000 | 20857200000 | 19899400000 | 21953600000 | 8 |
| 2,4-D | 4193860000 | 3820730000 | 3654460000 | 3552490000 | 3453030000 | 3734920000 | 8 |
| 2,4-DCAA | 5091100000 | 4403340000 | 4248720000 | 4081100000 | 3917010000 | 4348250000 | 10 |

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Fax : 908 789 8922

## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S

**Contract:** ROYF02
**SDG NO.:** Q2641
**Calibration Date(s):** 07/21/2025 07/21/2025
**Calibration Times:** 15:02 16:39

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

**LAB FILE ID:** CF 200 = PS031157.D CF 500 = PS031158.D
CF 750 = PS031159.D CF 1000 = PS031160.D CF 1500 = PS031161.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 16137400000 | 15454900000 | 14840900000 | 14348100000 | 13689700000 | 14894200000 | 6 |
| 2,4-D | 1930260000 | 1742600000 | 1656200000 | 1604210000 | 1558320000 | 1698320000 | 9 |
| 2,4-DCAA | 1147310000 | 1039810000 | 988394000 | 963101000 | 936229000 | 1014970000 | 8 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:02
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: Jul 22 03:09:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.326 | 7.768 | 1018.2E6 | 229.5E6 | 239.653 | 232.155 |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.687 | 2.705 | 1249.0E6 | 569.9E6 | 201.812 | 204.583 |
| 2) T | 3,5-DICHL... | 6.488 | 6.715 | 1193.9E6 | 320.5E6 | 222.298 | 215.115 |
| 3) T | 4-Nitroph... | 7.126 | 7.303 | 335.6E6 | 347.8E6 | 209.026 | 194.908 |
| 5) T | DICAMBA | 7.514 | 7.968 | 3423.2E6 | 1271.2E6 | 210.405 | 198.102 |
| 6) T | MCPP | 7.692 | 8.063 | 154.0E6 | 34811617 | 14.961 | 16.279 |
| 7) T | MCPA | 7.841 | 8.311 | 215.4E6 | 57174138 | 17.126 | 18.096 |
| 8) T | DICHLORPROP | 8.226 | 8.689 | 851.7E6 | 328.0E6 | 231.204 | 222.621 |
| 9) T | 2,4-D | 8.459 | 9.027 | 788.4E6 | 362.9E6 | 215.749 | 219.109 |
| 10) T | Pentachlo... | 8.764 | 9.547 | 12562.1E6 | 8086.5E6 | 219.208 | 202.357 |
| 11) T | 2,4,5-TP ... | 9.343 | 9.930 | 4672.6E6 | 3066.1E6 | 215.937 | 206.598 |
| 12) T | 2,4,5-T | 9.638 | 10.358 | 3901.2E6 | 2914.7E6 | 199.977 | 205.894 |
| 13) T | 2,4-DB | 10.215 | 10.925 | 587.5E6 | 240.7E6 | 198.311 | 208.016 |
| 14) T | DINOSEB | 11.428 | 11.308 | 3210.0E6 | 2260.5E6 | 208.197 | 201.011 |
| 15) T | Picloram | 11.242 | 12.422 | 3638.6E6 | 4580.3E6 | 180.740 | 180.371 |
| 16) T | DCPA | 11.725 | 12.352 | 6177.1E6 | 4718.4E6 | 218.100 | 203.744 |

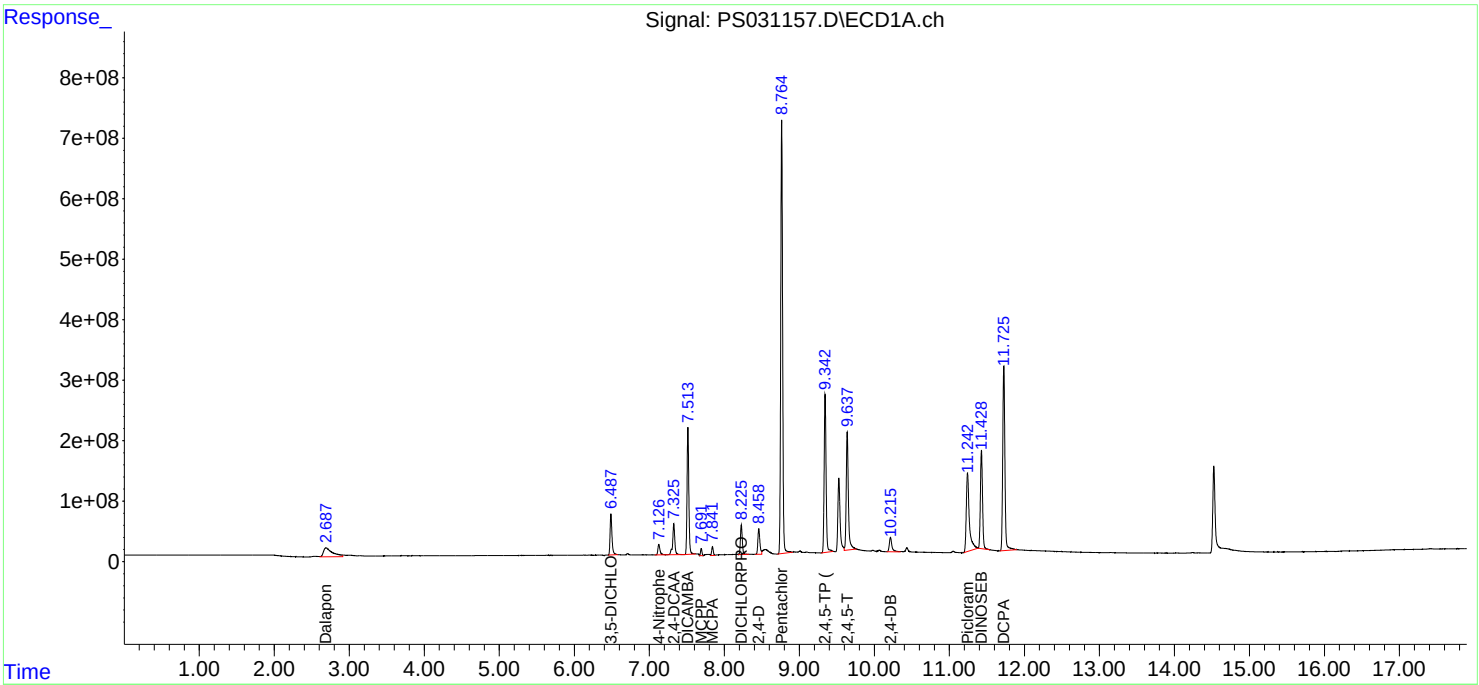
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

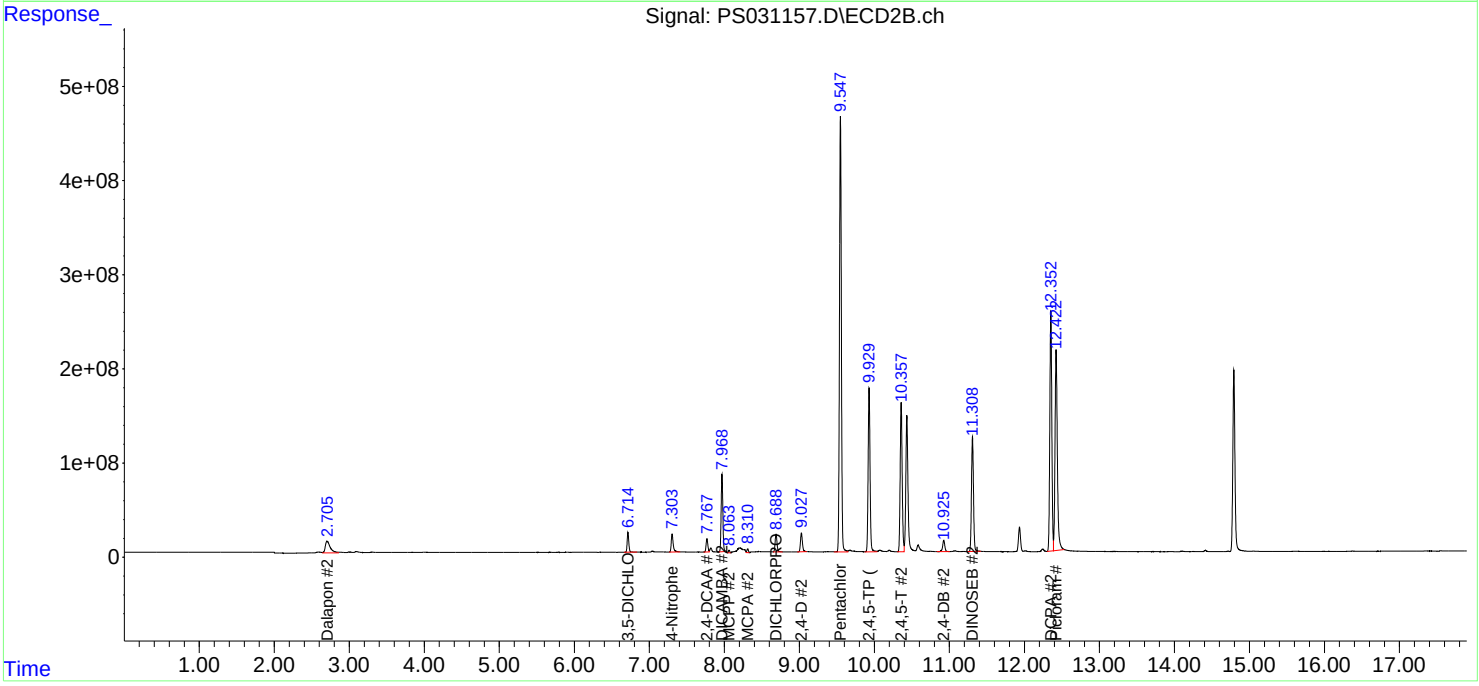
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:02
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

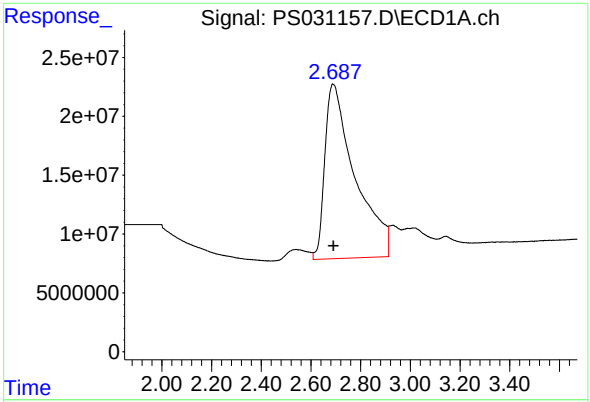
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:09:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



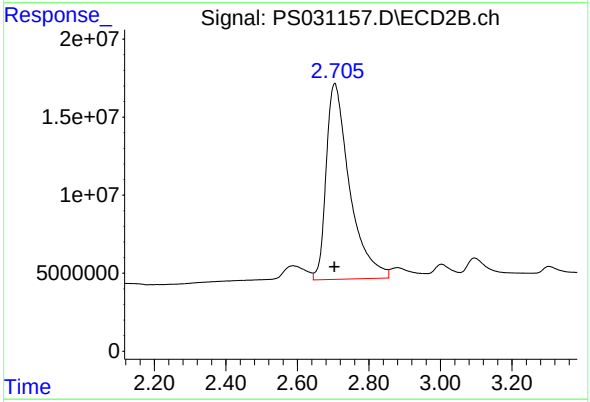






#1 Dalapon

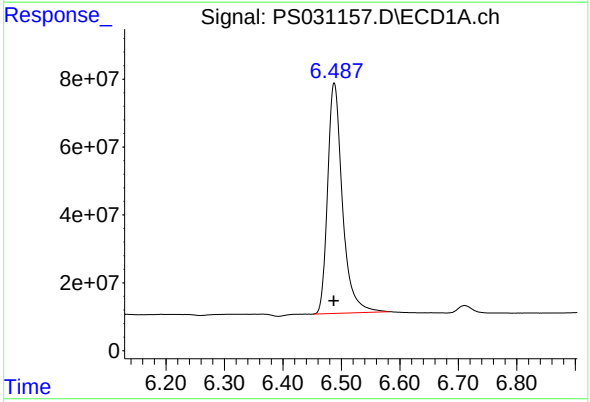
R.T.: 2.687 min
Delta R.T.: -0.003 min
Response: 1249018178
Conc: 201.81 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



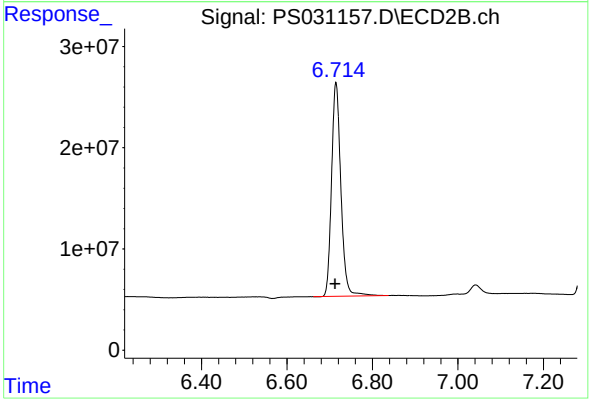

#1 Dalapon

R.T.: 2.705 min
Delta R.T.: 0.001 min
Response: 569934475
Conc: 204.58 ng/ml



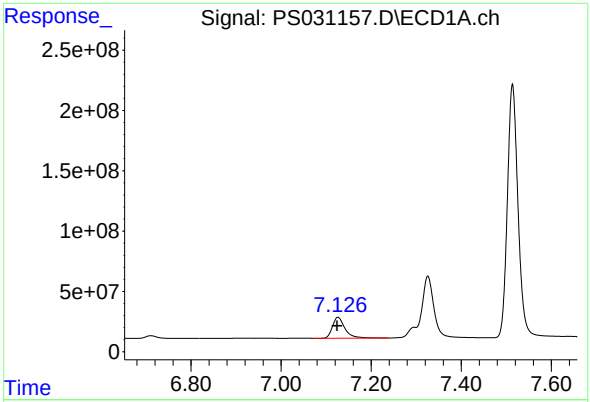

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.488 min
Delta R.T.: 0.000 min
Response: 1193926937
Conc: 222.30 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

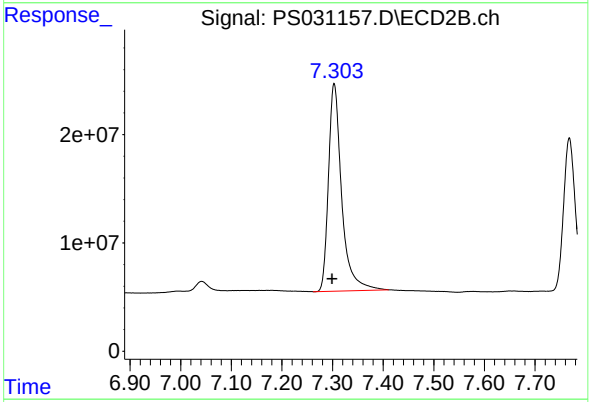
R.T.: 6.715 min
Delta R.T.: 0.002 min
Response: 320502490
Conc: 215.12 ng/ml




#3 4-Nitrophenol

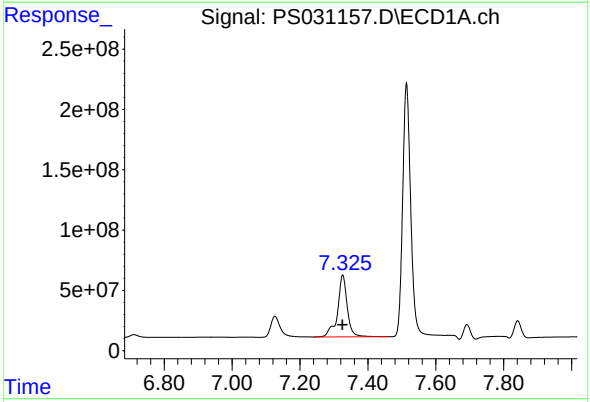
R.T.: 7.126 min
Delta R.T.: 0.002 min
Response: 335551168
Conc: 209.03 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



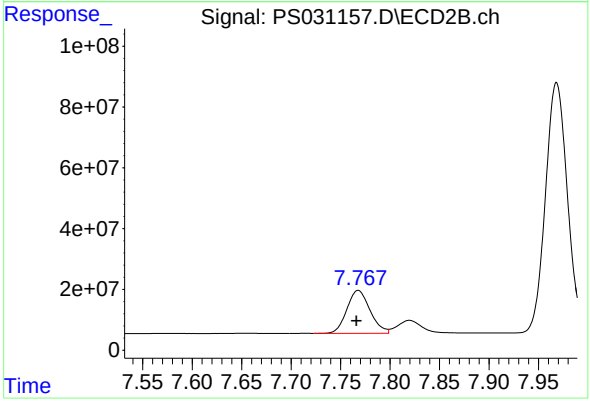

#3 4-Nitrophenol

R.T.: 7.303 min
Delta R.T.: 0.004 min
Response: 347810130
Conc: 194.91 ng/ml



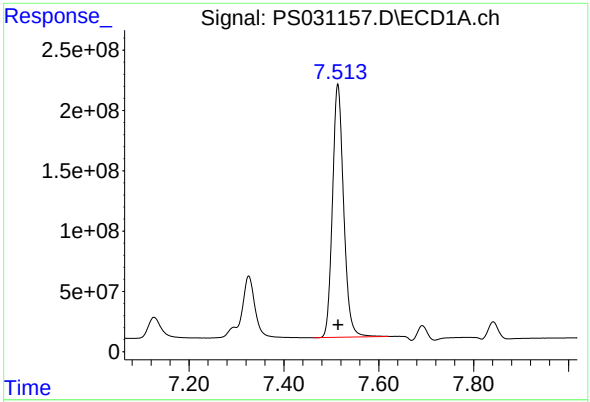

#4 2,4-DCAA

R.T.: 7.326 min
Delta R.T.: 0.001 min
Response: 1018219226
Conc: 239.65 ng/ml




#4 2,4-DCAA

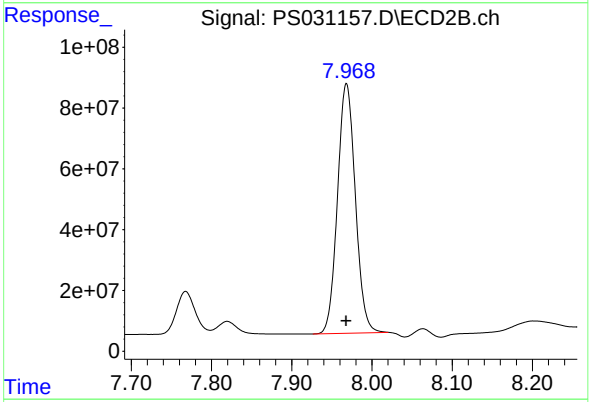
R.T.: 7.768 min
Delta R.T.: 0.002 min
Response: 229461022
Conc: 232.16 ng/ml




#5 DICAMBA

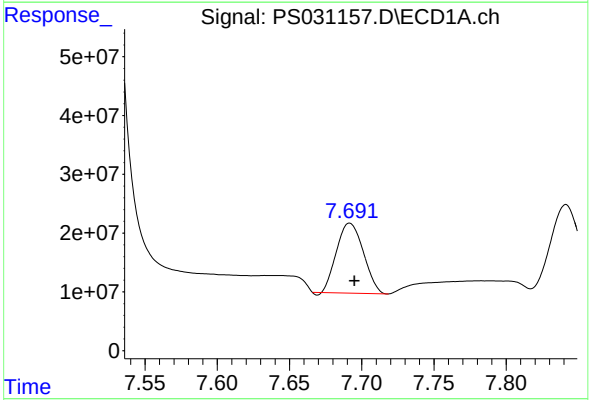
R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 3423245167
Conc: 210.40 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



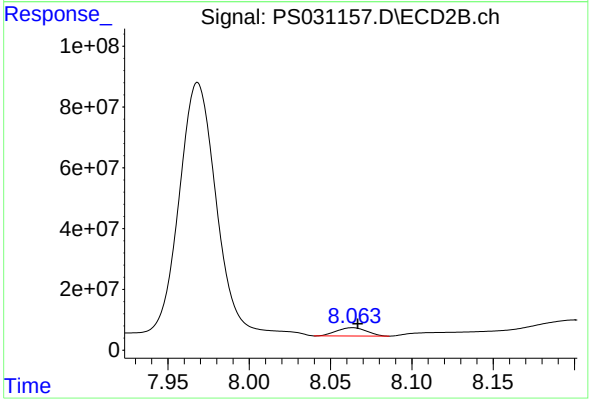

#5 DICAMBA

R.T.: 7.968 min
Delta R.T.: 0.000 min
Response: 1271207131
Conc: 198.10 ng/ml



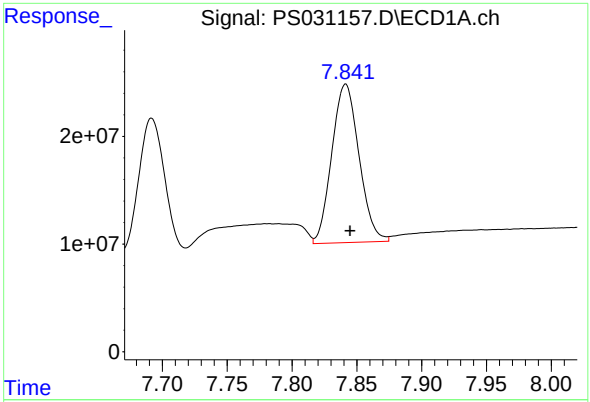

#6 MCPP

R.T.: 7.692 min
Delta R.T.: -0.003 min
Response: 154001096
Conc: 14.96 ug/ml




#6 MCPP

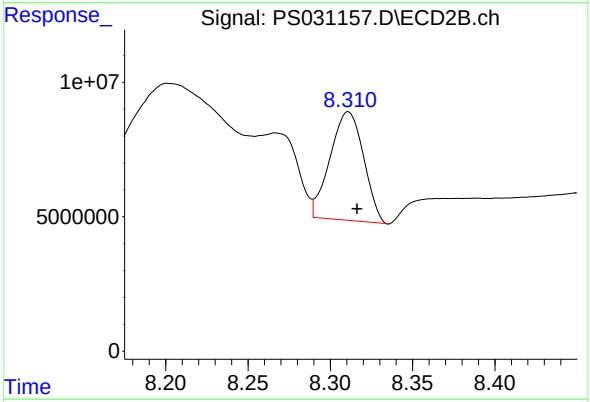
R.T.: 8.063 min
Delta R.T.: -0.003 min
Response: 34811617
Conc: 16.28 ug/ml




#7 MCPA

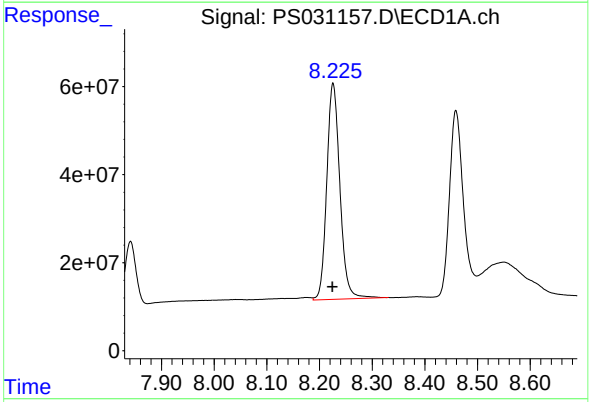
R.T.: 7.841 min
Delta R.T.: -0.003 min
Response: 215377008
Conc: 17.13 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



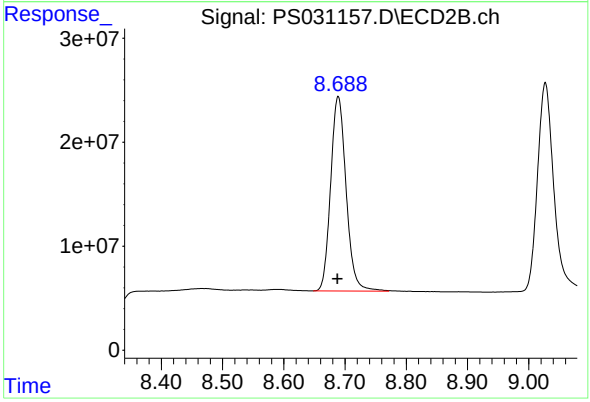

#7 MCPA

R.T.: 8.311 min
Delta R.T.: -0.005 min
Response: 57174138
Conc: 18.10 ug/ml



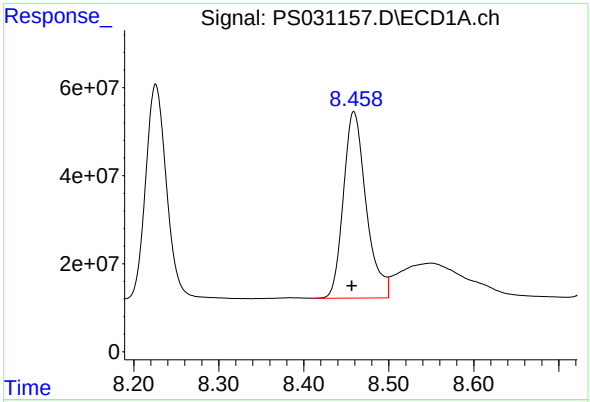

#8 DICHLORPROP

R.T.: 8.226 min
Delta R.T.: 0.001 min
Response: 851667977
Conc: 231.20 ng/ml




#8 DICHLORPROP

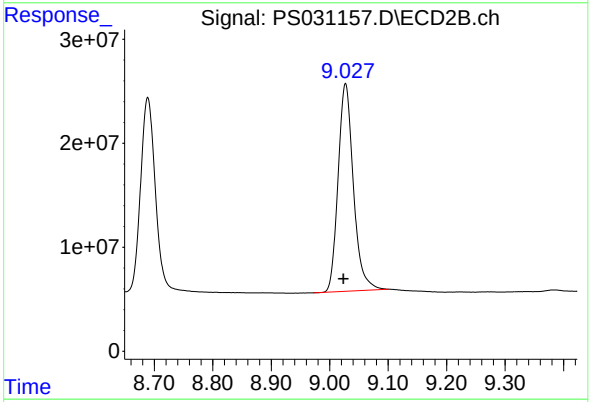
R.T.: 8.689 min
Delta R.T.: 0.001 min
Response: 328001670
Conc: 222.62 ng/ml




#9 2,4-D

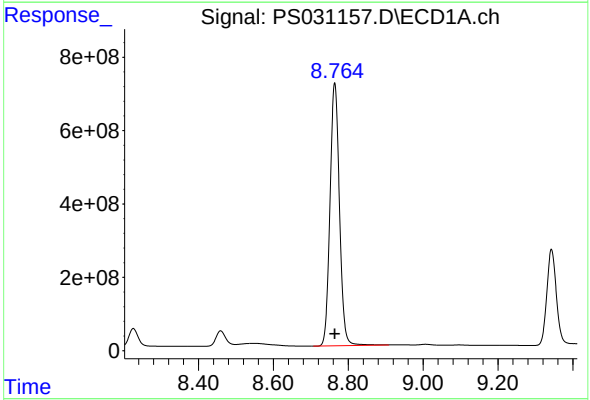
R.T.: 8.459 min
Delta R.T.: 0.003 min
Response: 788445719
Conc: 215.75 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



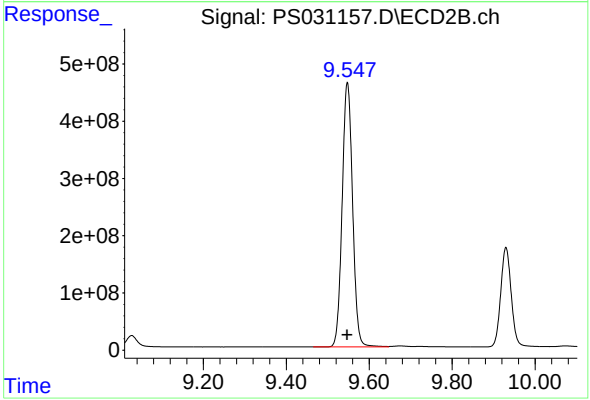

#9 2,4-D

R.T.: 9.027 min
Delta R.T.: 0.003 min
Response: 362888581
Conc: 219.11 ng/ml



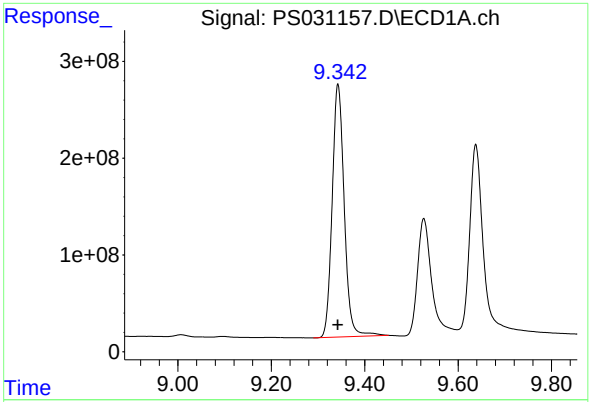

#10 Pentachlorophenol

R.T.: 8.764 min
Delta R.T.: 0.000 min
Response: 12562110249
Conc: 219.21 ng/ml




#10 Pentachlorophenol

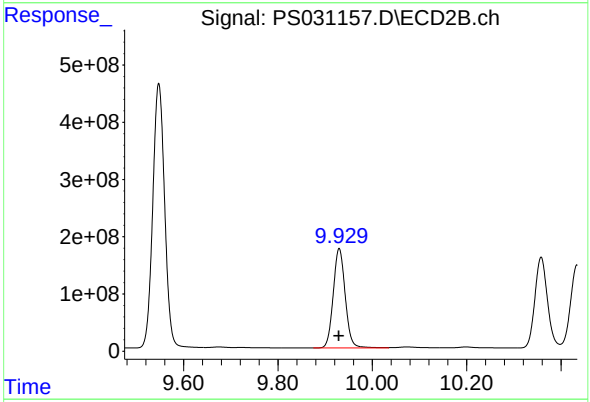
R.T.: 9.547 min
Delta R.T.: 0.000 min
Response: 8086509060
Conc: 202.36 ng/ml




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

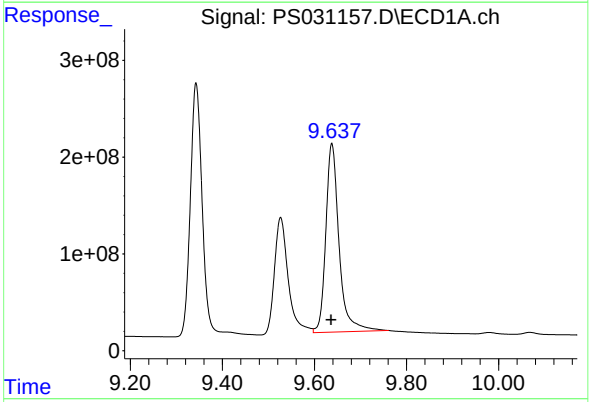
R.T.: 9.343 min
Delta R.T.: 0.001 min
Response: 4672594463
Conc: 215.94 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



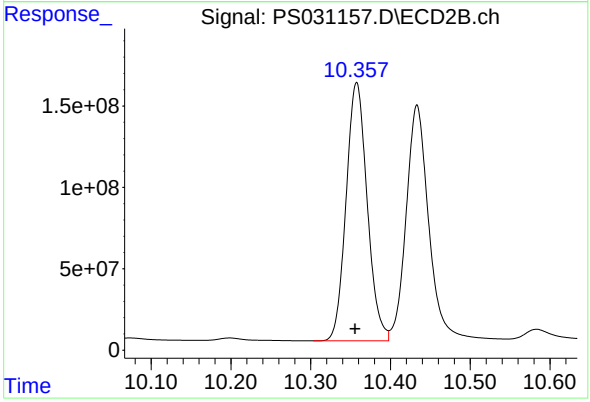

#11 2,4,5-TP (SILVEX)

R.T.: 9.930 min
Delta R.T.: 0.001 min
Response: 3066097967
Conc: 206.60 ng/ml



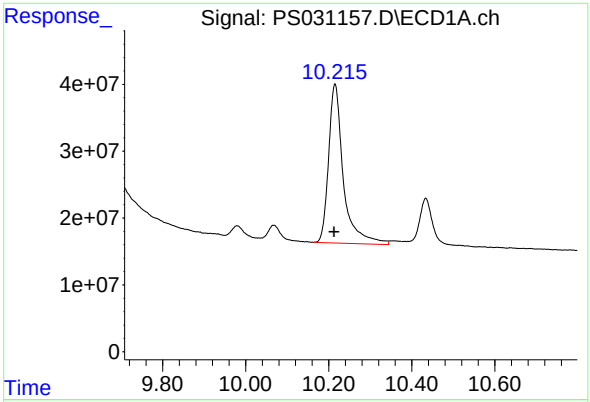

#12 2,4,5-T

R.T.: 9.638 min
Delta R.T.: 0.002 min
Response: 3901247922
Conc: 199.98 ng/ml




#12 2,4,5-T

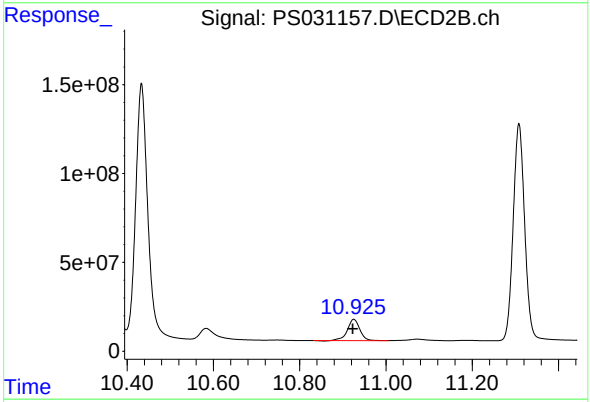
R.T.: 10.358 min
Delta R.T.: 0.002 min
Response: 2914739433
Conc: 205.89 ng/ml




#13 2,4-DB

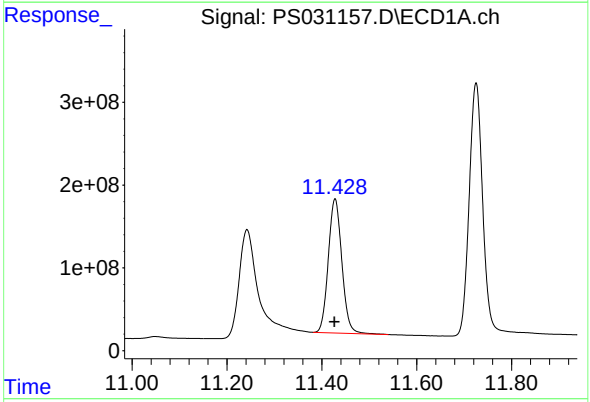
R.T.: 10.215 min
Delta R.T.: 0.002 min
Response: 587521205
Conc: 198.31 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



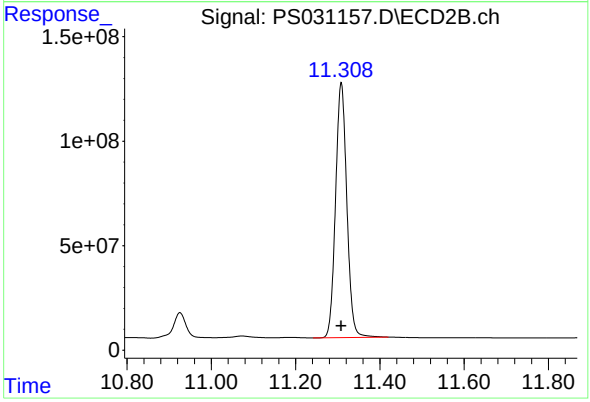

#13 2,4-DB

R.T.: 10.925 min
Delta R.T.: 0.003 min
Response: 240715400
Conc: 208.02 ng/ml



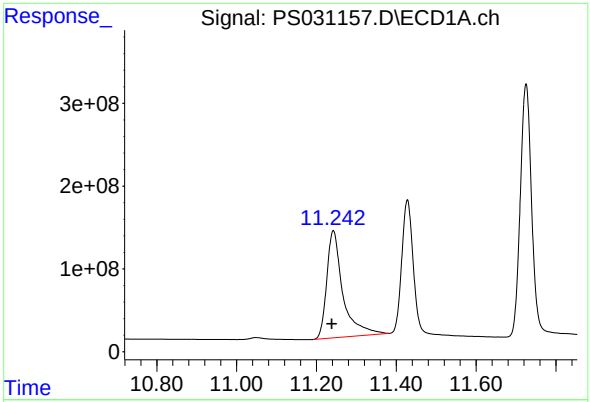

#14 DINOSEB

R.T.: 11.428 min
Delta R.T.: 0.001 min
Response: 3209965894
Conc: 208.20 ng/ml




#14 DINOSEB

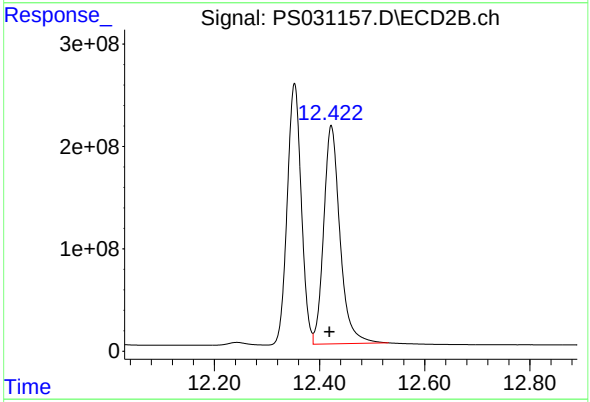
R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 2260524674
Conc: 201.01 ng/ml




#15 Picloram

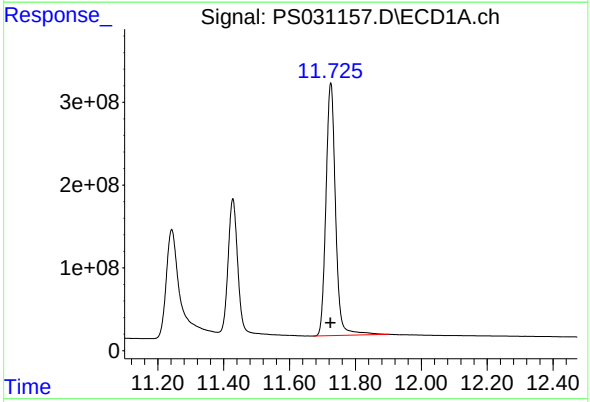
R.T.: 11.242 min
Delta R.T.: 0.004 min
Response: 3638645085
Conc: 180.74 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC200



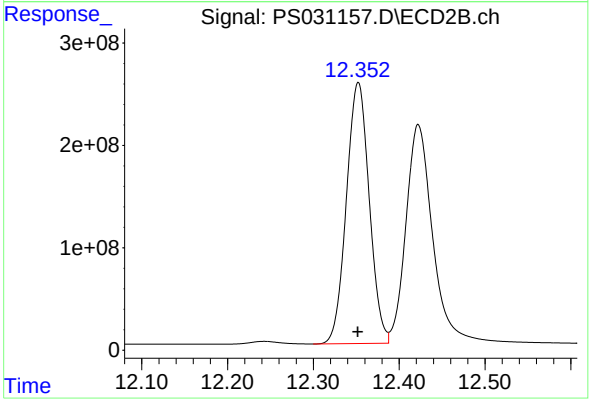

#15 Picloram

R.T.: 12.422 min
Delta R.T.: 0.004 min
Response: 4580348024
Conc: 180.37 ng/ml




#16 DCPA

R.T.: 11.725 min
Delta R.T.: 0.000 min
Response: 6177113741
Conc: 218.10 ng/ml




#16 DCPA

R.T.: 12.352 min
Delta R.T.: 0.000 min
Response: 4718414572
Conc: 203.74 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:26
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:09:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.325 | 7.767 | 2201.7E6 | 519.9E6 | 518.195m | 526.012 |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.690 | 2.705 | 2959.3E6 | 1321.5E6 | 478.152 | 474.374 |
| 2) T | 3,5-DICHL... | 6.487 | 6.714 | 2659.6E6 | 740.5E6 | 495.188 | 497.017 |
| 3) T | 4-Nitroph... | 7.125 | 7.301 | 767.9E6 | 829.3E6 | 478.348 | 464.714 |
| 5) T | DICAMBA | 7.514 | 7.969 | 7996.5E6 | 3086.5E6 | 491.494 | 480.989 |
| 6) T | MCPP | 7.694 | 8.066 | 467.8E6 | 100.3E6 | 45.447 | 46.925 |
| 7) T | MCPA | 7.843 | 8.314 | 579.7E6 | 149.5E6 | 46.099 | 47.317 |
| 8) T | DICHLORPROP | 8.226 | 8.689 | 1838.1E6 | 729.4E6 | 498.986 | 495.087 |
| 9) T | 2,4-D | 8.458 | 9.026 | 1795.7E6 | 819.0E6 | 491.384 | 494.516 |
| 10) T | Pentachlo... | 8.763 | 9.548 | 29107.7E6 | 19707.8E6 | 507.927 | 493.167 |
| 11) T | 2,4,5-TP ... | 9.343 | 9.930 | 10820.5E6 | 7341.1E6 | 500.052 | 494.651 |
| 12) T | 2,4,5-T | 9.637 | 10.357 | 9577.2E6 | 6973.3E6 | 490.924 | 492.588 |
| 13) T | 2,4-DB | 10.214 | 10.925 | 1431.5E6 | 570.7E6 | 483.190 | 493.144 |
| 14) T | DINOSEB | 11.428 | 11.309 | 7542.8E6 | 5427.1E6 | 489.222 | 482.587 |
| 15) T | Picloram | 11.240 | 12.420 | 9521.9E6 | 12061.4E6 | 472.975 | 474.969 |
| 16) T | DCPA | 11.726 | 12.353 | 14463.8E6 | 11492.2E6 | 510.682 | 496.241 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:26
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

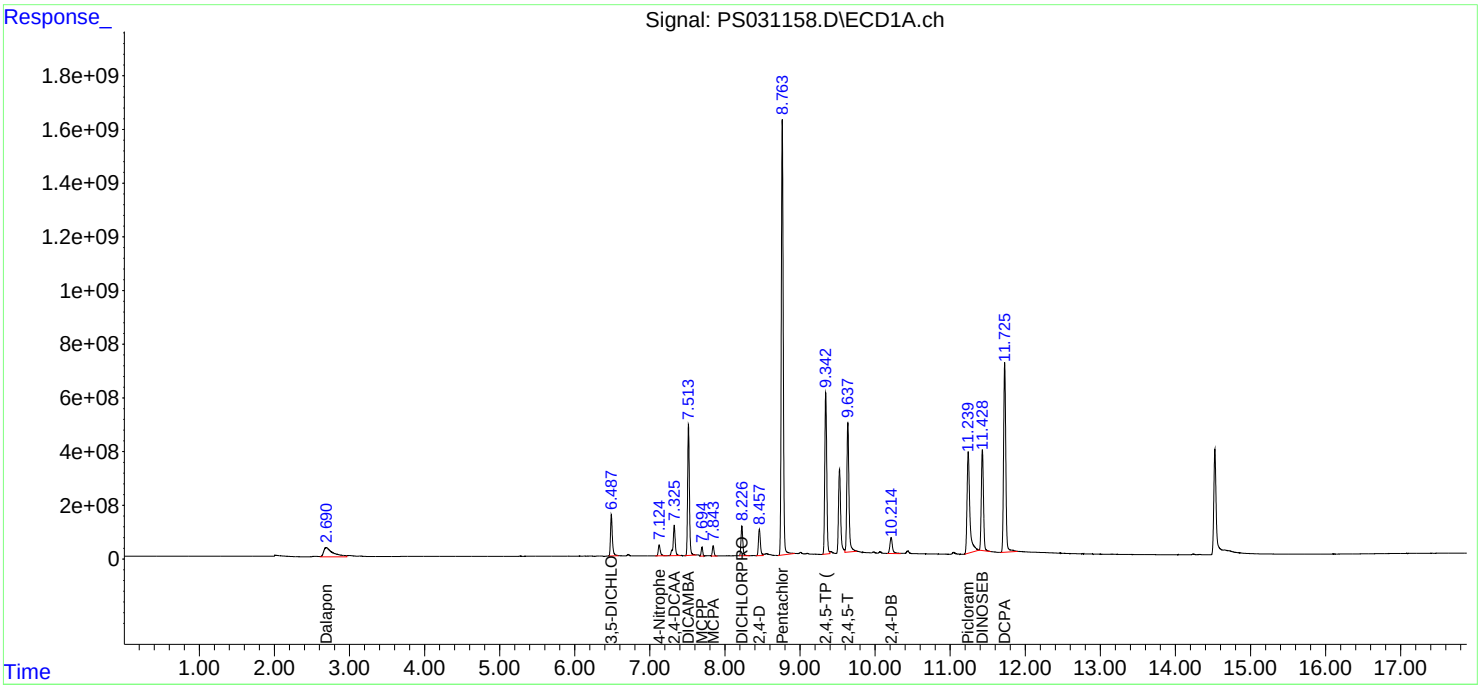
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

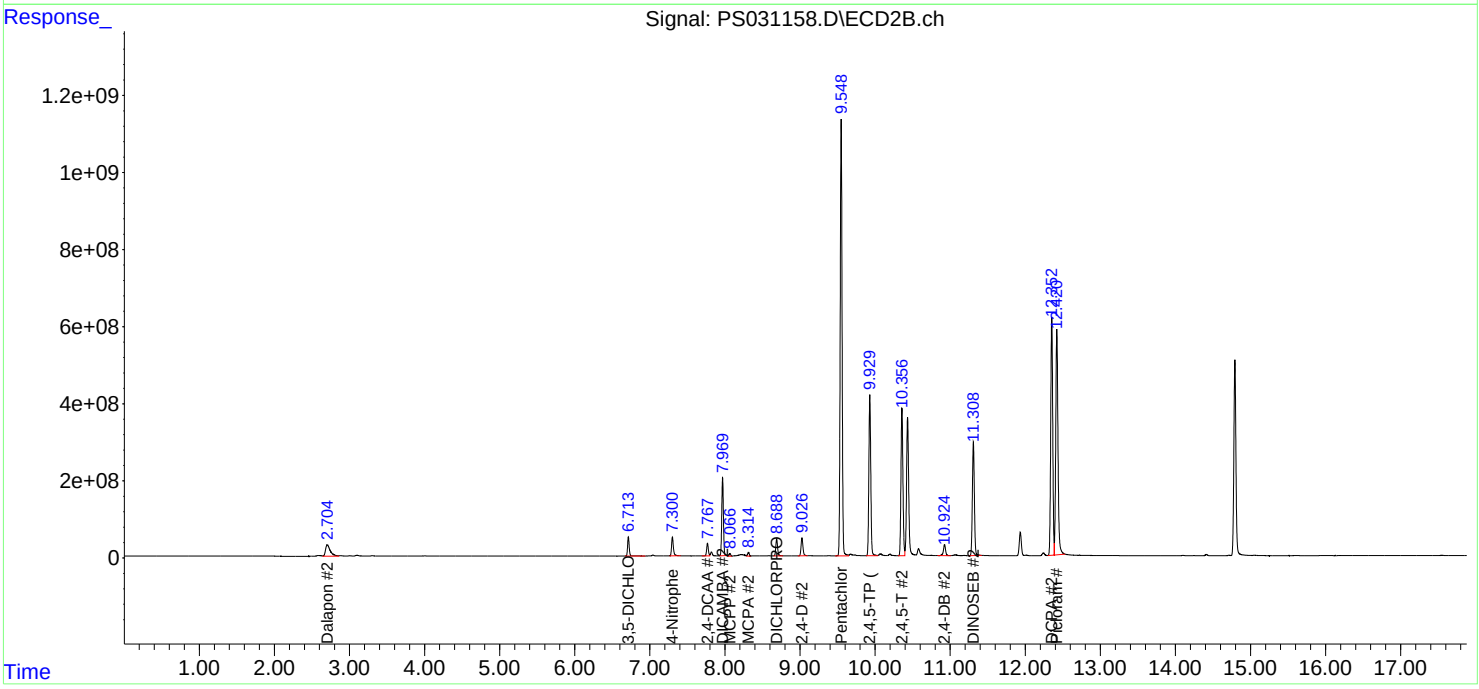
**Manual Integrations APPROVED**

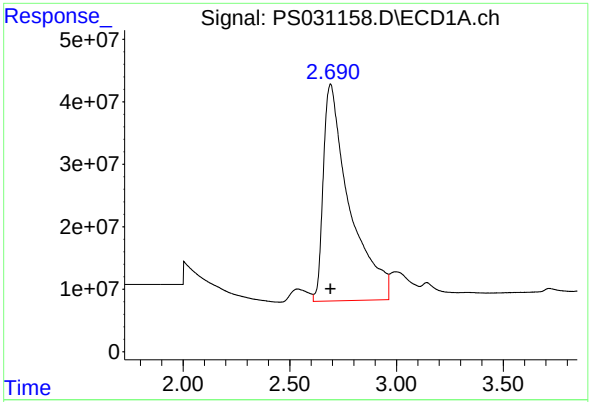
Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:09:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





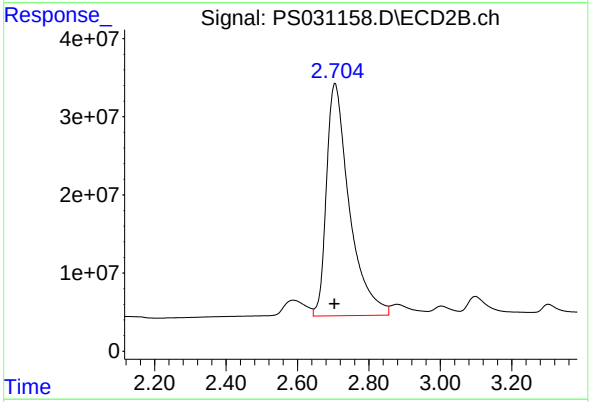

#1 Dalapon

R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 2959298028
Conc: 478.15 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

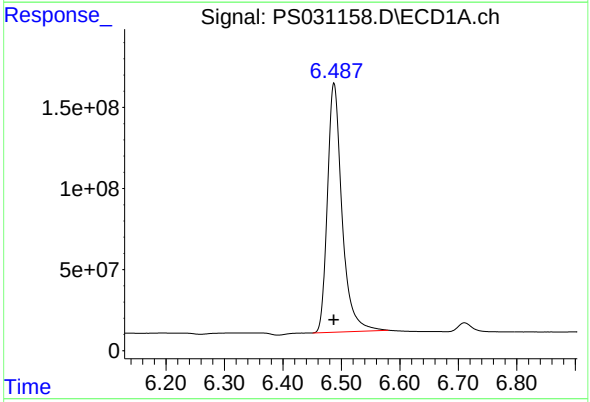
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



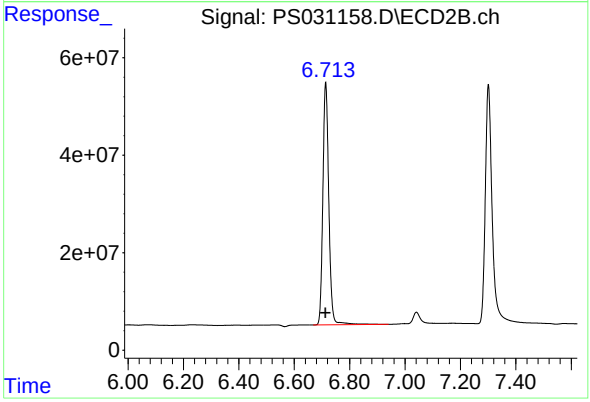

#1 Dalapon

R.T.: 2.705 min
Delta R.T.: 0.001 min
Response: 1321530235
Conc: 474.37 ng/ml



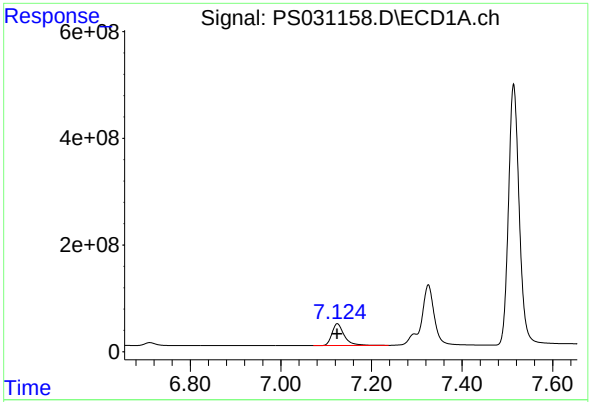

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 2659579107
Conc: 495.19 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.714 min
Delta R.T.: 0.000 min
Response: 740511149
Conc: 497.02 ng/ml



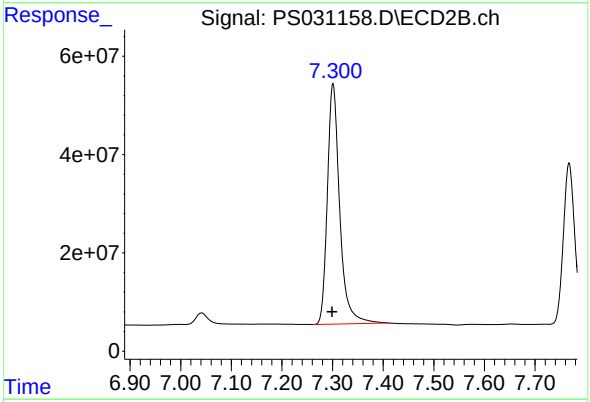

#3 4-Nitrophenol

R.T.: 7.125 min
Delta R.T.: 0.000 min
Response: 767894643
Conc: 478.35 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

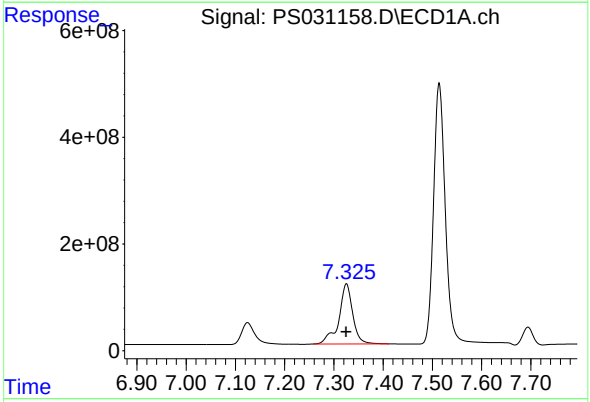
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



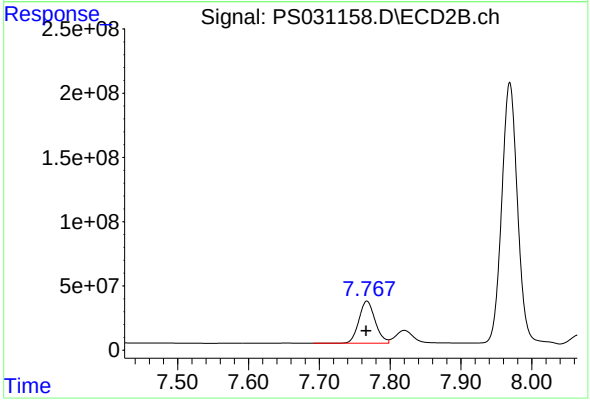

#3 4-Nitrophenol

R.T.: 7.301 min
Delta R.T.: 0.002 min
Response: 829273311
Conc: 464.71 ng/ml



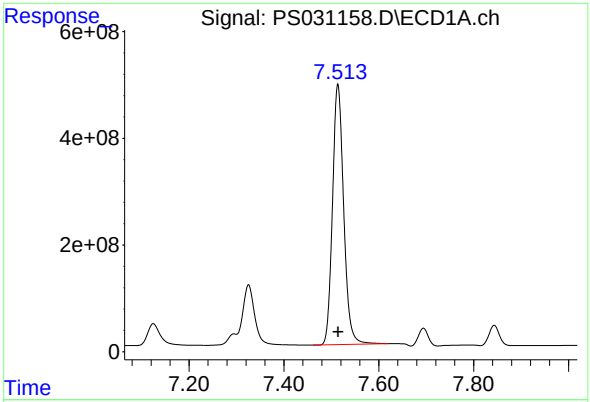

#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 2201667574
Conc: 518.20 ng/ml m




#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.001 min
Response: 519906660
Conc: 526.01 ng/ml



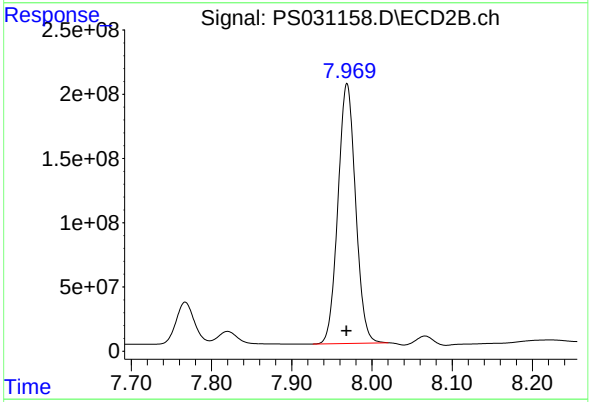

#5 DICAMBA

R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 7996510974
Conc: 491.49 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

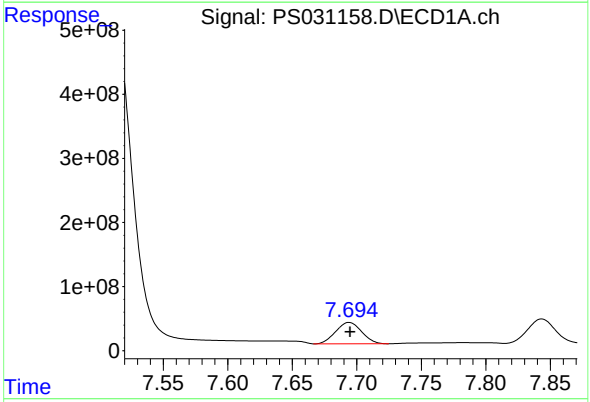
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



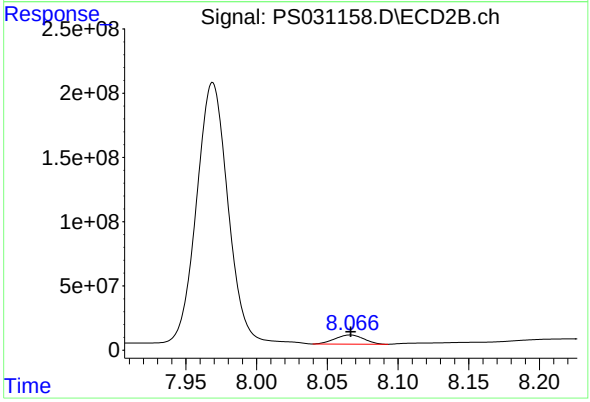

#5 DICAMBA

R.T.: 7.969 min
Delta R.T.: 0.001 min
Response: 3086481070
Conc: 480.99 ng/ml



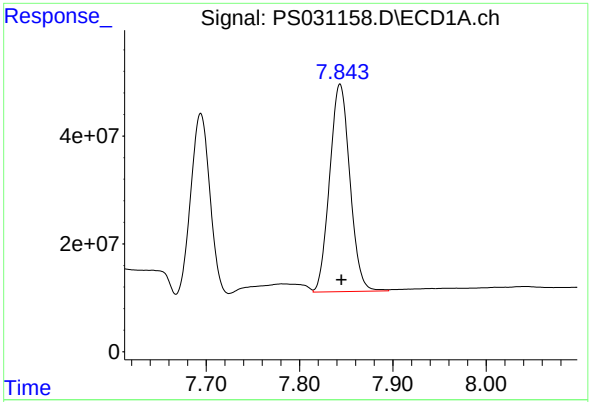

#6 MCPP

R.T.: 7.694 min
Delta R.T.: 0.000 min
Response: 467826179
Conc: 45.45 ug/ml




#6 MCPP

R.T.: 8.066 min
Delta R.T.: 0.000 min
Response: 100345918
Conc: 46.92 ug/ml



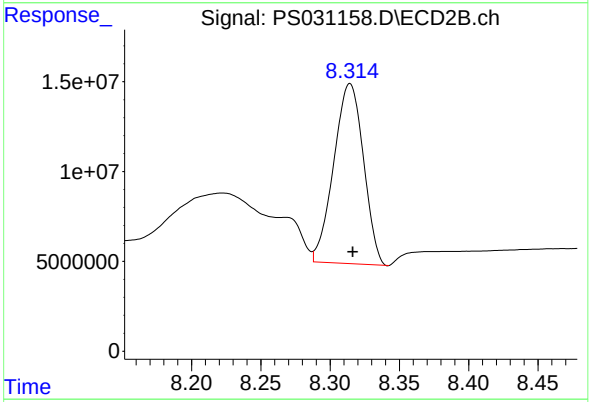

#7 MCPA

R.T.: 7.843 min
Delta R.T.: -0.001 min
Response: 579732469
Conc: 46.10 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

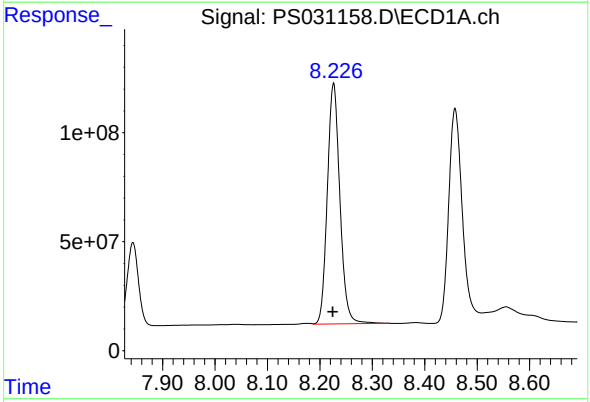
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



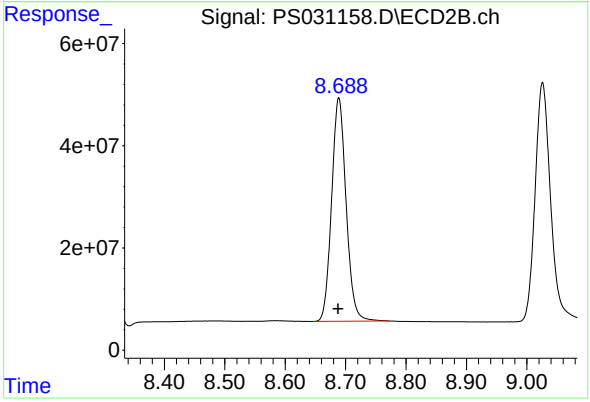

#7 MCPA

R.T.: 8.314 min
Delta R.T.: -0.002 min
Response: 149500104
Conc: 47.32 ug/ml



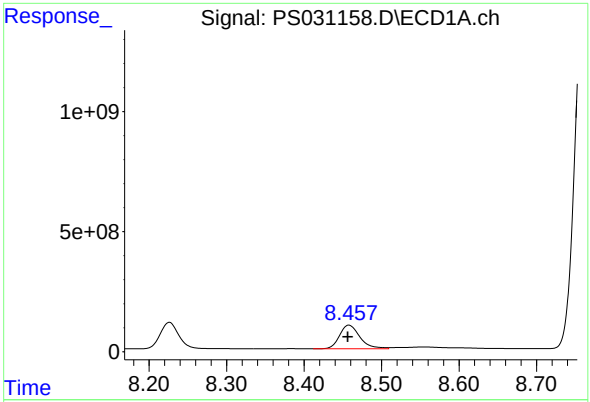

#8 DICHLORPROP

R.T.: 8.226 min
Delta R.T.: 0.002 min
Response: 1838072799
Conc: 498.99 ng/ml




#8 DICHLORPROP

R.T.: 8.689 min
Delta R.T.: 0.001 min
Response: 729443662
Conc: 495.09 ng/ml



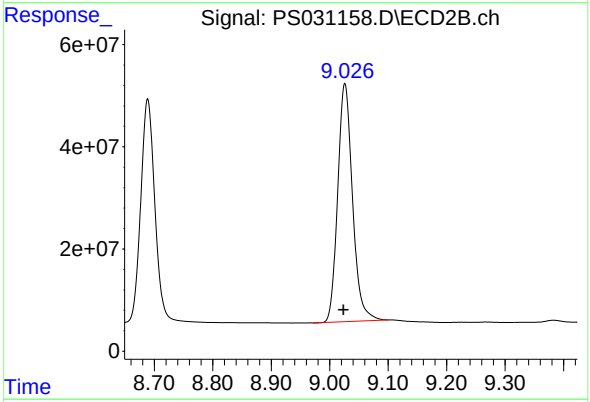

#9 2,4-D

R.T.: 8.458 min
Delta R.T.: 0.001 min
Response: 1795744990
Conc: 491.38 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

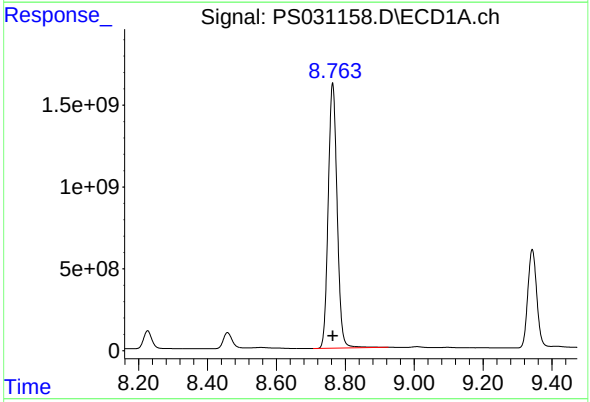
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



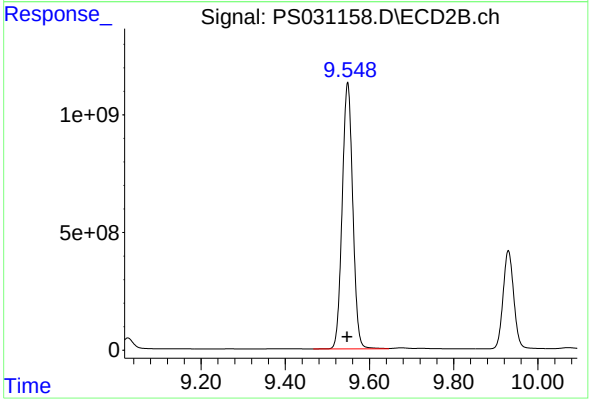

#9 2,4-D

R.T.: 9.026 min
Delta R.T.: 0.002 min
Response: 819019953
Conc: 494.52 ng/ml



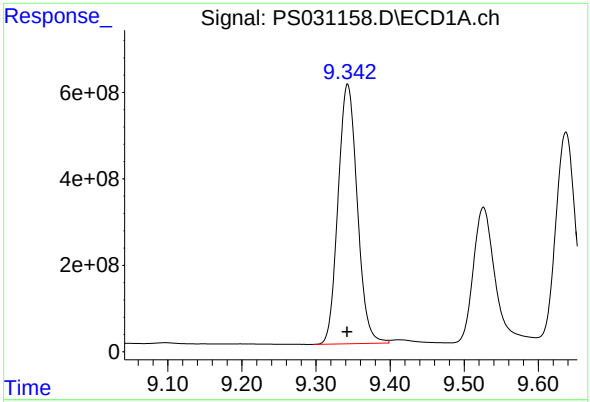

#10 Pentachlorophenol

R.T.: 8.763 min
Delta R.T.: 0.000 min
Response: 29107710379
Conc: 507.93 ng/ml




#10 Pentachlorophenol

R.T.: 9.548 min
Delta R.T.: 0.001 min
Response: 19707796449
Conc: 493.17 ng/ml



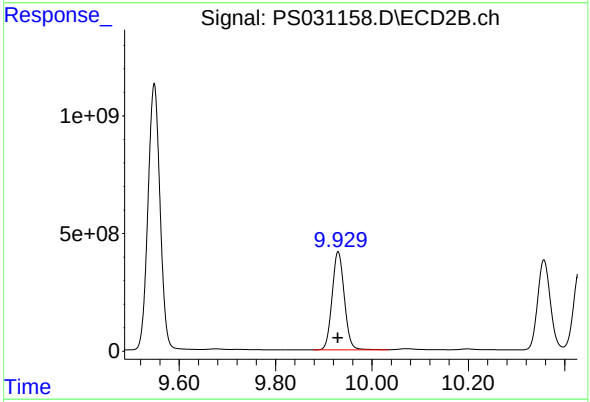

#11 2,4,5-TP (SILVEX)

R.T.: 9.343 min
Delta R.T.: 0.000 min
Response: 10820483706
Conc: 500.05 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

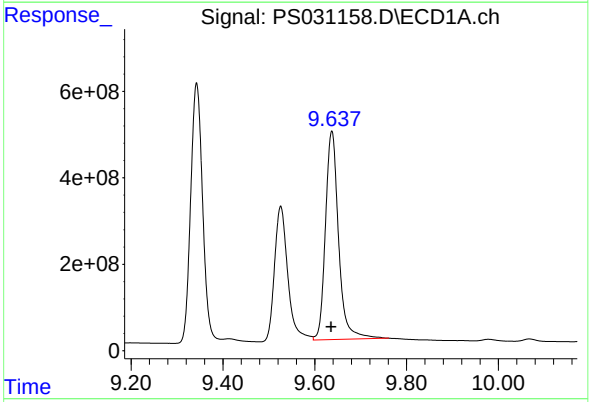
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



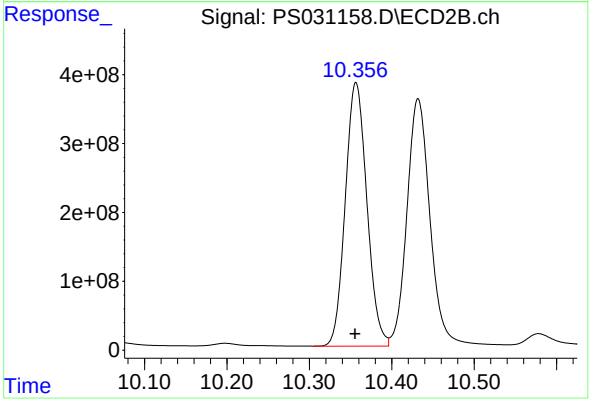

#11 2,4,5-TP (SILVEX)

R.T.: 9.930 min
Delta R.T.: 0.001 min
Response: 7341058970
Conc: 494.65 ng/ml



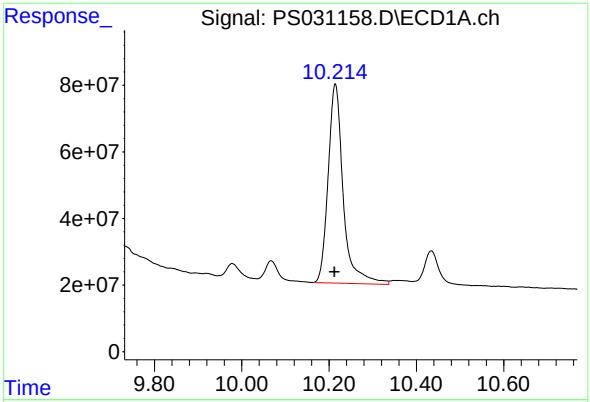

#12 2,4,5-T

R.T.: 9.637 min
Delta R.T.: 0.001 min
Response: 9577192088
Conc: 490.92 ng/ml




#12 2,4,5-T

R.T.: 10.357 min
Delta R.T.: 0.001 min
Response: 6973310939
Conc: 492.59 ng/ml



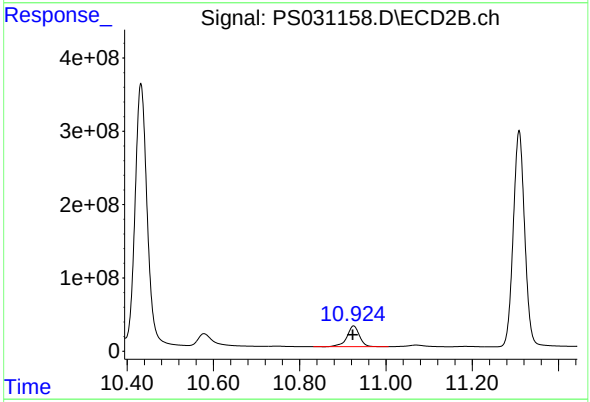

#13 2,4-DB

R.T.: 10.214 min
Delta R.T.: 0.002 min
Response: 1431511568
Conc: 483.19 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

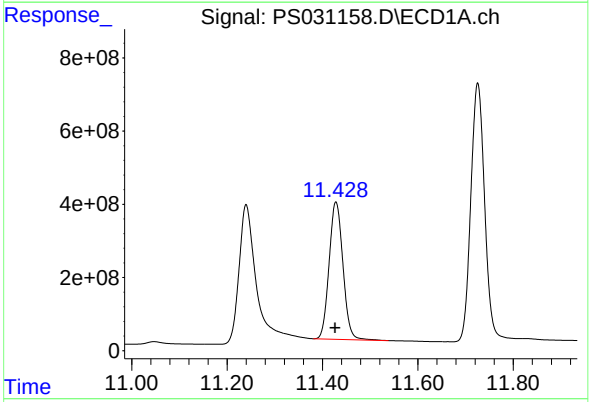
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



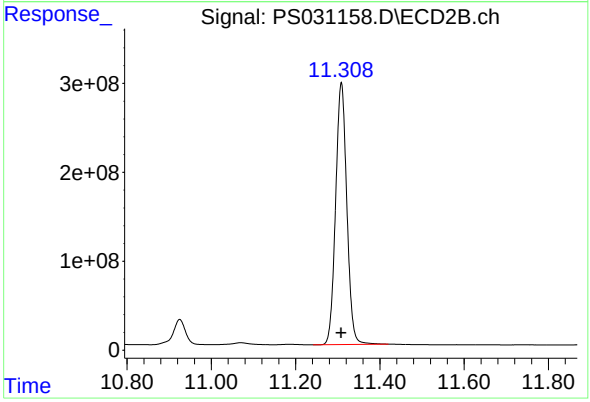

#13 2,4-DB

R.T.: 10.925 min
Delta R.T.: 0.002 min
Response: 570663468
Conc: 493.14 ng/ml



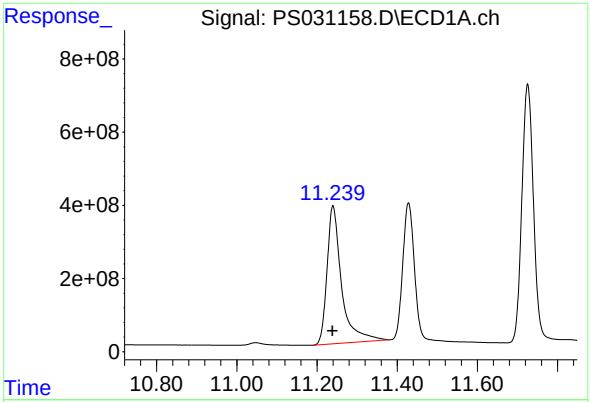

#14 DINOSEB

R.T.: 11.428 min
Delta R.T.: 0.002 min
Response: 7542802456
Conc: 489.22 ng/ml




#14 DINOSEB

R.T.: 11.309 min
Delta R.T.: 0.000 min
Response: 5427075463
Conc: 482.59 ng/ml



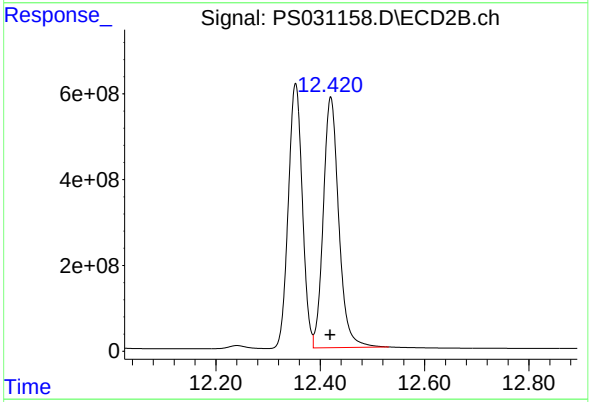

#15 Picloram

R.T.: 11.240 min
Delta R.T.: 0.001 min
Response: 9521922595
Conc: 472.97 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC500

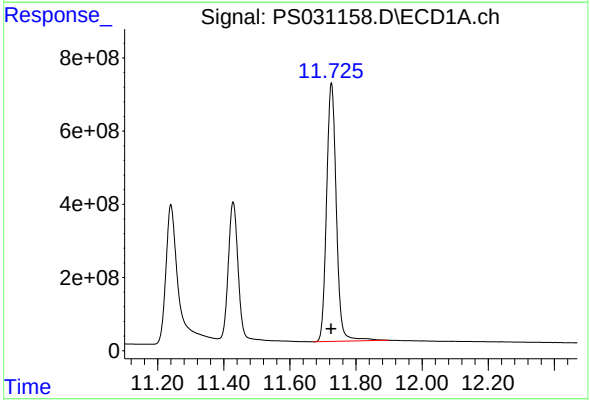
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 07/22/2025
Supervised By :mohammad ahmed 07/23/2025



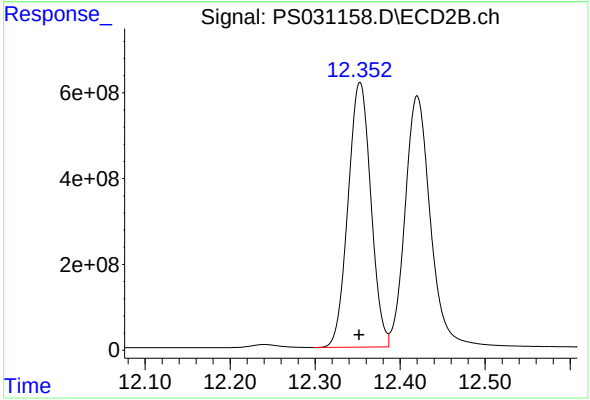

#15 Picloram

R.T.: 12.420 min
Delta R.T.: 0.002 min
Response: 12061381092
Conc: 474.97 ng/ml




#16 DCPA

R.T.: 11.726 min
Delta R.T.: 0.001 min
Response: 14463775237
Conc: 510.68 ng/ml




#16 DCPA

R.T.: 12.353 min
Delta R.T.: 0.001 min
Response: 11492194583
Conc: 496.24 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:51
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:09:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.325 | 7.766 | 3186.5E6 | 741.3E6 | 750.000 | 750.000 |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.690 | 2.703 | 4224.0E6 | 1901.3E6 | 682.500 | 682.500 |
| 2) T | 3,5-DICHL... | 6.487 | 6.713 | 3746.2E6 | 1039.2E6 | 697.500 | 697.500 |
| 3) T | 4-Nitroph... | 7.124 | 7.299 | 1095.6E6 | 1217.9E6 | 682.500 | 682.500 |
| 5) T | DICAMBA | 7.514 | 7.968 | 11470.2E6 | 4523.9E6 | 705.000 | 705.000 |
| 6) T | MCPP | 7.695 | 8.067 | 725.7E6 | 150.8E6 | 70.500 | 70.500 |
| 7) T | MCPA | 7.845 | 8.316 | 877.2E6 | 220.4E6 | 69.750 | 69.750 |
| 8) T | DICHLORPROP | 8.224 | 8.688 | 2596.9E6 | 1038.7E6 | 705.000 | 705.000 |
| 9) T | 2,4-D | 8.456 | 9.024 | 2576.4E6 | 1167.6E6 | 705.000 | 705.000 |
| 10) T | Pentachlo... | 8.764 | 9.547 | 40831.1E6 | 28472.7E6 | 712.500 | 712.500 |
| 11) T | 2,4,5-TP ... | 9.342 | 9.929 | 15417.6E6 | 10574.1E6 | 712.500 | 712.500 |
| 12) T | 2,4,5-T | 9.636 | 10.356 | 13899.8E6 | 10086.5E6 | 712.500 | 712.500 |
| 13) T | 2,4-DB | 10.213 | 10.923 | 2110.9E6 | 824.5E6 | 712.500 | 712.500 |
| 14) T | DINOSEB | 11.427 | 11.308 | 10869.7E6 | 7928.3E6 | 705.000 | 705.000 |
| 15) T | Picloram | 11.239 | 12.419 | 14344.0E6 | 18093.3E6 | 712.500 | 712.500 |
| 16) T | DCPA | 11.724 | 12.352 | 20392.2E6 | 16674.1E6 | 720.000 | 720.000 |

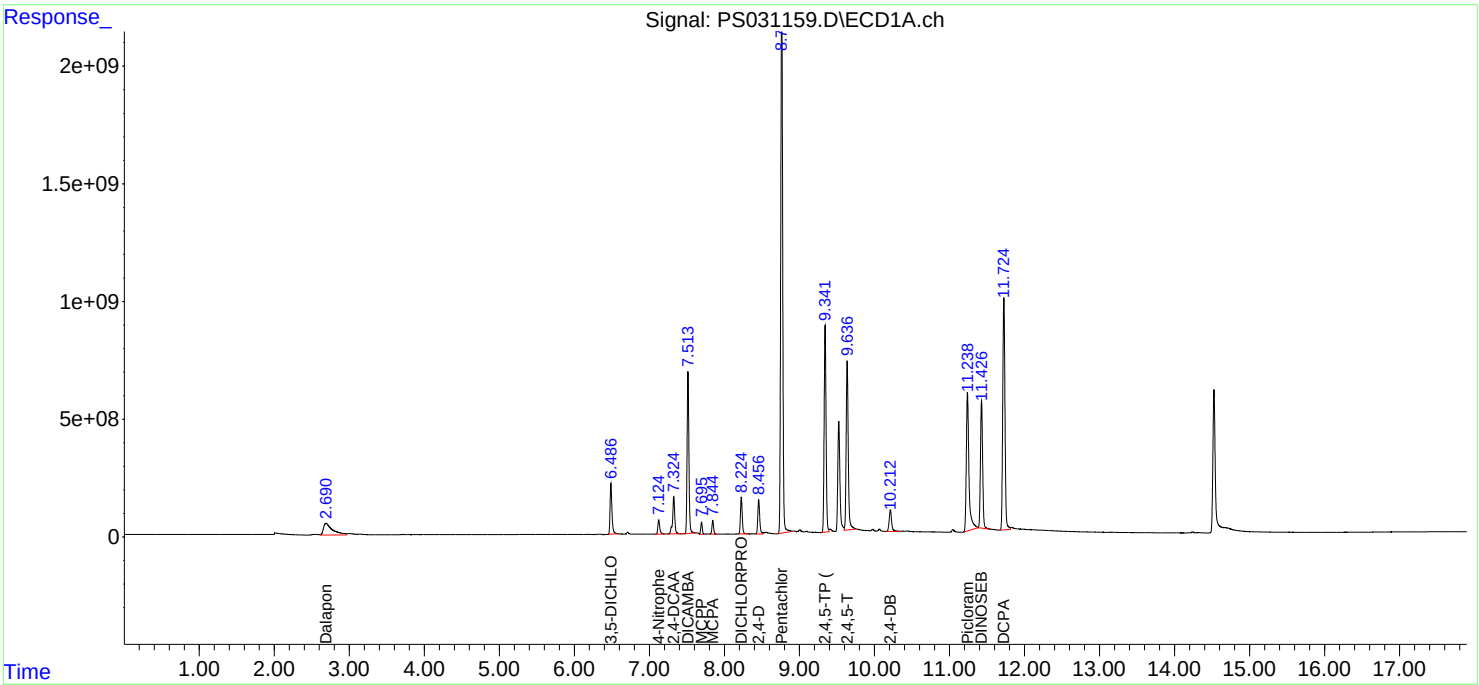
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

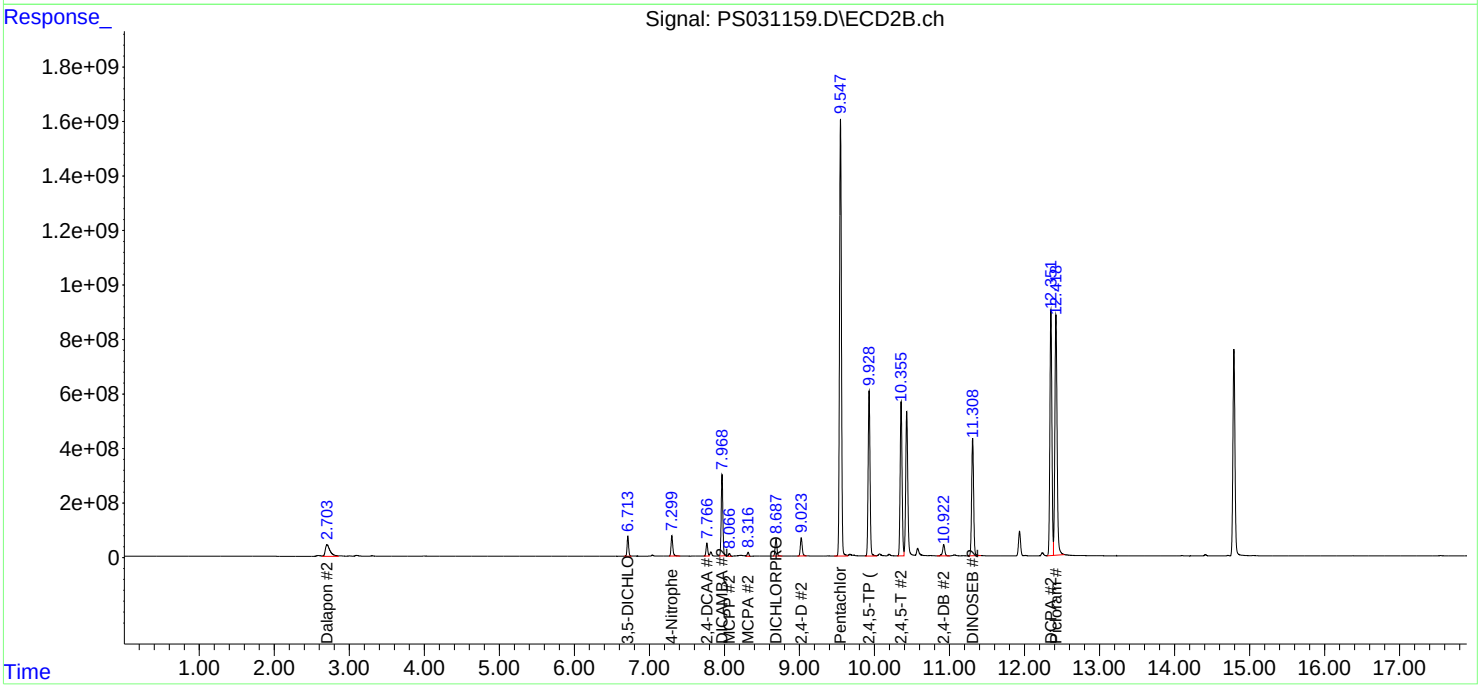
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 15:51
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

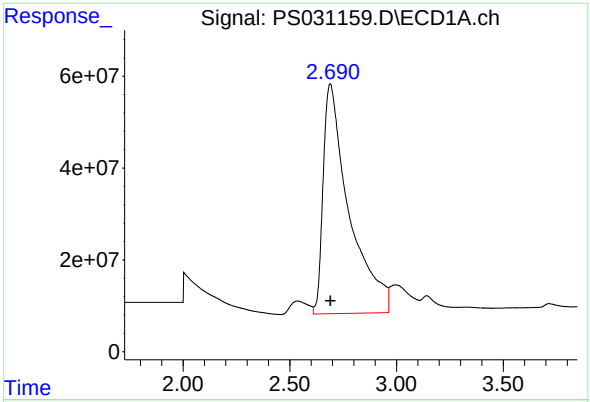
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:09:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



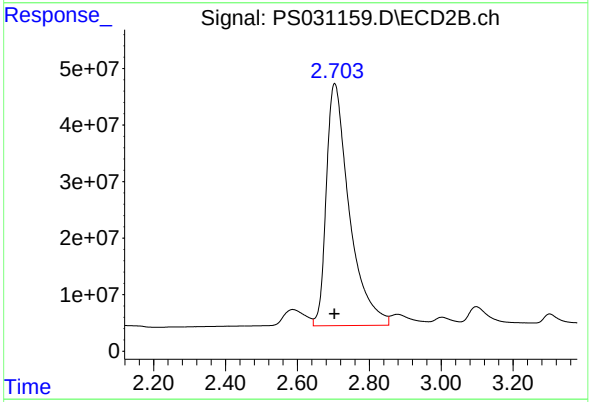






#1 Dalapon

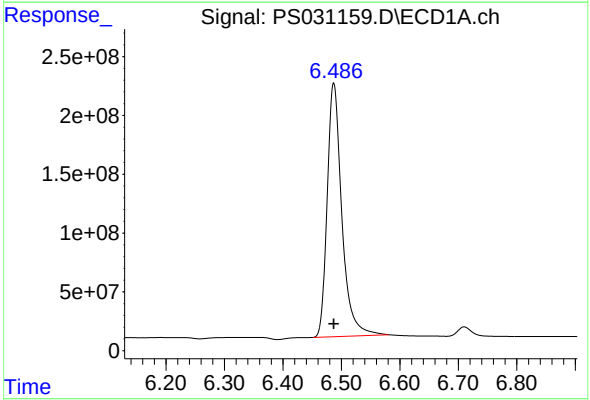
R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 4224012852
Conc: 682.50 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



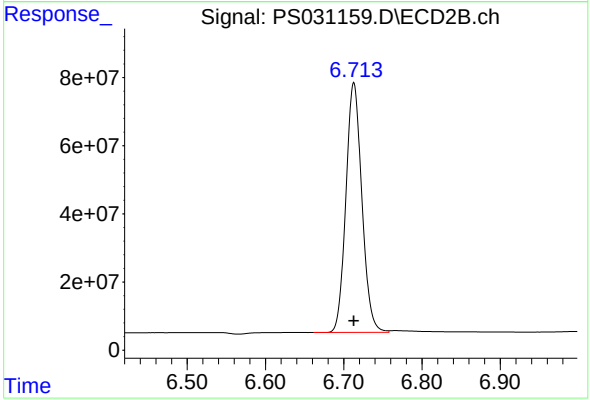

#1 Dalapon

R.T.: 2.703 min
Delta R.T.: 0.000 min
Response: 1901336500
Conc: 682.50 ng/ml



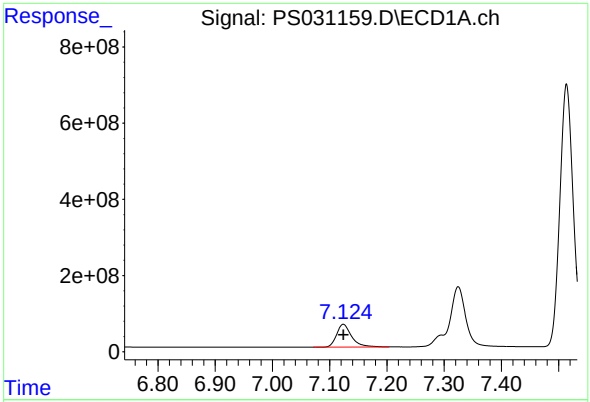

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 3746167556
Conc: 697.50 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

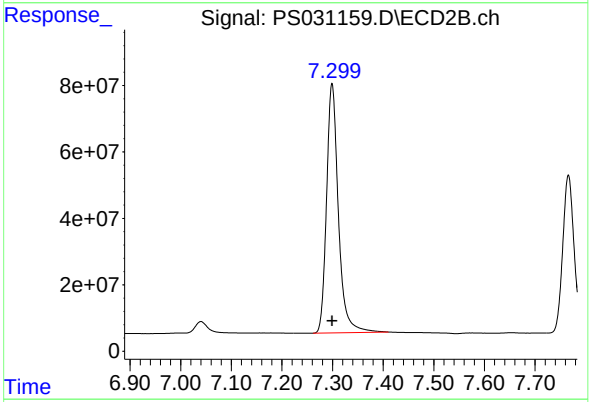
R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 1039212665
Conc: 697.50 ng/ml




#3 4-Nitrophenol

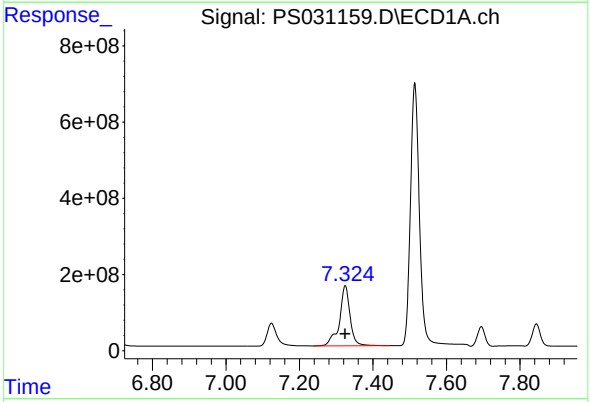
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1095621662
Conc: 682.50 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



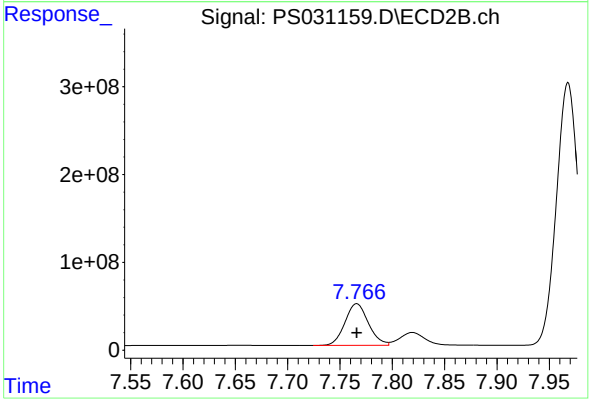

#3 4-Nitrophenol

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 1217907727
Conc: 682.50 ng/ml



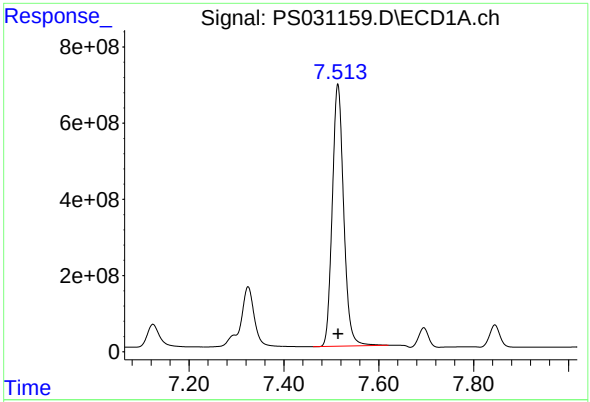

#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 3186540835
Conc: 750.00 ng/ml




#4 2,4-DCAA

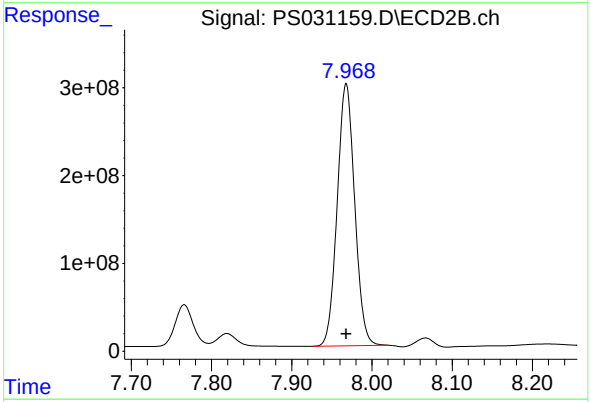
R.T.: 7.766 min
Delta R.T.: 0.000 min
Response: 741295289
Conc: 750.00 ng/ml




#5 DICAMBA

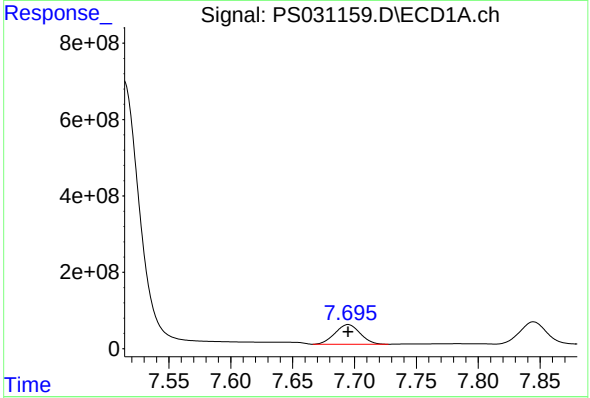
R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 11470202403
Conc: 705.00 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



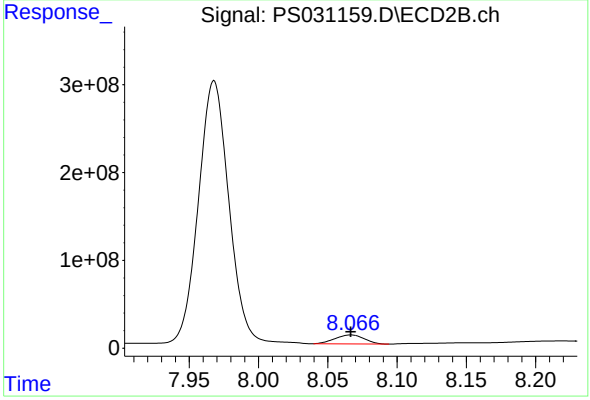

#5 DICAMBA

R.T.: 7.968 min
Delta R.T.: 0.000 min
Response: 4523946759
Conc: 705.00 ng/ml



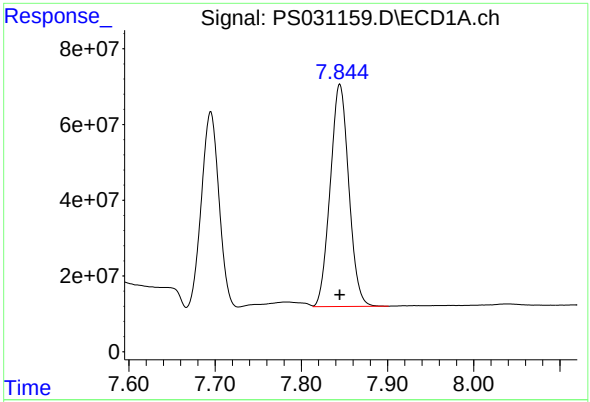

#6 MCPP

R.T.: 7.695 min
Delta R.T.: 0.000 min
Response: 725712614
Conc: 70.50 ug/ml




#6 MCPP

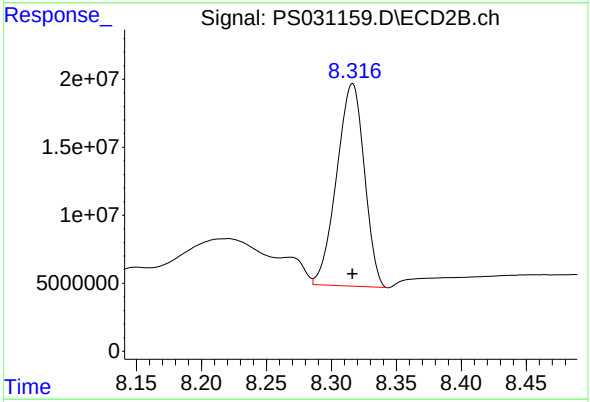
R.T.: 8.067 min
Delta R.T.: 0.000 min
Response: 150759642
Conc: 70.50 ug/ml




#7 MCPA

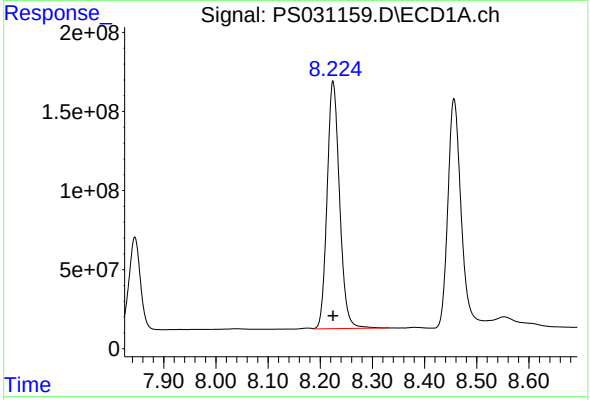
R.T.: 7.845 min
Delta R.T.: 0.000 min
Response: 877165270
Conc: 69.75 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



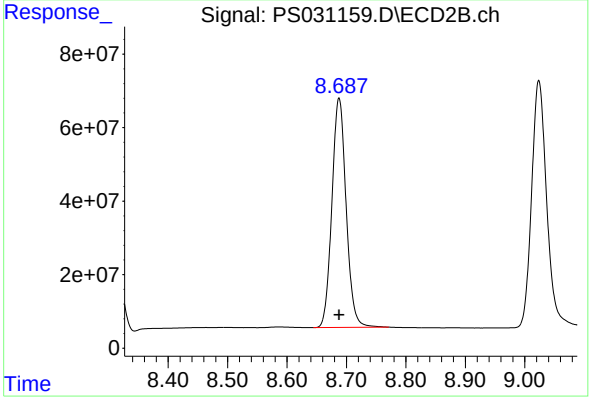

#7 MCPA

R.T.: 8.316 min
Delta R.T.: 0.000 min
Response: 220378065
Conc: 69.75 ug/ml



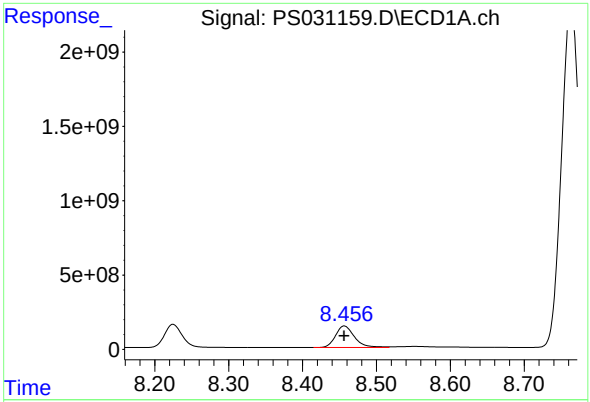

#8 DICHLORPROP

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 2596948193
Conc: 705.00 ng/ml




#8 DICHLORPROP

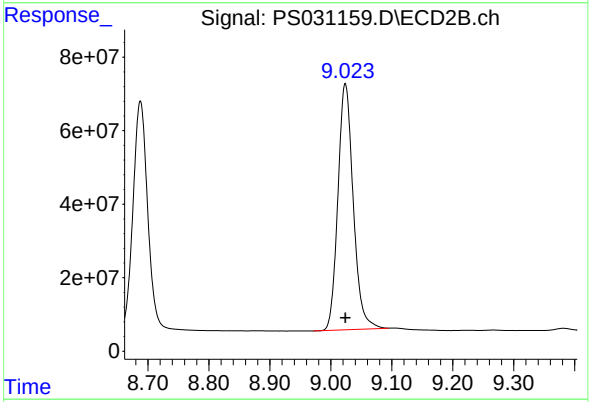
R.T.: 8.688 min
Delta R.T.: 0.000 min
Response: 1038723007
Conc: 705.00 ng/ml




#9 2,4-D

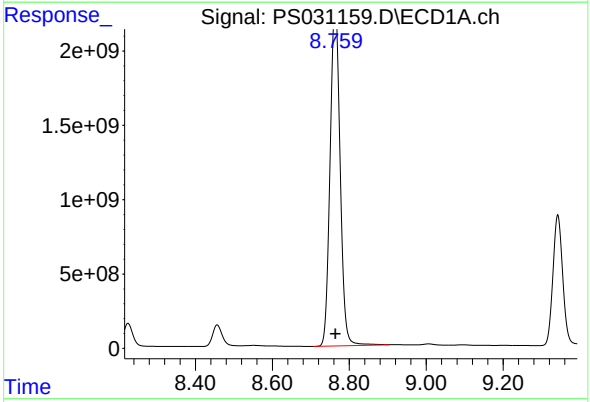
R.T.: 8.456 min
Delta R.T.: 0.000 min
Response: 2576397088
Conc: 705.00 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



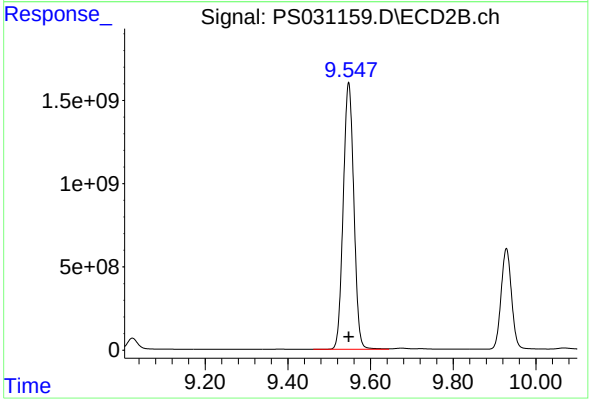

#9 2,4-D

R.T.: 9.024 min
Delta R.T.: 0.000 min
Response: 1167624034
Conc: 705.00 ng/ml



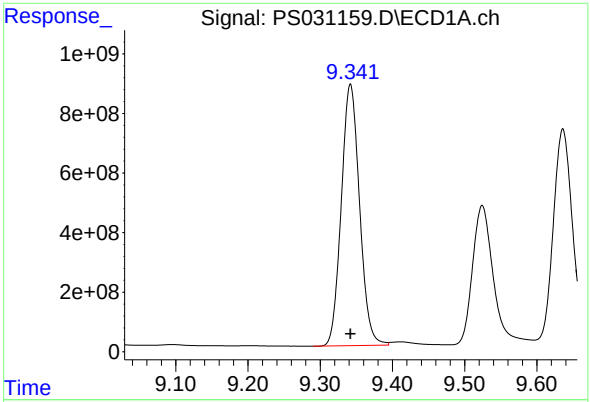

#10 Pentachlorophenol

R.T.: 8.764 min
Delta R.T.: 0.000 min
Response: 40831115392
Conc: 712.50 ng/ml




#10 Pentachlorophenol

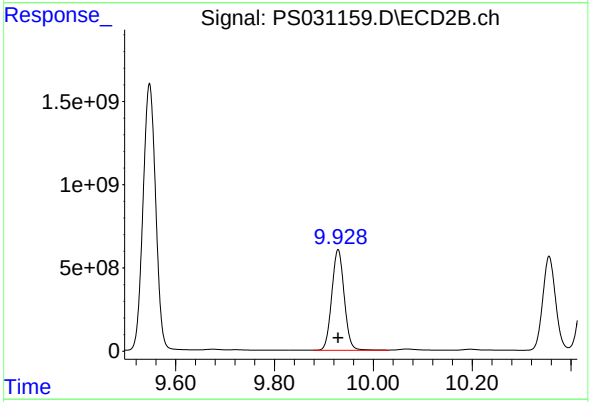
R.T.: 9.547 min
Delta R.T.: 0.000 min
Response: 28472689879
Conc: 712.50 ng/ml




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

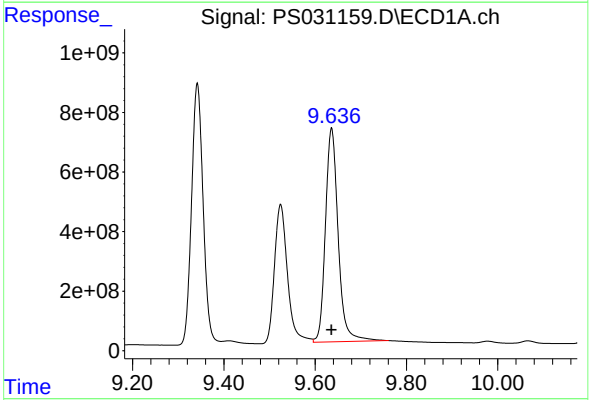
R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 15417581775
Conc: 712.50 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



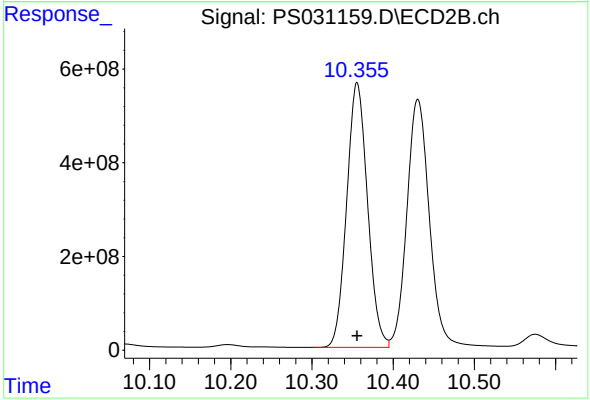

#11 2,4,5-TP (SILVEX)

R.T.: 9.929 min
Delta R.T.: 0.000 min
Response: 10574141453
Conc: 712.50 ng/ml



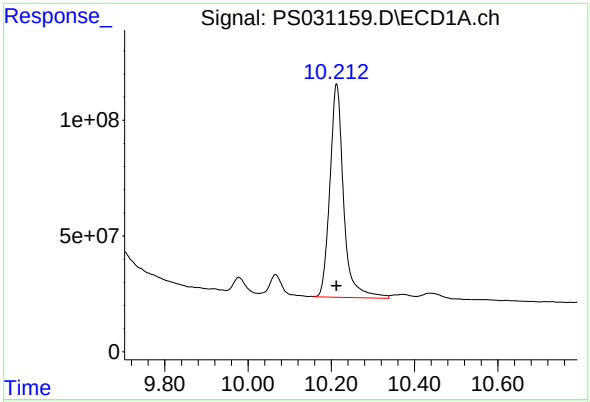

#12 2,4,5-T

R.T.: 9.636 min
Delta R.T.: 0.000 min
Response: 13899798654
Conc: 712.50 ng/ml




#12 2,4,5-T

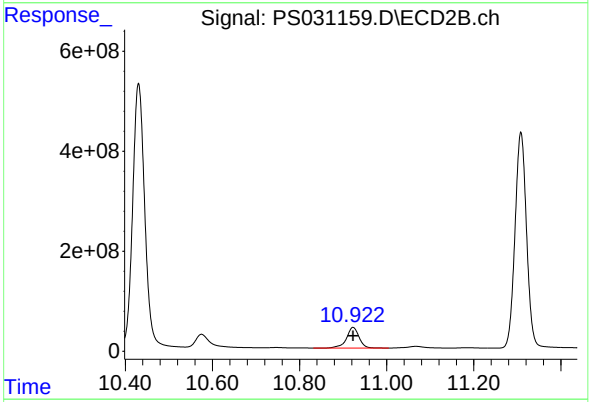
R.T.: 10.356 min
Delta R.T.: 0.000 min
Response: 10086489003
Conc: 712.50 ng/ml




#13 2,4-DB

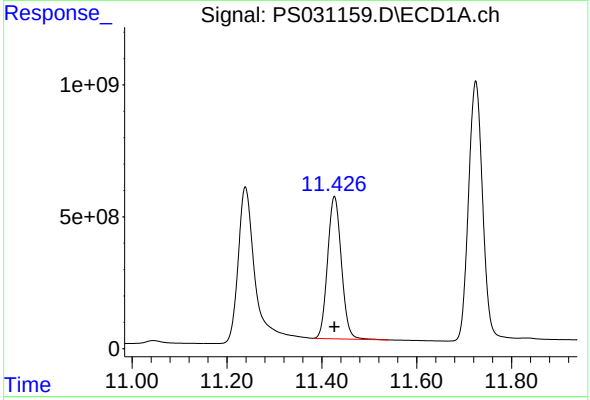
R.T.: 10.213 min
Delta R.T.: 0.000 min
Response: 2110870159
Conc: 712.50 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



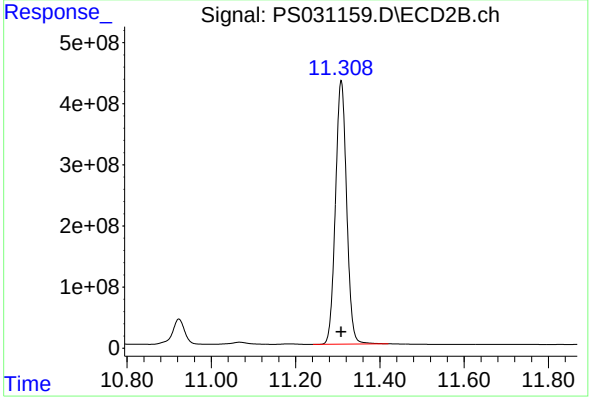

#13 2,4-DB

R.T.: 10.923 min
Delta R.T.: 0.000 min
Response: 824500710
Conc: 712.50 ng/ml



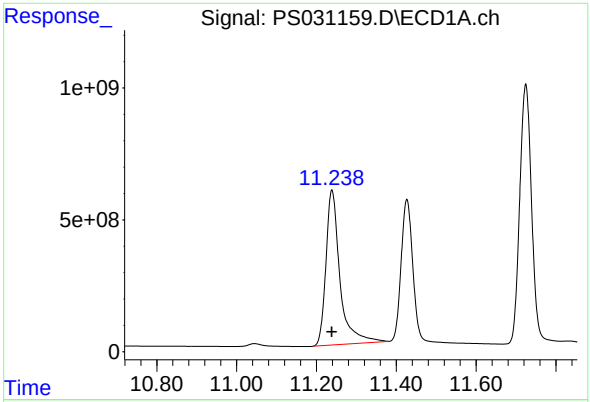

#14 DINOSEB

R.T.: 11.427 min
Delta R.T.: 0.000 min
Response: 10869651077
Conc: 705.00 ng/ml




#14 DINOSEB

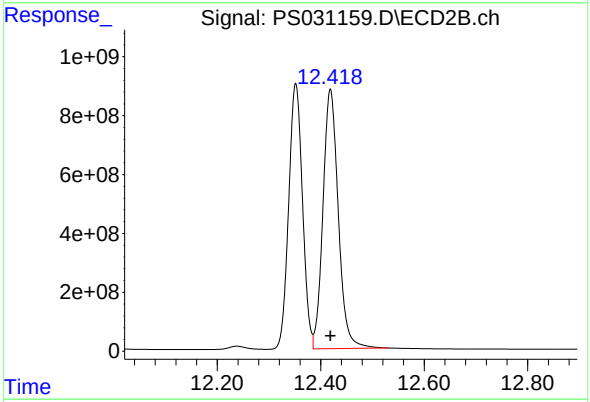
R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 7928284747
Conc: 705.00 ng/ml




#15 Picloram

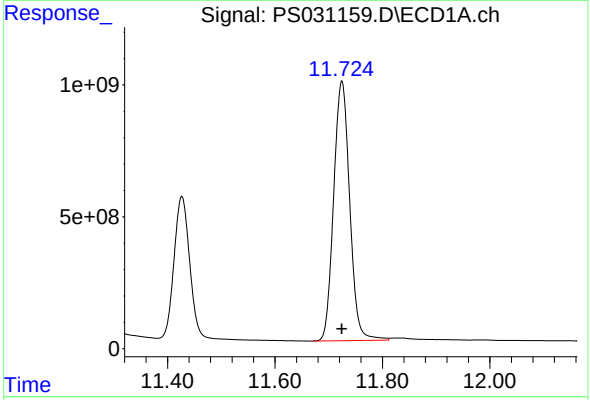
R.T.: 11.239 min
Delta R.T.: 0.000 min
Response: 14344036300
Conc: 712.50 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC750



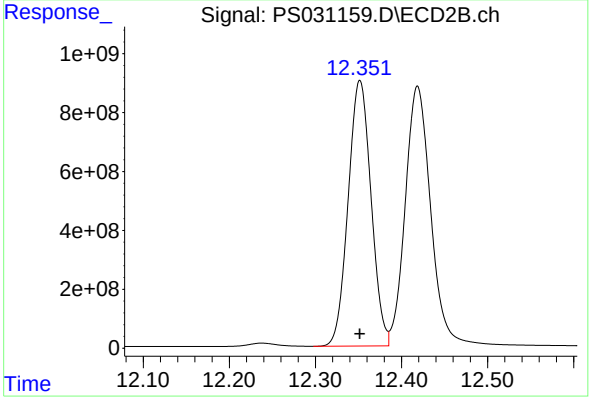

#15 Picloram

R.T.: 12.419 min
Delta R.T.: 0.000 min
Response: 18093254692
Conc: 712.50 ng/ml




#16 DCPA

R.T.: 11.724 min
Delta R.T.: 0.000 min
Response: 20392160883
Conc: 720.00 ng/ml




#16 DCPA

R.T.: 12.352 min
Delta R.T.: 0.000 min
Response: 16674128017
Conc: 720.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 16:15
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:10:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.325 | 7.767 | 4081.1E6 | 963.1E6 | 960.548 | 974.410 |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.689 | 2.704 | 5453.5E6 | 2469.7E6 | 881.153 | 886.533 |
| 2) T | 3,5-DICHL... | 6.488 | 6.713 | 4802.5E6 | 1352.4E6 | 894.170 | 907.714 |
| 3) T | 4-Nitroph... | 7.124 | 7.299 | 1421.4E6 | 1607.0E6 | 885.429 | 900.562 |
| 5) T | DICAMBA | 7.514 | 7.969 | 14833.0E6 | 5935.2E6 | 911.687 | 924.924 |
| 6) T | MCPP | 7.697 | 8.069 | 988.3E6 | 202.3E6 | 96.010 | 94.579 |
| 7) T | MCPA | 7.847 | 8.319 | 1186.7E6 | 292.4E6 | 94.362 | 92.559 |
| 8) T | DICHLORPROP | 8.226 | 8.688 | 3335.1E6 | 1341.1E6 | 905.388 | 910.253 |
| 9) T | 2,4-D | 8.458 | 9.025 | 3339.3E6 | 1508.0E6 | 913.771 | 910.492 |
| 10) T | Pentachlo... | 8.766 | 9.548 | 47049.8E6 | 36703.3E6 | 821.015 | 918.463 |
| 11) T | 2,4,5-TP ... | 9.343 | 9.929 | 19814.3E6 | 13630.7E6 | 915.689 | 918.454 |
| 12) T | 2,4,5-T | 9.637 | 10.356 | 18055.2E6 | 13055.2E6 | 925.505 | 922.208 |
| 13) T | 2,4-DB | 10.214 | 10.924 | 2771.7E6 | 1069.0E6 | 935.560 | 923.814 |
| 14) T | DINOSEB | 11.428 | 11.308 | 14020.1E6 | 10337.9E6 | 909.338 | 919.272 |
| 15) T | Picloram | 11.239 | 12.419 | 19111.4E6 | 23828.6E6 | 949.306 | 938.353 |
| 16) T | DCPA | 11.725 | 12.353 | 25980.1E6 | 21487.8E6 | 917.296 | 927.856 |

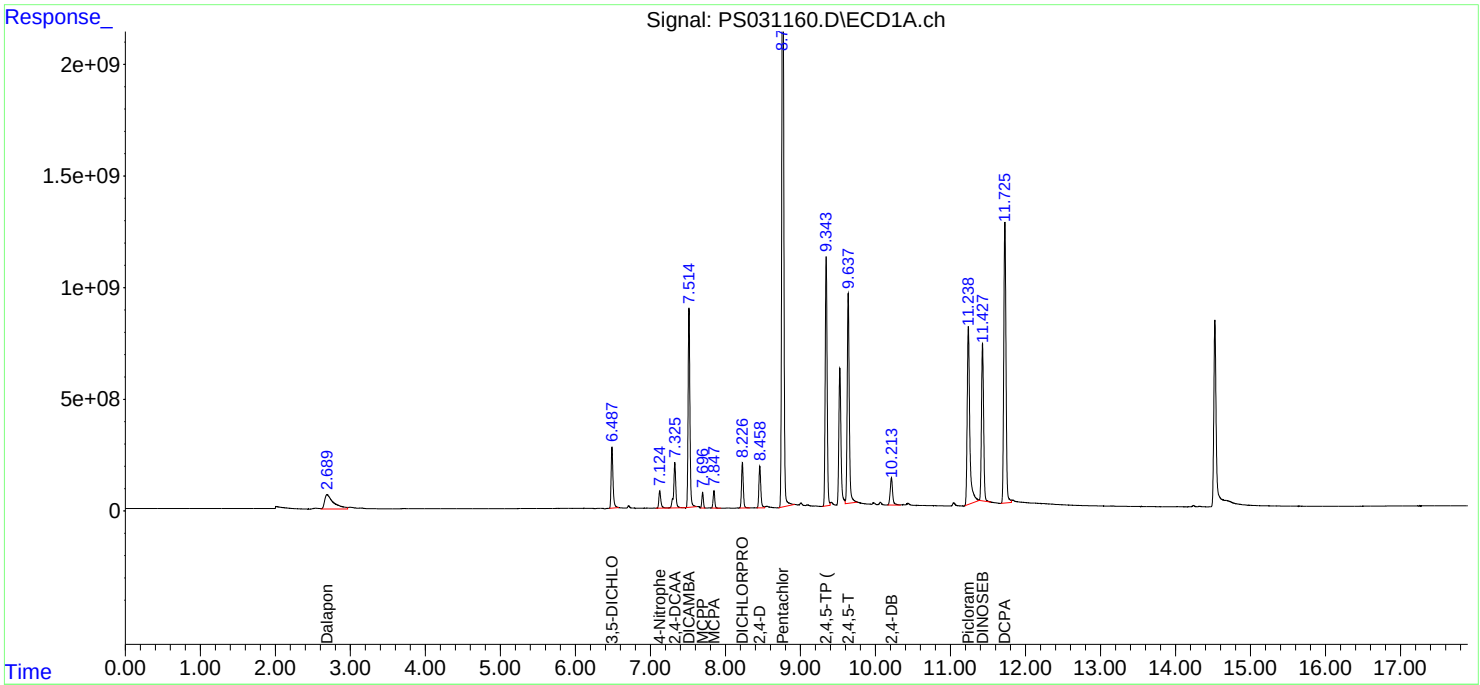
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

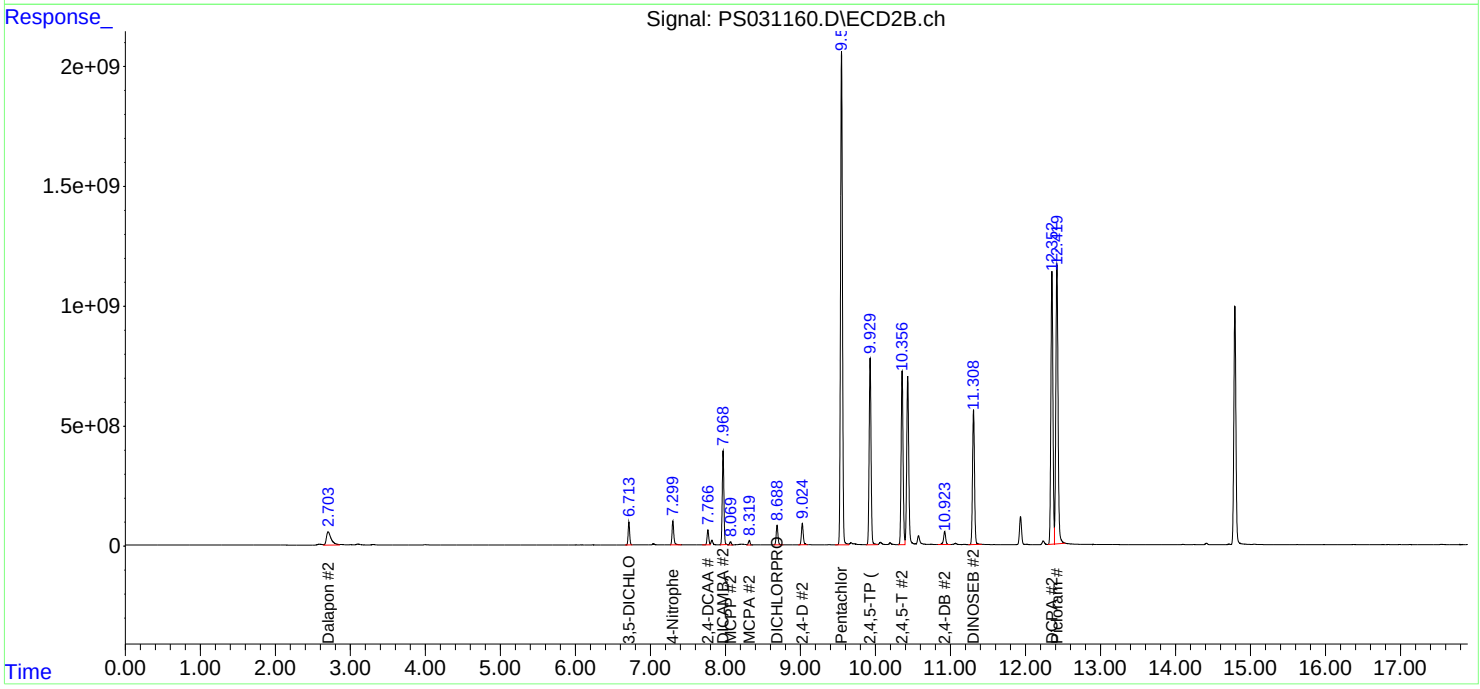
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 16:15
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

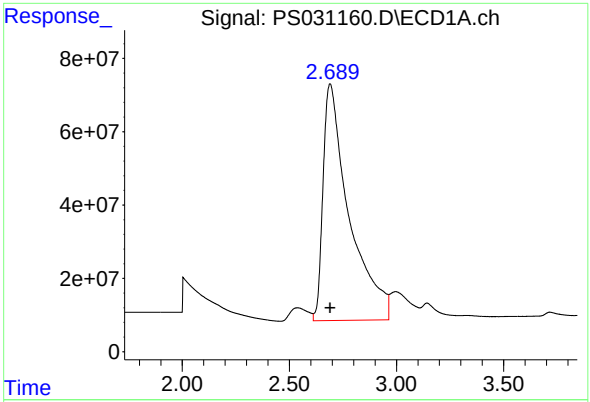
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:10:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



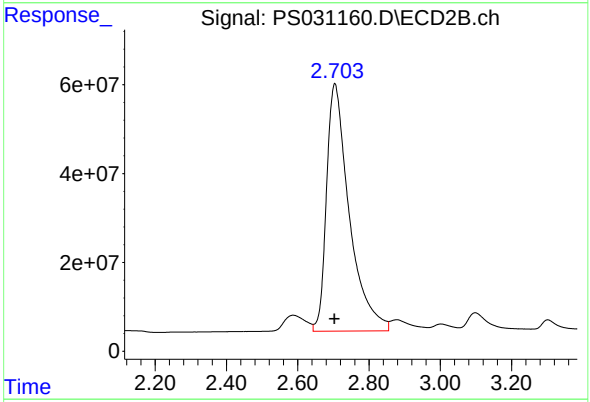






#1 Dalapon

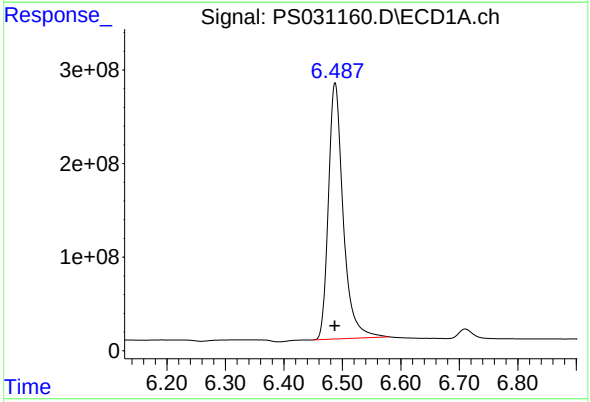
R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 5453482387
Conc: 881.15 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



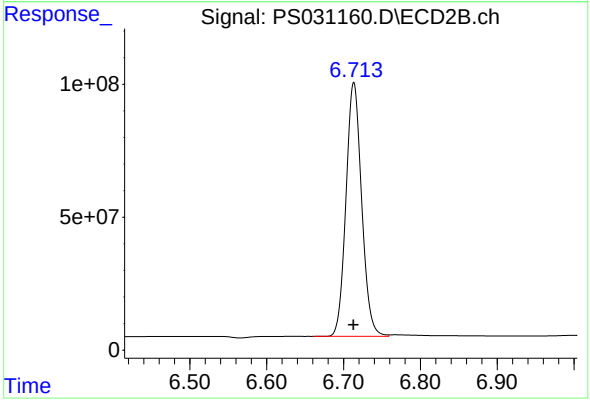

#1 Dalapon

R.T.: 2.704 min
Delta R.T.: 0.000 min
Response: 2469740297
Conc: 886.53 ng/ml



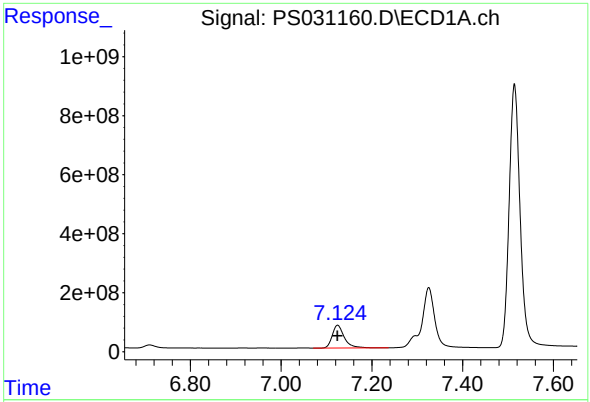

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.488 min
Delta R.T.: 0.000 min
Response: 4802454215
Conc: 894.17 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

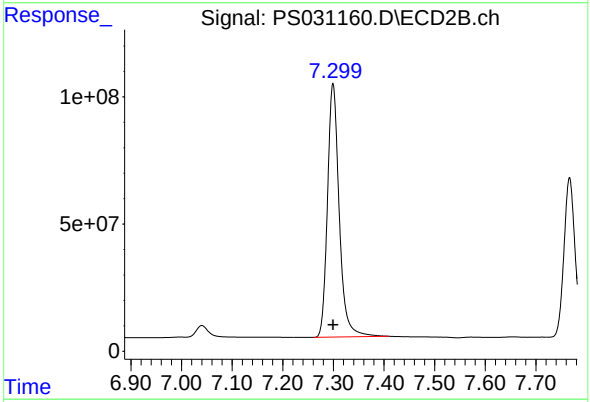
R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 1352413139
Conc: 907.71 ng/ml




#3 4-Nitrophenol

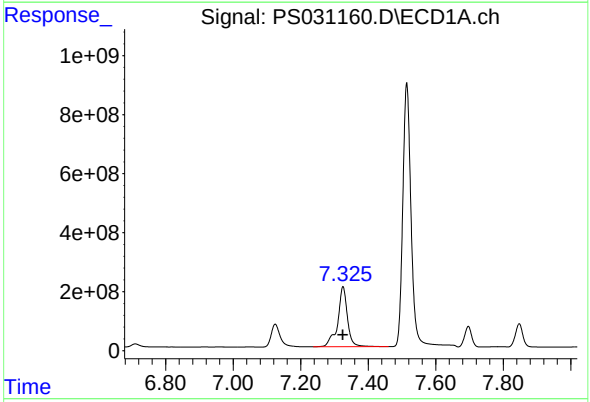
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1421384436
Conc: 885.43 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



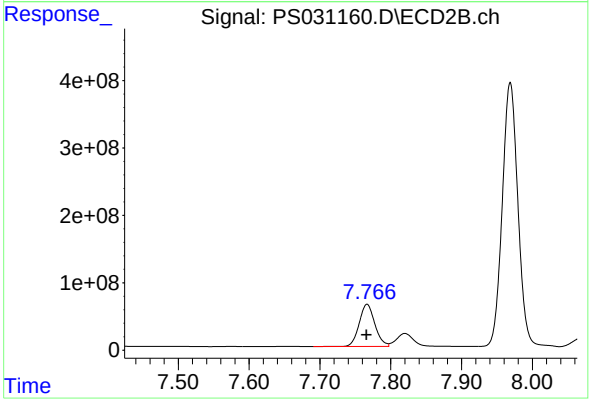

#3 4-Nitrophenol

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 1607035149
Conc: 900.56 ng/ml



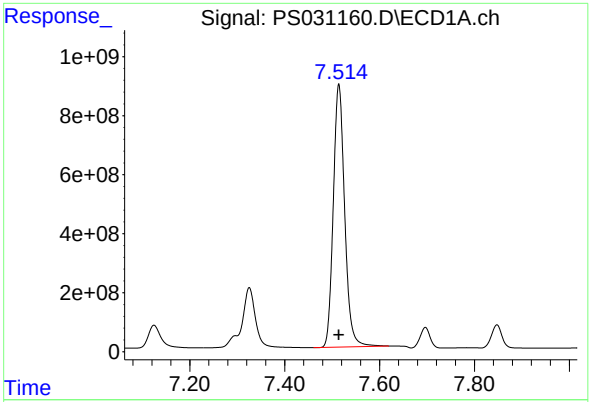

#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 4081100306
Conc: 960.55 ng/ml




#4 2,4-DCAA

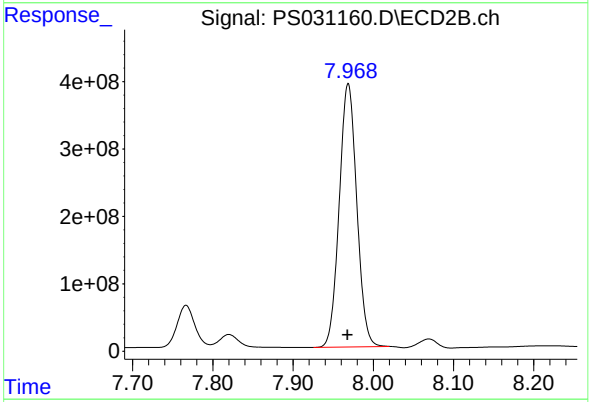
R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 963100505
Conc: 974.41 ng/ml




#5 DICAMBA

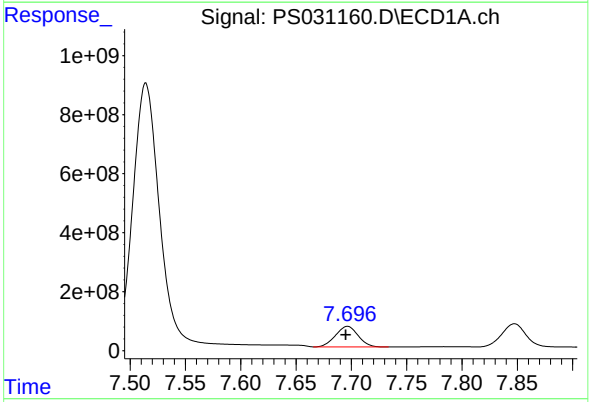
R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 14832958607
Conc: 911.69 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



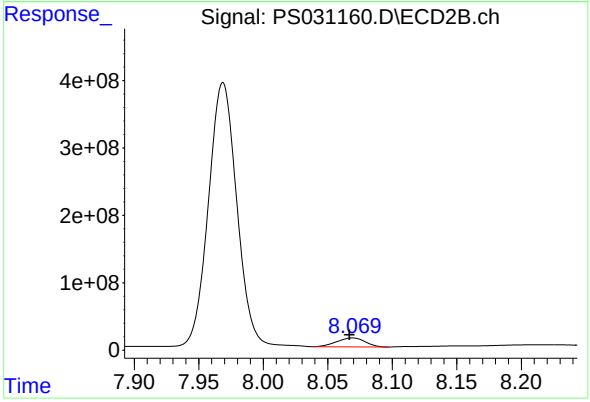

#5 DICAMBA

R.T.: 7.969 min
Delta R.T.: 0.000 min
Response: 5935186825
Conc: 924.92 ng/ml



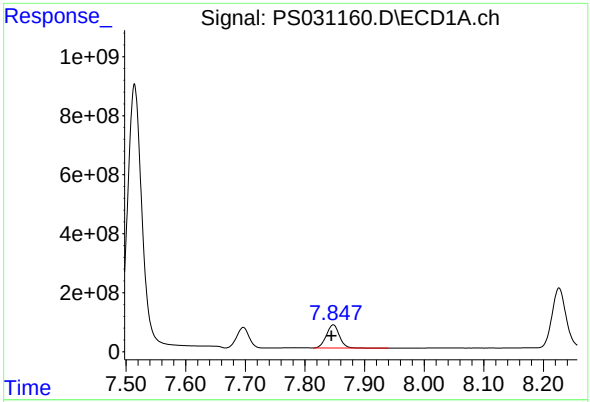

#6 MCPP

R.T.: 7.697 min
Delta R.T.: 0.002 min
Response: 988309419
Conc: 96.01 ug/ml




#6 MCPP

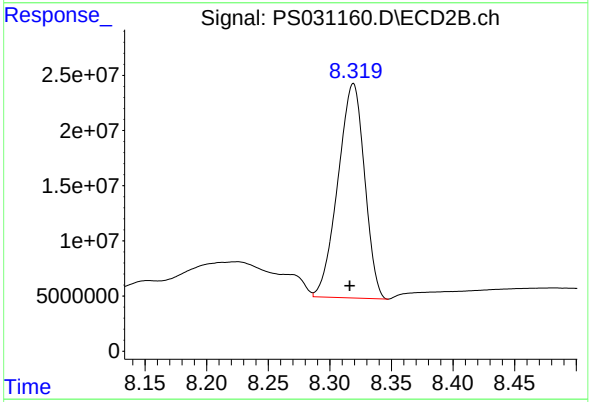
R.T.: 8.069 min
Delta R.T.: 0.003 min
Response: 202250812
Conc: 94.58 ug/ml




#7 MCPA

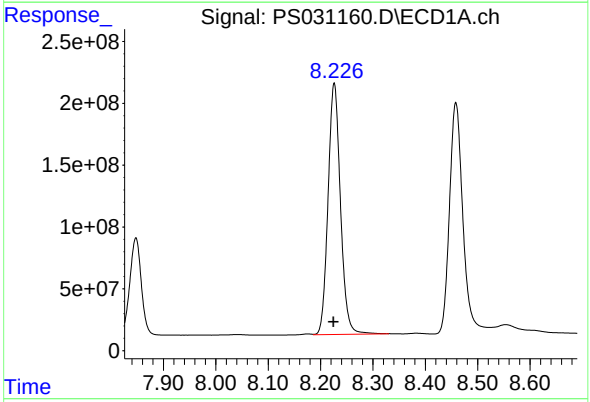
R.T.: 7.847 min
Delta R.T.: 0.003 min
Response: 1186681895
Conc: 94.36 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



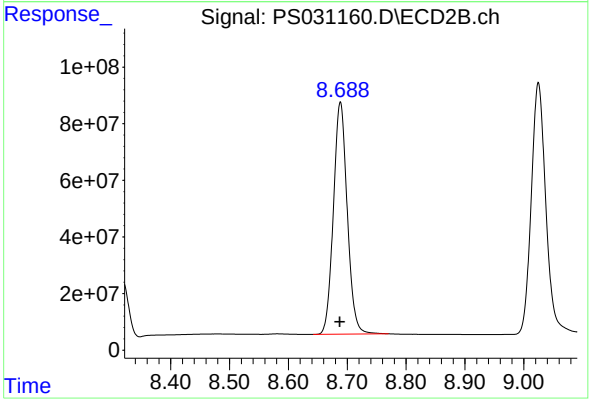

#7 MCPA

R.T.: 8.319 min
Delta R.T.: 0.003 min
Response: 292445492
Conc: 92.56 ug/ml



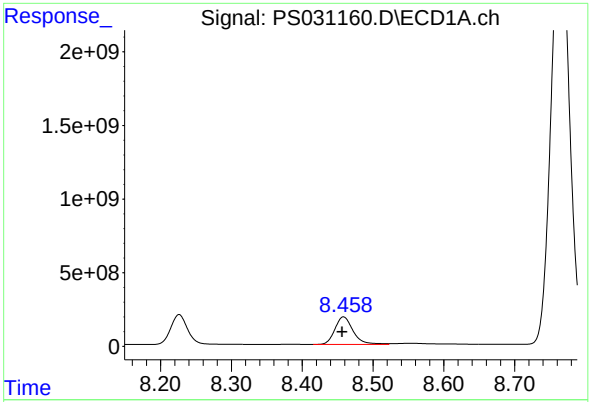

#8 DICHLORPROP

R.T.: 8.226 min
Delta R.T.: 0.002 min
Response: 3335100839
Conc: 905.39 ng/ml




#8 DICHLORPROP

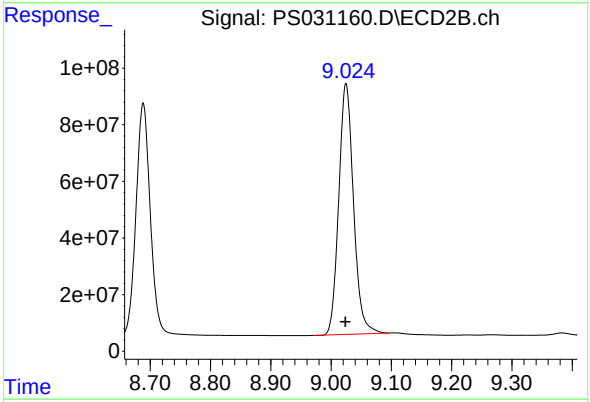
R.T.: 8.688 min
Delta R.T.: 0.000 min
Response: 1341135683
Conc: 910.25 ng/ml




#9 2,4-D

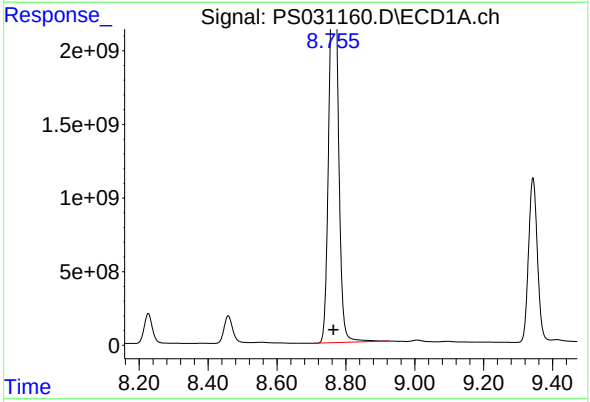
R.T.: 8.458 min
Delta R.T.: 0.002 min
Response: 3339344621
Conc: 913.77 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



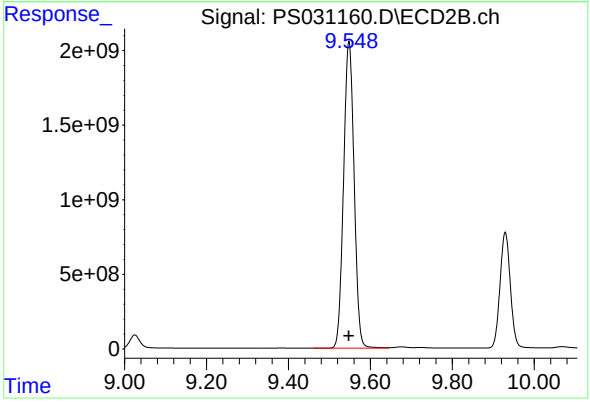

#9 2,4-D

R.T.: 9.025 min
Delta R.T.: 0.001 min
Response: 1507960462
Conc: 910.49 ng/ml



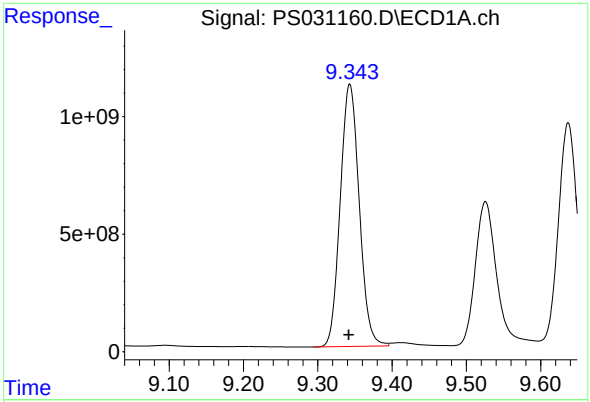

#10 Pentachlorophenol

R.T.: 8.766 min
Delta R.T.: 0.002 min
Response: 47049761792
Conc: 821.01 ng/ml




#10 Pentachlorophenol

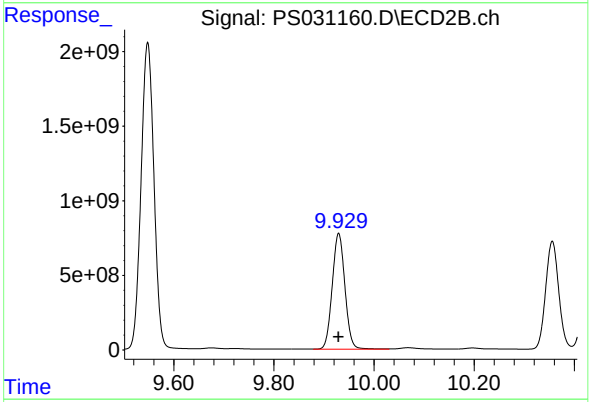
R.T.: 9.548 min
Delta R.T.: 0.000 min
Response: 36703311197
Conc: 918.46 ng/ml




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

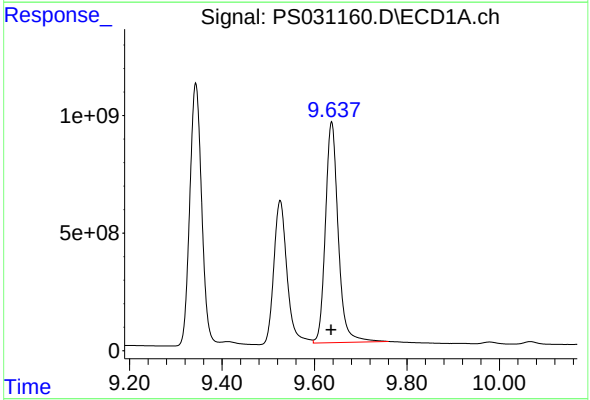
R.T.: 9.343 min
Delta R.T.: 0.001 min
Response: 19814320460
Conc: 915.69 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



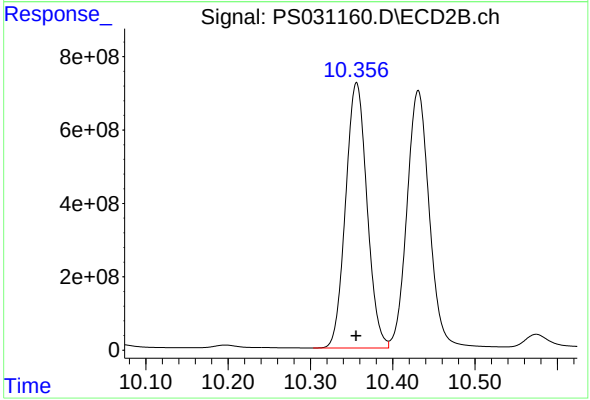

#11 2,4,5-TP (SILVEX)

R.T.: 9.929 min
Delta R.T.: 0.000 min
Response: 13630690259
Conc: 918.45 ng/ml



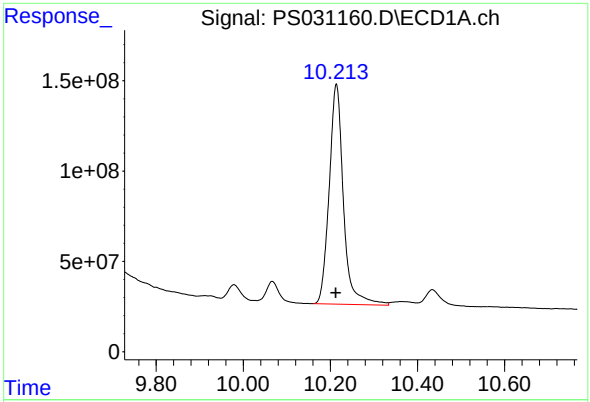

#12 2,4,5-T

R.T.: 9.637 min
Delta R.T.: 0.001 min
Response: 18055208033
Conc: 925.51 ng/ml




#12 2,4,5-T

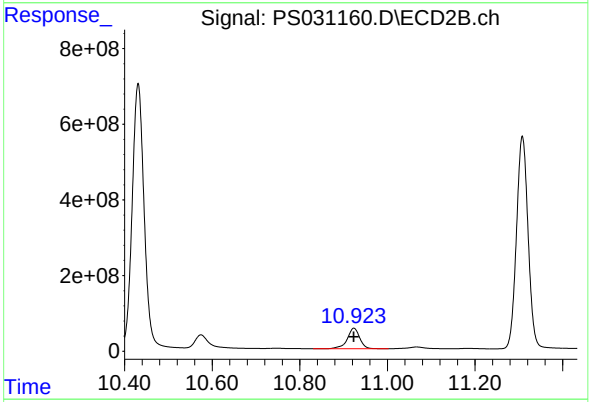
R.T.: 10.356 min
Delta R.T.: 0.000 min
Response: 13055215548
Conc: 922.21 ng/ml




#13 2,4-DB

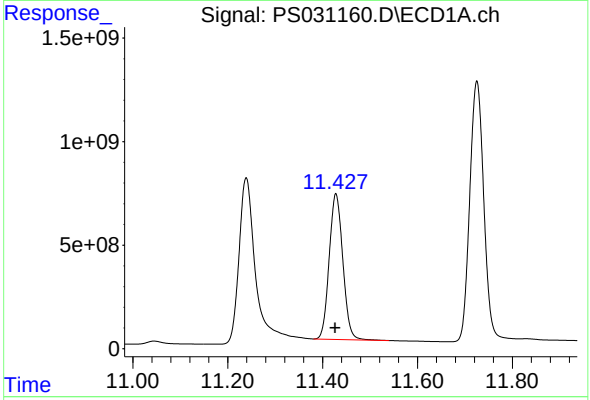
R.T.: 10.214 min
Delta R.T.: 0.001 min
Response: 2771712245
Conc: 935.56 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



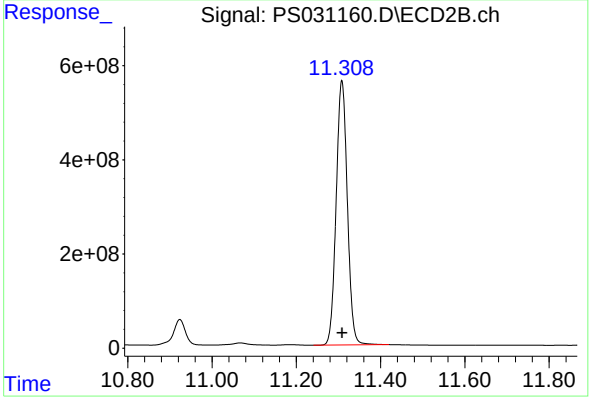

#13 2,4-DB

R.T.: 10.924 min
Delta R.T.: 0.000 min
Response: 1069032150
Conc: 923.81 ng/ml



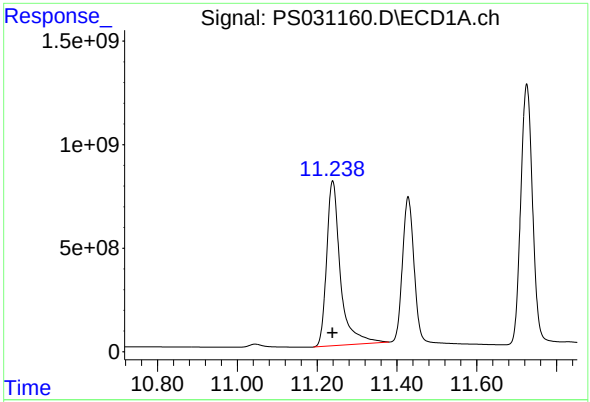

#14 DINOSEB

R.T.: 11.428 min
Delta R.T.: 0.001 min
Response: 14020122881
Conc: 909.34 ng/ml




#14 DINOSEB

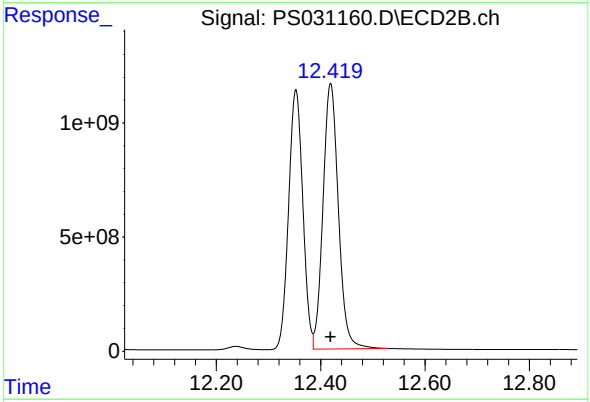
R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 10337937996
Conc: 919.27 ng/ml




#15 Picloram

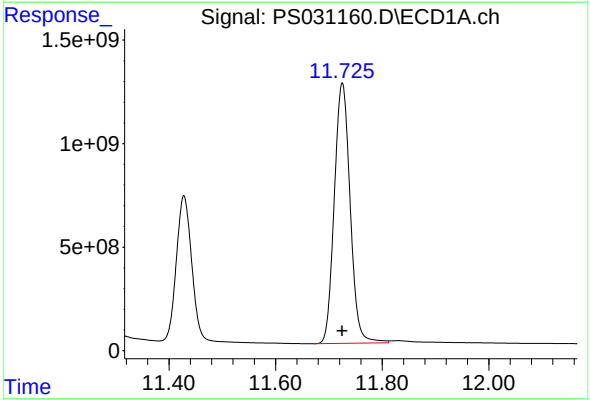
R.T.: 11.239 min
Delta R.T.: 0.000 min
Response: 19111405619
Conc: 949.31 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1000



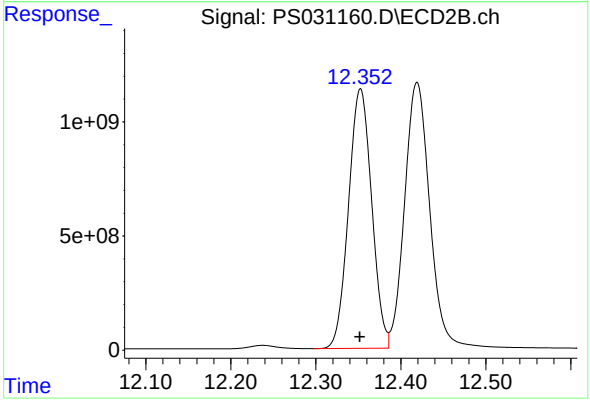

#15 Picloram

R.T.: 12.419 min
Delta R.T.: 0.000 min
Response: 23828587760
Conc: 938.35 ng/ml




#16 DCPA

R.T.: 11.725 min
Delta R.T.: 0.000 min
Response: 25980070197
Conc: 917.30 ng/ml




#16 DCPA

R.T.: 12.353 min
Delta R.T.: 0.000 min
Response: 21487768861
Conc: 927.86 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 16:39
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: Jul 22 03:10:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | | System Monitoring Compounds | | | | | | |
| 4) | S | 2,4-DCAA | 7.325 | 7.766 | 5875.5E6 | 1404.3E6 | 1382.891 | 1420.834 |
| | | Target Compounds | | | | | | |
| 1) | T | Dalapon | 2.690 | 2.704 | 7938.8E6 | 3614.4E6 | 1282.720 | 1297.406 |
| 2) | T | 3,5-DICHL... | 6.487 | 6.713 | 6892.0E6 | 2008.4E6 | 1283.221 | 1348.011 |
| 3) | T | 4-Nitroph... | 7.124 | 7.299 | 2109.3E6 | 2405.8E6 | 1313.968 | 1348.194 |
| 5) | T | DICAMBA | 7.514 | 7.968 | 21449.9E6 | 8752.1E6 | 1318.388 | 1363.903 |
| 6) | T | MCPP | 7.700 | 8.072 | 1564.7E6 | 297.8E6 | 152.005 | 139.276 |
| 7) | T | MCPA | 7.851 | 8.323 | 1839.8E6 | 444.0E6 | 146.296 | 140.535 |
| 8) | T | DICHLORPROP | 8.226 | 8.688 | 4846.5E6 | 1942.3E6 | 1315.694 | 1318.255 |
| 9) | T | 2,4-D | 8.457 | 9.024 | 4868.8E6 | 2197.2E6 | 1332.281 | 1326.671 |
| 10) | T | Pentachlo... | 8.770 | 9.550 | 55402.7E6 | 46681.0E6 | 966.773 | 1168.145 |
| 11) | T | 2,4,5-TP ... | 9.342 | 9.929 | 28356.6E6 | 19507.8E6 | 1310.459 | 1314.463 |
| 12) | T | 2,4,5-T | 9.636 | 10.356 | 26262.2E6 | 18777.4E6 | 1346.194 | 1326.415 |
| 13) | T | 2,4-DB | 10.212 | 10.924 | 4222.7E6 | 1570.0E6 | 1425.313 | 1356.718 |
| 14) | T | DINOSEB | 11.427 | 11.308 | 20292.3E6 | 15081.1E6 | 1316.146 | 1341.040 |
| 15) | T | Picloram | 11.238 | 12.419 | 29336.1E6 | 34911.0E6 | 1457.188 | 1374.771 |
| 16) | T | DCPA | 11.725 | 12.353 | 37119.0E6 | 30414.9E6 | 1310.584 | 1313.335 |

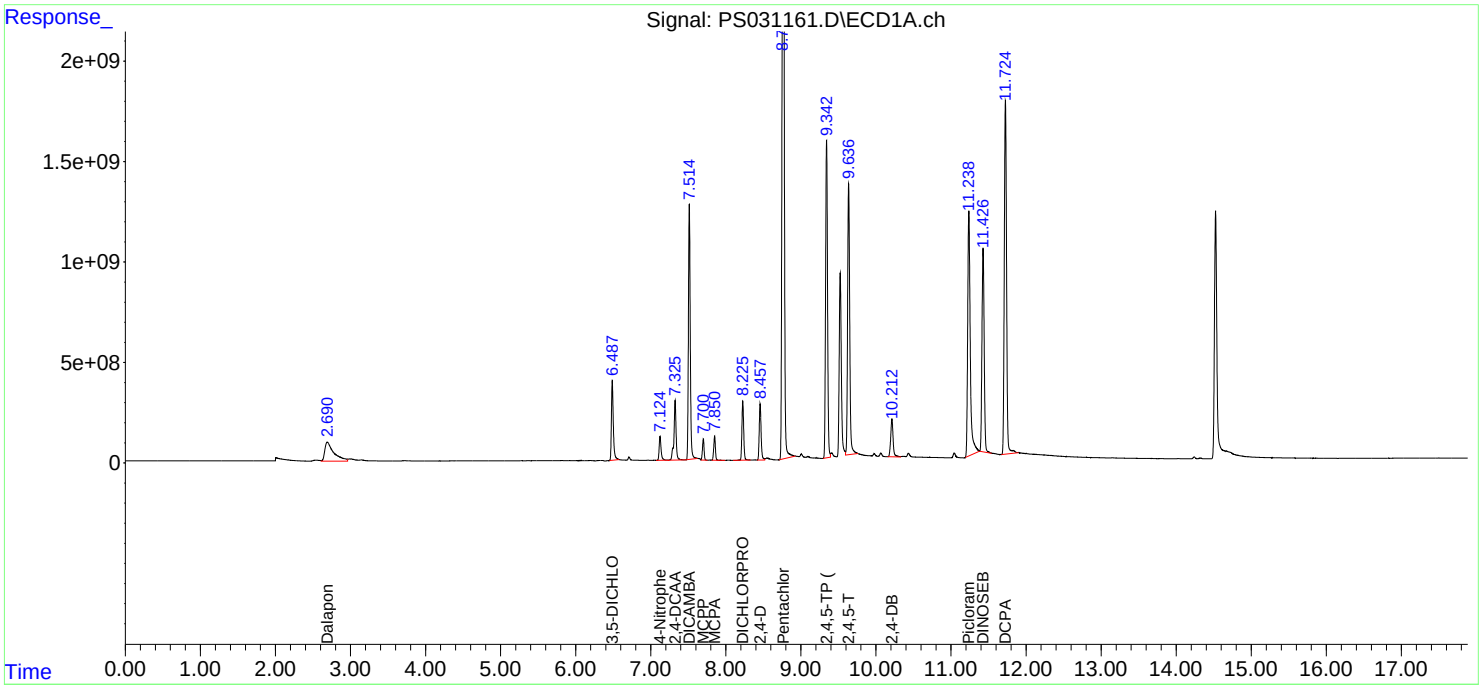
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

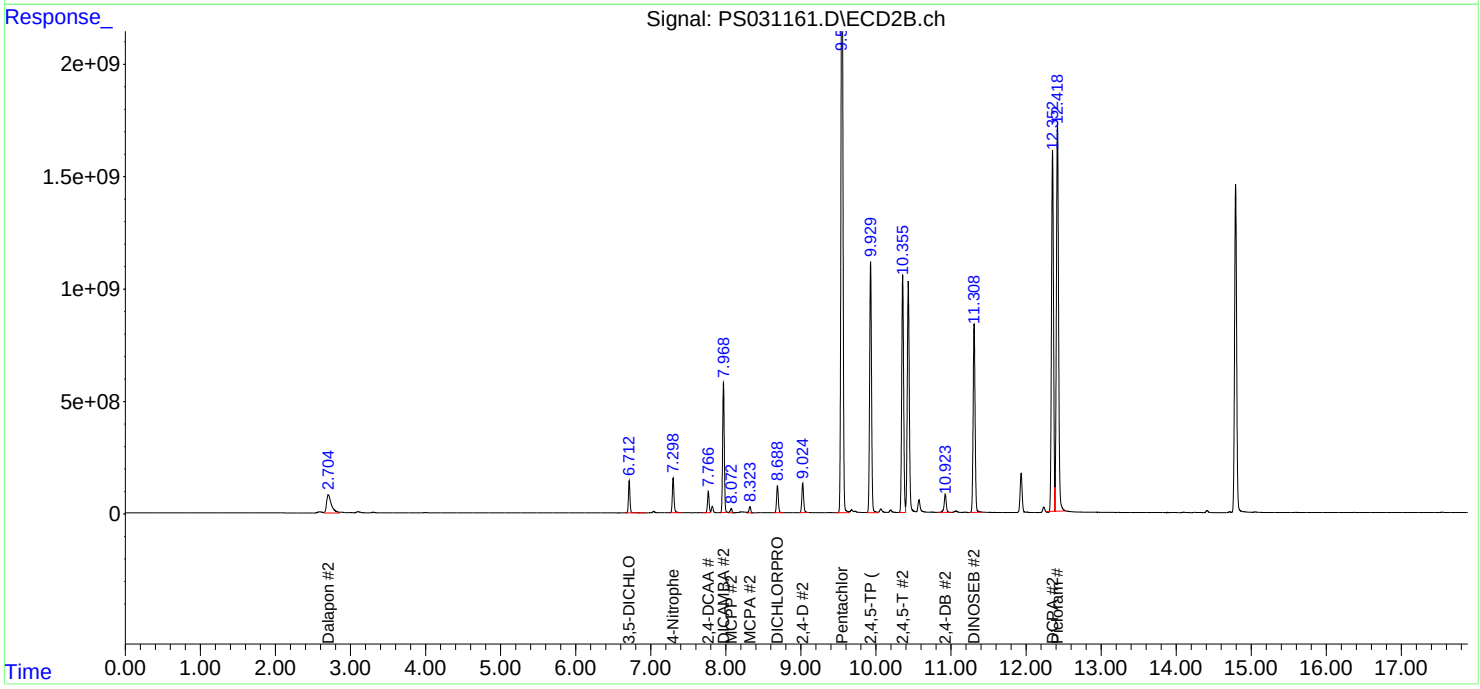
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 16:39
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

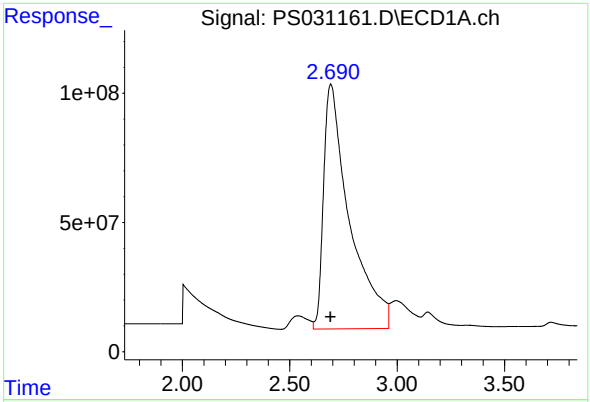
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:10:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 02:56:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



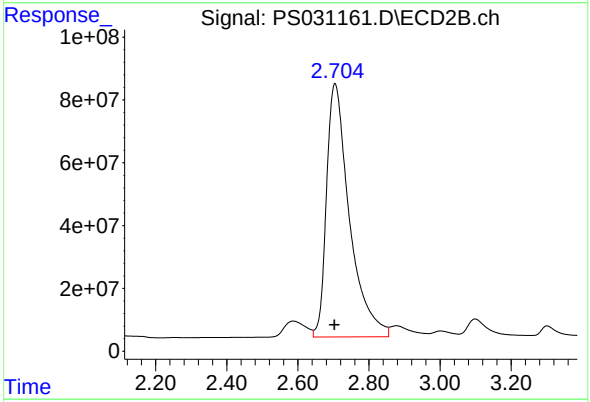






#1 Dalapon

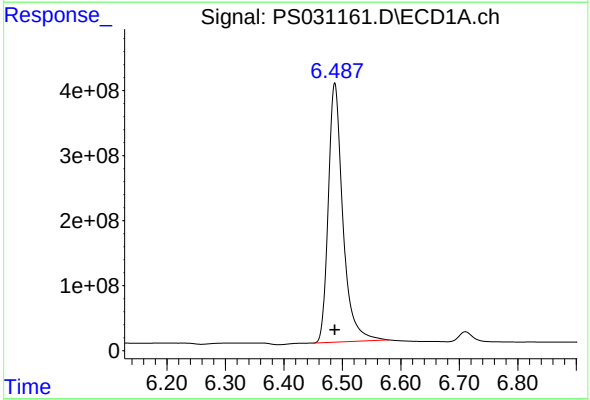
R.T.: 2.690 min
Delta R.T.: 0.000 min
Response: 7938789953
Conc: 1282.72 ng/m

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



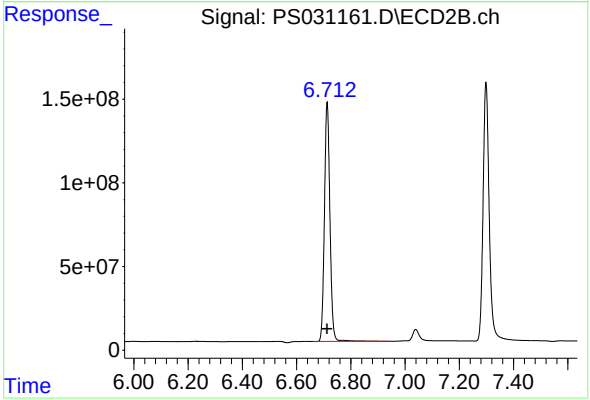

#1 Dalapon

R.T.: 2.704 min
Delta R.T.: 0.000 min
Response: 3614366802
Conc: 1297.41 ng/ml



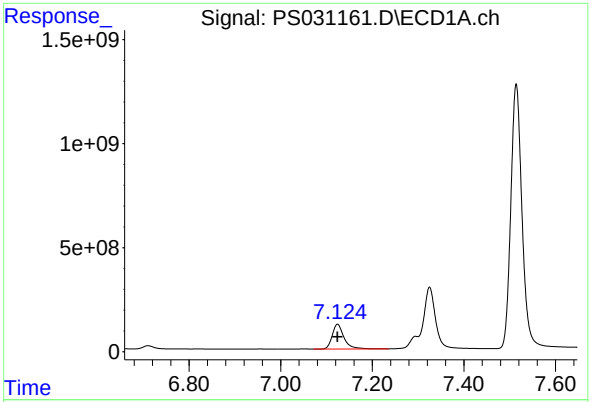

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 6891984644
Conc: 1283.22 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

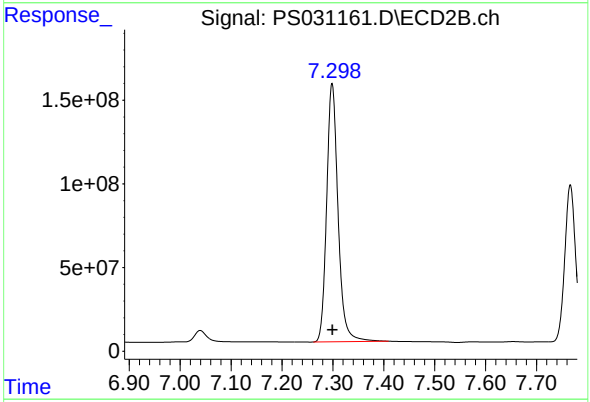
R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 2008416196
Conc: 1348.01 ng/ml




#3 4-Nitrophenol

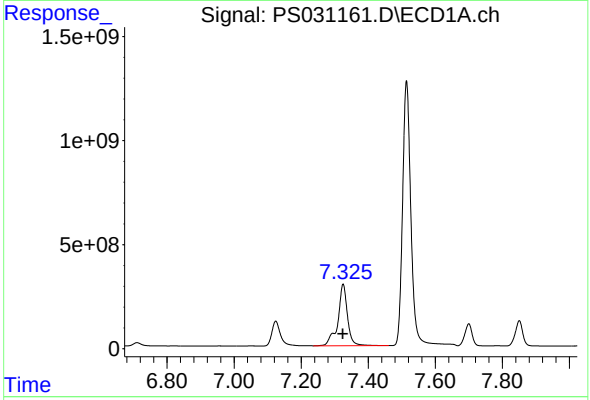
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 2109320808
Conc: 1313.97 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



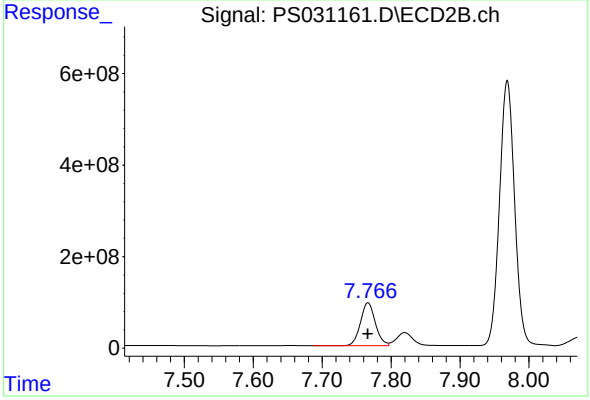

#3 4-Nitrophenol

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 2405825772
Conc: 1348.19 ng/ml



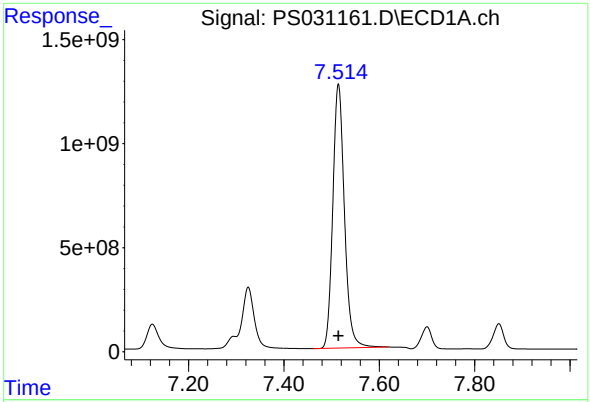

#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 5875520295
Conc: 1382.89 ng/ml




#4 2,4-DCAA

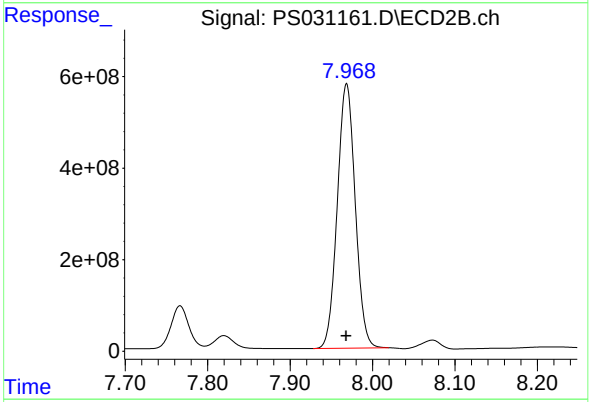
R.T.: 7.766 min
Delta R.T.: 0.000 min
Response: 1404343492
Conc: 1420.83 ng/ml




#5 DICAMBA

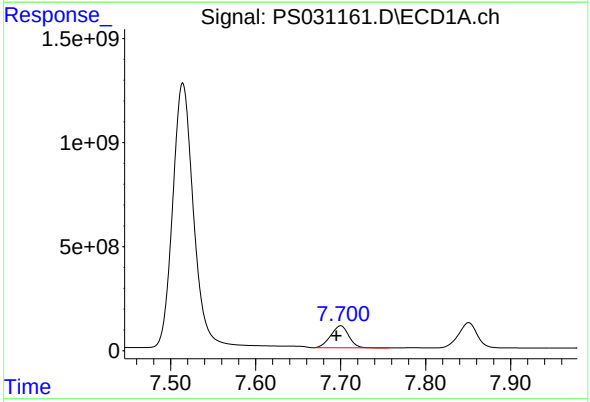
R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 21449889213
Conc: 1318.39 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



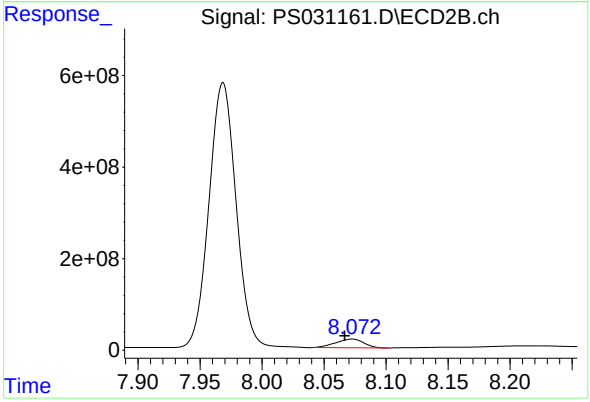

#5 DICAMBA

R.T.: 7.968 min
Delta R.T.: 0.000 min
Response: 8752090275
Conc: 1363.90 ng/ml



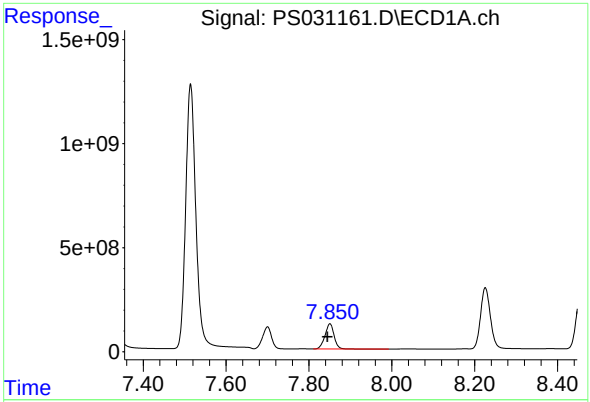

#6 MCPP

R.T.: 7.700 min
Delta R.T.: 0.005 min
Response: 1564708528
Conc: 152.01 ug/ml




#6 MCPP

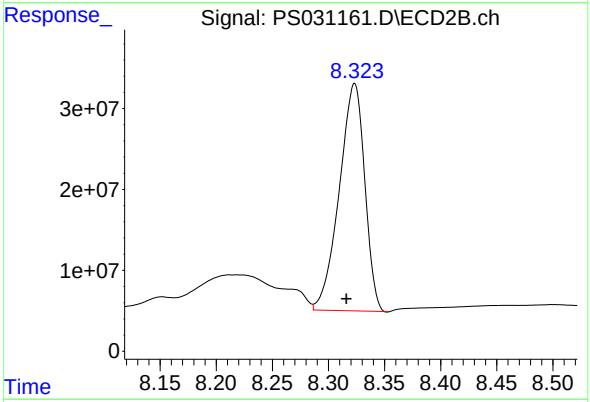
R.T.: 8.072 min
Delta R.T.: 0.006 min
Response: 297833100
Conc: 139.28 ug/ml




#7 MCPA

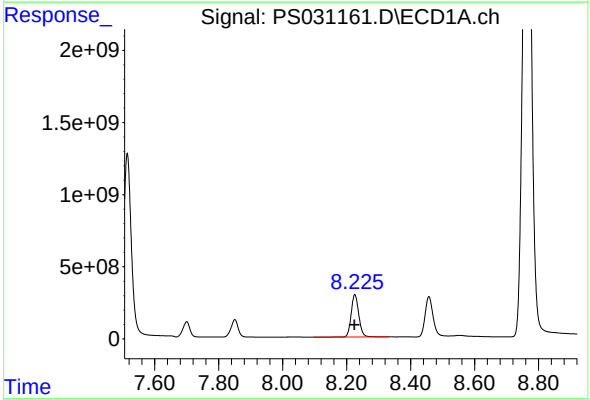
R.T.: 7.851 min
Delta R.T.: 0.006 min
Response: 1839792358
Conc: 146.30 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



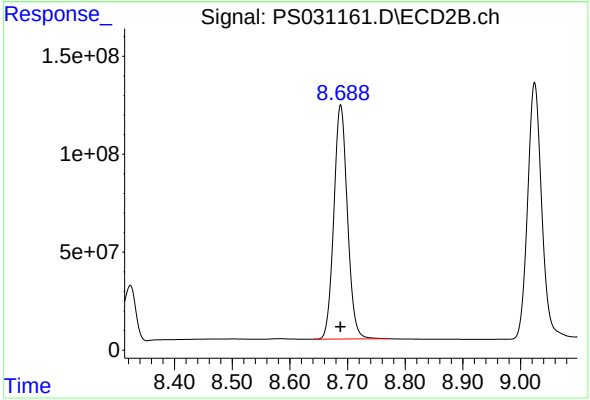

#7 MCPA

R.T.: 8.323 min
Delta R.T.: 0.007 min
Response: 444027593
Conc: 140.54 ug/ml



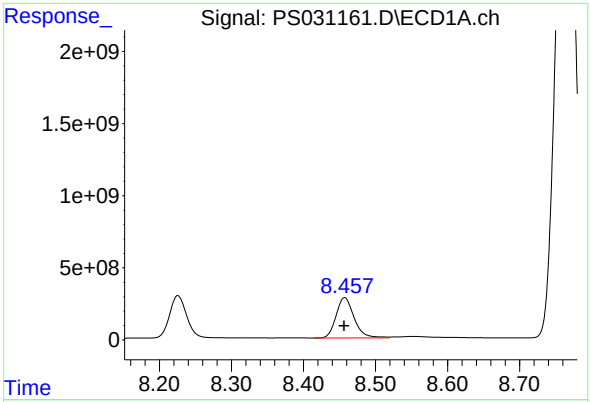

#8 DICHLORPROP

R.T.: 8.226 min
Delta R.T.: 0.001 min
Response: 4846509261
Conc: 1315.69 ng/ml




#8 DICHLORPROP

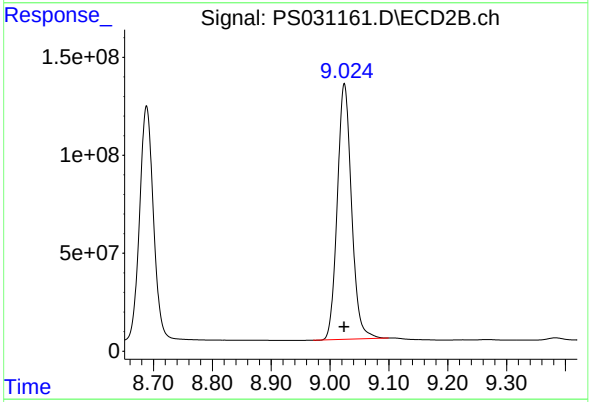
R.T.: 8.688 min
Delta R.T.: 0.000 min
Response: 1942272785
Conc: 1318.26 ng/ml




#9 2,4-D

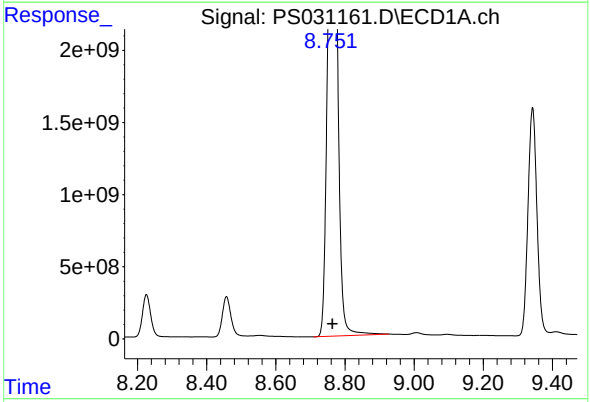
R.T.: 8.457 min
Delta R.T.: 0.000 min
Response: 4868771437
Conc: 1332.28 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



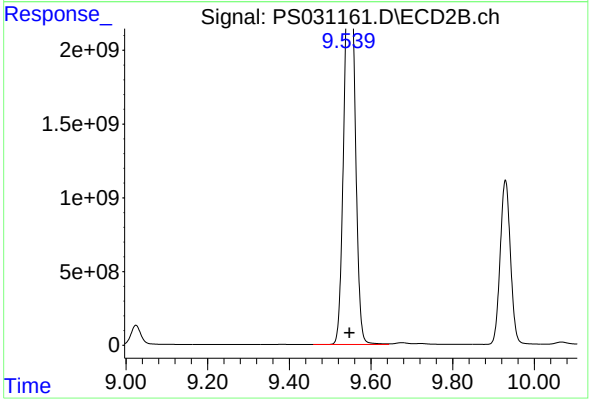

#9 2,4-D

R.T.: 9.024 min
Delta R.T.: 0.000 min
Response: 2197237652
Conc: 1326.67 ng/ml



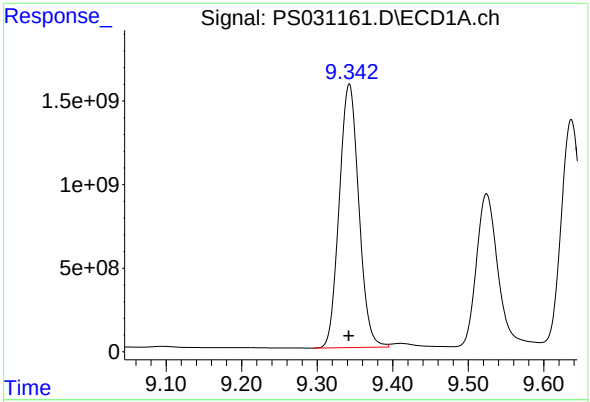

#10 Pentachlorophenol

R.T.: 8.770 min
Delta R.T.: 0.006 min
Response: 55402717037
Conc: 966.77 ng/ml




#10 Pentachlorophenol

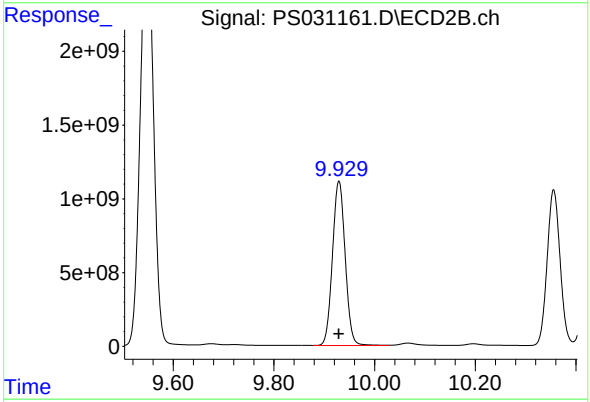
R.T.: 9.550 min
Delta R.T.: 0.002 min
Response: 46681007267
Conc: 1168.14 ng/ml




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

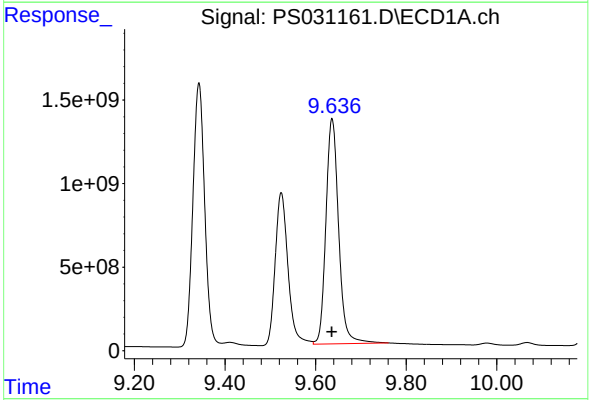
R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 28356634711
Conc: 1310.46 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



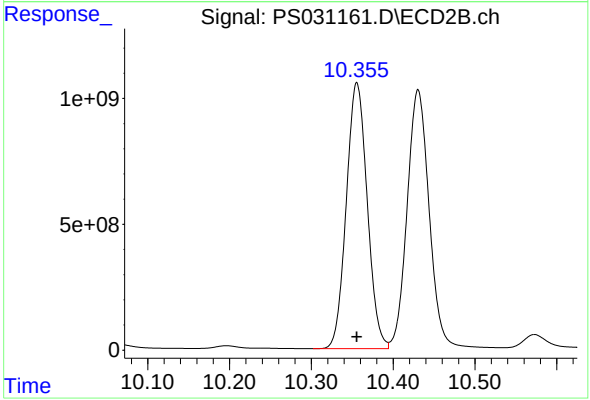

#11 2,4,5-TP (SILVEX)

R.T.: 9.929 min
Delta R.T.: 0.000 min
Response: 19507811794
Conc: 1314.46 ng/ml



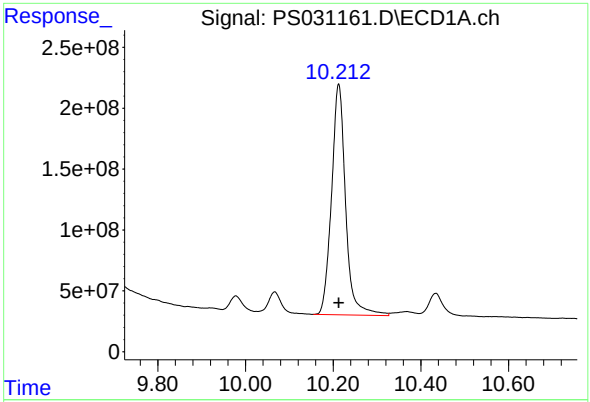

#12 2,4,5-T

R.T.: 9.636 min
Delta R.T.: 0.000 min
Response: 26262207350
Conc: 1346.19 ng/ml




#12 2,4,5-T

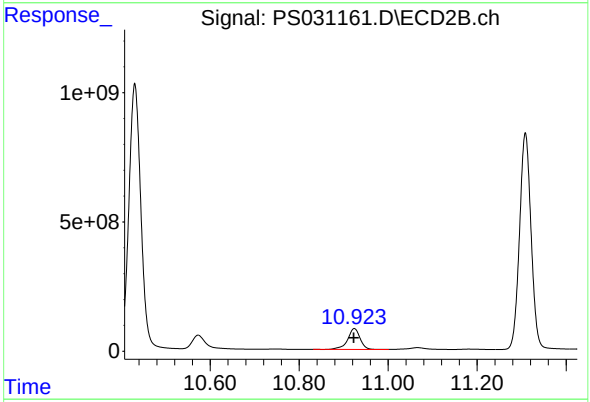
R.T.: 10.356 min
Delta R.T.: 0.000 min
Response: 18777365882
Conc: 1326.42 ng/ml




#13 2,4-DB

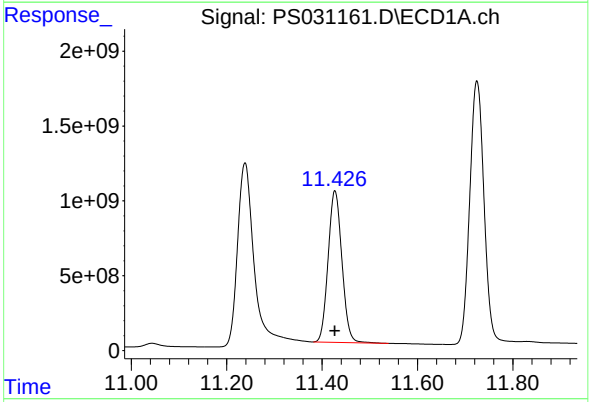
R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 4222668340
Conc: 1425.31 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



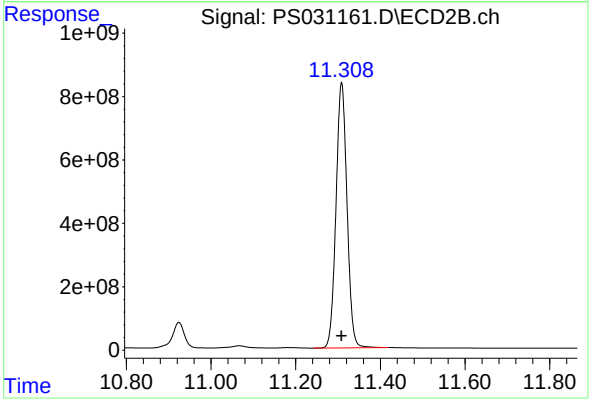

#13 2,4-DB

R.T.: 10.924 min
Delta R.T.: 0.001 min
Response: 1569985429
Conc: 1356.72 ng/ml



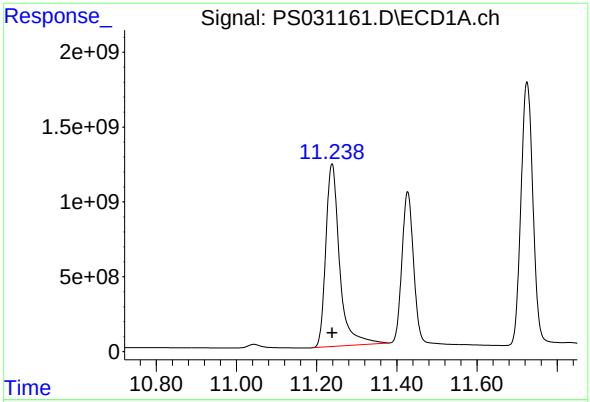

#14 DINOSEB

R.T.: 11.427 min
Delta R.T.: 0.000 min
Response: 20292267926
Conc: 1316.15 ng/ml




#14 DINOSEB

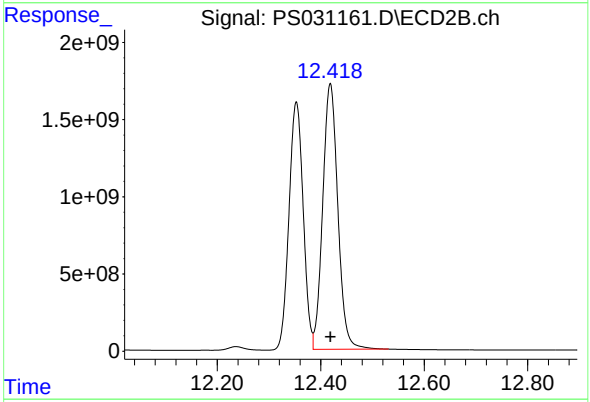
R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 15081056737
Conc: 1341.04 ng/ml




#15 Picloram

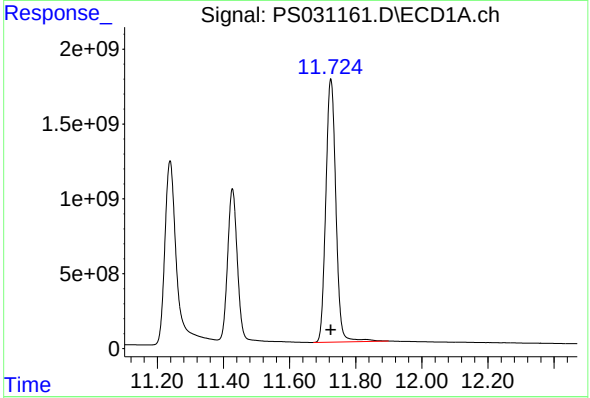
R.T.: 11.238 min
Delta R.T.: 0.000 min
Response: 29336086675
Conc: 1457.19 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDICC1500



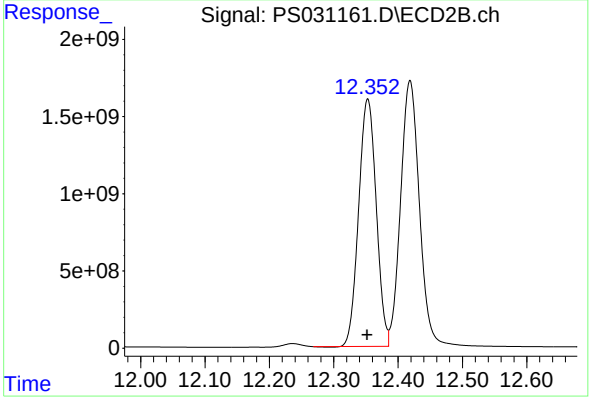

#15 Picloram

R.T.: 12.419 min
Delta R.T.: 0.000 min
Response: 34910992404
Conc: 1374.77 ng/ml




#16 DCPA

R.T.: 11.725 min
Delta R.T.: 0.000 min
Response: 37118952405
Conc: 1310.58 ng/ml




#16 DCPA

R.T.: 12.353 min
Delta R.T.: 0.001 min
Response: 30414883255
Conc: 1313.34 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 17:03
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:21:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.325 | 7.766 | 3151.9E6 | 737.7E6 | 724.866 | 726.846 |
| | Target Compounds | | | | | | |
| 1) T | Dalapon | 2.689 | 2.704 | 4173.3E6 | 1879.7E6 | 665.294 | 662.611 |
| 2) T | 3,5-DICHL... | 6.487 | 6.713 | 3720.4E6 | 1048.9E6 | 673.648 | 681.176 |
| 3) T | 4-Nitroph... | 7.124 | 7.299 | 1093.9E6 | 1208.1E6 | 663.431 | 667.683 |
| 5) T | DICAMBA | 7.514 | 7.968 | 11383.7E6 | 4491.4E6 | 690.051 | 695.985 |
| 6) T | MCPP | 7.695 | 8.067 | 717.7E6 | 149.1E6 | 71.694 | 71.777 |
| 7) T | MCPA | 7.845 | 8.316 | 870.1E6 | 218.8E6 | 69.526 | 69.334 |
| 8) T | DICHLORPROP | 8.225 | 8.688 | 2575.1E6 | 1032.5E6 | 673.767 | 681.551 |
| 9) T | 2,4-D | 8.457 | 9.024 | 2569.4E6 | 1160.9E6 | 687.928 | 683.569 |
| 10) T | Pentachlo... | 8.764 | 9.547 | 40612.6E6 | 28167.9E6 | 743.526 | 720.754 |
| 11) T | 2,4,5-TP ... | 9.342 | 9.929 | 15374.0E6 | 10489.0E6 | 700.294 | 704.236 |
| 12) T | 2,4,5-T | 9.636 | 10.356 | 13928.3E6 | 10005.6E6 | 713.254 | 703.659 |
| 13) T | 2,4-DB | 10.213 | 10.924 | 2126.9E6 | 808.9E6 | 711.349 | 691.028 |
| 14) T | DINOSEB | 11.428 | 11.308 | 10850.3E6 | 7842.7E6 | 696.895 | 693.919 |
| 15) T | Picloram | 11.238 | 12.419 | 14555.0E6 | 17953.2E6 | 727.512 | 721.155 |
| 16) T | DCPA | 11.724 | 12.352 | 20286.6E6 | 16452.0E6 | 707.009 | 714.185 |

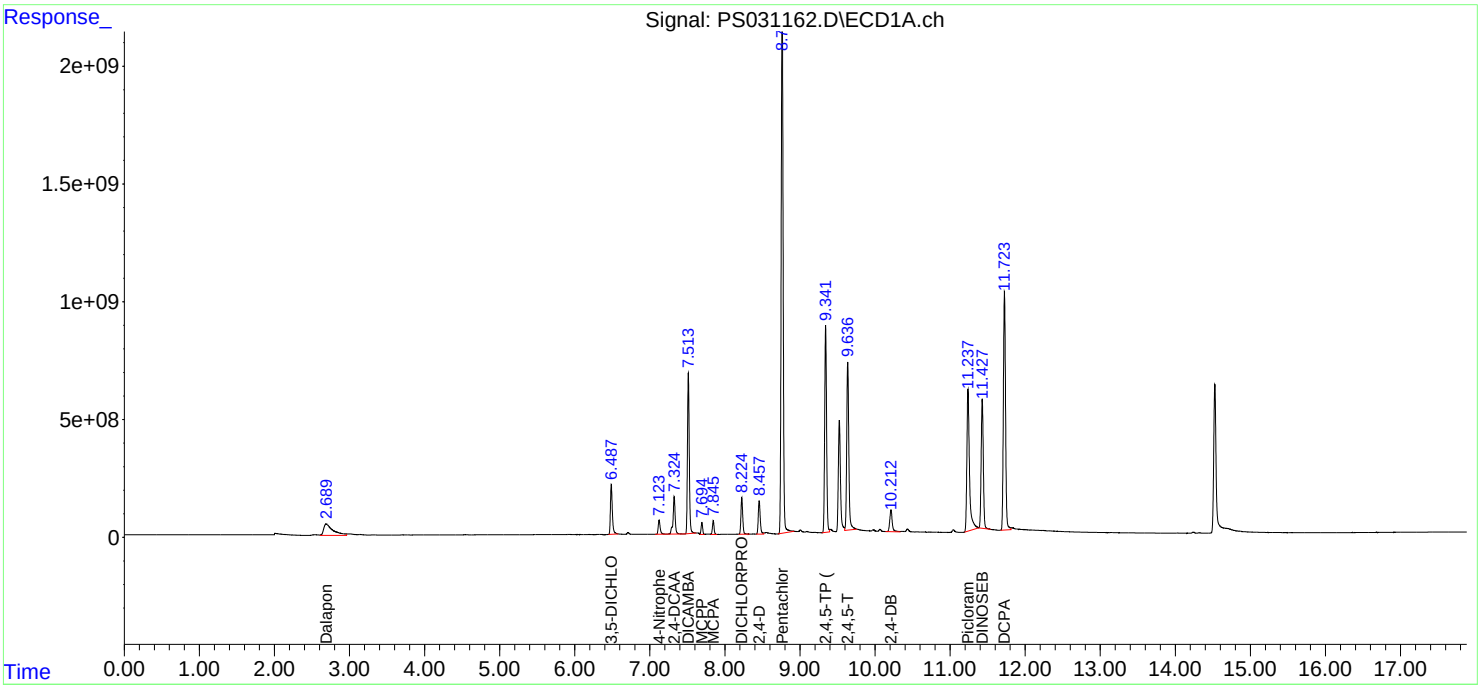
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

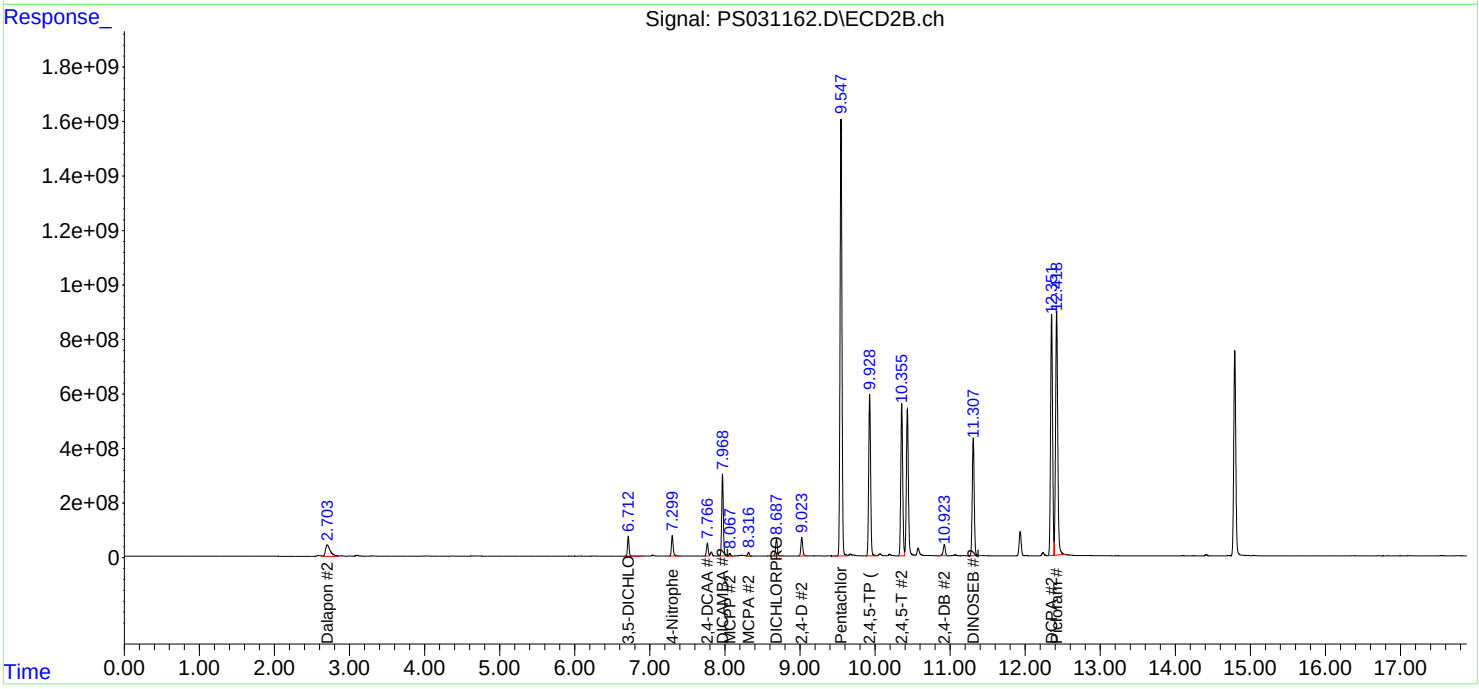
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 17:03
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

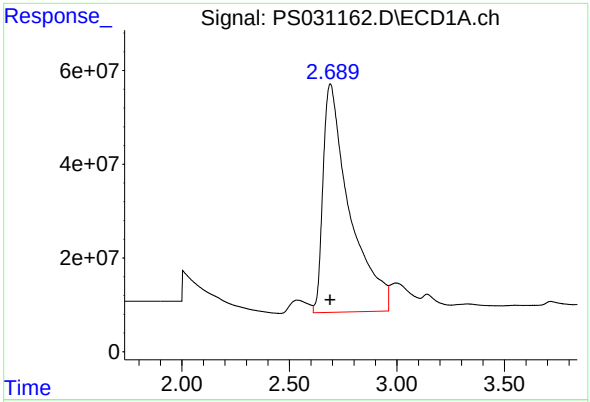
**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:21:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



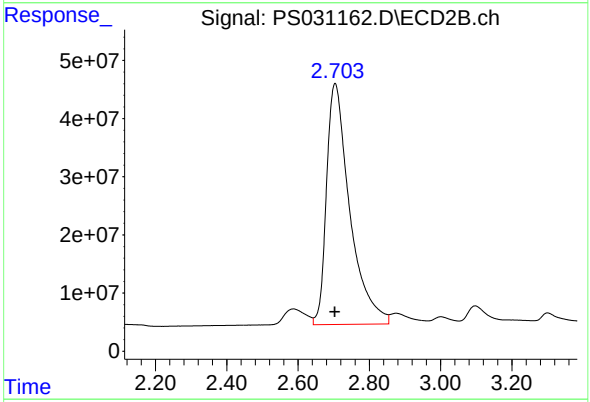






#1 Dalapon

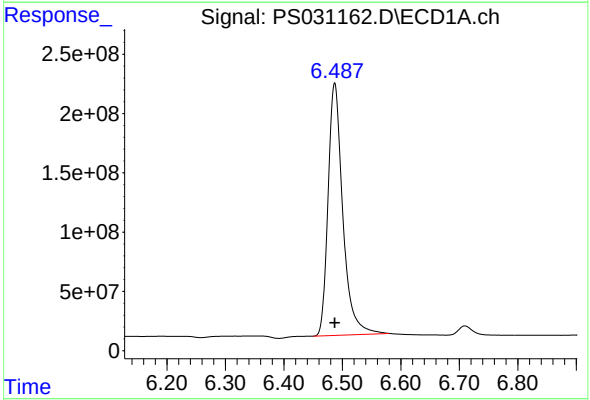
R.T.: 2.689 min
Delta R.T.: 0.000 min
Response: 4173322568
Conc: 665.29 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



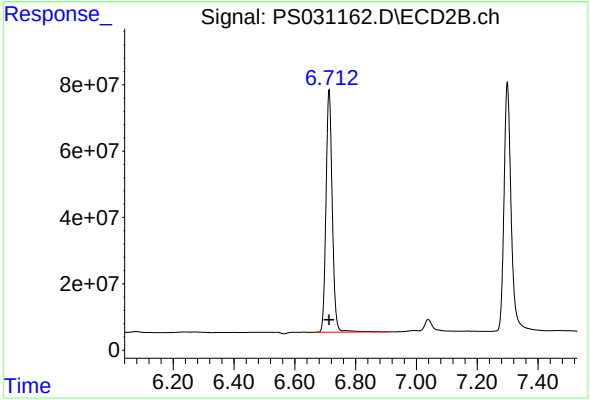

#1 Dalapon

R.T.: 2.704 min
Delta R.T.: 0.000 min
Response: 1879654846
Conc: 662.61 ng/ml



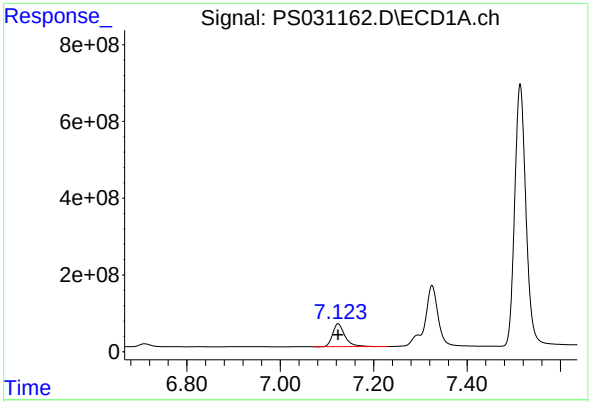

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 3720387717
Conc: 673.65 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

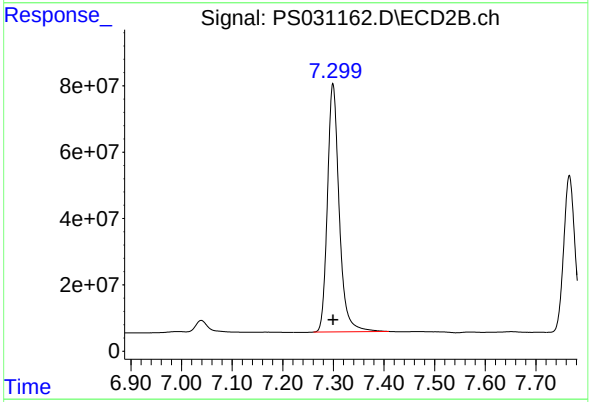
R.T.: 6.713 min
Delta R.T.: 0.000 min
Response: 1048938565
Conc: 681.18 ng/ml




#3 4-Nitrophenol

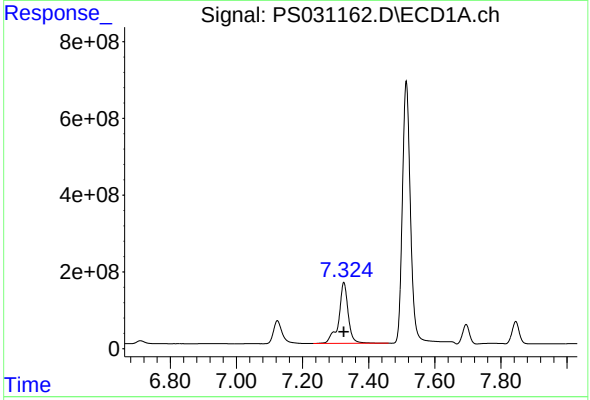
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1093855791
Conc: 663.43 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



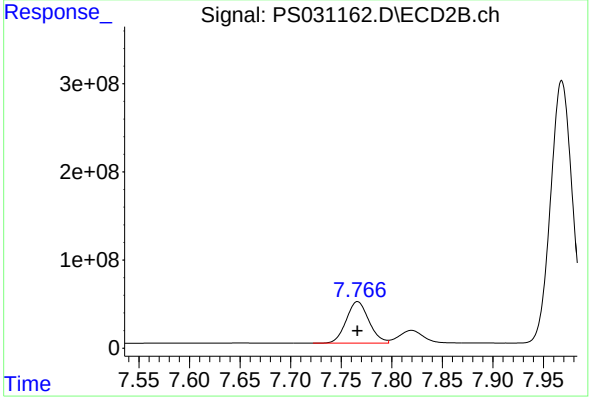

#3 4-Nitrophenol

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 1208050076
Conc: 667.68 ng/ml



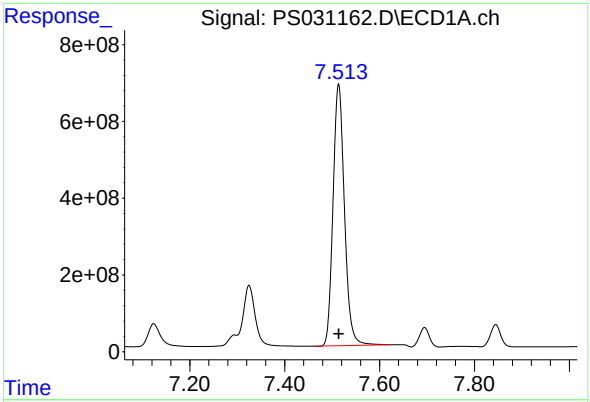

#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 3151901376
Conc: 724.87 ng/ml




#4 2,4-DCAA

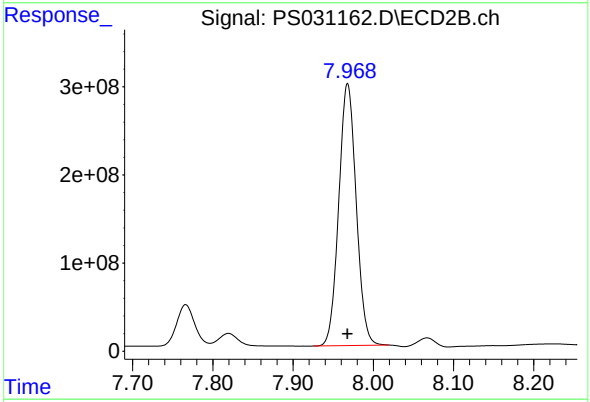
R.T.: 7.766 min
Delta R.T.: 0.000 min
Response: 737725513
Conc: 726.85 ng/ml




#5 DICAMBA

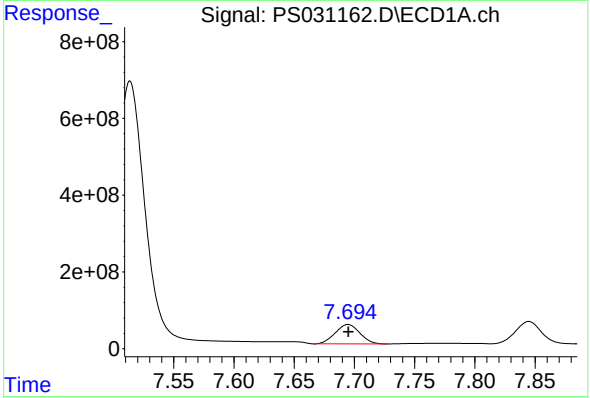
R.T.: 7.514 min
Delta R.T.: 0.000 min
Response: 11383740526
Conc: 690.05 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



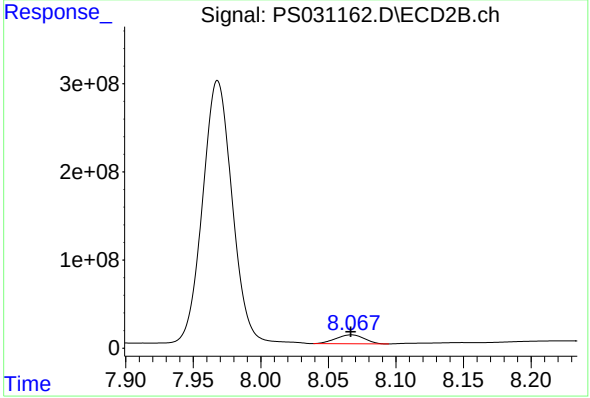

#5 DICAMBA

R.T.: 7.968 min
Delta R.T.: 0.000 min
Response: 4491448492
Conc: 695.98 ng/ml



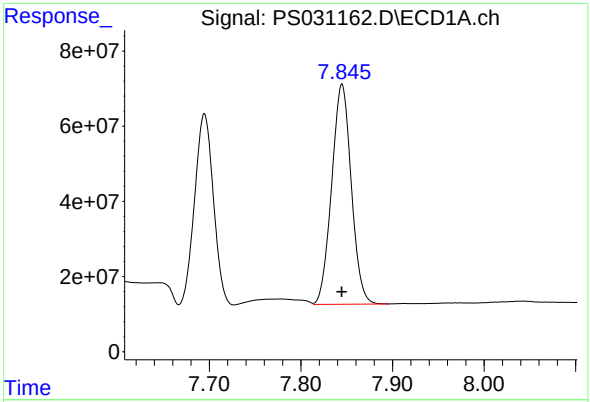

#6 MCPP

R.T.: 7.695 min
Delta R.T.: 0.000 min
Response: 717663366
Conc: 71.69 ug/ml




#6 MCPP

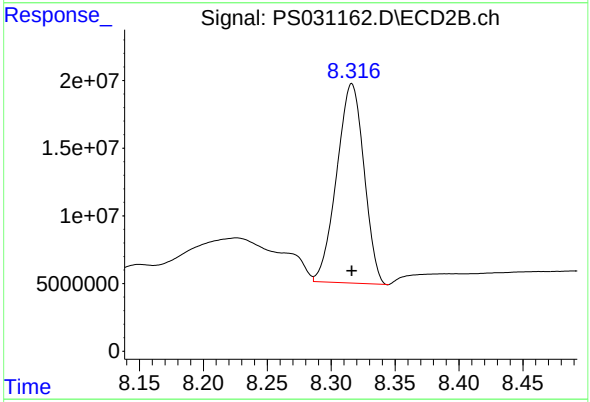
R.T.: 8.067 min
Delta R.T.: 0.000 min
Response: 149138351
Conc: 71.78 ug/ml




#7 MCPA

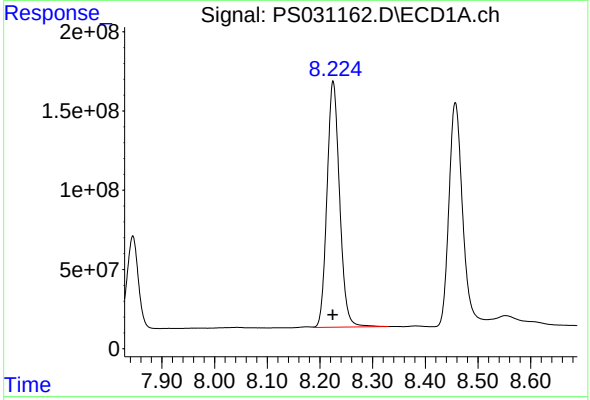
R.T.: 7.845 min
Delta R.T.: 0.000 min
Response: 870067277
Conc: 69.53 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



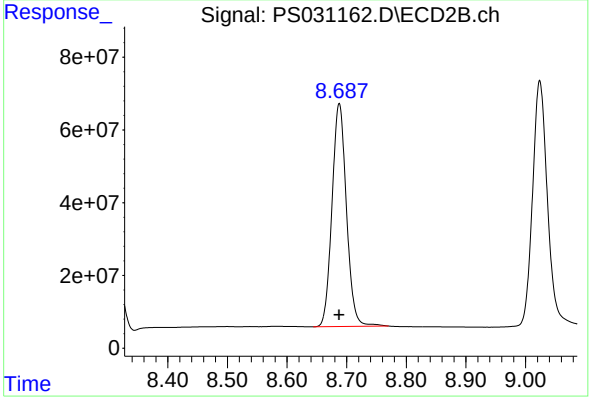

#7 MCPA

R.T.: 8.316 min
Delta R.T.: 0.000 min
Response: 218764232
Conc: 69.33 ug/ml



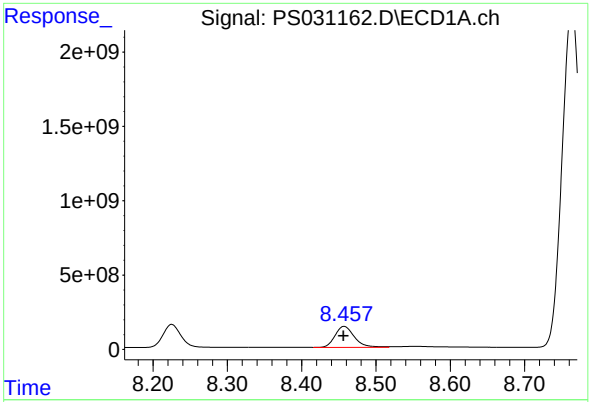

#8 DICHLORPROP

R.T.: 8.225 min
Delta R.T.: 0.000 min
Response: 2575108856
Conc: 673.77 ng/ml




#8 DICHLORPROP

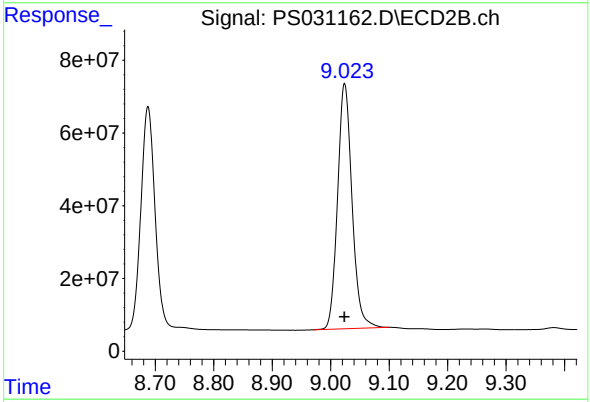
R.T.: 8.688 min
Delta R.T.: 0.000 min
Response: 1032455050
Conc: 681.55 ng/ml




#9 2,4-D

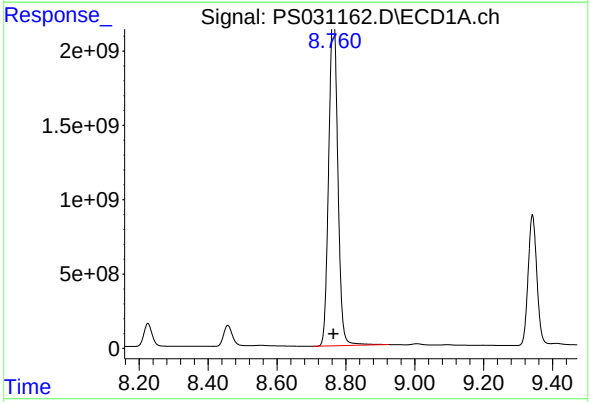
R.T.: 8.457 min
Delta R.T.: 0.000 min
Response: 2569354129
Conc: 687.93 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



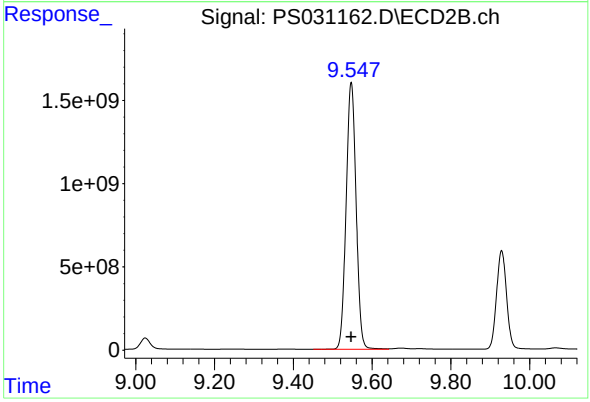

#9 2,4-D

R.T.: 9.024 min
Delta R.T.: 0.000 min
Response: 1160917687
Conc: 683.57 ng/ml



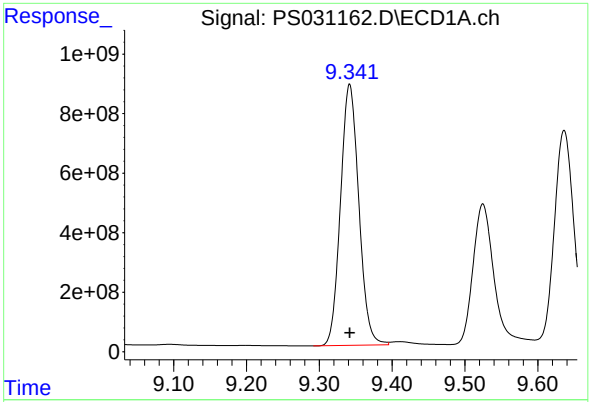

#10 Pentachlorophenol

R.T.: 8.764 min
Delta R.T.: 0.000 min
Response: 40612569802
Conc: 743.53 ng/ml




#10 Pentachlorophenol

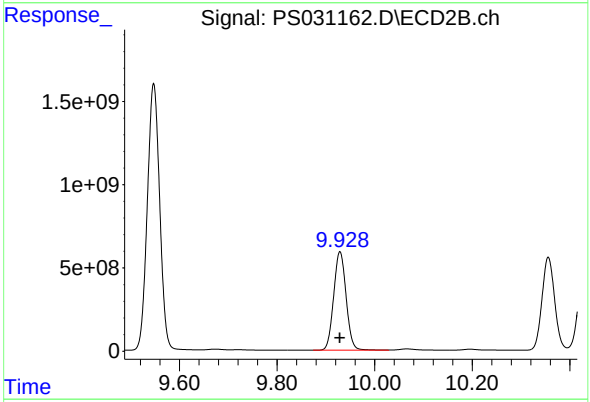
R.T.: 9.547 min
Delta R.T.: 0.000 min
Response: 28167947869
Conc: 720.75 ng/ml




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

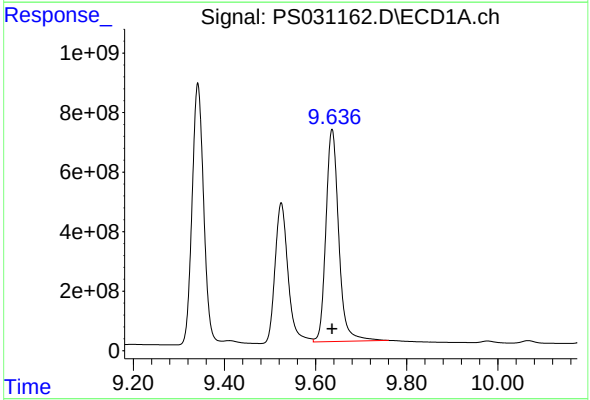
R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 15373956822
Conc: 700.29 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



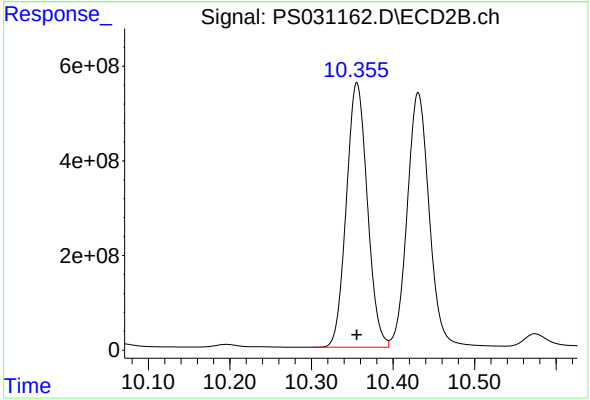

#11 2,4,5-TP (SILVEX)

R.T.: 9.929 min
Delta R.T.: 0.000 min
Response: 10489015418
Conc: 704.24 ng/ml



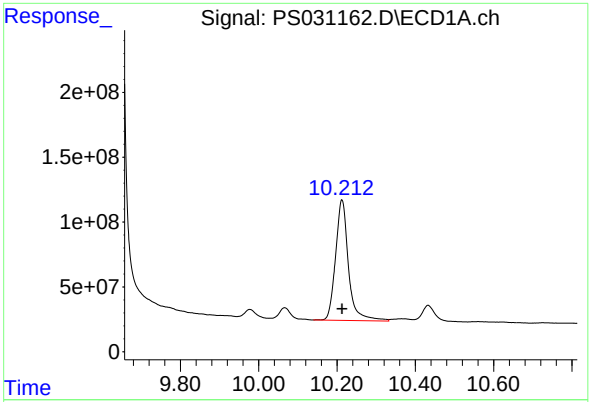

#12 2,4,5-T

R.T.: 9.636 min
Delta R.T.: 0.000 min
Response: 13928273611
Conc: 713.25 ng/ml




#12 2,4,5-T

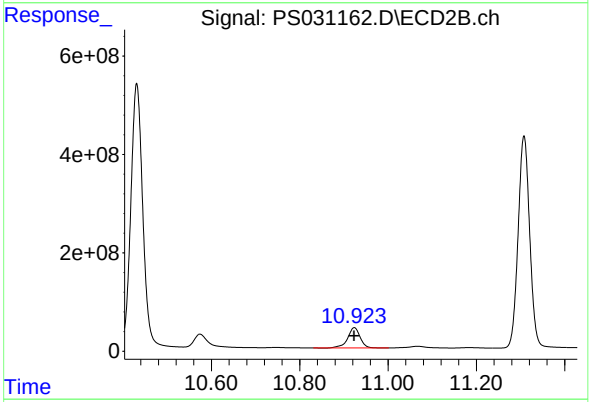
R.T.: 10.356 min
Delta R.T.: 0.000 min
Response: 10005648557
Conc: 703.66 ng/ml




#13 2,4-DB

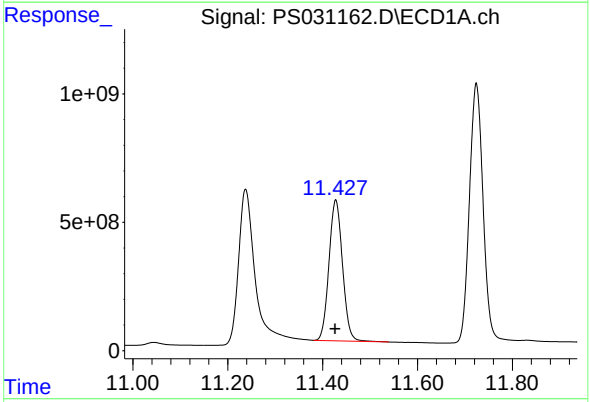
R.T.: 10.213 min
Delta R.T.: 0.000 min
Response: 2126850488
Conc: 711.35 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



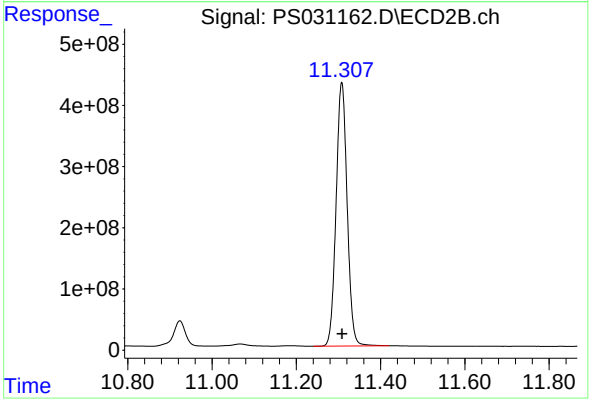

#13 2,4-DB

R.T.: 10.924 min
Delta R.T.: 0.000 min
Response: 808856260
Conc: 691.03 ng/ml



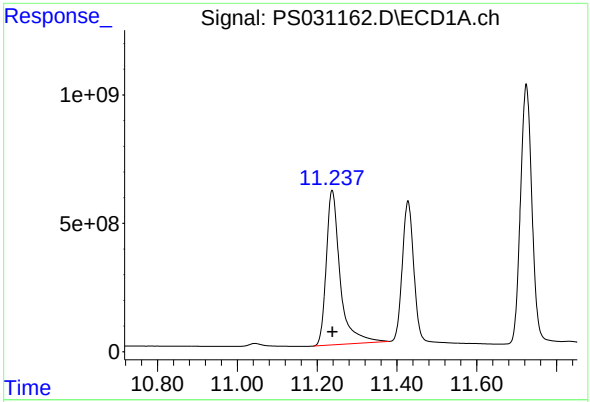

#14 DINOSEB

R.T.: 11.428 min
Delta R.T.: 0.001 min
Response: 10850293217
Conc: 696.89 ng/ml




#14 DINOSEB

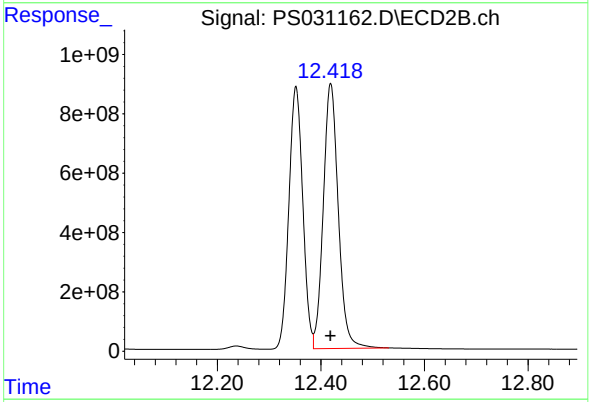
R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 7842727860
Conc: 693.92 ng/ml




#15 Picloram

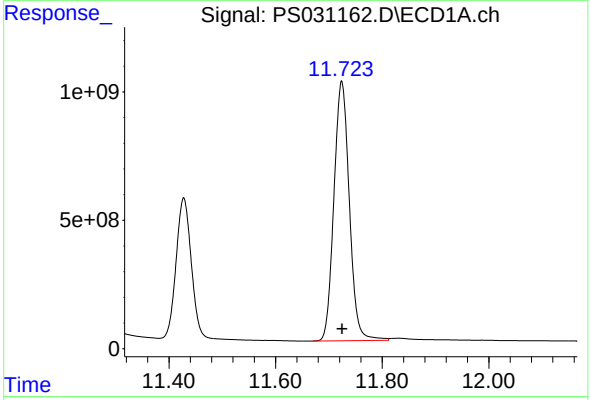
R.T.: 11.238 min
Delta R.T.: 0.000 min
Response: 14555030992
Conc: 727.51 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
ICVPS072125



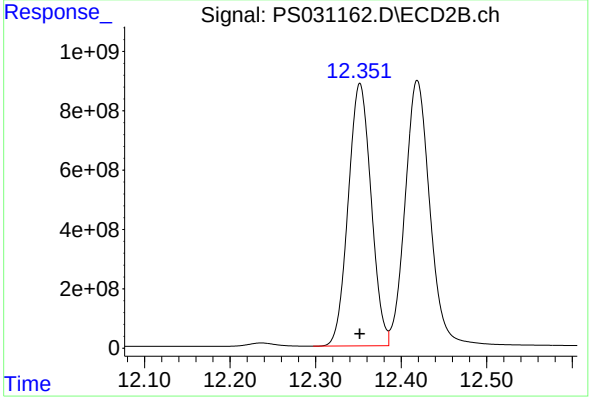

#15 Picloram

R.T.: 12.419 min
Delta R.T.: 0.000 min
Response: 17953179799
Conc: 721.15 ng/ml




#16 DCPA

R.T.: 11.724 min
Delta R.T.: 0.000 min
Response: 20286550952
Conc: 707.01 ng/ml




#16 DCPA

R.T.: 12.352 min
Delta R.T.: 0.000 min
Response: 16451986600
Conc: 714.18 ng/ml

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 12:03 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| 2,4-D | 8.45 | 8.46 | 8.36 | 8.56 | 0.01 |
| 2,4,5-TP(Silvex) | 9.34 | 9.34 | 9.24 | 9.44 | 0.00 |

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 12:03 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.76 | 7.77 | 7.67 | 7.87 | 0.01 |
| 2,4-D | 9.02 | 9.02 | 8.92 | 9.12 | 0.00 |
| 2,4,5-TP(Silvex) | 9.92 | 9.93 | 9.83 | 10.03 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031222.D **Time Analyzed:** 12:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.339 | 9.242 | 9.442 | 678.600 | 712.500 | -4.8 |
| 2,4-D | 8.453 | 8.356 | 8.556 | 662.660 | 705.000 | -6.0 |
| 2,4-DCAA | 7.321 | 7.225 | 7.425 | 621.630 | 750.000 | -17.1 |

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031222.D **Time Analyzed:** 12:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.924 | 9.829 | 10.029 | 643.230 | 712.500 | -9.7 |
| 2,4-D | 9.019 | 8.924 | 9.124 | 628.640 | 705.000 | -10.8 |
| 2,4-DCAA | 7.761 | 7.666 | 7.866 | 666.260 | 750.000 | -11.2 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 12:03
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 24 16:04:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.321 | 7.761 | 2703.0E6 | 676.2E6 | 621.635m | 666.261 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.688 | 2.699 | 3848.0E6 | 1720.9E6 | 613.435 | 606.660 |
| 2) T | 3,5-DICHL... | 6.484 | 6.708 | 3521.7E6 | 941.1E6 | 637.679 | 611.122 |
| 3) T | 4-Nitroph... | 7.121 | 7.294 | 1151.6E6 | 1103.7E6 | 698.446 | 610.029 |
| 5) T | DICAMBA | 7.510 | 7.963 | 10768.4E6 | 4096.2E6 | 652.749 | 634.731 |
| 6) T | MCPP | 7.692 | 8.062 | 667.8E6 | 130.3E6 | 66.712 | 62.733 |
| 7) T | MCPA | 7.842 | 8.311 | 821.2E6 | 186.7E6 | 65.620 | 59.181 |
| 8) T | DICHLORPROP | 8.222 | 8.682 | 2454.9E6 | 948.6E6 | 642.327 | 626.171 |
| 9) T | 2,4-D | 8.453 | 9.019 | 2475.0E6 | 1067.6E6 | 662.664m | 628.641 |
| 10) T | Pentachlo... | 8.760 | 9.542 | 39321.6E6 | 25843.9E6 | 719.892 | 661.286 |
| 11) T | 2,4,5-TP ... | 9.339 | 9.924 | 14897.7E6 | 9580.4E6 | 678.601 | 643.232 |
| 12) T | 2,4,5-T | 9.632 | 10.350 | 14094.7E6 | 9121.6E6 | 721.777 | 641.486 |
| 13) T | 2,4-DB | 10.209 | 10.919 | 2184.3E6 | 755.3E6 | 730.556m | 645.238 |
| 14) T | DINOSEB | 11.424 | 11.303 | 9970.6E6 | 6886.6E6 | 640.396 | 609.323 |
| 15) T | Picloram | 11.233 | 12.413 | 15503.2E6 | 16230.8E6 | 774.903 | 651.970 |
| 16) T | DCPA | 11.721 | 12.347 | 19569.5E6 | 15008.8E6 | 682.020 | 651.534 |

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

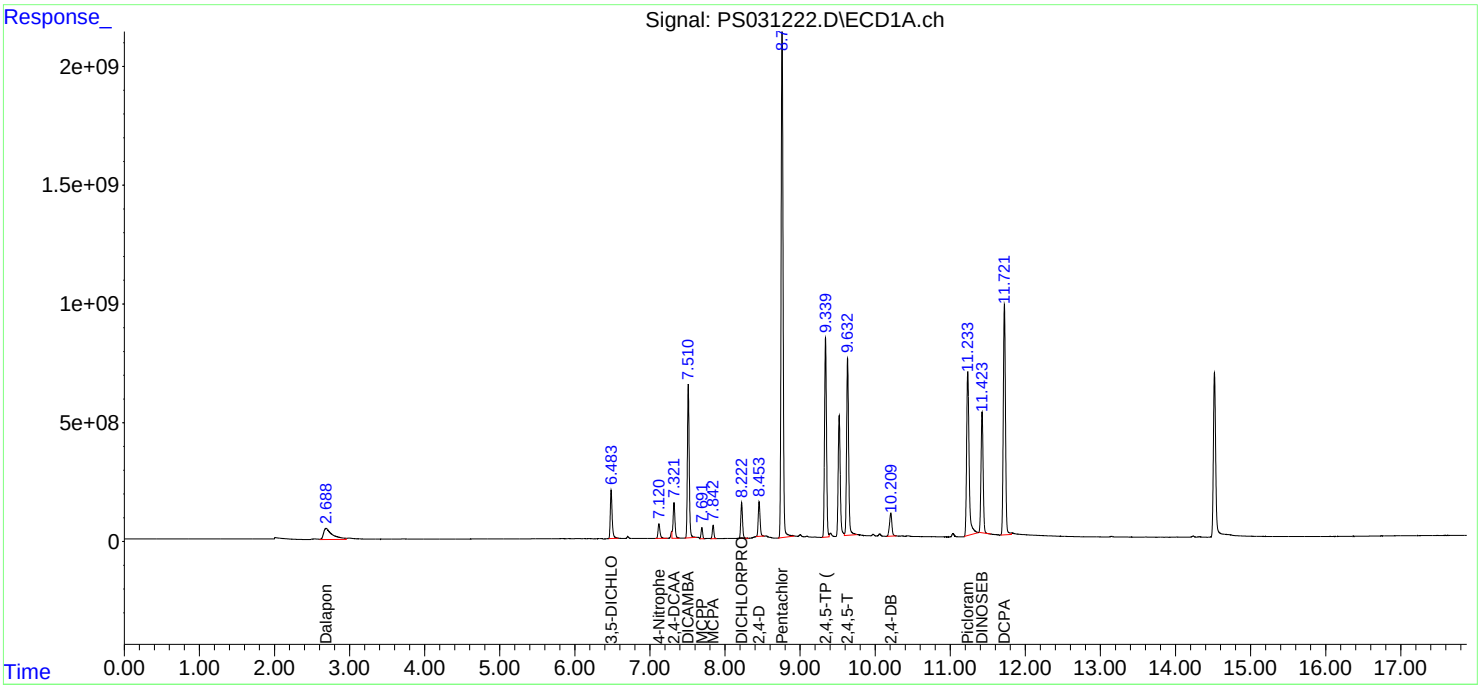
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 12:03
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

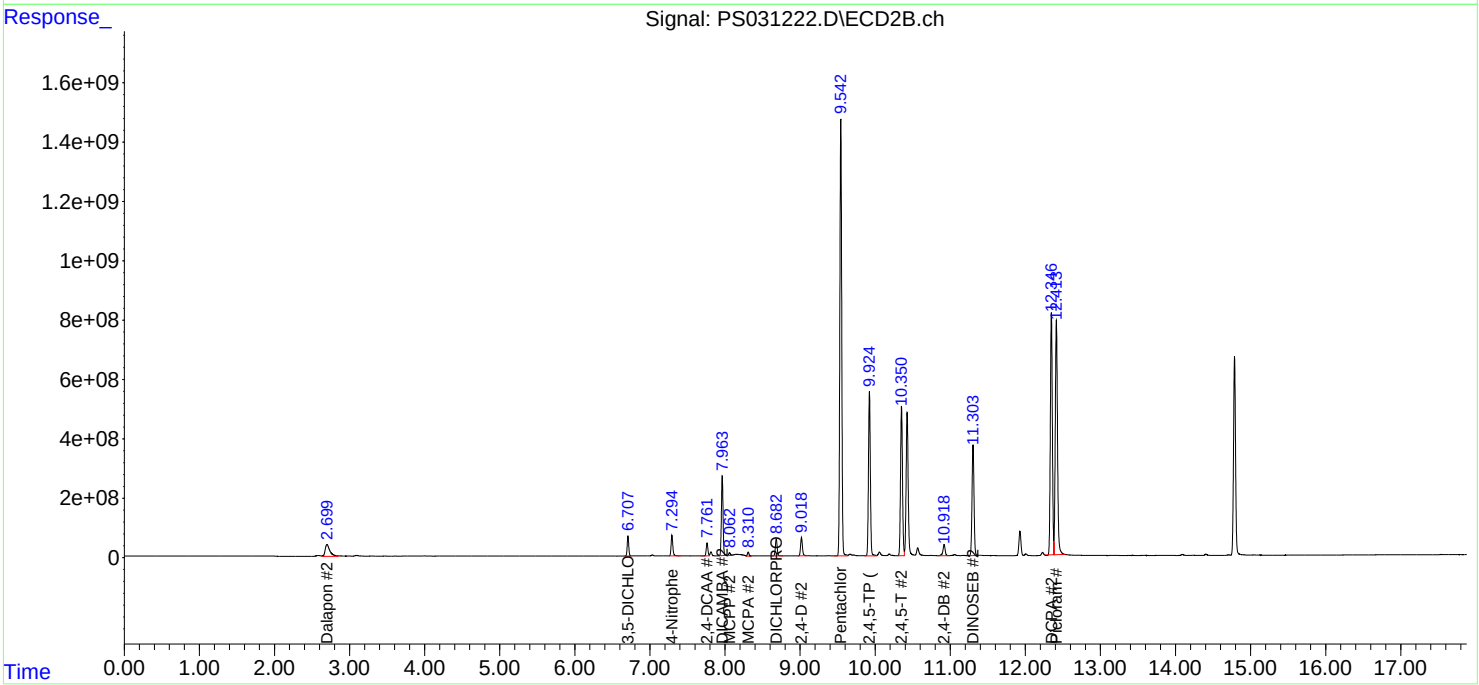
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

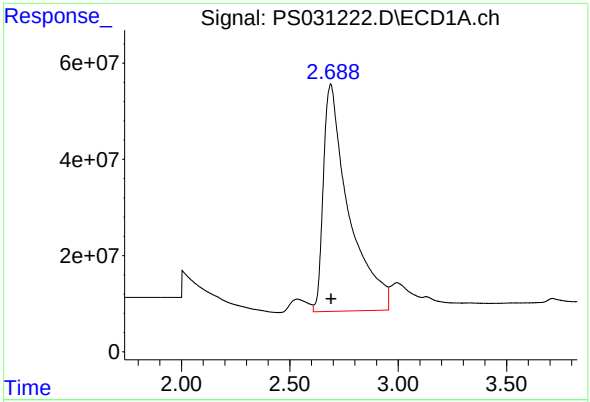
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 24 16:04:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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





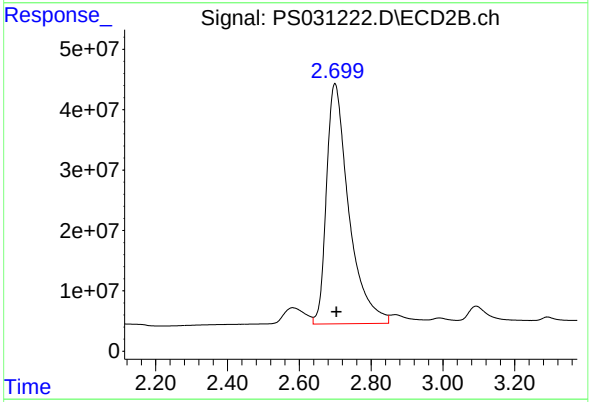

#1 Dalapon

R.T.: 2.688 min
Delta R.T.: -0.002 min
Response: 3848020663
Conc: 613.44 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

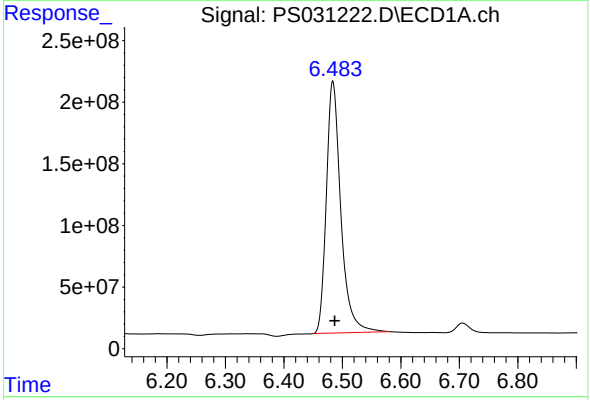
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



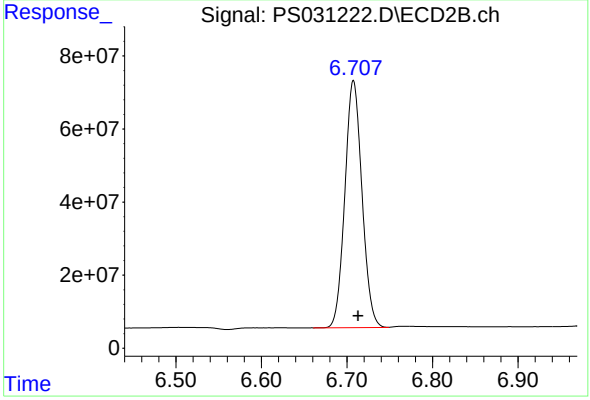

#1 Dalapon

R.T.: 2.699 min
Delta R.T.: -0.004 min
Response: 1720936143
Conc: 606.66 ng/ml



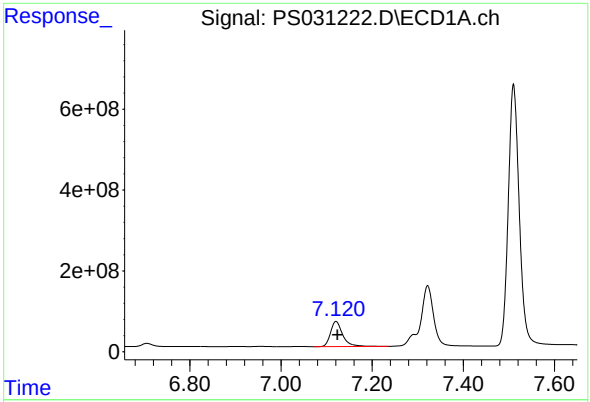

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.484 min
Delta R.T.: -0.003 min
Response: 3521740913
Conc: 637.68 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.708 min
Delta R.T.: -0.005 min
Response: 941063617
Conc: 611.12 ng/ml



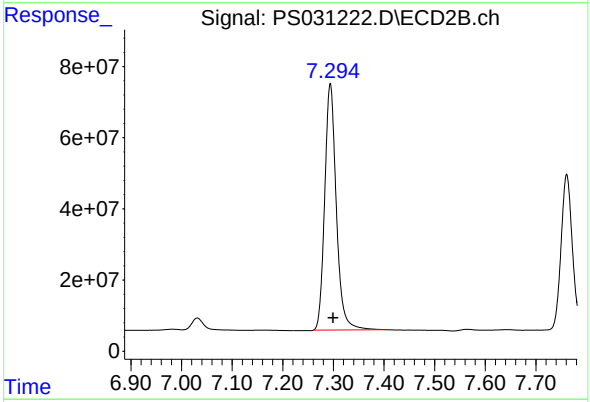

#3 4-Nitrophenol

R.T.: 7.121 min
Delta R.T.: -0.003 min
Response: 1151587322
Conc: 698.45 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

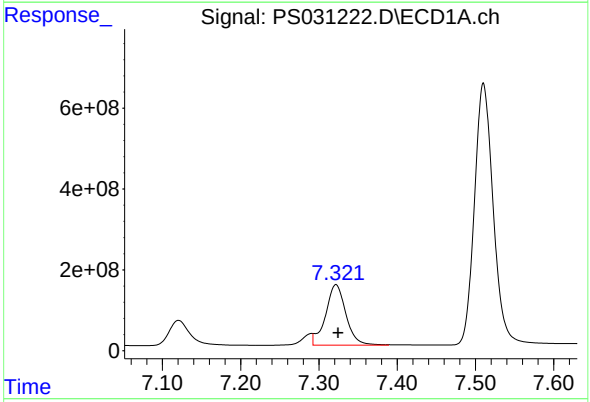
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



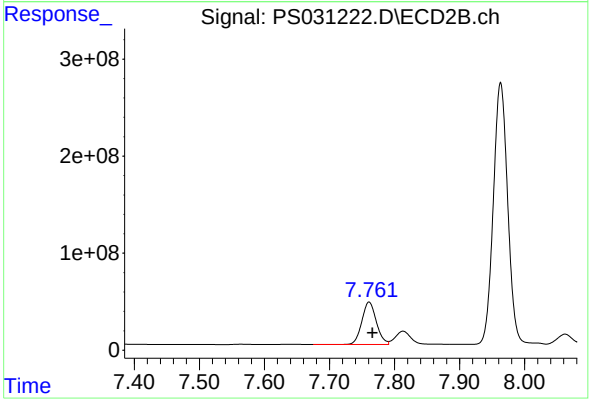

#3 4-Nitrophenol

R.T.: 7.294 min
Delta R.T.: -0.005 min
Response: 1103736553
Conc: 610.03 ng/ml



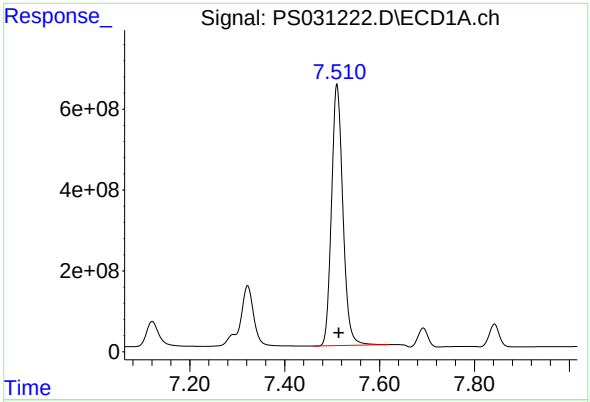

#4 2,4-DCAA

R.T.: 7.321 min
Delta R.T.: -0.003 min
Response: 2703025783
Conc: 621.63 ng/ml m




#4 2,4-DCAA

R.T.: 7.761 min
Delta R.T.: -0.005 min
Response: 676234128
Conc: 666.26 ng/ml



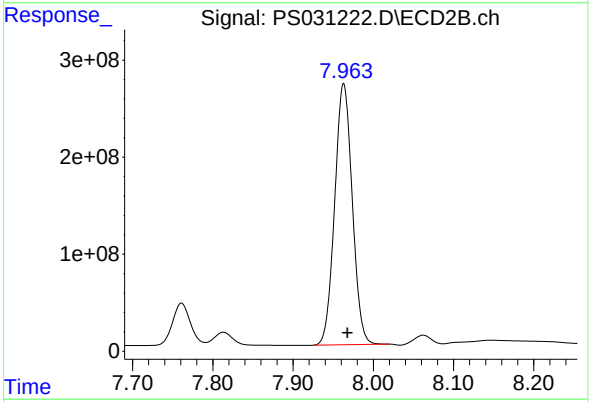

#5 DICAMBA

R.T.: 7.510 min
Delta R.T.: -0.004 min
Response: 10768380319
Conc: 652.75 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

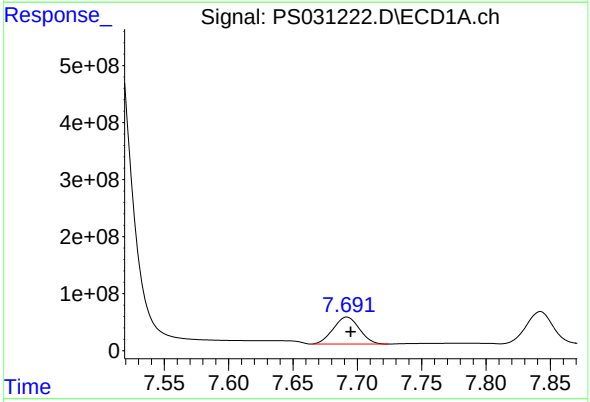
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



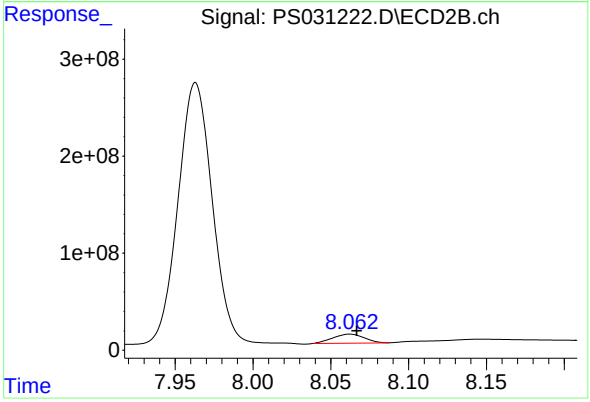

#5 DICAMBA

R.T.: 7.963 min
Delta R.T.: -0.005 min
Response: 4096155144
Conc: 634.73 ng/ml



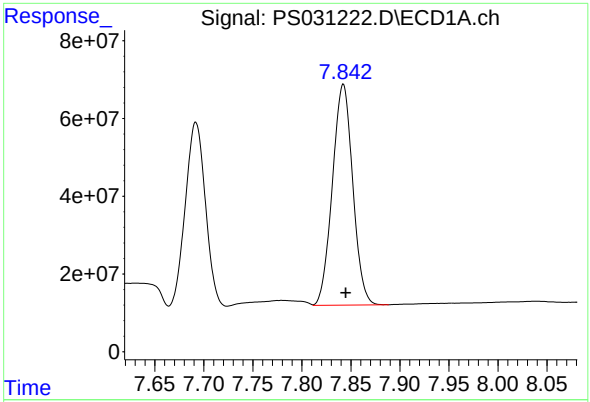

#6 MCPP

R.T.: 7.692 min
Delta R.T.: -0.003 min
Response: 667791702
Conc: 66.71 ug/ml




#6 MCPP

R.T.: 8.062 min
Delta R.T.: -0.005 min
Response: 130347363
Conc: 62.73 ug/ml



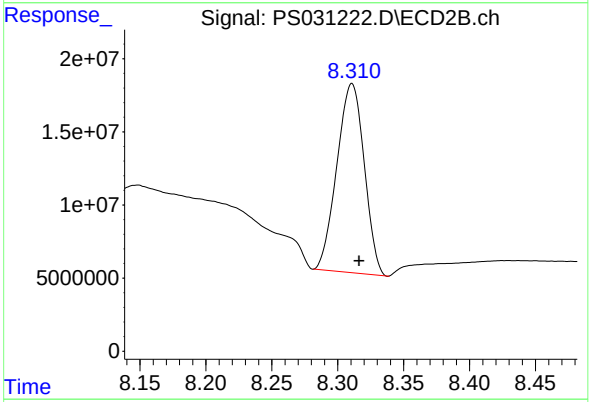

#7 MCPA

R.T.: 7.842 min
Delta R.T.: -0.002 min
Response: 821178986
Conc: 65.62 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

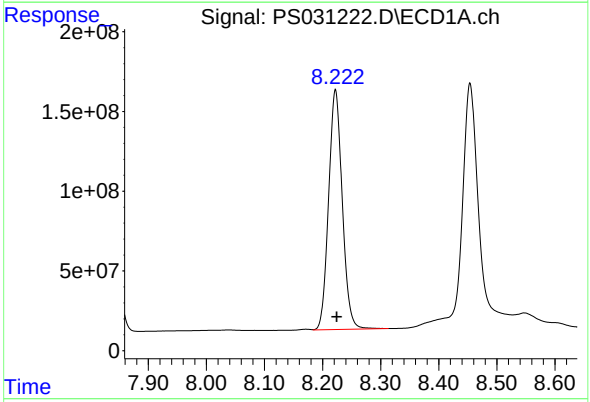
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



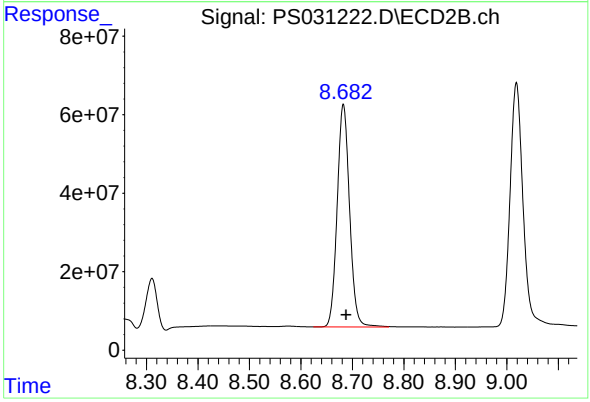

#7 MCPA

R.T.: 8.311 min
Delta R.T.: -0.006 min
Response: 186727683
Conc: 59.18 ug/ml



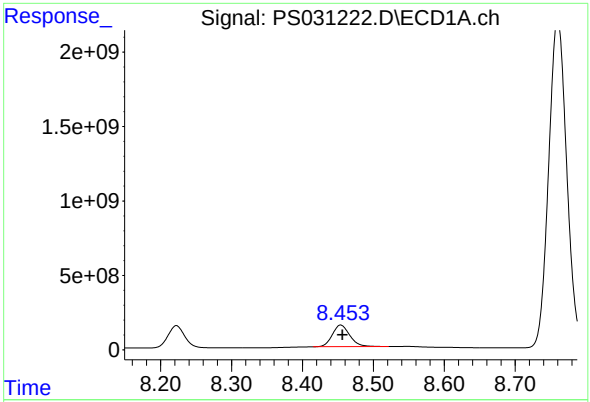

#8 DICHLORPROP

R.T.: 8.222 min
Delta R.T.: -0.002 min
Response: 2454945616
Conc: 642.33 ng/ml




#8 DICHLORPROP

R.T.: 8.682 min
Delta R.T.: -0.005 min
Response: 948562256
Conc: 626.17 ng/ml



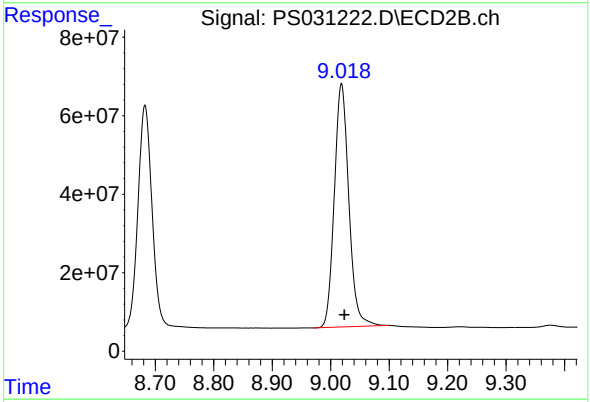

#9 2,4-D

R.T.: 8.453 min
Delta R.T.: -0.003 min
Response: 2474994641
Conc: 662.66 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

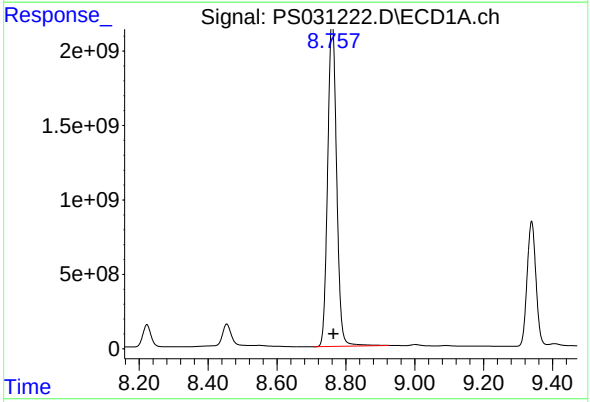
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



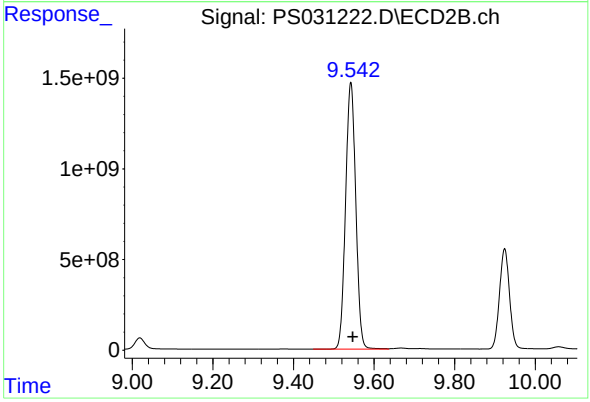

#9 2,4-D

R.T.: 9.019 min
Delta R.T.: -0.005 min
Response: 1067632755
Conc: 628.64 ng/ml



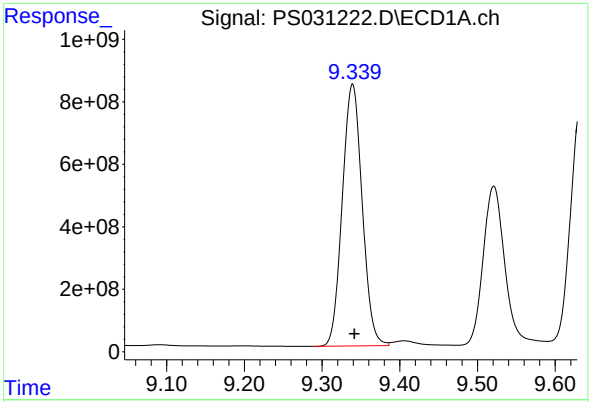

#10 Pentachlorophenol

R.T.: 8.760 min
Delta R.T.: -0.004 min
Response: 39321617114
Conc: 719.89 ng/ml




#10 Pentachlorophenol

R.T.: 9.542 min
Delta R.T.: -0.005 min
Response: 25843869223
Conc: 661.29 ng/ml



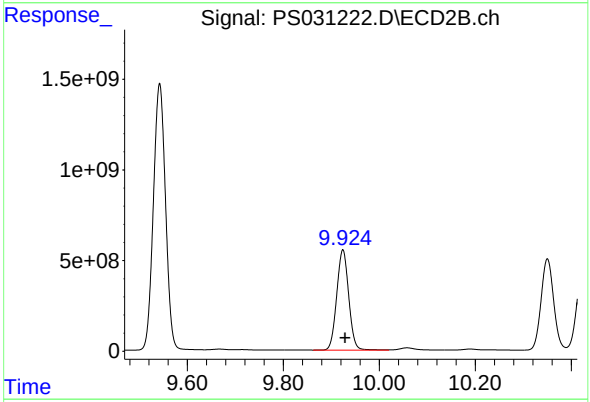

#11 2,4,5-TP (SILVEX)

R.T.: 9.339 min
Delta R.T.: -0.003 min
Response: 14897723114
Conc: 678.60 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

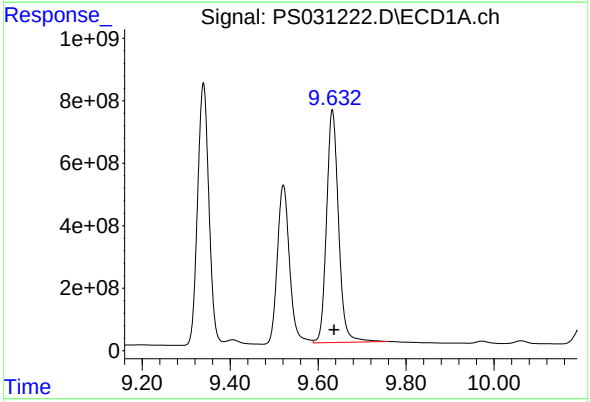
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



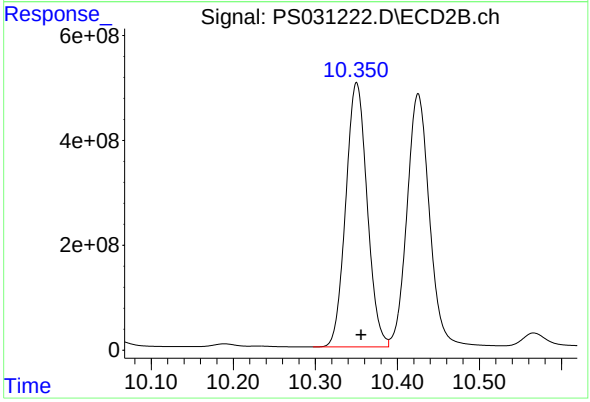

#11 2,4,5-TP (SILVEX)

R.T.: 9.924 min
Delta R.T.: -0.005 min
Response: 9580413512
Conc: 643.23 ng/ml



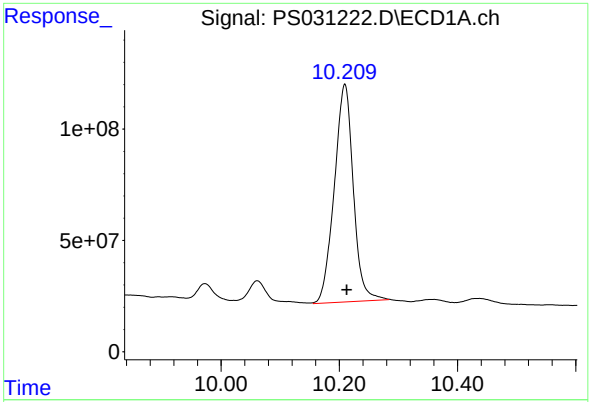

#12 2,4,5-T

R.T.: 9.632 min
Delta R.T.: -0.004 min
Response: 14094719433
Conc: 721.78 ng/ml




#12 2,4,5-T

R.T.: 10.350 min
Delta R.T.: -0.005 min
Response: 9121585184
Conc: 641.49 ng/ml



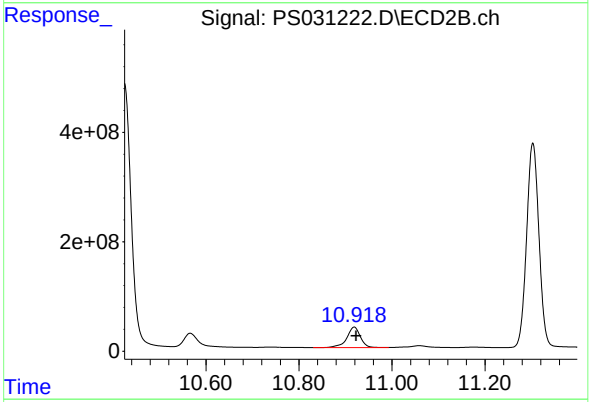

#13 2,4-DB

R.T.: 10.209 min
Delta R.T.: -0.004 min
Response: 2184275936
Conc: 730.56 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

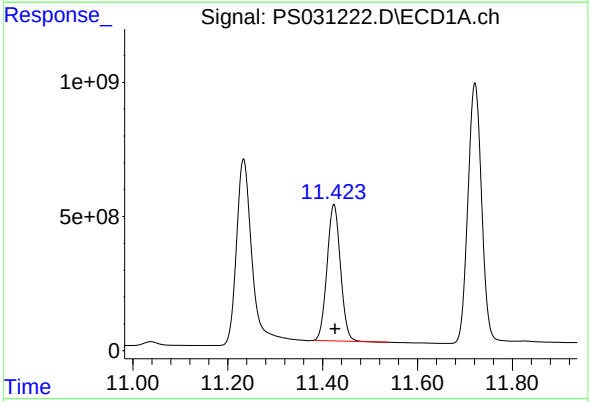
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



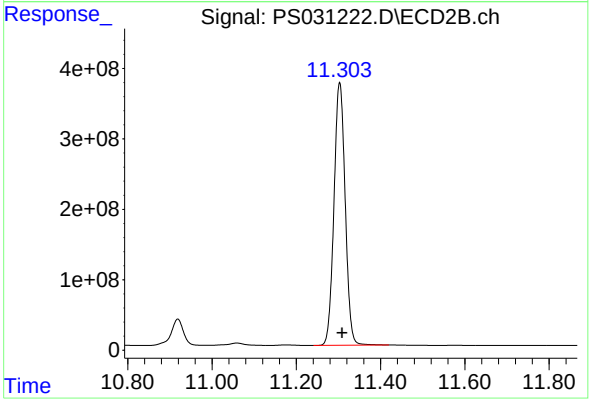

#13 2,4-DB

R.T.: 10.919 min
Delta R.T.: -0.004 min
Response: 755258036
Conc: 645.24 ng/ml



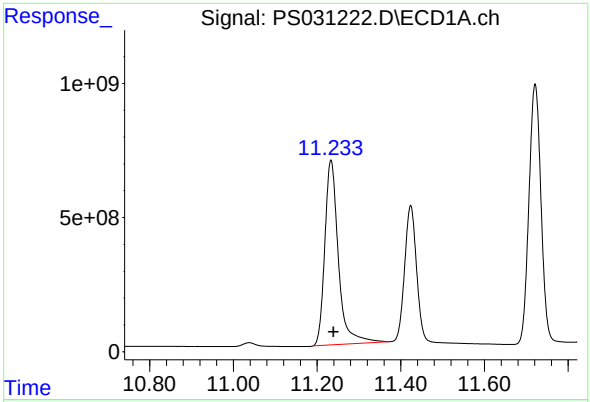

#14 DINOSEB

R.T.: 11.424 min
Delta R.T.: -0.003 min
Response: 9970643058
Conc: 640.40 ng/ml




#14 DINOSEB

R.T.: 11.303 min
Delta R.T.: -0.005 min
Response: 6886615500
Conc: 609.32 ng/ml



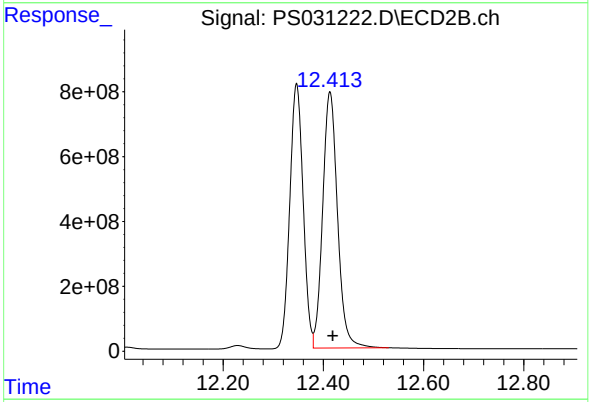

#15 Picloram

R.T.: 11.233 min
Delta R.T.: -0.005 min
Response: 15503151258
Conc: 774.90 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

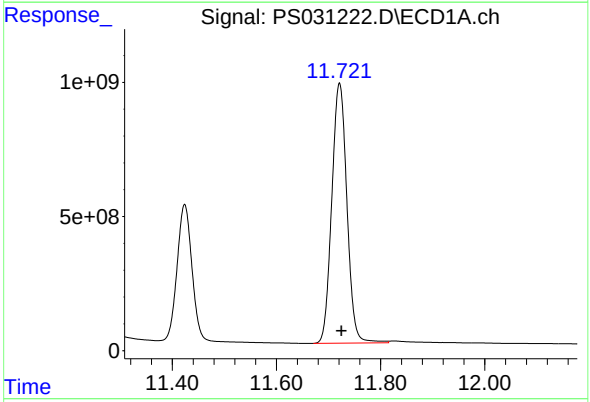
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



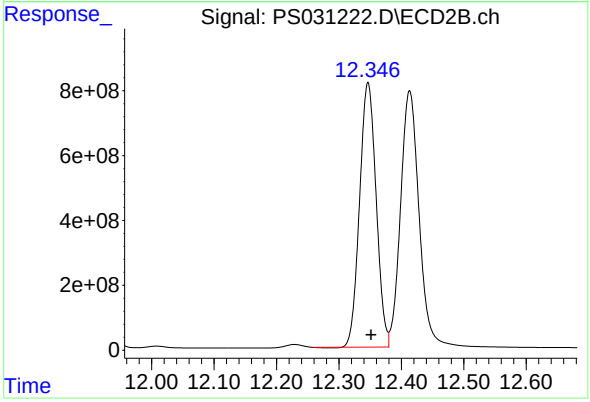

#15 Picloram

R.T.: 12.413 min
Delta R.T.: -0.005 min
Response: 16230814719
Conc: 651.97 ng/ml




#16 DCPA

R.T.: 11.721 min
Delta R.T.: -0.003 min
Response: 19569524274
Conc: 682.02 ng/ml




#16 DCPA

R.T.: 12.347 min
Delta R.T.: -0.005 min
Response: 15008763067
Conc: 651.53 ng/ml

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 18:39 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| 2,4-D | 8.45 | 8.46 | 8.36 | 8.56 | 0.01 |
| 2,4,5-TP(Silvex) | 9.34 | 9.34 | 9.24 | 9.44 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 18:39 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.76 | 7.77 | 7.67 | 7.87 | 0.01 |
| 2,4-D | 9.02 | 9.02 | 8.92 | 9.12 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031233.D **Time Analyzed:** 18:39

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.335 | 9.242 | 9.442 | 689.480 | 712.500 | -3.2 |
| 2,4-D | 8.451 | 8.356 | 8.556 | 729.310 | 705.000 | 3.4 |
| 2,4-DCAA | 7.319 | 7.225 | 7.425 | 666.340 | 750.000 | -11.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031233.D **Time Analyzed:** 18:39

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.926 | 9.829 | 10.029 | 671.800 | 712.500 | -5.7 |
| 2,4-D | 9.021 | 8.924 | 9.124 | 696.610 | 705.000 | -1.2 |
| 2,4-DCAA | 7.764 | 7.666 | 7.866 | 693.770 | 750.000 | -7.5 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 18:39
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:14:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.319 | 7.764 | 2897.4E6 | 704.2E6 | 666.345 | 693.771 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.687 | 2.704 | 3646.8E6 | 1685.9E6 | 581.355 | 594.302 |
| 2) T | 3,5-DICHL... | 6.482 | 6.711 | 3487.2E6 | 965.5E6 | 631.428 | 626.964 |
| 3) T | 4-Nitroph... | 7.119 | 7.298 | 1161.6E6 | 1119.3E6 | 704.548 | 618.645 |
| 5) T | DICAMBA | 7.509 | 7.966 | 9918.8E6 | 4200.1E6 | 601.248 | 650.842 |
| 6) T | MCPP | 7.690 | 8.065 | 639.6E6 | 128.0E6 | 63.900 | 61.597 |
| 7) T | MCPA | 7.840 | 8.313 | 831.6E6 | 199.2E6 | 66.456 | 63.134 |
| 8) T | DICHLORPROP | 8.219 | 8.685 | 2628.7E6 | 1015.3E6 | 687.792 | 670.244 |
| 9) T | 2,4-D | 8.451 | 9.021 | 2723.9E6 | 1183.1E6 | 729.306 | 696.612 |
| 10) T | Pentachlo... | 8.755 | 9.545 | 41625.2E6 | 26526.7E6 | 762.065m | 678.760 |
| 11) T | 2,4,5-TP ... | 9.335 | 9.926 | 15136.6E6 | 10005.9E6 | 689.481 | 671.801 |
| 12) T | 2,4,5-T | 9.629 | 10.352 | 14005.9E6 | 9234.0E6 | 717.231 | 649.390 |
| 13) T | 2,4-DB | 10.207 | 10.920 | 2059.8E6 | 764.1E6 | 688.914 | 652.753 |
| 14) T | DINOSEB | 11.419 | 11.305 | 10002.0E6 | 6972.8E6 | 642.408m | 616.949 |
| 15) T | Picloram | 11.229 | 12.415 | 16290.4E6 | 17205.5E6 | 814.254m | 691.121 |
| 16) T | DCPA | 11.716 | 12.348 | 19417.2E6 | 15457.3E6 | 676.712 | 671.006m |

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

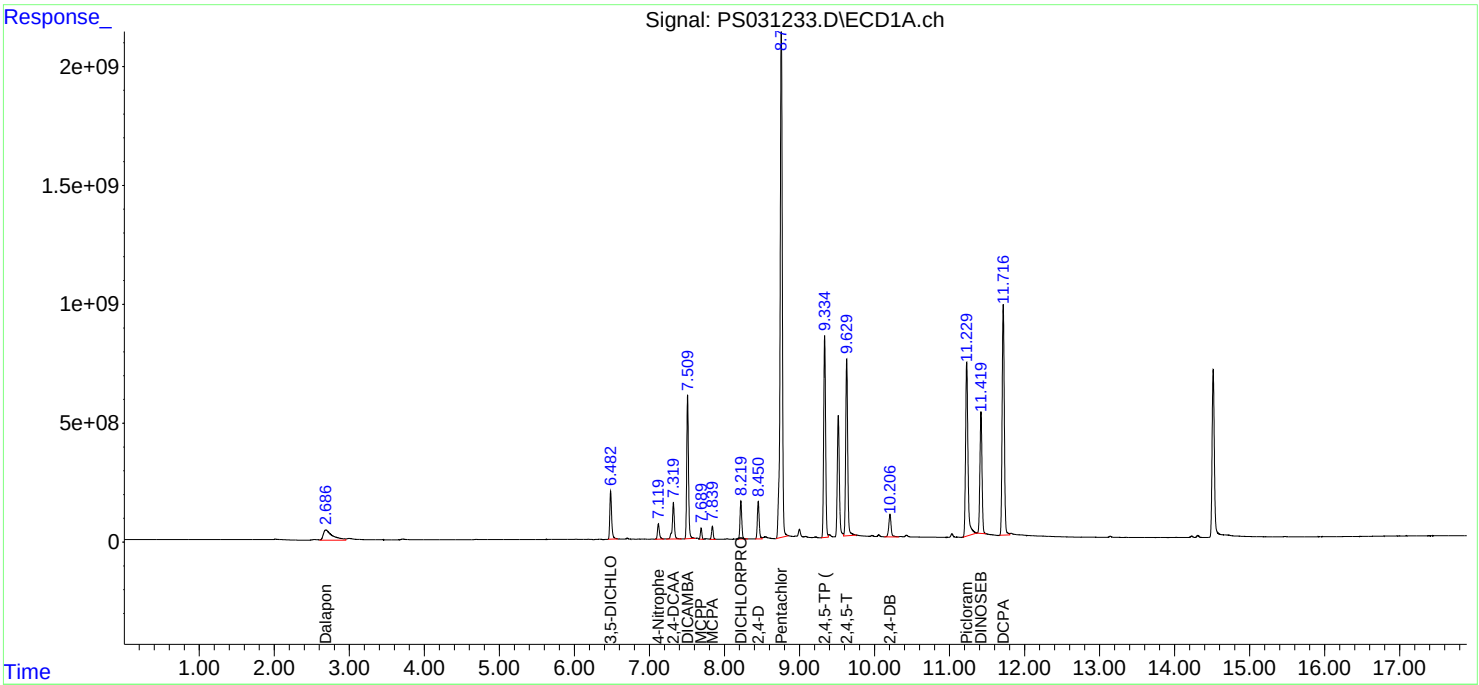
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031233.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 18:39
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 35 Sample Multiplier: 1

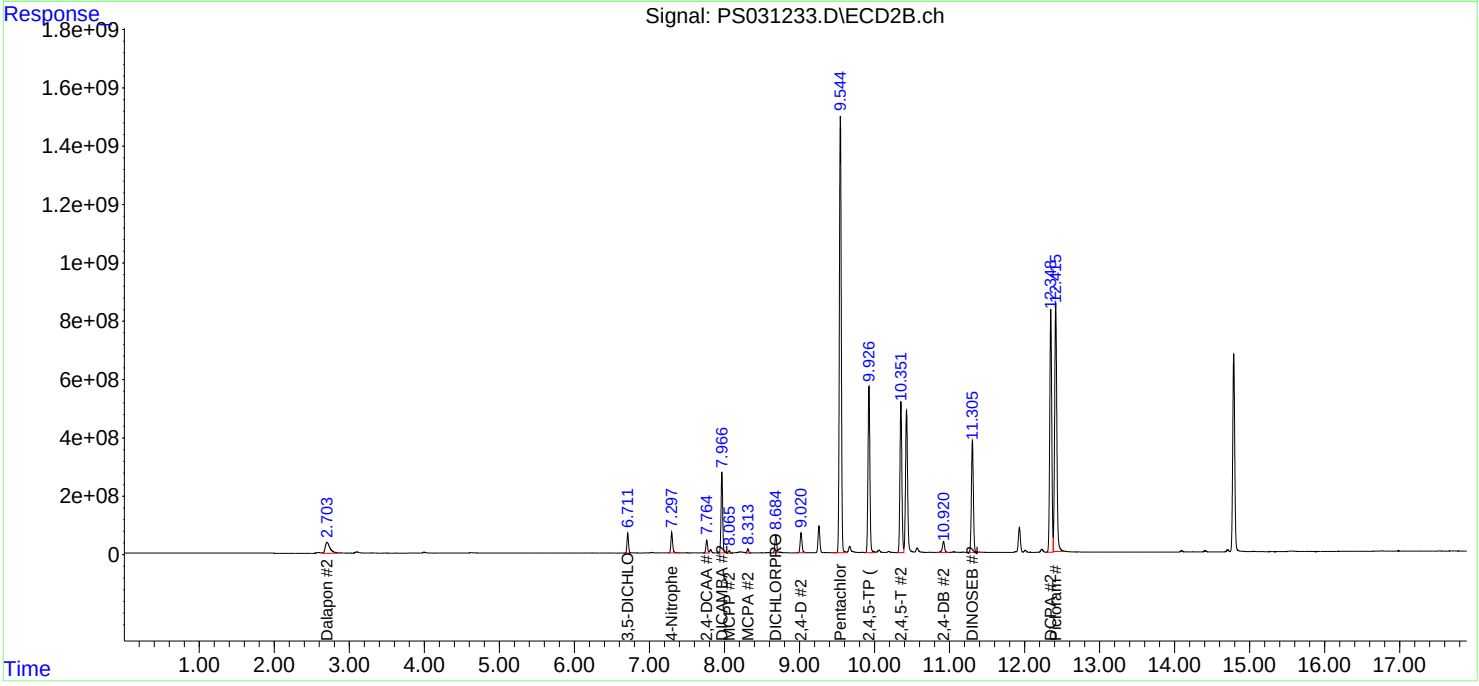
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

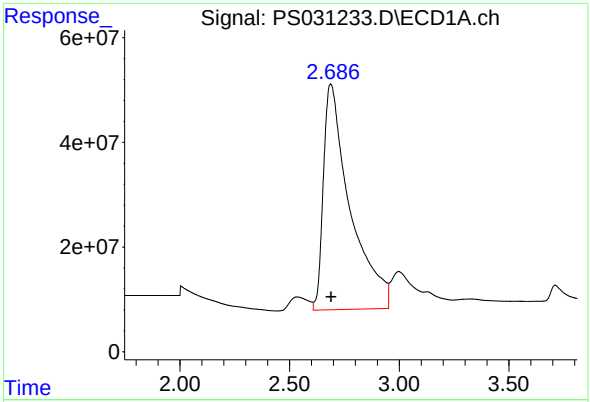
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:14:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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





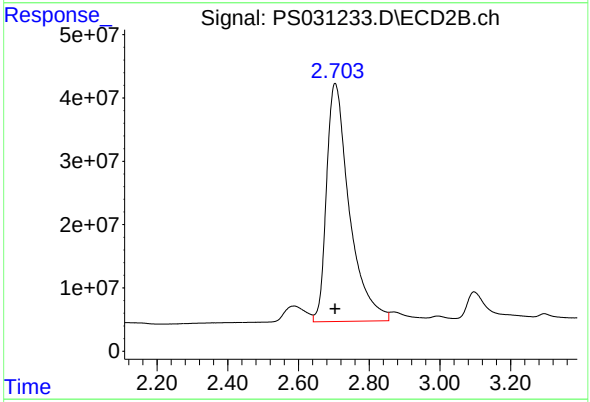

#1 Dalapon

R.T.: 2.687 min
Delta R.T.: -0.003 min
Response: 3646786474
Conc: 581.36 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

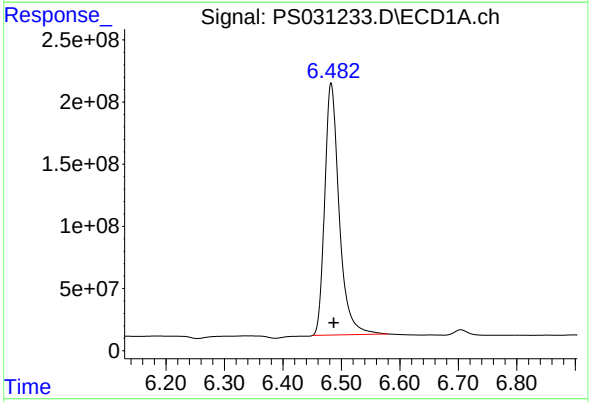
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



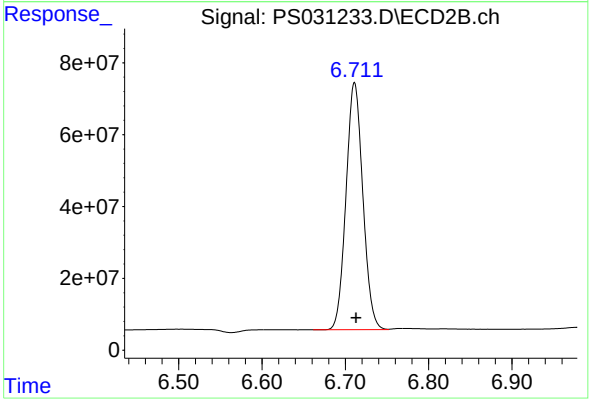

#1 Dalapon

R.T.: 2.704 min
Delta R.T.: 0.000 min
Response: 1685879056
Conc: 594.30 ng/ml



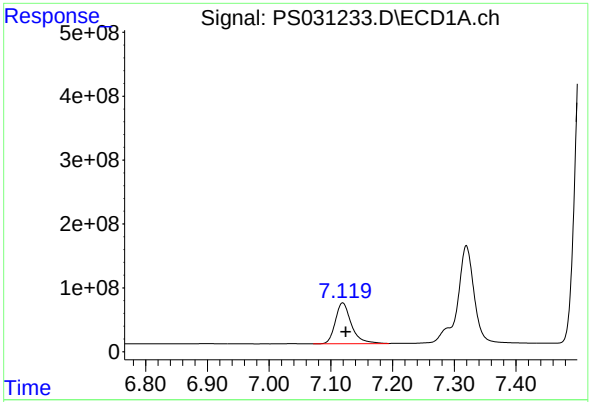

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.482 min
Delta R.T.: -0.004 min
Response: 3487217484
Conc: 631.43 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.711 min
Delta R.T.: -0.002 min
Response: 965457798
Conc: 626.96 ng/ml



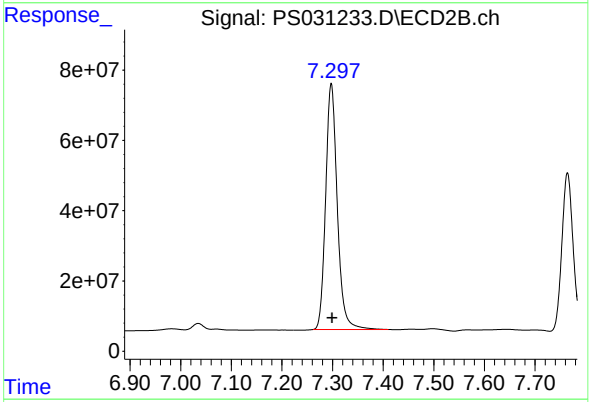

#3 4-Nitrophenol

R.T.: 7.119 min
Delta R.T.: -0.005 min
Response: 1161648350
Conc: 704.55 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

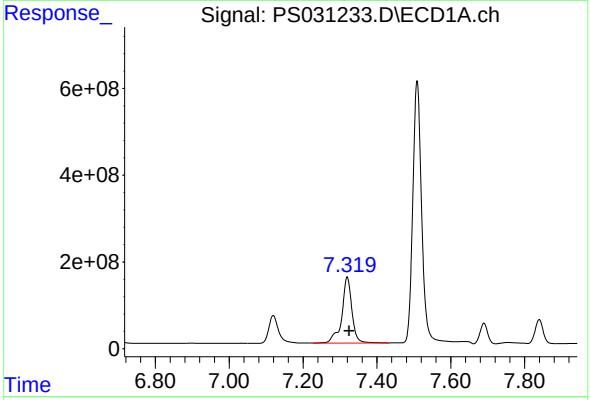
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



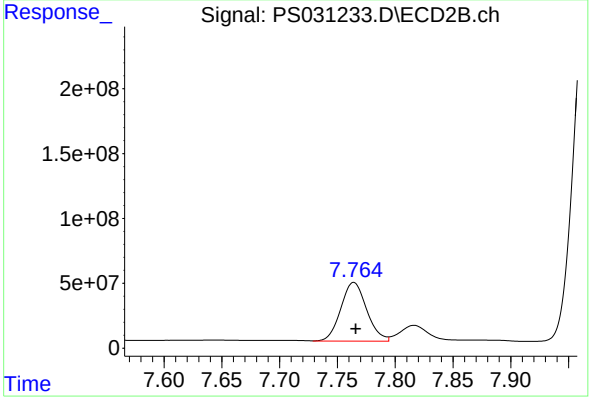

#3 4-Nitrophenol

R.T.: 7.298 min
Delta R.T.: -0.002 min
Response: 1119324899
Conc: 618.64 ng/ml



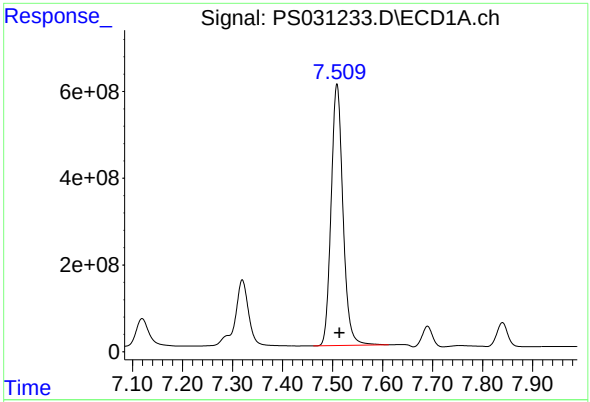

#4 2,4-DCAA

R.T.: 7.319 min
Delta R.T.: -0.005 min
Response: 2897435123
Conc: 666.34 ng/ml




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 704155508
Conc: 693.77 ng/ml



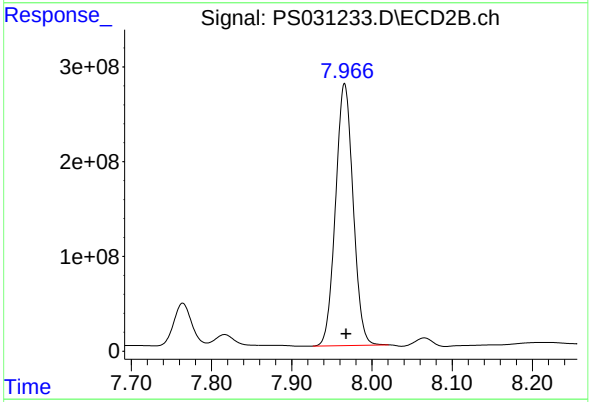

#5 DICAMBA

R.T.: 7.509 min
Delta R.T.: -0.005 min
Response: 9918771681
Conc: 601.25 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

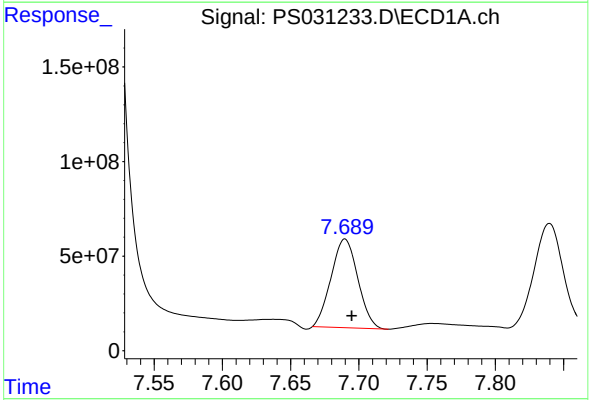
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



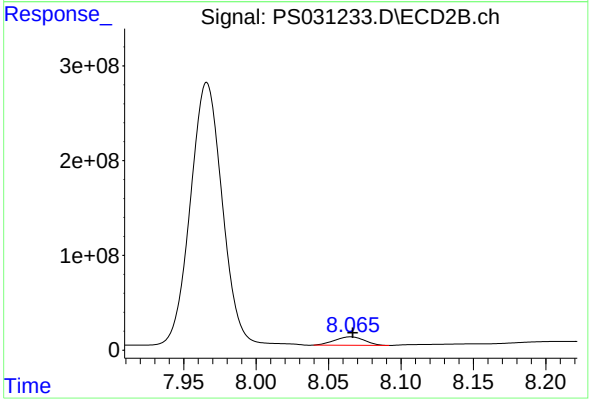

#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: -0.002 min
Response: 4200124781
Conc: 650.84 ng/ml



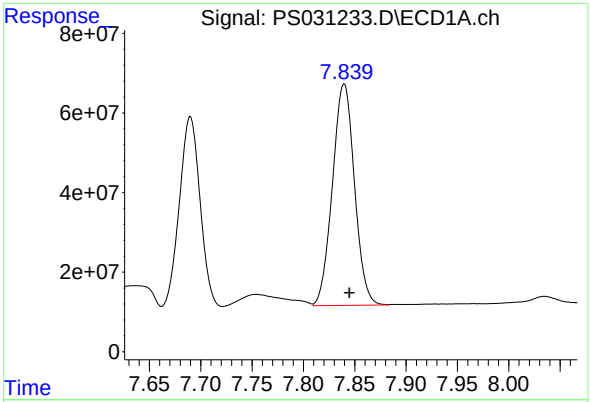

#6 MCPP

R.T.: 7.690 min
Delta R.T.: -0.005 min
Response: 639646471
Conc: 63.90 ug/ml




#6 MCPP

R.T.: 8.065 min
Delta R.T.: -0.001 min
Response: 127986691
Conc: 61.60 ug/ml



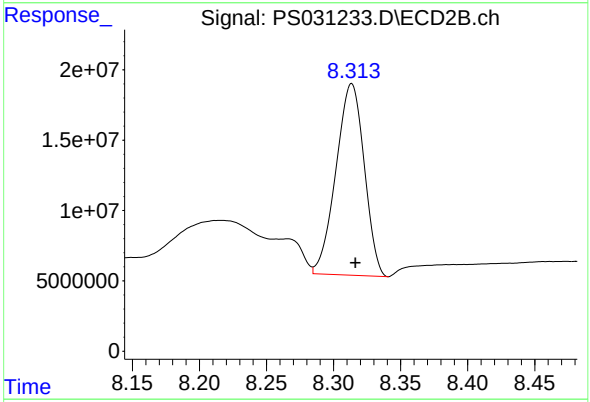

#7 MCPA

R.T.: 7.840 min
Delta R.T.: -0.005 min
Response: 831645162
Conc: 66.46 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

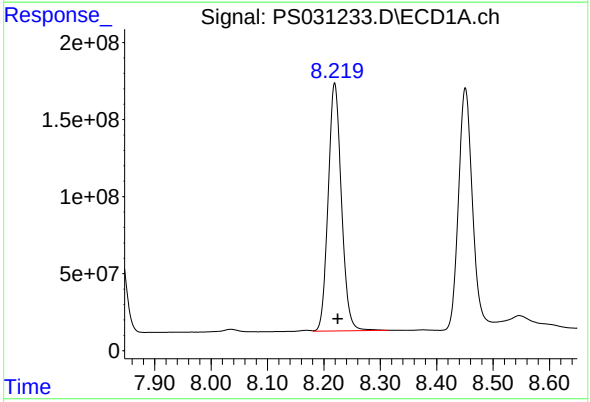
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



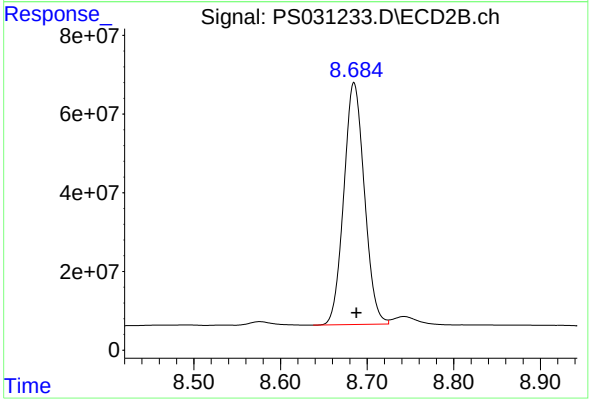

#7 MCPA

R.T.: 8.313 min
Delta R.T.: -0.003 min
Response: 199200038
Conc: 63.13 ug/ml



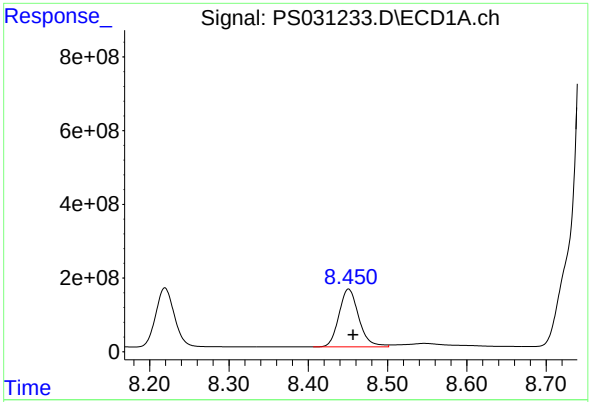

#8 DICHLORPROP

R.T.: 8.219 min
Delta R.T.: -0.005 min
Response: 2628708493
Conc: 687.79 ng/ml




#8 DICHLORPROP

R.T.: 8.685 min
Delta R.T.: -0.003 min
Response: 1015326356
Conc: 670.24 ng/ml



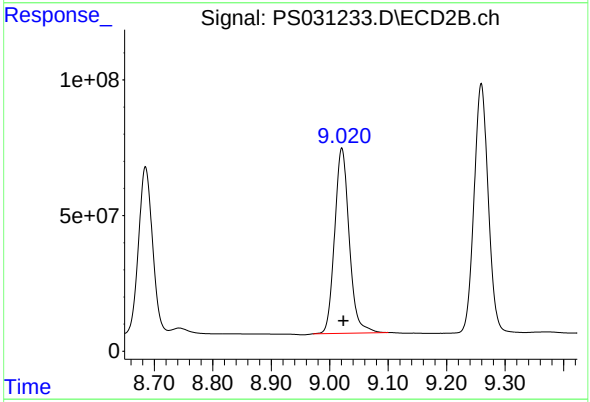

#9 2,4-D

R.T.: 8.451 min
Delta R.T.: -0.006 min
Response: 2723897944
Conc: 729.31 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

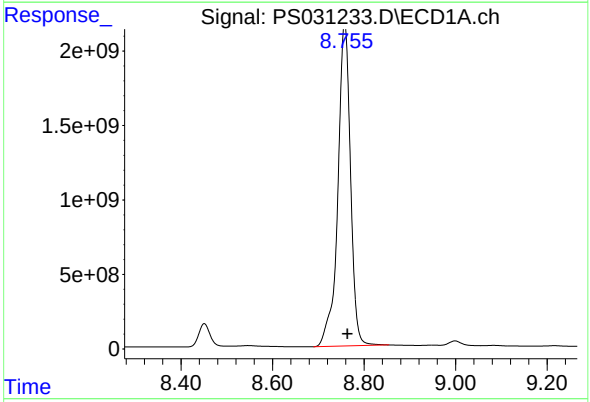
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



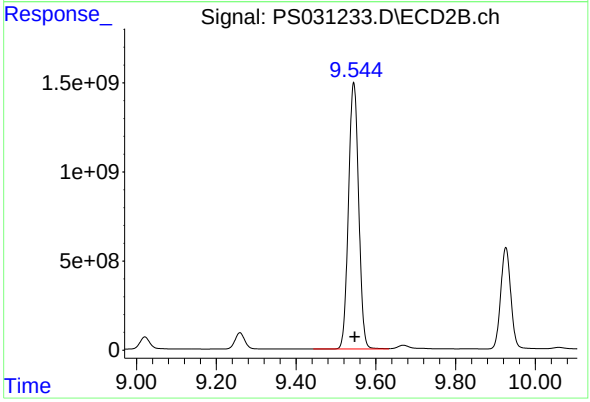

#9 2,4-D

R.T.: 9.021 min
Delta R.T.: -0.003 min
Response: 1183069685
Conc: 696.61 ng/ml



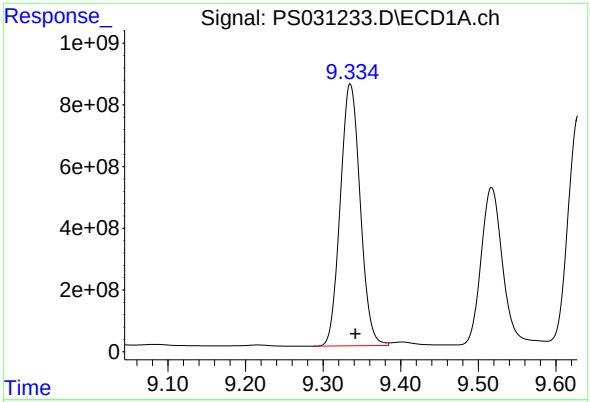

#10 Pentachlorophenol

R.T.: 8.755 min
Delta R.T.: -0.008 min
Response: 41625198173
Conc: 762.07 ng/ml m




#10 Pentachlorophenol

R.T.: 9.545 min
Delta R.T.: -0.003 min
Response: 26526744051
Conc: 678.76 ng/ml



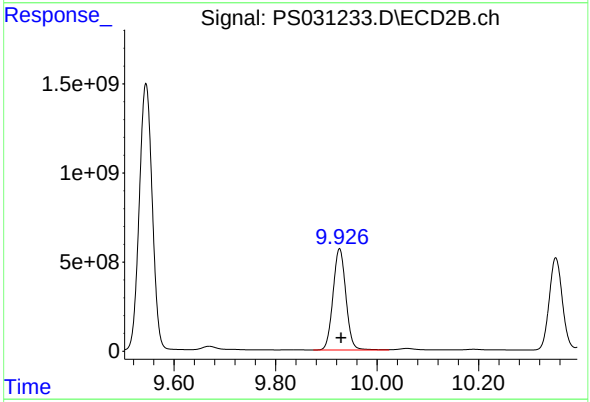

#11 2,4,5-TP (SILVEX)

R.T.: 9.335 min
Delta R.T.: -0.007 min
Response: 15136567168
Conc: 689.48 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

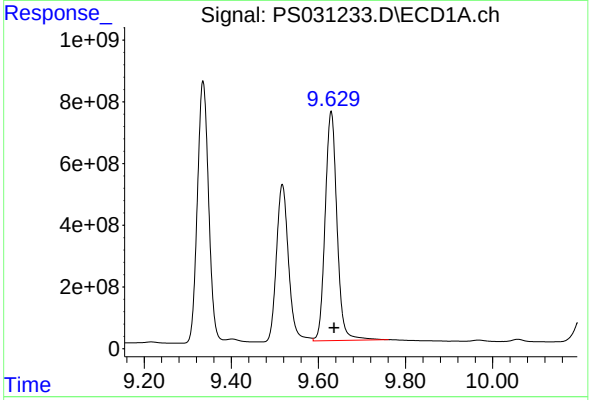
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



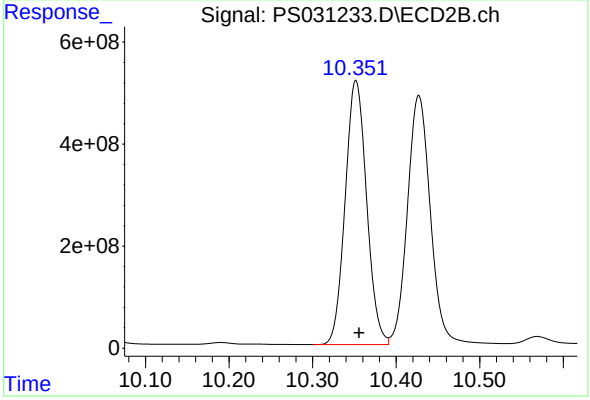

#11 2,4,5-TP (SILVEX)

R.T.: 9.926 min
Delta R.T.: -0.003 min
Response: 10005926582
Conc: 671.80 ng/ml



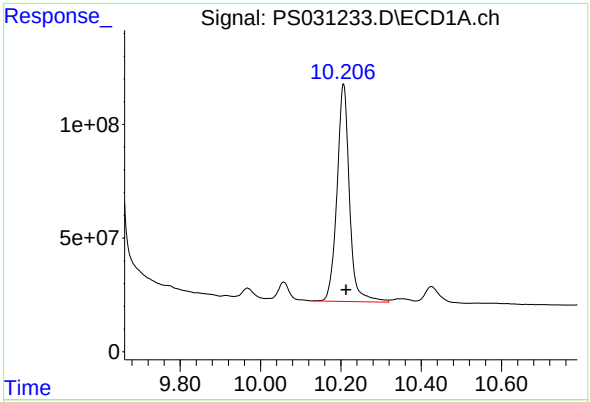

#12 2,4,5-T

R.T.: 9.629 min
Delta R.T.: -0.007 min
Response: 14005933448
Conc: 717.23 ng/ml




#12 2,4,5-T

R.T.: 10.352 min
Delta R.T.: -0.004 min
Response: 9233980783
Conc: 649.39 ng/ml



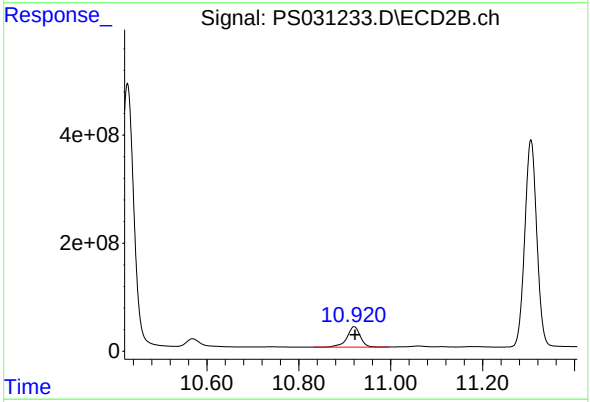

#13 2,4-DB

R.T.: 10.207 min
Delta R.T.: -0.006 min
Response: 2059772066
Conc: 688.91 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

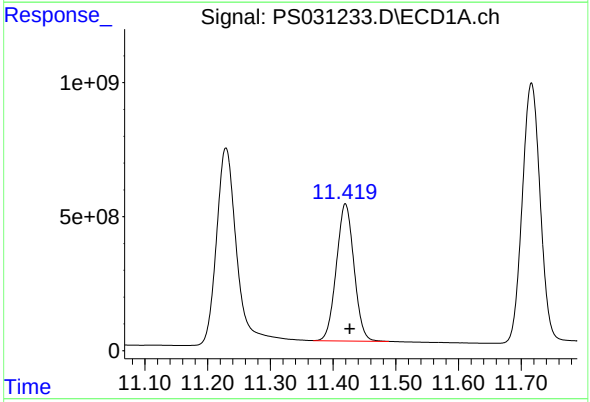
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



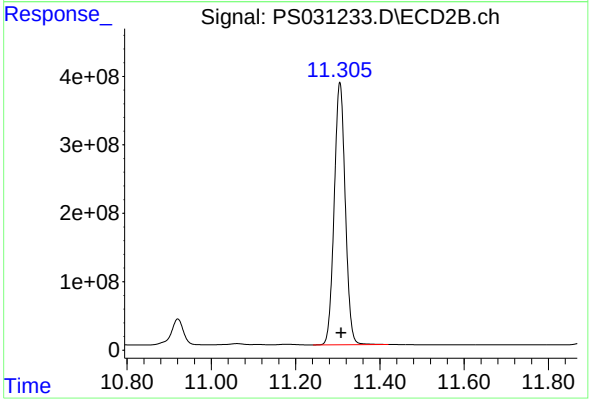

#13 2,4-DB

R.T.: 10.920 min
Delta R.T.: -0.002 min
Response: 764054036
Conc: 652.75 ng/ml



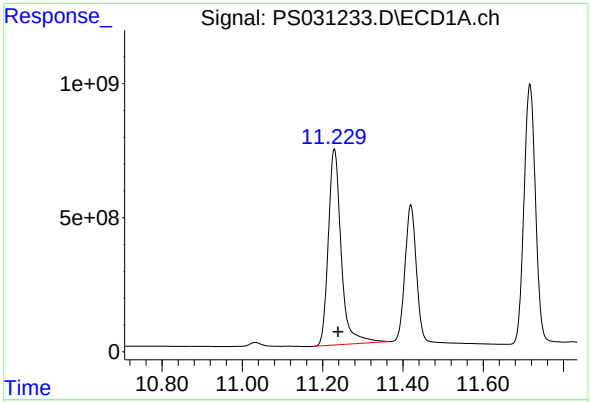

#14 DINOSEB

R.T.: 11.419 min
Delta R.T.: -0.008 min
Response: 10001961874
Conc: 642.41 ng/ml m




#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.003 min
Response: 6972808210
Conc: 616.95 ng/ml



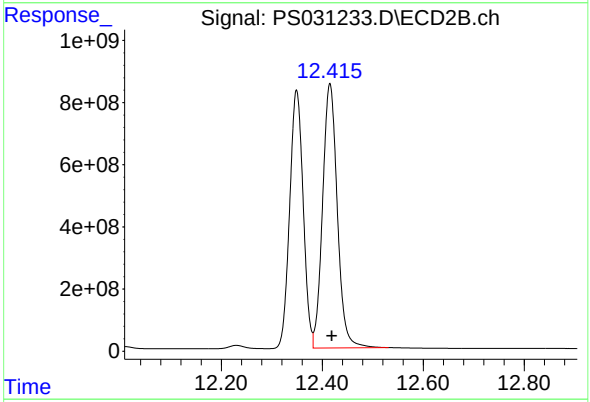

#15 Picloram

R.T.: 11.229 min
Delta R.T.: -0.010 min
Response: 16290439586
Conc: 814.25 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

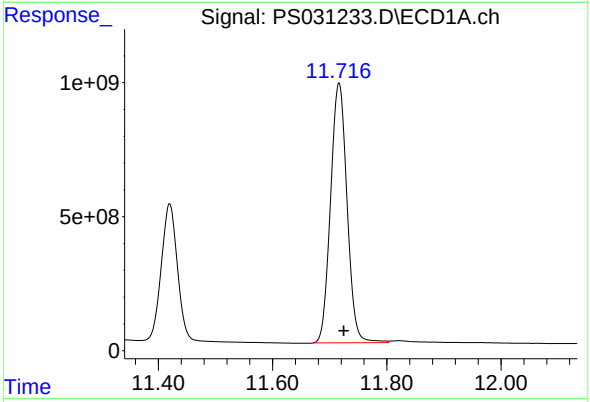
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



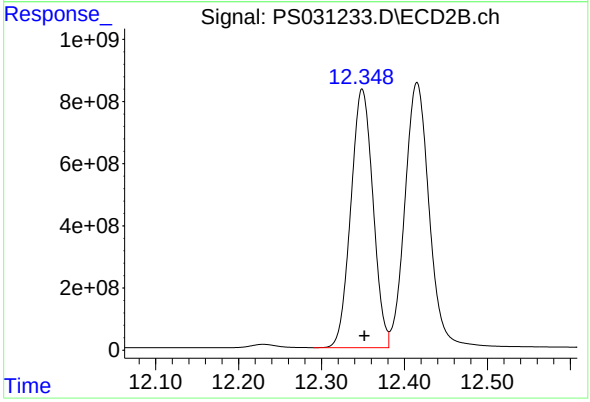

#15 Picloram

R.T.: 12.415 min
Delta R.T.: -0.004 min
Response: 17205474787
Conc: 691.12 ng/ml




#16 DCPA

R.T.: 11.716 min
Delta R.T.: -0.008 min
Response: 19417209517
Conc: 676.71 ng/ml




#16 DCPA

R.T.: 12.348 min
Delta R.T.: -0.003 min
Response: 15457311166
Conc: 671.01 ng/ml m

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 23:29 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.32 | 7.33 | 7.23 | 7.43 | 0.01 |
| 2,4-D | 8.45 | 8.46 | 8.36 | 8.56 | 0.01 |
| 2,4,5-TP(Silvex) | 9.34 | 9.34 | 9.24 | 9.44 | 0.00 |

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Continuing Calib Date:** 07/24/2025 **Initial Calibration Date(s):** 07/21/2025 07/21/2025

**Continuing Calib Time:** 23:29 **Initial Calibration Time(s):** 15:02 16:39

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.76 | 7.77 | 7.67 | 7.87 | 0.01 |
| 2,4-D | 9.02 | 9.02 | 8.92 | 9.12 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031243.D **Time Analyzed:** 23:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.335 | 9.242 | 9.442 | 685.930 | 712.500 | -3.7 |
| 2,4-D | 8.451 | 8.356 | 8.556 | 727.900 | 705.000 | 3.2 |
| 2,4-DCAA | 7.320 | 7.225 | 7.425 | 669.120 | 750.000 | -10.8 |

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

## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/21/2025 07/21/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/24/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031243.D **Time Analyzed:** 23:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.926 | 9.829 | 10.029 | 666.400 | 712.500 | -6.5 |
| 2,4-D | 9.022 | 8.924 | 9.124 | 695.080 | 705.000 | -1.4 |
| 2,4-DCAA | 7.764 | 7.666 | 7.866 | 688.880 | 750.000 | -8.1 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031243.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 23:29
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:48:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 2909.5E6 | 699.2E6 | 669.117 | 688.879 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.686 | 2.705 | 3590.9E6 | 1712.8E6 | 572.445 | 603.780 |
| 2) T | 3,5-DICHL... | 6.483 | 6.712 | 3507.8E6 | 958.1E6 | 635.156 | 622.190 |
| 3) T | 4-Nitroph... | 7.119 | 7.298 | 1152.9E6 | 1104.9E6 | 699.230 | 610.691 |
| 5) T | DICAMBA | 7.508 | 7.966 | 9955.8E6 | 4165.2E6 | 603.490 | 645.427 |
| 6) T | MCPP | 7.689 | 8.065 | 642.7E6 | 129.5E6 | 64.202 | 62.324 |
| 7) T | MCPA | 7.840 | 8.313 | 830.7E6 | 199.6E6 | 66.382 | 63.271 |
| 8) T | DICHLORPROP | 8.219 | 8.686 | 2628.5E6 | 1023.6E6 | 687.728 | 675.681 |
| 9) T | 2,4-D | 8.451 | 9.022 | 2718.6E6 | 1180.5E6 | 727.898 | 695.083 |
| 10) T | Pentachlo... | 8.754 | 9.545 | 41806.4E6 | 26487.2E6 | 765.384m | 677.748 |
| 11) T | 2,4,5-TP ... | 9.335 | 9.926 | 15058.6E6 | 9925.5E6 | 685.931 | 666.399 |
| 12) T | 2,4,5-T | 9.628 | 10.353 | 13914.5E6 | 9159.7E6 | 712.549 | 644.166 |
| 13) T | 2,4-DB | 10.205 | 10.920 | 2019.5E6 | 768.8E6 | 675.453 | 656.812 |
| 14) T | DINOSEB | 11.418 | 11.305 | 9801.3E6 | 6793.7E6 | 629.520m | 601.099 |
| 15) T | Picloram | 11.228 | 12.415 | 15650.3E6 | 16761.7E6 | 782.260m | 673.296 |
| 16) T | DCPA | 11.716 | 12.348 | 19471.9E6 | 15465.9E6 | 678.618 | 671.379m |

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

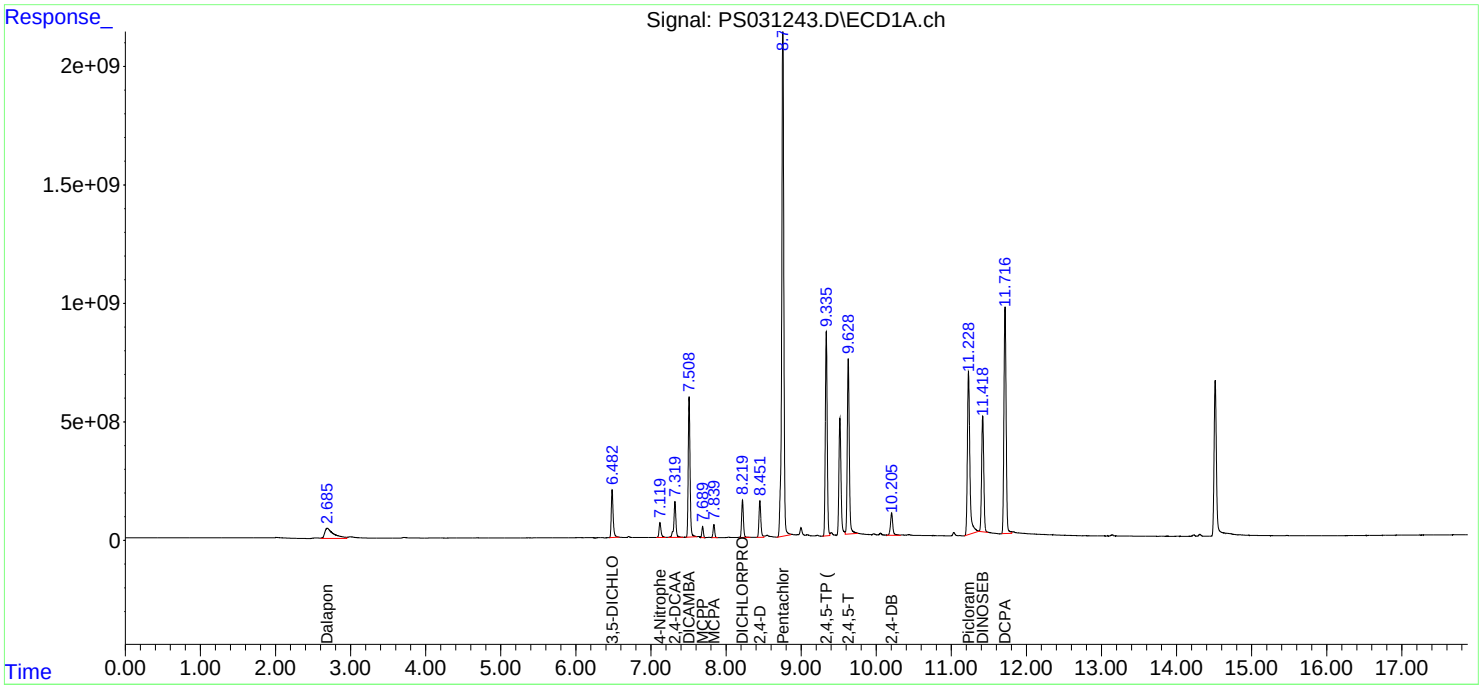
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031243.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 23:29
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 35 Sample Multiplier: 1

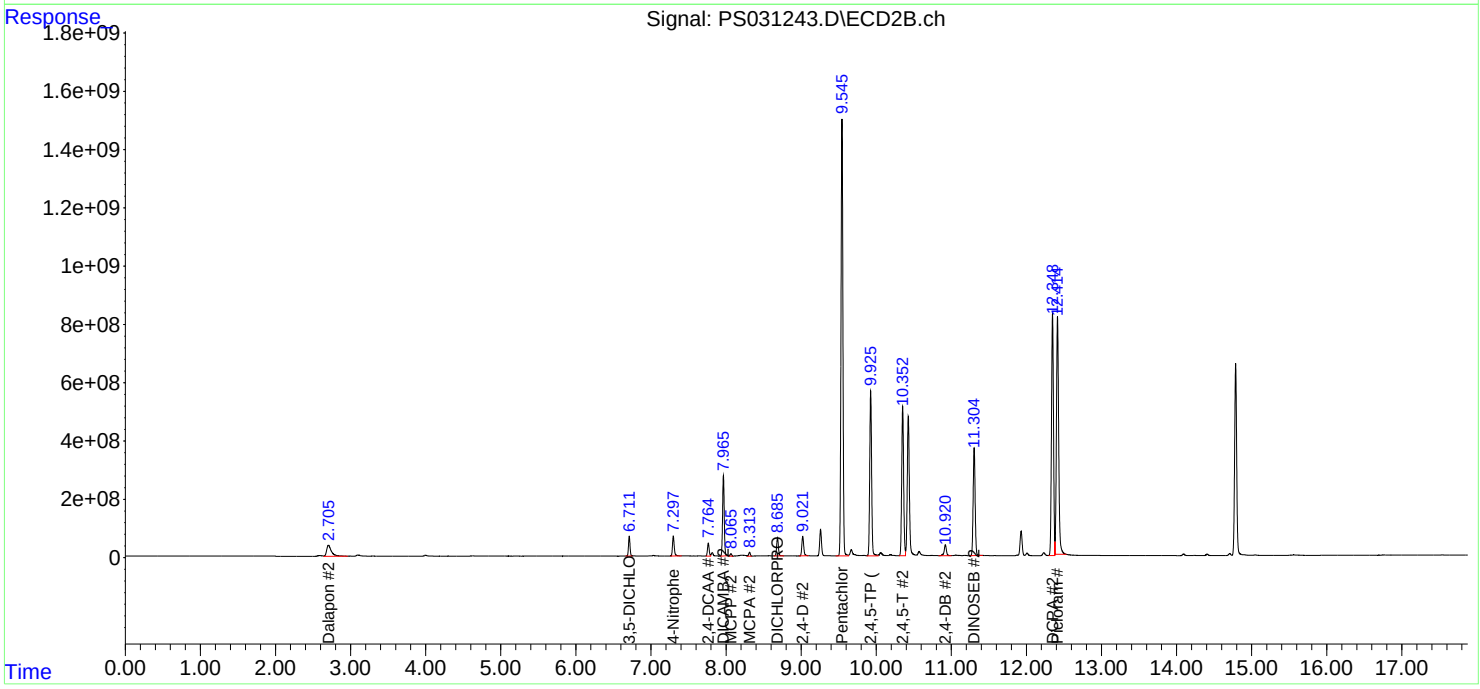
**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

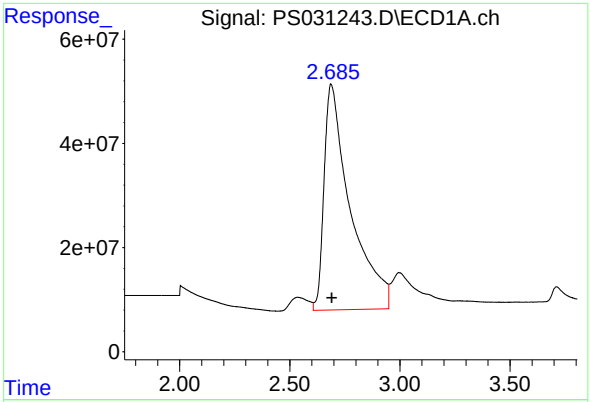
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:48:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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





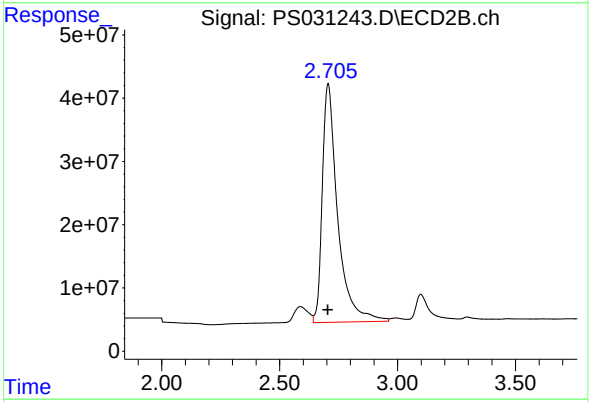

#1 Dalapon

R.T.: 2.686 min
Delta R.T.: -0.004 min
Response: 3590892898
Conc: 572.45 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

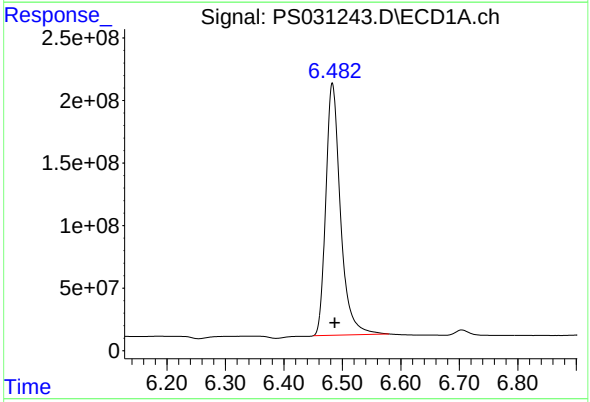
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



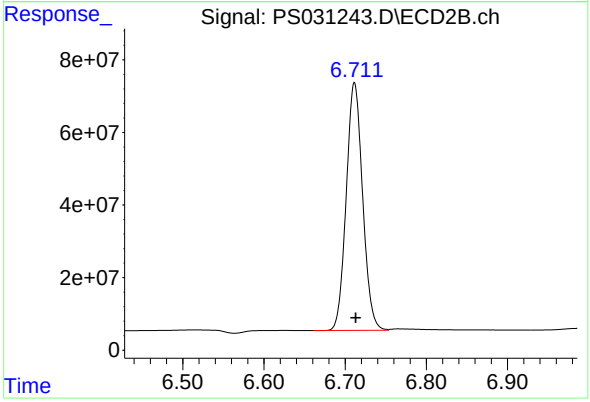

#1 Dalapon

R.T.: 2.705 min
Delta R.T.: 0.002 min
Response: 1712766026
Conc: 603.78 ng/ml



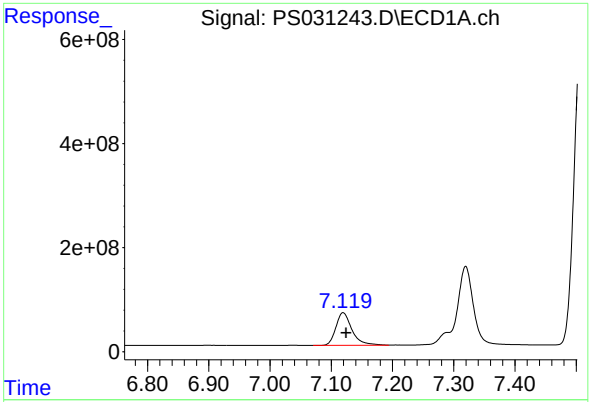

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.483 min
Delta R.T.: -0.004 min
Response: 3507807605
Conc: 635.16 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.712 min
Delta R.T.: -0.001 min
Response: 958106162
Conc: 622.19 ng/ml



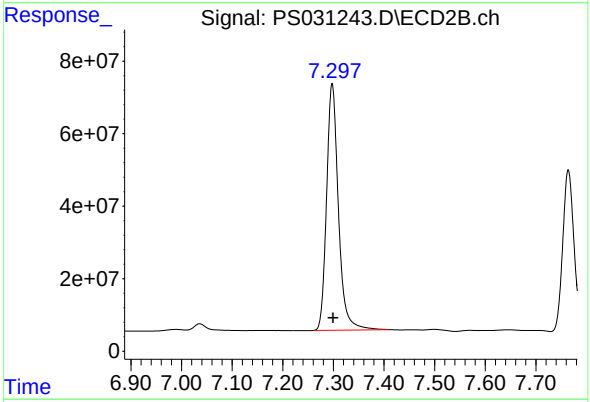

#3 4-Nitrophenol

R.T.: 7.119 min
Delta R.T.: -0.005 min
Response: 1152879871
Conc: 699.23 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

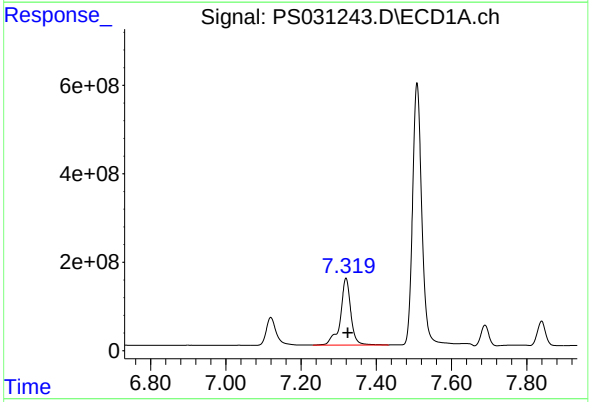
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



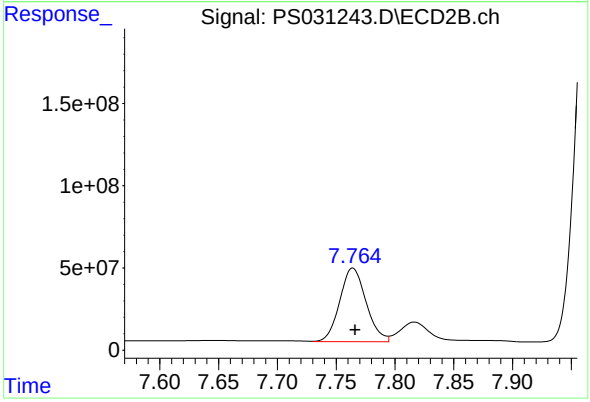

#3 4-Nitrophenol

R.T.: 7.298 min
Delta R.T.: -0.001 min
Response: 1104933236
Conc: 610.69 ng/ml



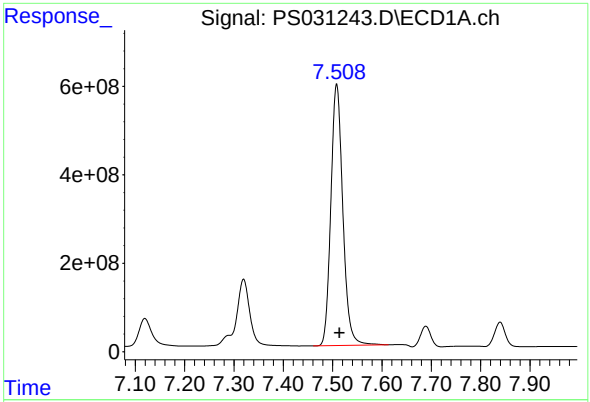

#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 2909491460
Conc: 669.12 ng/ml




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 699190254
Conc: 688.88 ng/ml



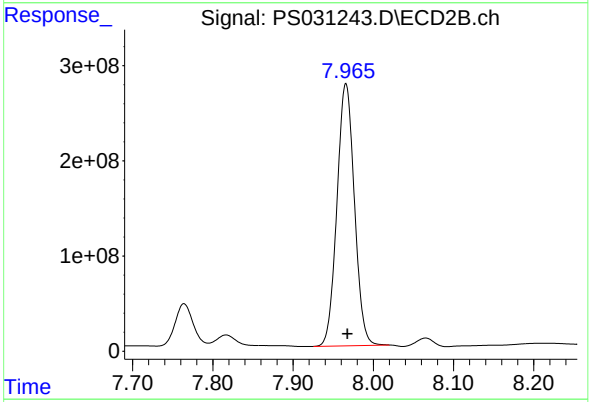

#5 DICAMBA

R.T.: 7.508 min
Delta R.T.: -0.006 min
Response: 9955761097
Conc: 603.49 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

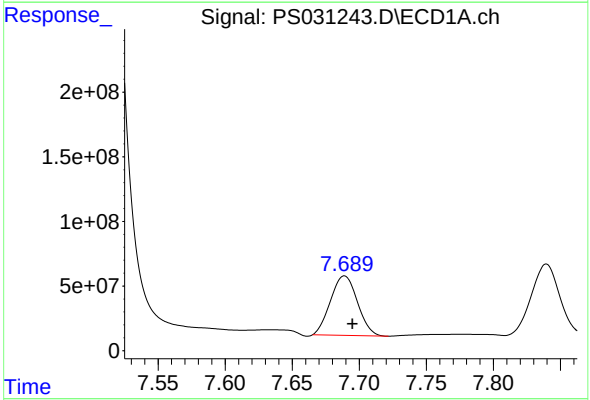
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



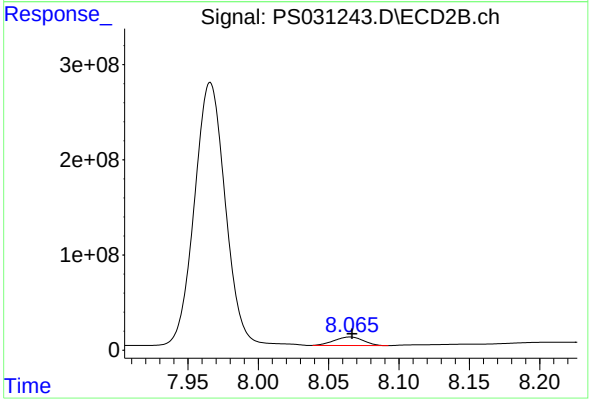

#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: -0.002 min
Response: 4165177294
Conc: 645.43 ng/ml



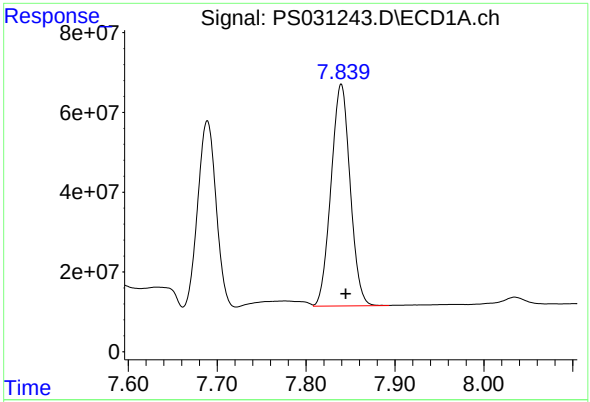

#6 MCPP

R.T.: 7.689 min
Delta R.T.: -0.006 min
Response: 642666704
Conc: 64.20 ug/ml




#6 MCPP

R.T.: 8.065 min
Delta R.T.: -0.002 min
Response: 129498194
Conc: 62.32 ug/ml



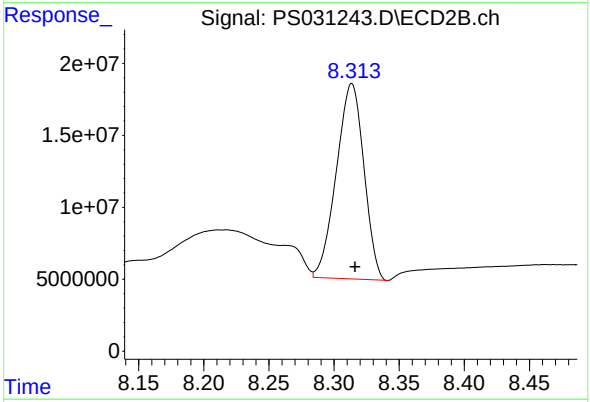

#7 MCPA

R.T.: 7.840 min
Delta R.T.: -0.005 min
Response: 830716877
Conc: 66.38 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

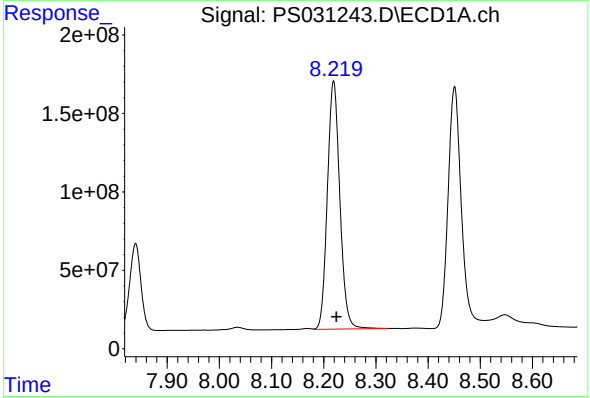
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



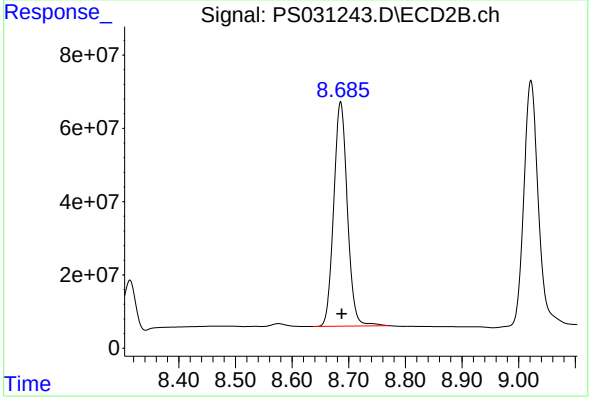

#7 MCPA

R.T.: 8.313 min
Delta R.T.: -0.003 min
Response: 199634103
Conc: 63.27 ug/ml



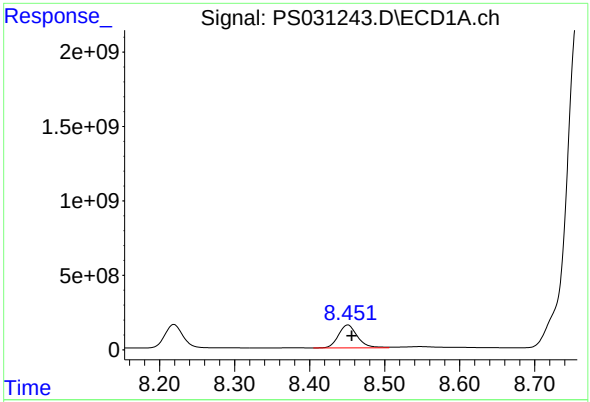

#8 DICHLORPROP

R.T.: 8.219 min
Delta R.T.: -0.006 min
Response: 2628467440
Conc: 687.73 ng/ml




#8 DICHLORPROP

R.T.: 8.686 min
Delta R.T.: -0.002 min
Response: 1023561858
Conc: 675.68 ng/ml



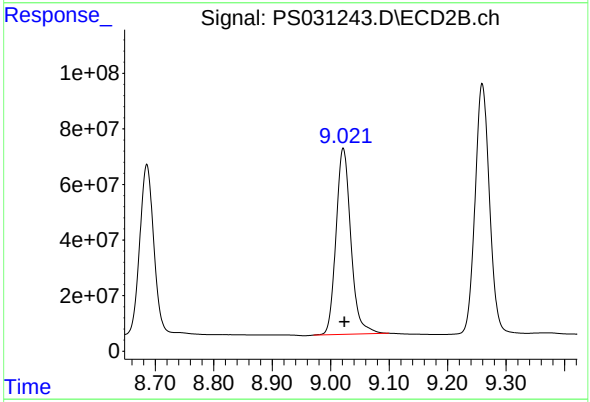

#9 2,4-D

R.T.: 8.451 min
Delta R.T.: -0.005 min
Response: 2718637678
Conc: 727.90 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

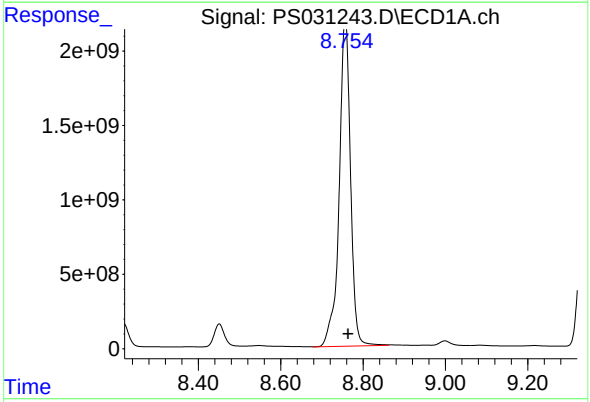
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



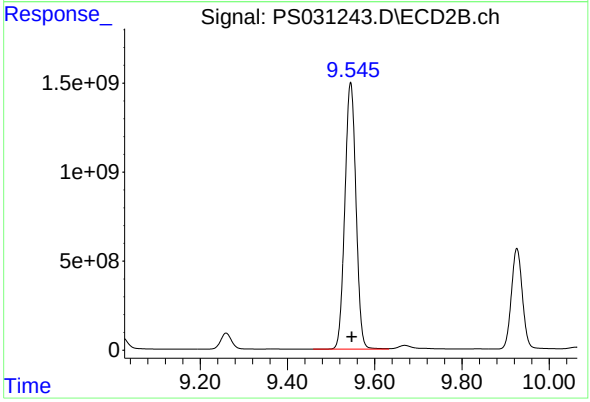

#9 2,4-D

R.T.: 9.022 min
Delta R.T.: -0.002 min
Response: 1180472427
Conc: 695.08 ng/ml



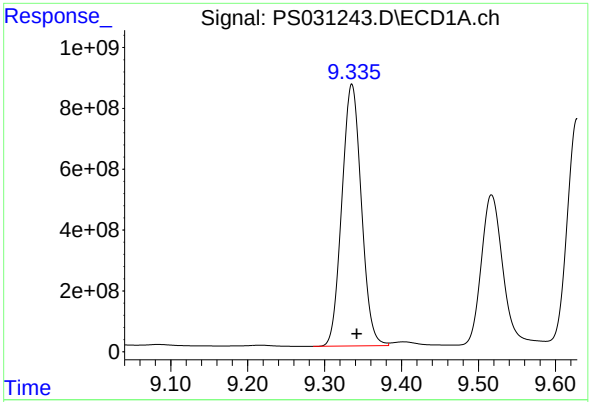

#10 Pentachlorophenol

R.T.: 8.754 min
Delta R.T.: -0.010 min
Response: 41806440092
Conc: 765.38 ng/ml m




#10 Pentachlorophenol

R.T.: 9.545 min
Delta R.T.: -0.002 min
Response: 26487198066
Conc: 677.75 ng/ml



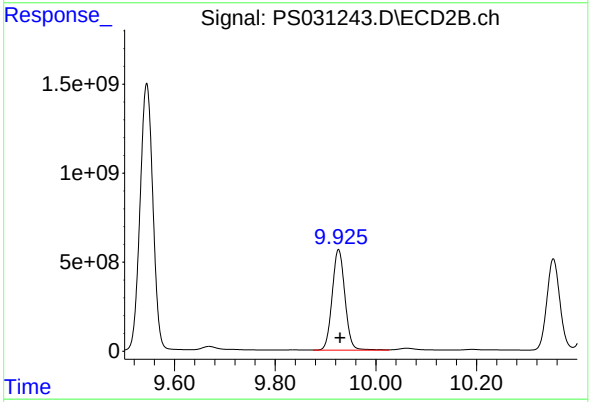

#11 2,4,5-TP (SILVEX)

R.T.: 9.335 min
Delta R.T.: -0.007 min
Response: 15058624825
Conc: 685.93 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

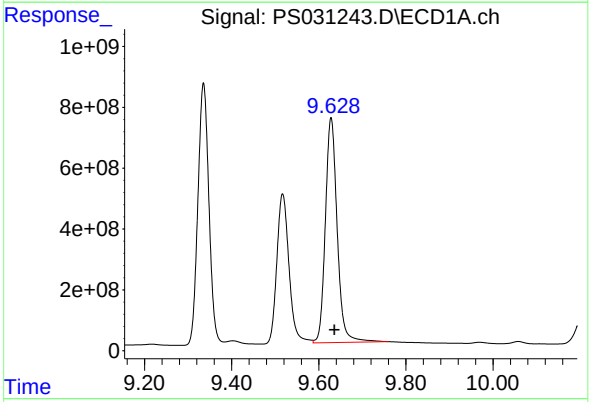
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



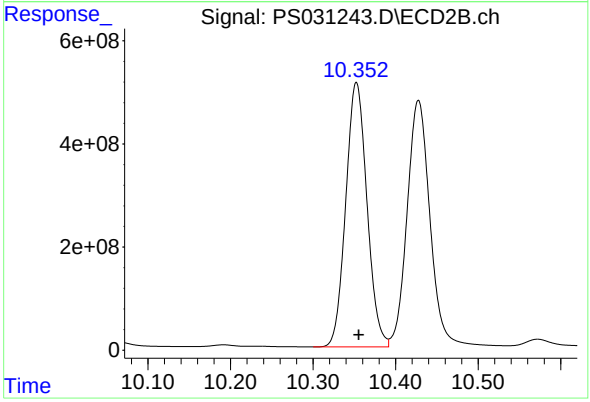

#11 2,4,5-TP (SILVEX)

R.T.: 9.926 min
Delta R.T.: -0.003 min
Response: 9925460417
Conc: 666.40 ng/ml



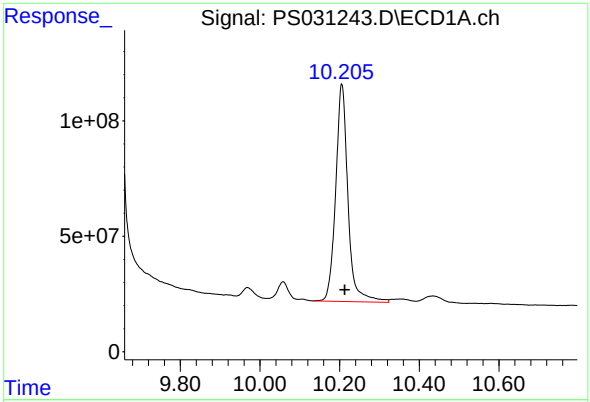

#12 2,4,5-T

R.T.: 9.628 min
Delta R.T.: -0.008 min
Response: 13914521193
Conc: 712.55 ng/ml




#12 2,4,5-T

R.T.: 10.353 min
Delta R.T.: -0.003 min
Response: 9159692401
Conc: 644.17 ng/ml



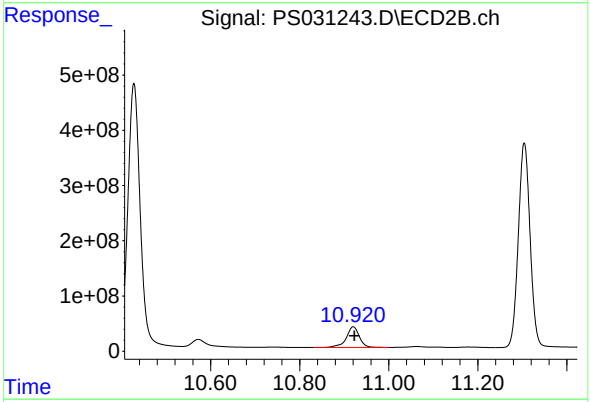

#13 2,4-DB

R.T.: 10.205 min
Delta R.T.: -0.007 min
Response: 2019527006
Conc: 675.45 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

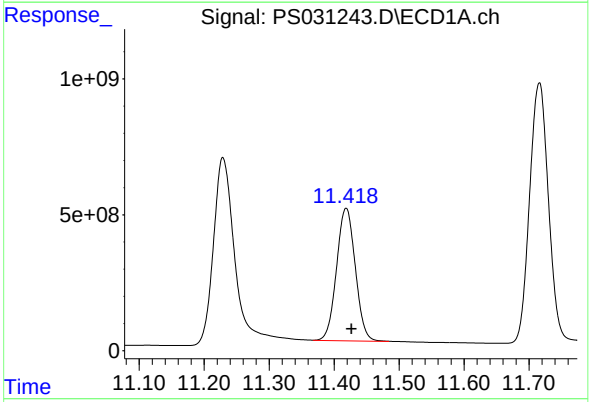
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



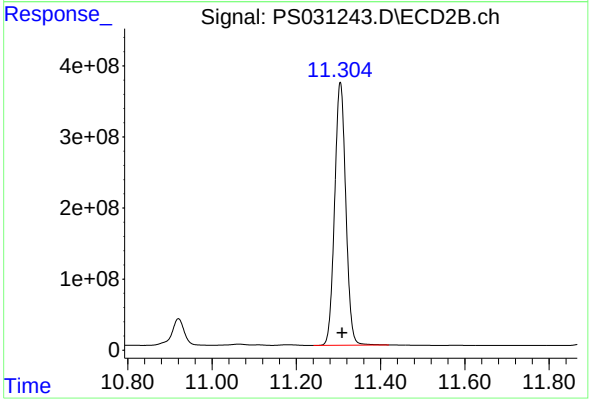

#13 2,4-DB

R.T.: 10.920 min
Delta R.T.: -0.003 min
Response: 768805197
Conc: 656.81 ng/ml



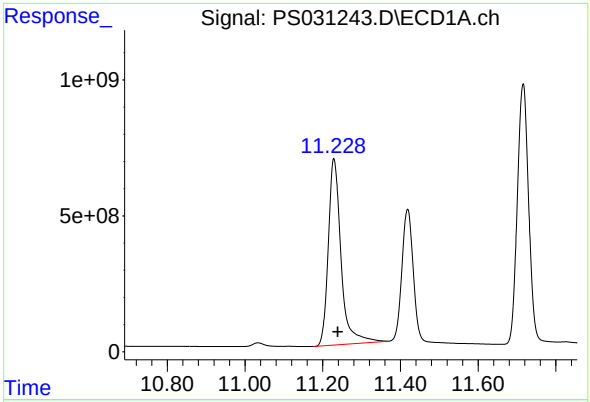

#14 DINOSEB

R.T.: 11.418 min
Delta R.T.: -0.008 min
Response: 9801301856
Conc: 629.52 ng/ml m




#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.004 min
Response: 6793676340
Conc: 601.10 ng/ml



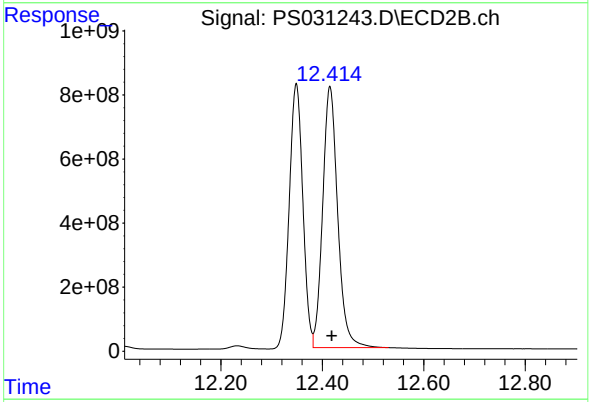

#15 Picloram

R.T.: 11.228 min
Delta R.T.: -0.011 min
Response: 15650340861
Conc: 782.26 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
HSTDCCC750

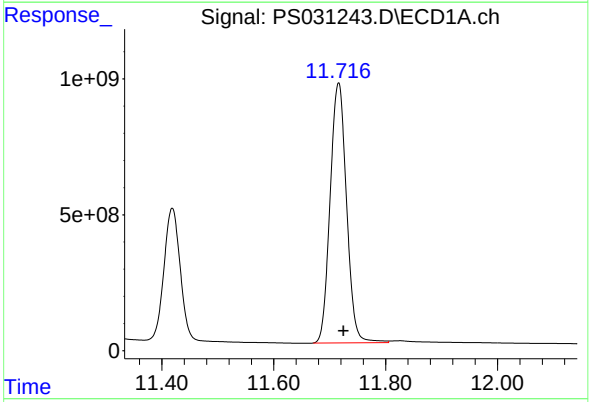
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



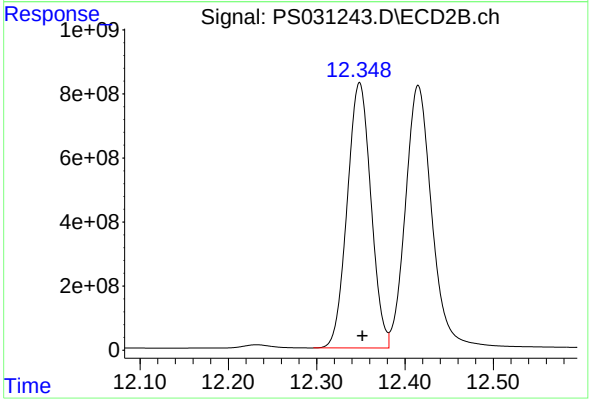

#15 Picloram

R.T.: 12.415 min
Delta R.T.: -0.004 min
Response: 16761719896
Conc: 673.30 ng/ml




#16 DCPA

R.T.: 11.716 min
Delta R.T.: -0.008 min
Response: 19471902543
Conc: 678.62 ng/ml




#16 DCPA

R.T.: 12.348 min
Delta R.T.: -0.003 min
Response: 15465916997
Conc: 671.38 ng/ml m

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Weston Solutions, Inc. **SDG No.:** Q2641

**Project:** RFP 905A **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/21/2025 07/21/2025

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 07/21/2025 | 14:38 | PS031156.D | 7.33 | 0.00 |
| HSTDICC200 | HSTDICC200 | 07/21/2025 | 15:02 | PS031157.D | 7.33 | 0.00 |
| HSTDICC500 | HSTDICC500 | 07/21/2025 | 15:26 | PS031158.D | 7.33 | 0.00 |
| HSTDICC750 | HSTDICC750 | 07/21/2025 | 15:51 | PS031159.D | 7.33 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 07/21/2025 | 16:15 | PS031160.D | 7.33 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 07/21/2025 | 16:39 | PS031161.D | 7.33 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 10:35 | PS031221.D | 7.32 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 12:03 | PS031222.D | 7.32 | 0.00 |
| P001-CONCRETE001-01 | Q2641-02 | 07/24/2025 | 17:03 | PS031231.D | 7.32 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 17:27 | PS031232.D | 7.32 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 18:39 | PS031233.D | 7.32 | 0.00 |
| P001-CONCRETE001-01MS | Q2641-02MS | 07/24/2025 | 19:04 | PS031234.D | 7.32 | 0.00 |
| P001-CONCRETE001-01MSD | Q2641-02MSD | 07/24/2025 | 19:28 | PS031235.D | 7.32 | 0.00 |
| PB169001BL | PB169001BL | 07/24/2025 | 19:52 | PS031236.D | 7.32 | 0.00 |
| PB169001BS | PB169001BS | 07/24/2025 | 20:16 | PS031237.D | 7.32 | 0.00 |
| PB168919TB | PB168919TB | 07/24/2025 | 20:40 | PS031238.D | 7.32 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 22:17 | PS031242.D | 7.32 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 23:29 | PS031243.D | 7.32 | 0.00 |

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# Analytical Sequence

**Client:** Weston Solutions, Inc. **SDG No.:** Q2641

**Project:** RFP 905A **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 07/21/2025 07/21/2025

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 07/21/2025 | 14:38 | PS031156.D | 7.77 | 0.00 |
| HSTDICC200 | HSTDICC200 | 07/21/2025 | 15:02 | PS031157.D | 7.77 | 0.00 |
| HSTDICC500 | HSTDICC500 | 07/21/2025 | 15:26 | PS031158.D | 7.77 | 0.00 |
| HSTDICC750 | HSTDICC750 | 07/21/2025 | 15:51 | PS031159.D | 7.77 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 07/21/2025 | 16:15 | PS031160.D | 7.77 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 07/21/2025 | 16:39 | PS031161.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 10:35 | PS031221.D | 7.76 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 12:03 | PS031222.D | 7.76 | 0.00 |
| P001-CONCRETE001-01 | Q2641-02 | 07/24/2025 | 17:03 | PS031231.D | 7.76 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 17:27 | PS031232.D | 7.76 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 18:39 | PS031233.D | 7.76 | 0.00 |
| P001-CONCRETE001-01MS | Q2641-02MS | 07/24/2025 | 19:04 | PS031234.D | 7.76 | 0.00 |
| P001-CONCRETE001-01MSD | Q2641-02MSD | 07/24/2025 | 19:28 | PS031235.D | 7.76 | 0.00 |
| PB169001BL | PB169001BL | 07/24/2025 | 19:52 | PS031236.D | 7.76 | 0.00 |
| PB169001BS | PB169001BS | 07/24/2025 | 20:16 | PS031237.D | 7.76 | 0.00 |
| PB168919TB | PB168919TB | 07/24/2025 | 20:40 | PS031238.D | 7.76 | 0.00 |
| I.BLK | I.BLK | 07/24/2025 | 22:17 | PS031242.D | 7.76 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/24/2025 | 23:29 | PS031243.D | 7.76 | 0.00 |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**P001-CONCRETE001-01MS**

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Lab Sample ID:** Q2641-02MS **Date(s) Analyzed:** 07/24/2025 07/24/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.45 | 8.40 | 8.50 | 80.3 | 7.1 |
| | 2 | 9.02 | 8.97 | 9.07 | 86.2 | |
| 2,4,5-TP(Silvex) | 1 | 9.34 | 9.29 | 9.39 | 77.7 | 1.3 |
| | 2 | 9.93 | 9.88 | 9.98 | 76.7 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**P001-CONCRETE001-01MSD**

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Lab Sample ID:** Q2641-02MSD **Date(s) Analyzed:** 07/24/2025 07/24/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.45 | 8.40 | 8.50 | 76.2 | 6 |
| | 2 | 9.02 | 8.97 | 9.07 | 80.9 | |
| 2,4,5-TP(Silvex) | 1 | 9.34 | 9.29 | 9.39 | 73.8 | 1.5 |
| | 2 | 9.93 | 9.88 | 9.98 | 72.7 | |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB169001BS**

**Lab Name:** Alliance **Contract:** ROYF02

**Lab Code:** ACE **SDG NO.:** Q2641

**Lab Sample ID:** PB169001BS **Date(s) Analyzed:** 07/24/2025 07/24/2025

**Instrument ID (1):** ECD_S **Instrument ID (2):** ECD_S

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 1 | 9.34 | 9.29 | 9.39 | 5.60 | 5.5 |
| | 2 | 9.93 | 9.88 | 9.98 | 5.30 | |
| 2,4-D | 1 | 8.45 | 8.40 | 8.50 | 6.00 | 8.7 |
| | 2 | 9.02 | 8.97 | 9.07 | 5.50 | |

# QC SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 905A | Date Received: | |
| Client Sample ID: | PB169001BL | SDG No.: | Q2641 |
| Lab Sample ID: | PB169001BL | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031236.D | 1 | 07/23/25 11:45 | 07/24/25 19:52 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 473 | | 61 - 136 | 95% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:52
Operator : AR\AJ
Sample : PB169001BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:44:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 1769.9E6 | 479.9E6 | 407.037 | 472.801 |
| | Target Compounds | | | | | | |

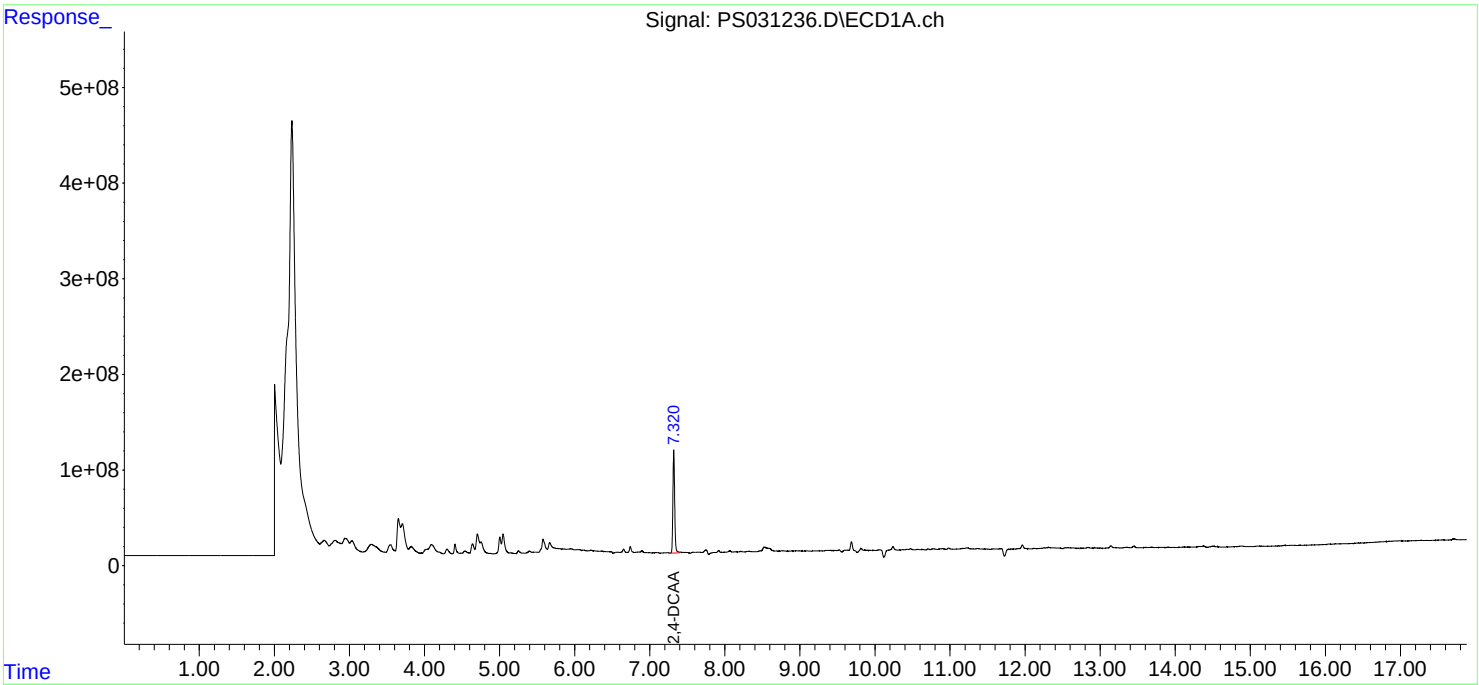
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

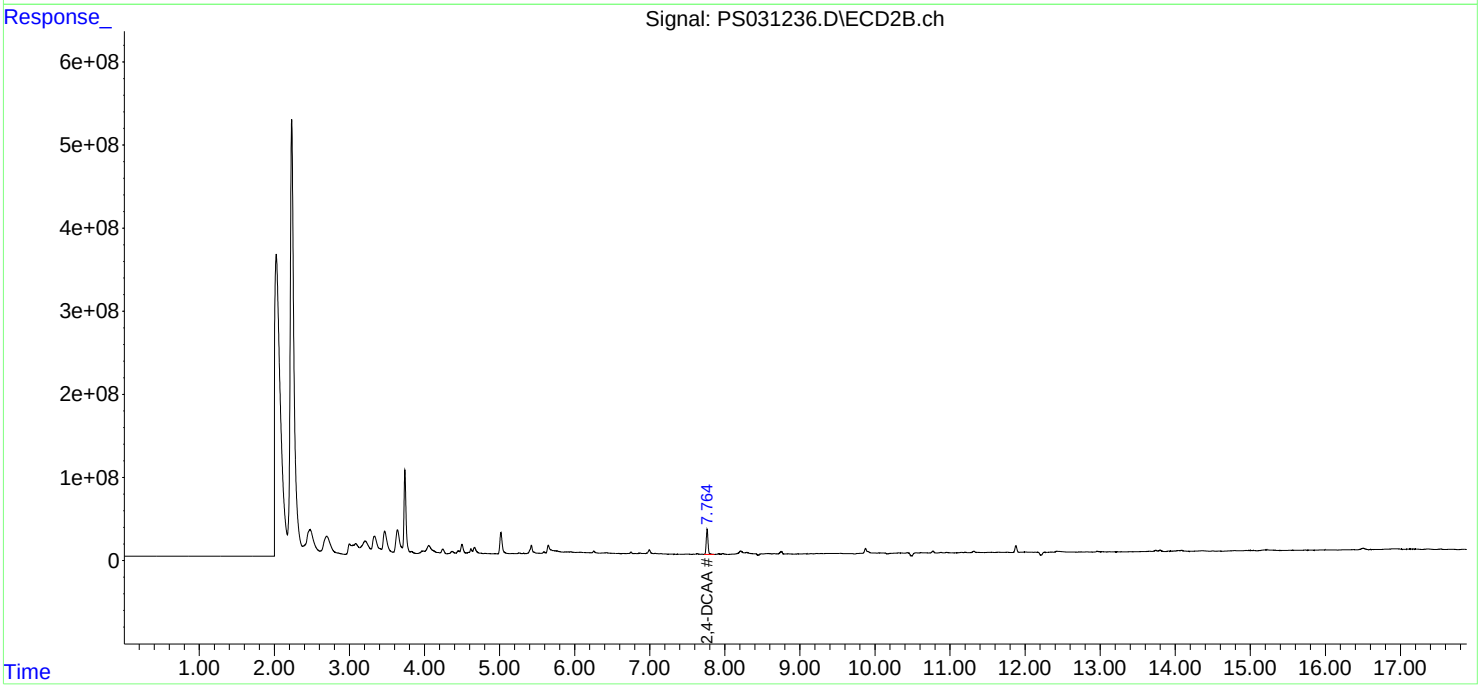
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:52
Operator : AR\AJ
Sample : PB169001BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

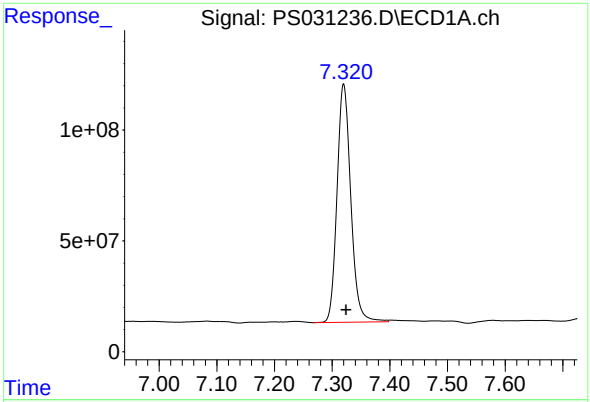
**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:44:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



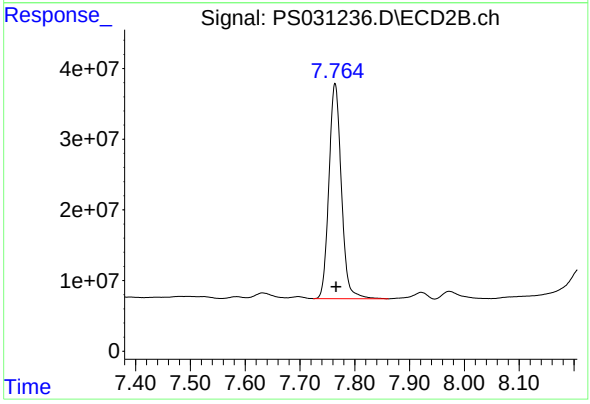






#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 1769898327
Conc: 407.04 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BL




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 479878037
Conc: 472.80 ng/ml

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/21/25 |
| Project: | RFP 905A | Date Received: | 07/21/25 |
| Client Sample ID: | PIBLK-PS031156.D | SDG No.: | Q2641 |
| Lab Sample ID: | I.BLK-PS031156.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031156.D | 1 | | 07/21/25 | ps072125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 504 | | 61 - 136 | 101% | 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\PS072125\
Data File : PS031156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 14:38
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: Jul 22 03:21:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.325 | 7.766 | 1726.8E6 | 511.1E6 | 397.121 | 503.568 # |
| | Target Compounds | | | | | | |

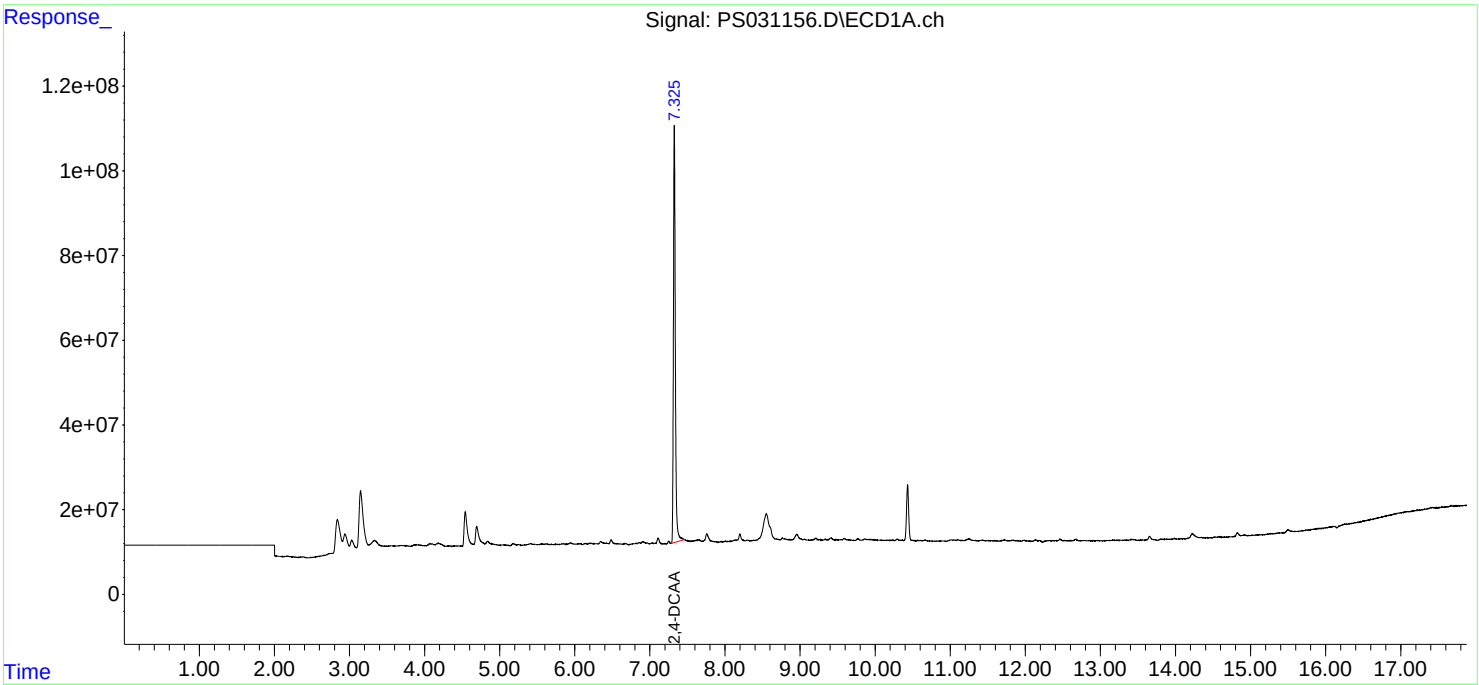
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

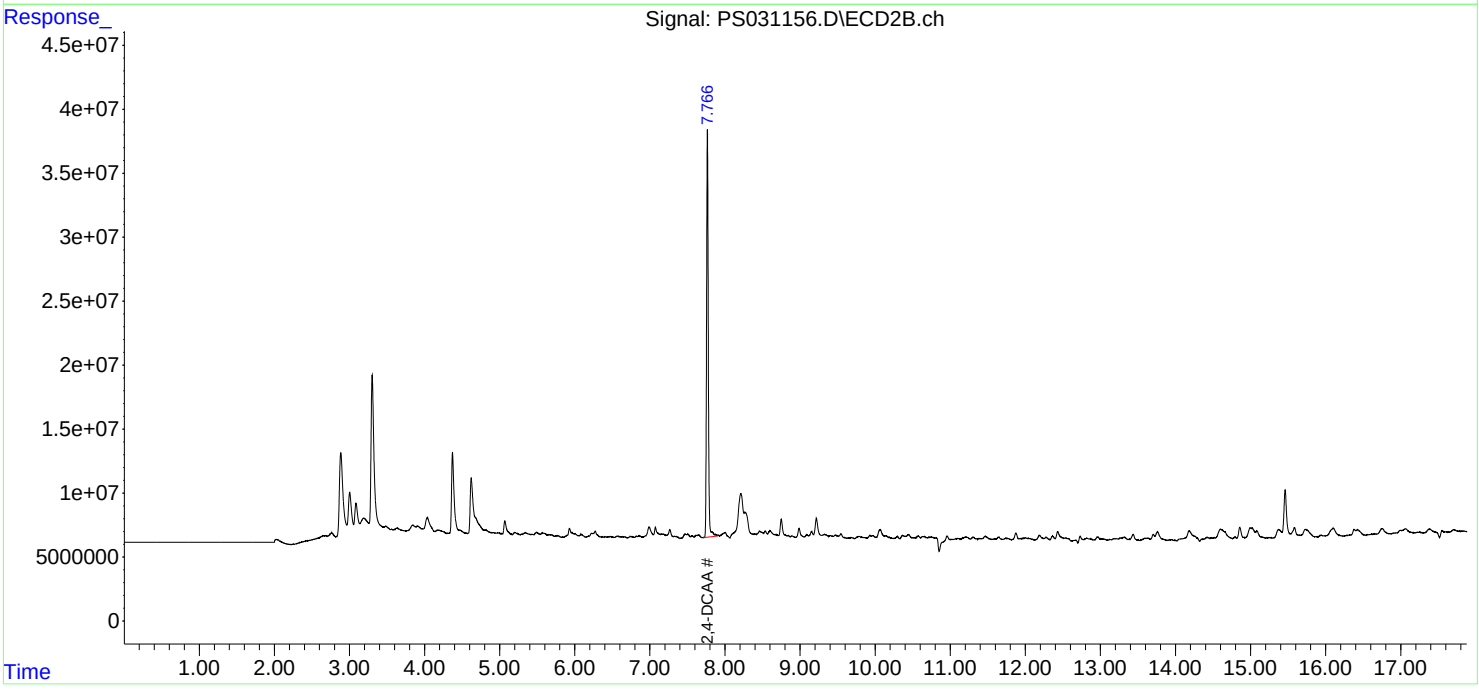
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072125\
Data File : PS031156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jul 2025 14:38
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

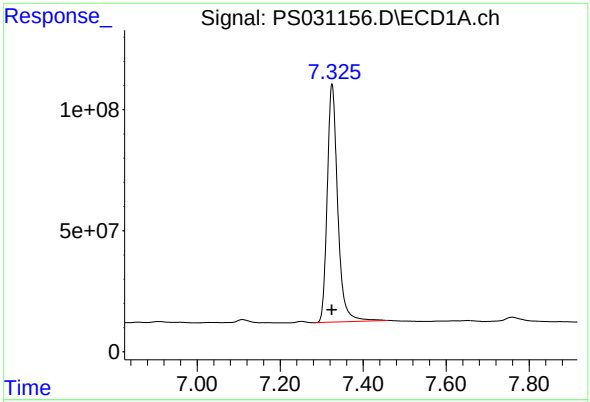
**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 22 03:21:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



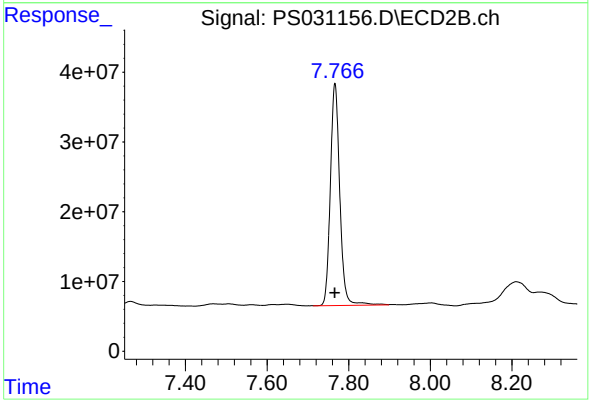






#4 2,4-DCAA

R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 1726782024
Conc: 397.12 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK




#4 2,4-DCAA

R.T.: 7.766 min
Delta R.T.: 0.000 min
Response: 511105861
Conc: 503.57 ng/ml

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/24/25 |
| Project: | RFP 905A | Date Received: | 07/24/25 |
| Client Sample ID: | PIBLK-PS031221.D | SDG No.: | Q2641 |
| Lab Sample ID: | I.BLK-PS031221.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031221.D | 1 | | 07/24/25 | ps072425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 492 | | 61 - 136 | 98% | SPK: 500 |

Comments:

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 10:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 24 16:03:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.763 | 1803.2E6 | 499.7E6 | 414.703 | 492.294 |
| | Target Compounds | | | | | | |

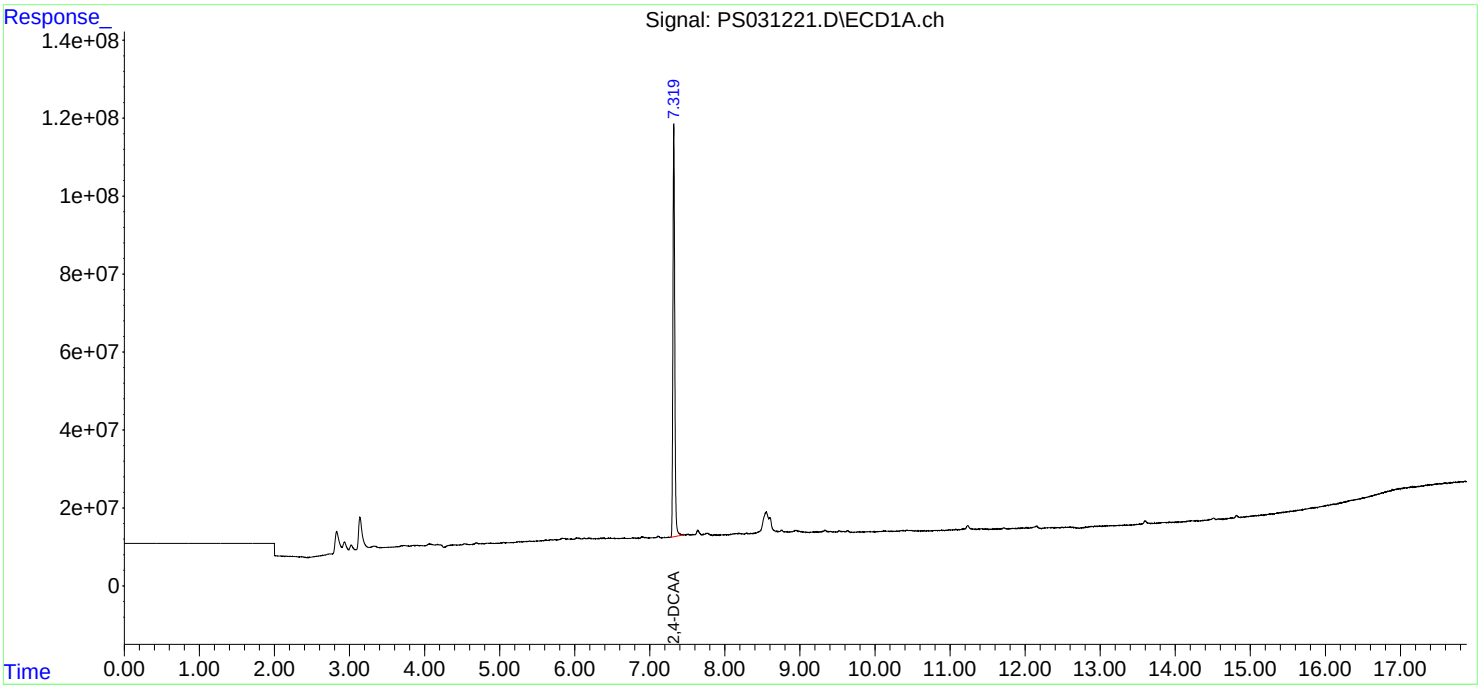
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

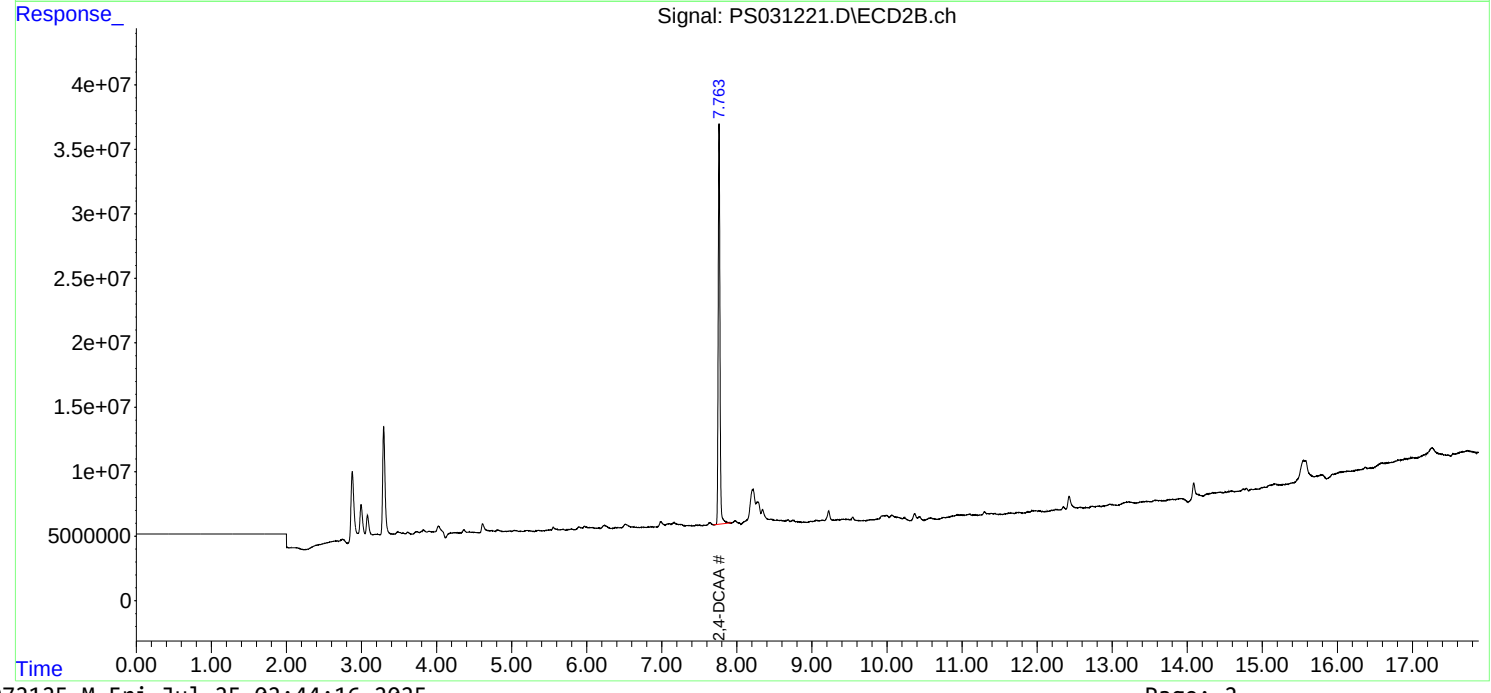
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 10:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

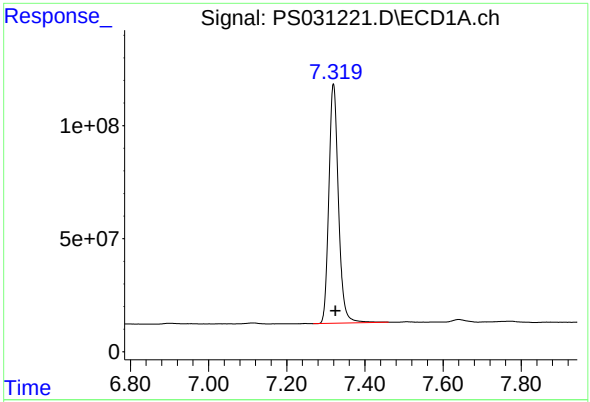
**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 24 16:03:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



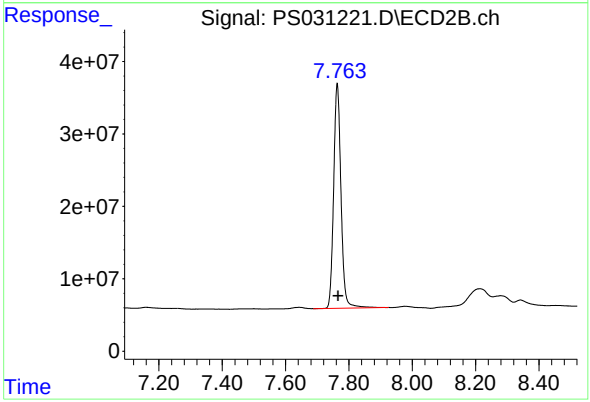






#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 1803232075
Conc: 414.70 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK




#4 2,4-DCAA

R.T.: 7.763 min
Delta R.T.: -0.003 min
Response: 499662872
Conc: 492.29 ng/ml

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/24/25 |
| Project: | RFP 905A | Date Received: | 07/24/25 |
| Client Sample ID: | PIBLK-PS031232.D | SDG No.: | Q2641 |
| Lab Sample ID: | I.BLK-PS031232.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031232.D | 1 | | 07/24/25 | PS072425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 491 | | 61 - 136 | 98% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 17:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:07:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 1792.3E6 | 498.2E6 | 412.184 | 490.830 |
| | Target Compounds | | | | | | |

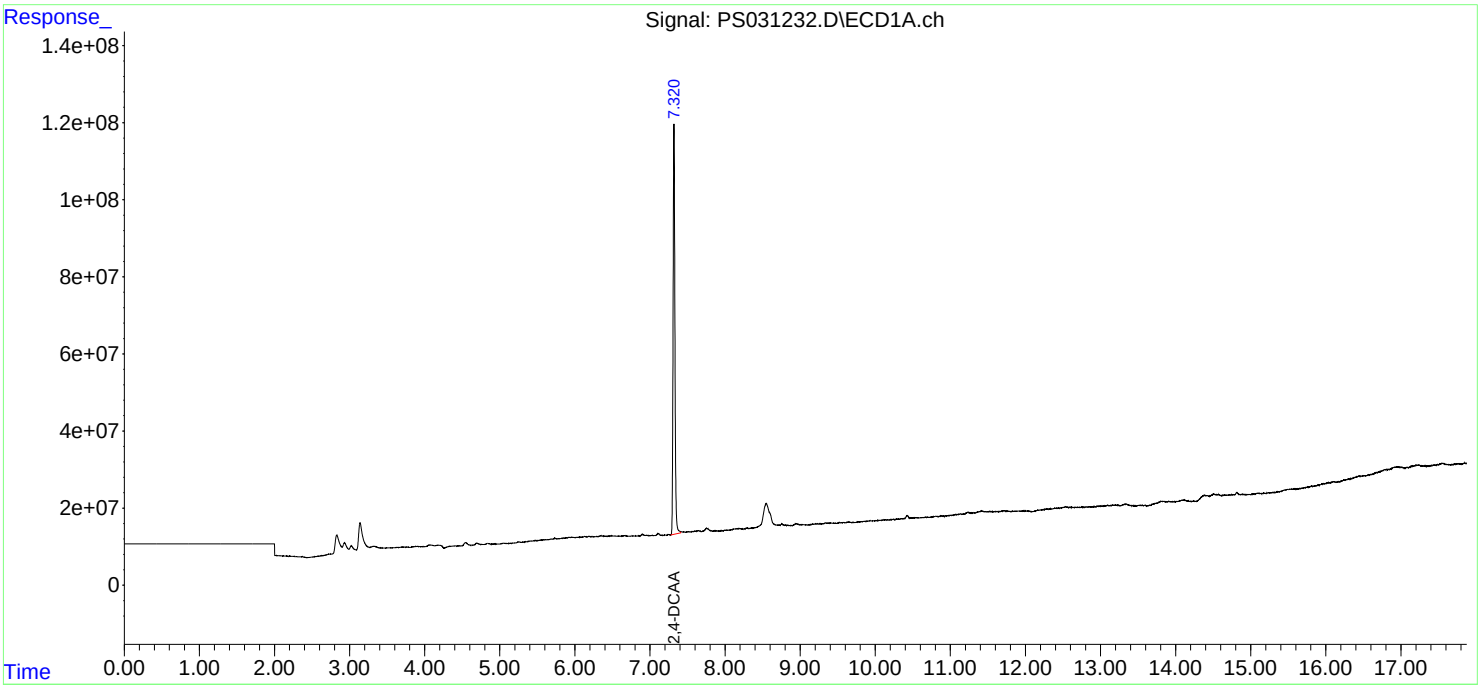
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

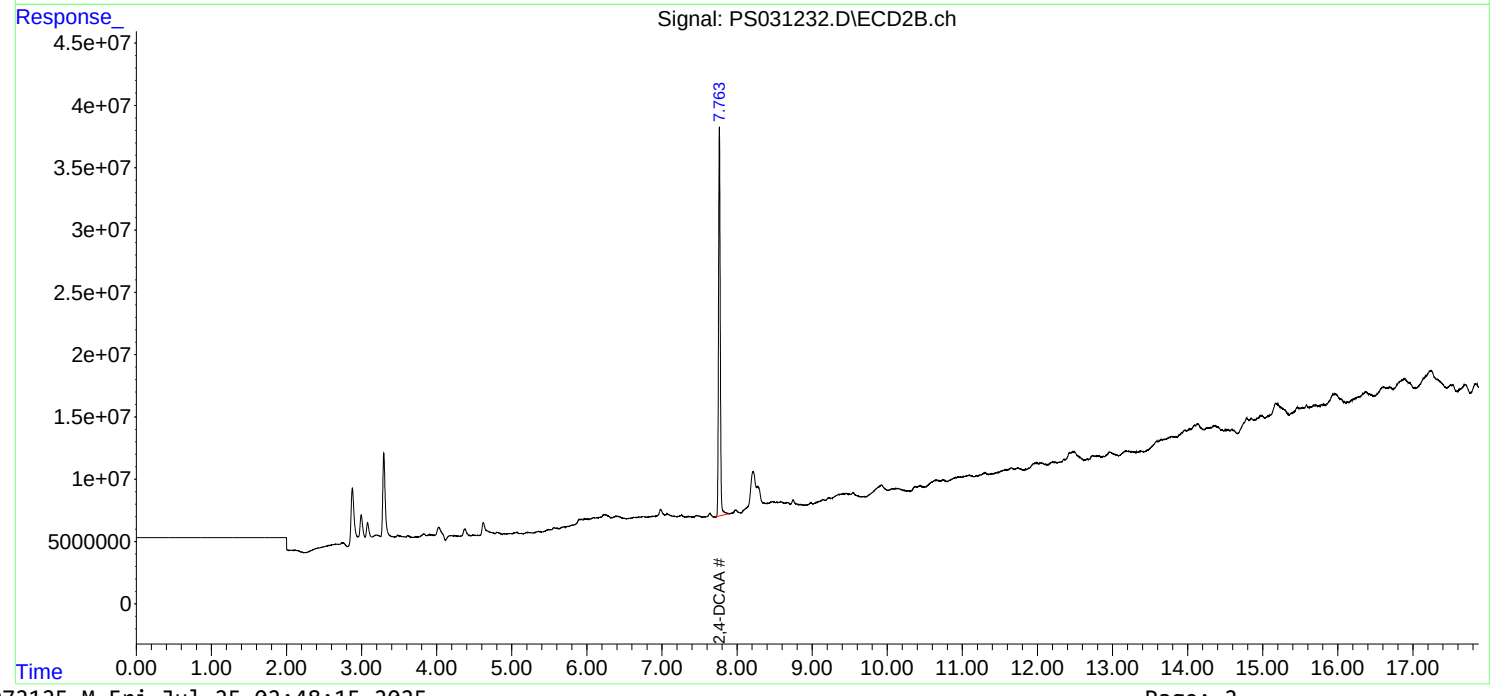
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 17:27
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

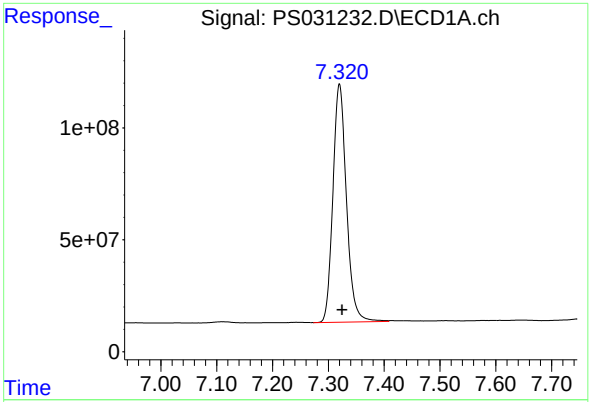
**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 02:07:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



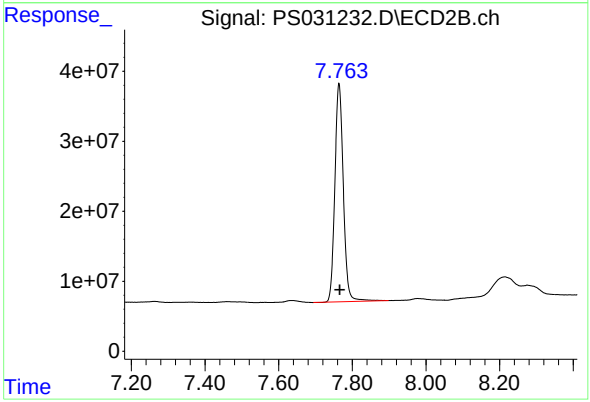






#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 1792280651
Conc: 412.18 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 498176470
Conc: 490.83 ng/ml

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/24/25 |
| Project: | RFP 905A | Date Received: | 07/24/25 |
| Client Sample ID: | PIBLK-PS031242.D | SDG No.: | Q2641 |
| Lab Sample ID: | I.BLK-PS031242.D | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031242.D | 1 | | 07/24/25 | PS072425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 498 | | 61 - 136 | 100% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031242.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 22:17
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:46:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 1834.3E6 | 505.9E6 | 421.850 | 498.392 |
| | Target Compounds | | | | | | |

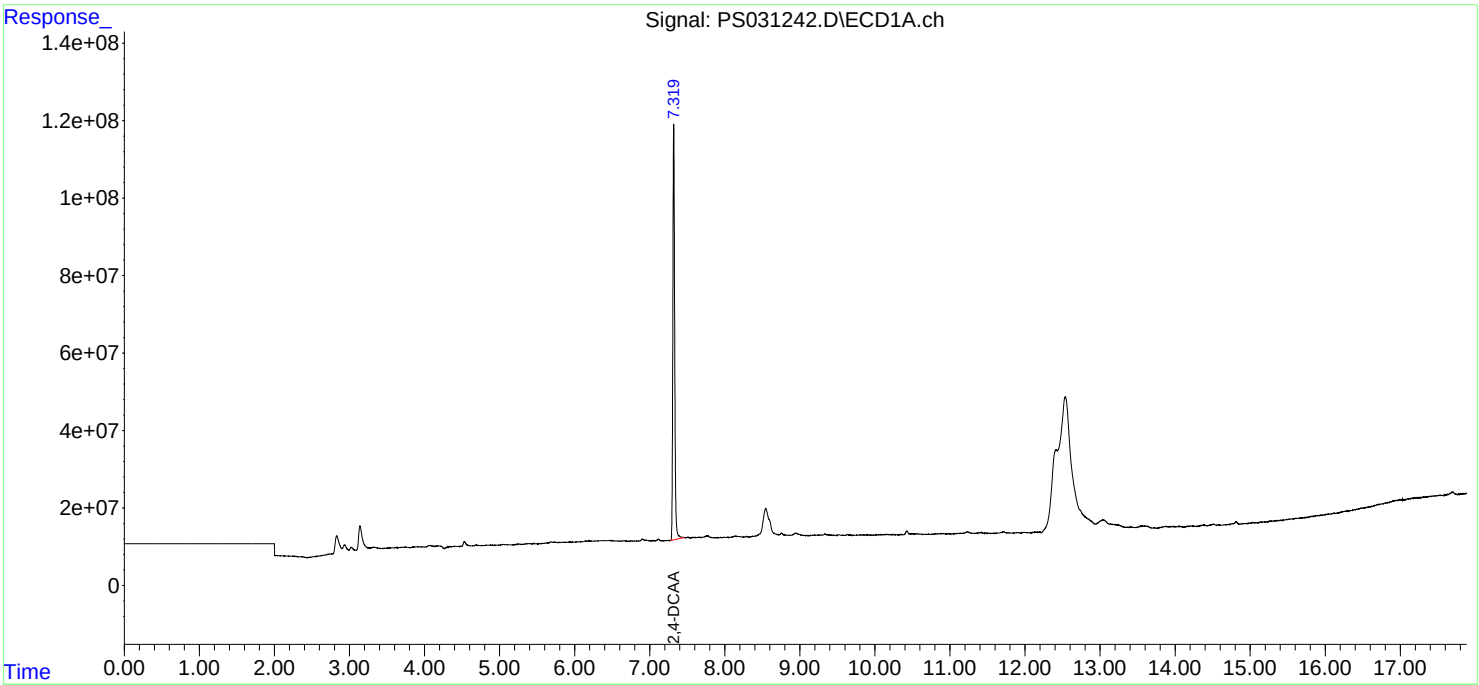
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

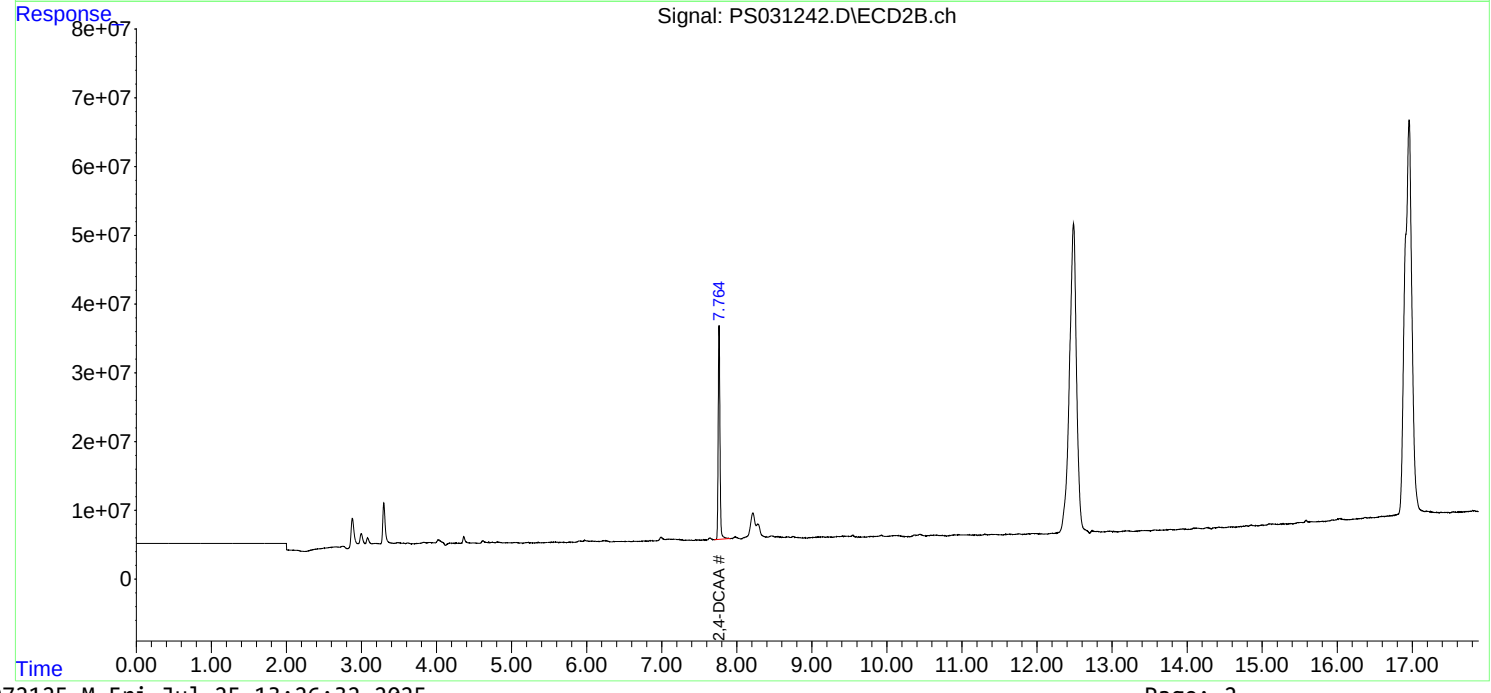
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031242.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 22:17
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

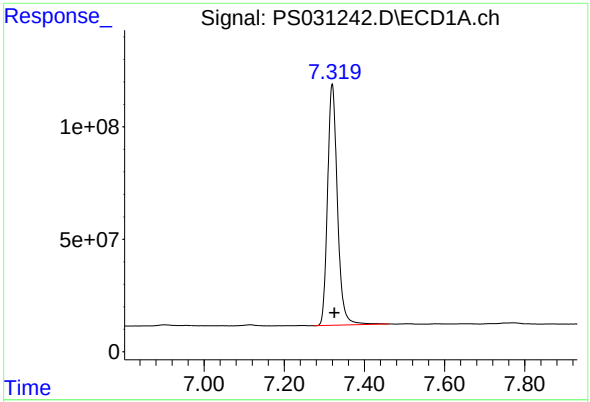
**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:46:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



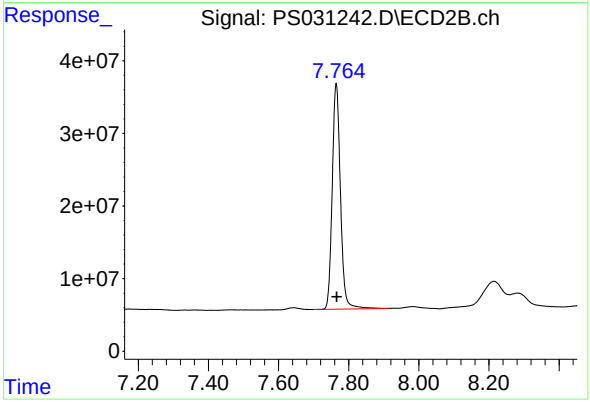






#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 1834308835
Conc: 421.85 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
I.BLK




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 505852351
Conc: 498.39 ng/ml

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | |
| Project: | RFP 905A | Date Received: | |
| Client Sample ID: | PB169001BS | SDG No.: | Q2641 |
| Lab Sample ID: | PB169001BS | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031237.D | 1 | 07/23/25 11:45 | 07/24/25 20:16 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 6.00 | | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 5.60 | | 0.78 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 501 | | 61 - 136 | 100% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 20:16
Operator : AR\AJ
Sample : PB169001BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:44:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 2121.5E6 | 508.8E6 | 487.902 | 501.299 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.686 | 2.704 | 1300.3E6 | 2886.7E6 | 207.289m | 1017.600m# |
| 2) T | 3,5-DICHL... | 6.484 | 6.711 | 2802.4E6 | 743.0E6 | 507.436 | 482.528 |
| 3) T | 4-Nitroph... | 7.120 | 7.297 | 804.0E6 | 751.3E6 | 487.603 | 415.214 |
| 5) T | DICAMBA | 7.508 | 7.966 | 7809.3E6 | 3109.6E6 | 473.377 | 481.854 |
| 6) T | MCPP | 7.689 | 8.065 | 456.0E6 | 90752125 | 45.551 | 43.677 |
| 7) T | MCPA | 7.839 | 8.312 | 601.5E6 | 134.5E6 | 48.069 | 42.627 |
| 8) T | DICHLORPROP | 8.219 | 8.685 | 1990.0E6 | 727.3E6 | 520.683 | 480.100 |
| 9) T | 2,4-D | 8.451 | 9.021 | 2223.0E6 | 926.8E6 | 595.191 | 545.708m |
| 10) T | Pentachlo... | 8.757 | 9.545 | 32147.0E6 | 20997.3E6 | 588.540 | 537.273 |
| 11) T | 2,4,5-TP ... | 9.335 | 9.926 | 12279.8E6 | 7936.6E6 | 559.353 | 532.865 |
| 12) T | 2,4,5-T | 9.628 | 10.353 | 10468.9E6 | 7013.5E6 | 536.103 | 493.233 |
| 13) T | 2,4-DB | 10.206 | 10.920 | 1568.7E6 | 579.1E6 | 524.686 | 494.707m |
| 14) T | DINOSEB | 11.418 | 11.305 | 6756.6E6 | 4565.9E6 | 433.963m | 403.990 |
| 15) T | Picloram | 11.229 | 12.415 | 9502.8E6 | 9927.6E6 | 474.983m | 398.777 |
| 16) T | DCPA | 11.713 | 12.348 | 11529.1E6 | 11386.4E6 | 401.804 | 494.287 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 20:16
Operator : AR\AJ
Sample : PB169001BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

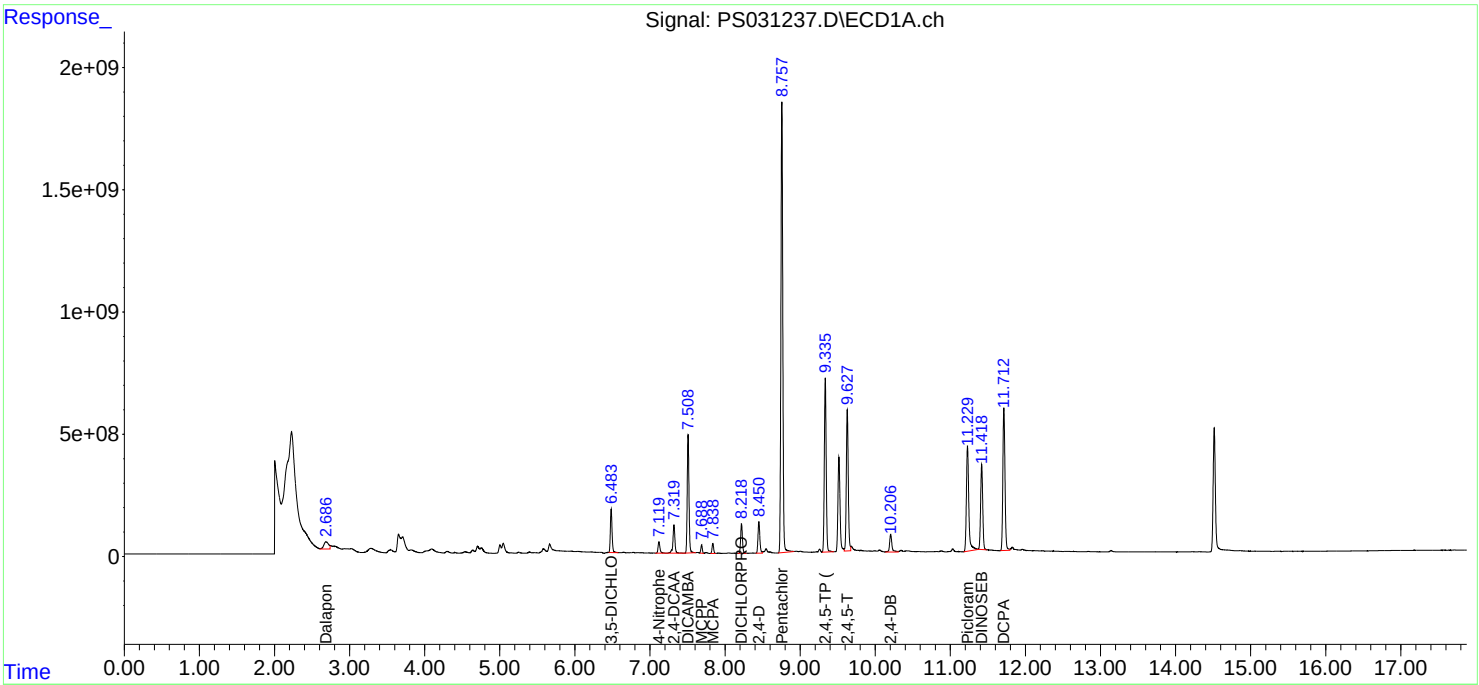
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:44:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

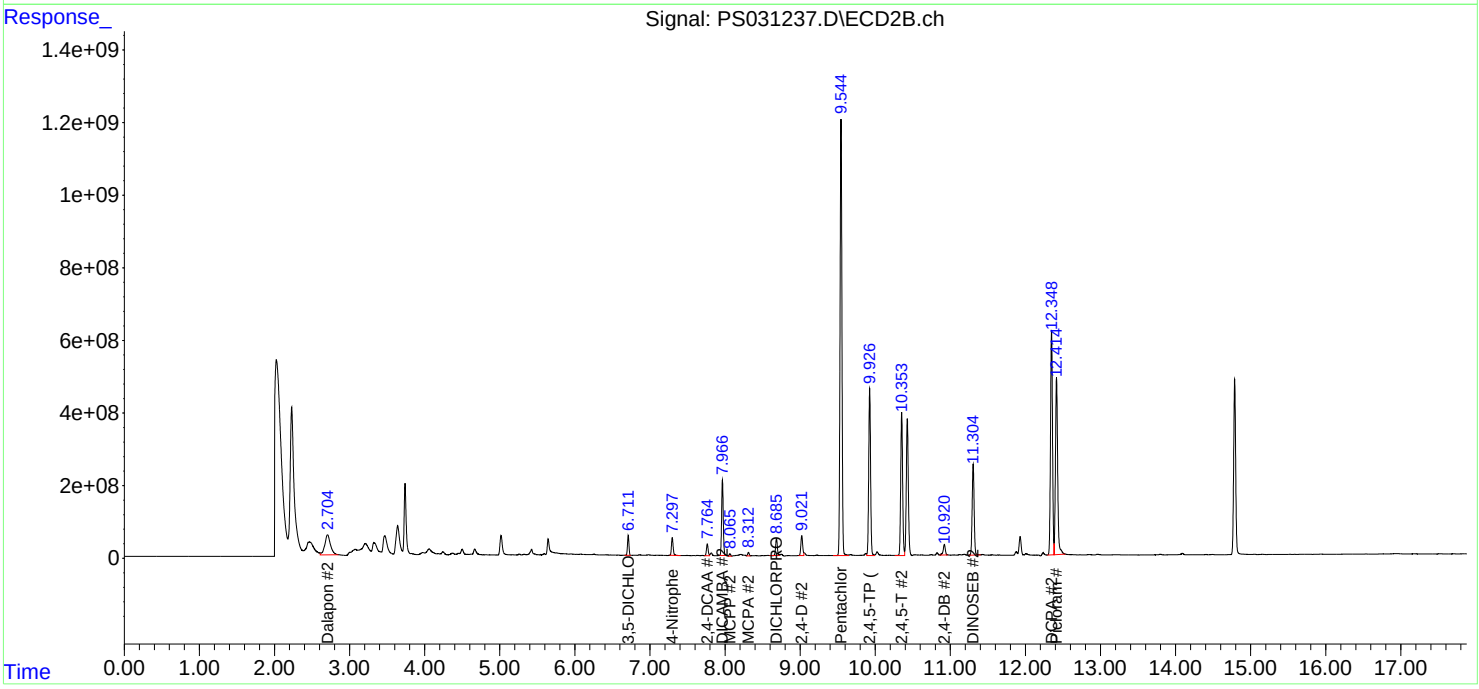
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

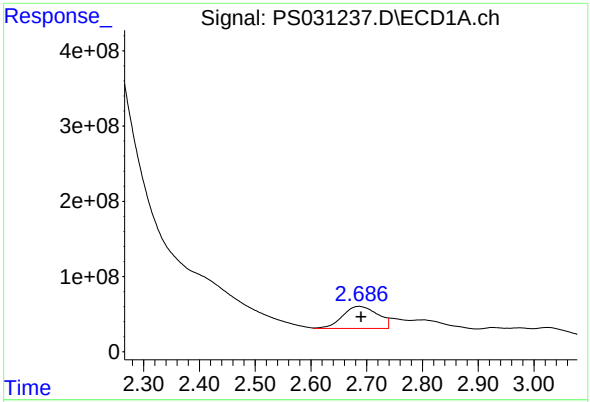
**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025





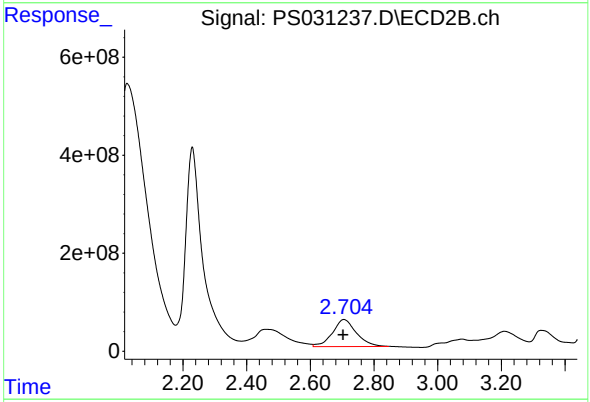

#1 Dalapon

R.T.: 2.686 min
Delta R.T.: -0.004 min
Response: 1300303286
Conc: 207.29 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

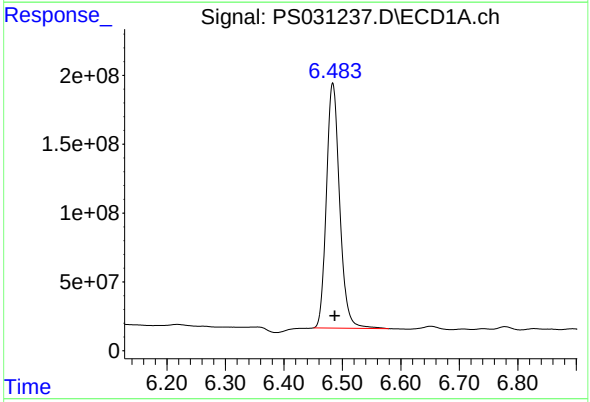
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



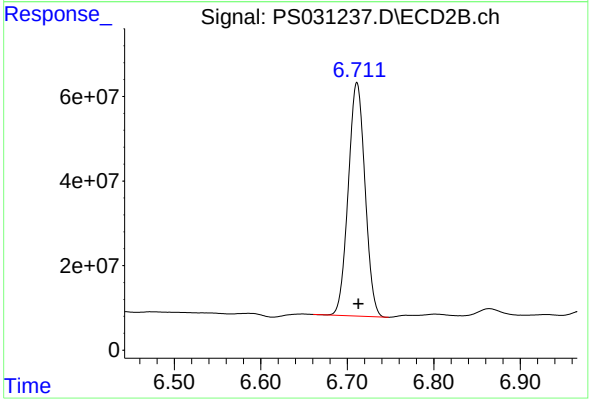

#1 Dalapon

R.T.: 2.704 min
Delta R.T.: 0.000 min
Response: 2886667245
Conc: 1017.60 ng/ml m



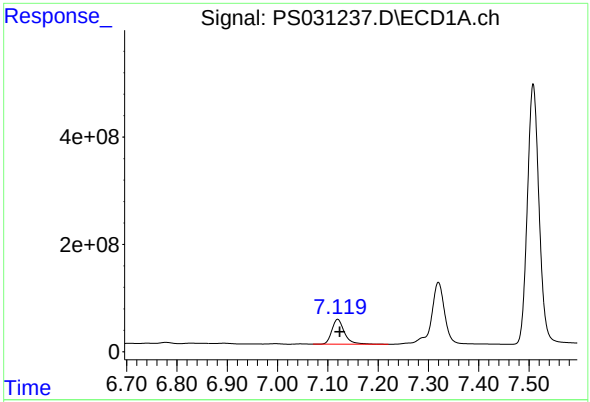

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.484 min
Delta R.T.: -0.003 min
Response: 2802444308
Conc: 507.44 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.711 min
Delta R.T.: -0.002 min
Response: 743041442
Conc: 482.53 ng/ml



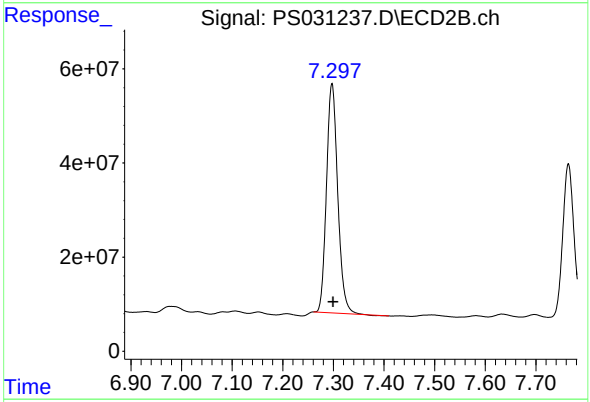

#3 4-Nitrophenol

R.T.: 7.120 min
Delta R.T.: -0.004 min
Response: 803952465
Conc: 487.60 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

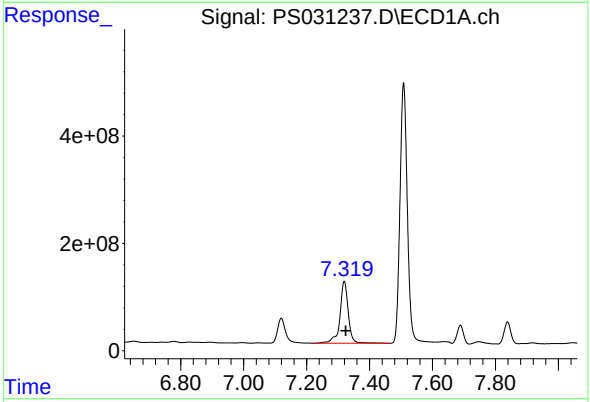
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



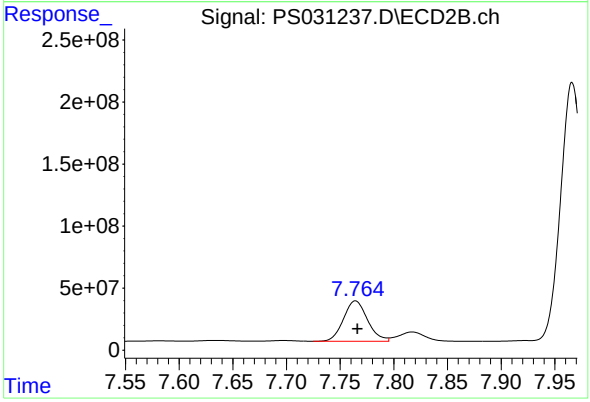

#3 4-Nitrophenol

R.T.: 7.297 min
Delta R.T.: -0.002 min
Response: 751254044
Conc: 415.21 ng/ml



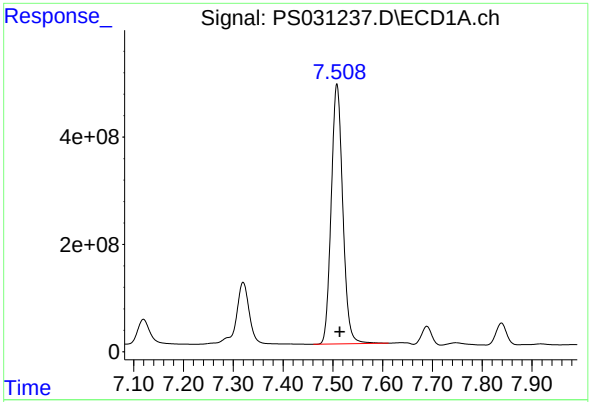

#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 2121523156
Conc: 487.90 ng/ml




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 508802939
Conc: 501.30 ng/ml



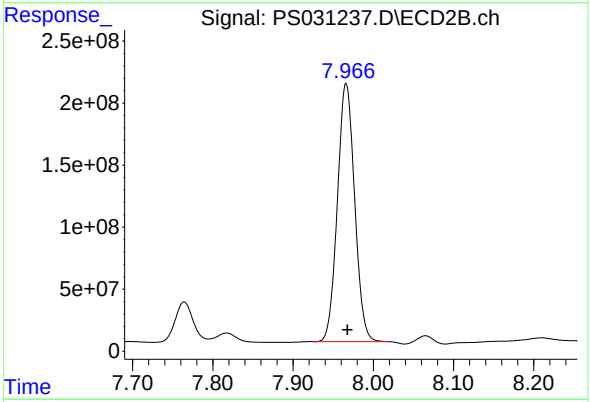

#5 DICAMBA

R.T.: 7.508 min
Delta R.T.: -0.006 min
Response: 7809288099
Conc: 473.38 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

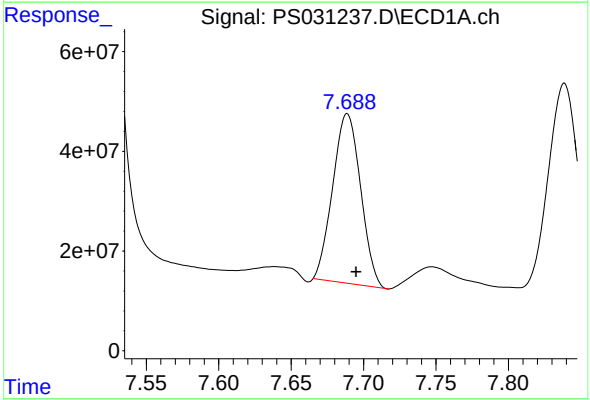
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



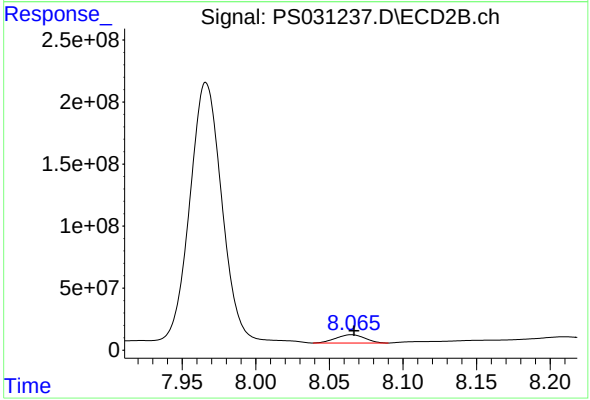

#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: -0.002 min
Response: 3109581210
Conc: 481.85 ng/ml



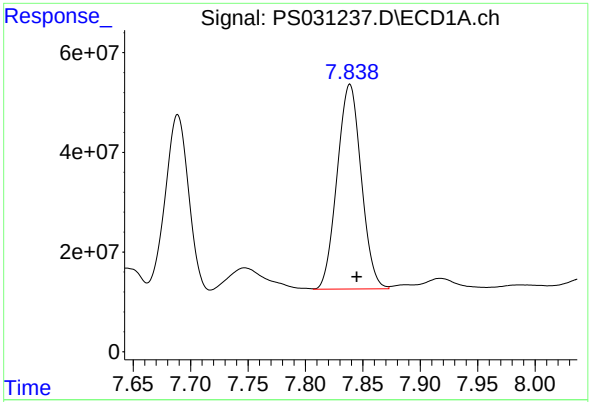

#6 MCPP

R.T.: 7.689 min
Delta R.T.: -0.006 min
Response: 455963569
Conc: 45.55 ug/ml




#6 MCPP

R.T.: 8.065 min
Delta R.T.: -0.002 min
Response: 90752125
Conc: 43.68 ug/ml



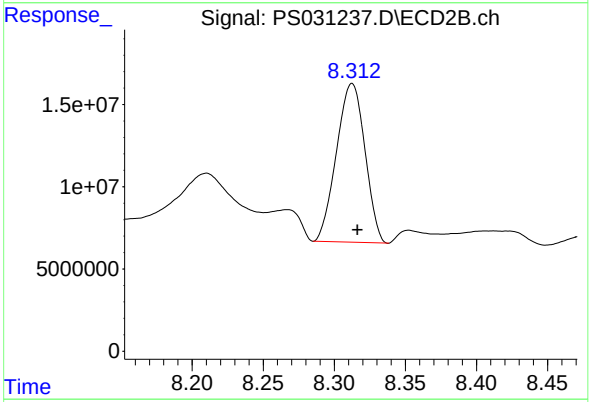

#7 MCPA

R.T.: 7.839 min
Delta R.T.: -0.006 min
Response: 601545214
Conc: 48.07 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

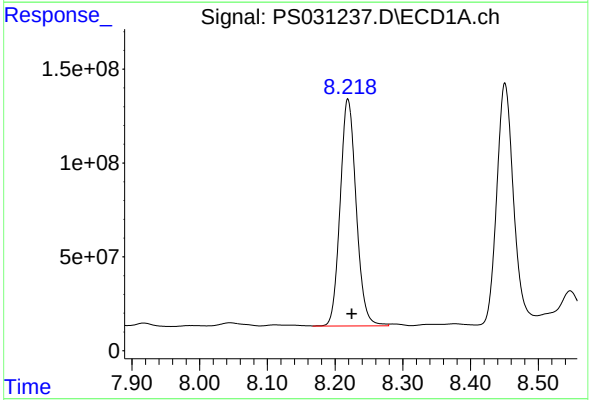
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



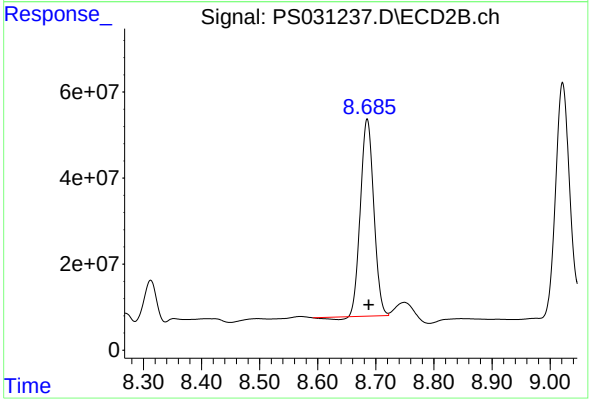

#7 MCPA

R.T.: 8.312 min
Delta R.T.: -0.004 min
Response: 134495863
Conc: 42.63 ug/ml



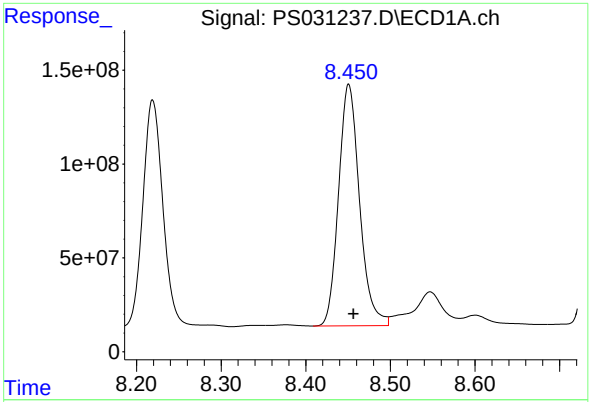

#8 DICHLORPROP

R.T.: 8.219 min
Delta R.T.: -0.005 min
Response: 1990025430
Conc: 520.68 ng/ml




#8 DICHLORPROP

R.T.: 8.685 min
Delta R.T.: -0.002 min
Response: 727283920
Conc: 480.10 ng/ml



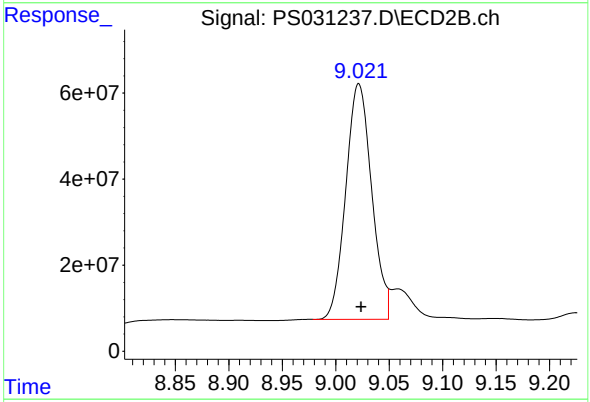

#9 2,4-D

R.T.: 8.451 min
Delta R.T.: -0.006 min
Response: 2222988684
Conc: 595.19 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

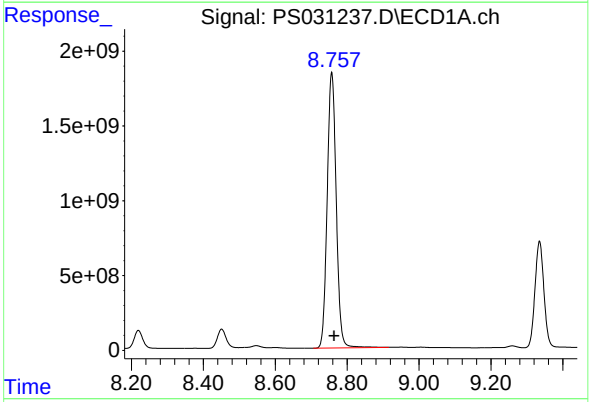
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



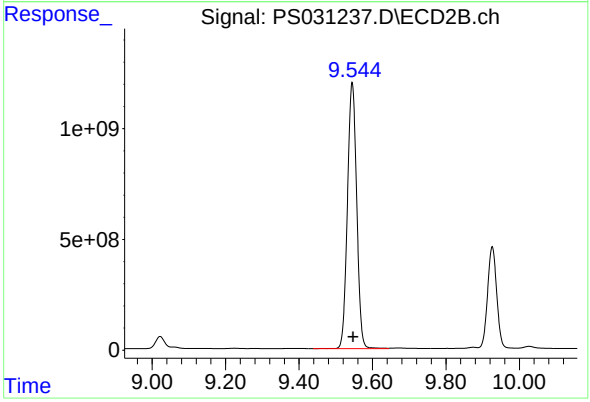

#9 2,4-D

R.T.: 9.021 min
Delta R.T.: -0.003 min
Response: 926787033
Conc: 545.71 ng/ml m



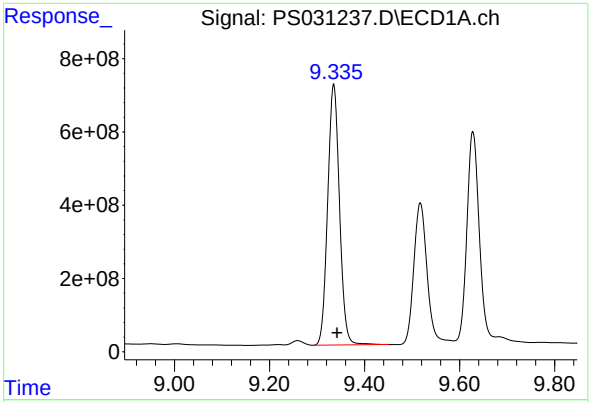

#10 Pentachlorophenol

R.T.: 8.757 min
Delta R.T.: -0.007 min
Response: 32146957323
Conc: 588.54 ng/ml




#10 Pentachlorophenol

R.T.: 9.545 min
Delta R.T.: -0.002 min
Response: 20997265798
Conc: 537.27 ng/ml



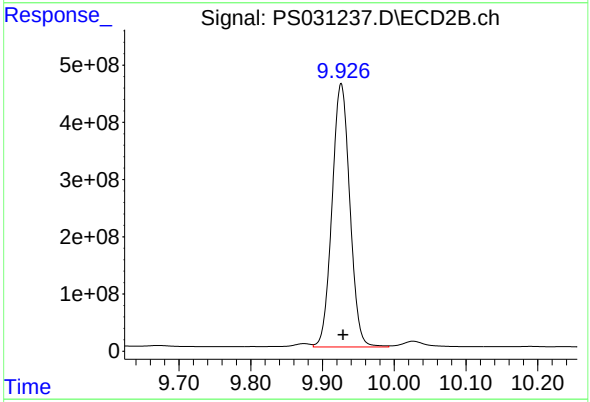

#11 2,4,5-TP (SILVEX)

R.T.: 9.335 min
Delta R.T.: -0.007 min
Response: 12279800677
Conc: 559.35 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

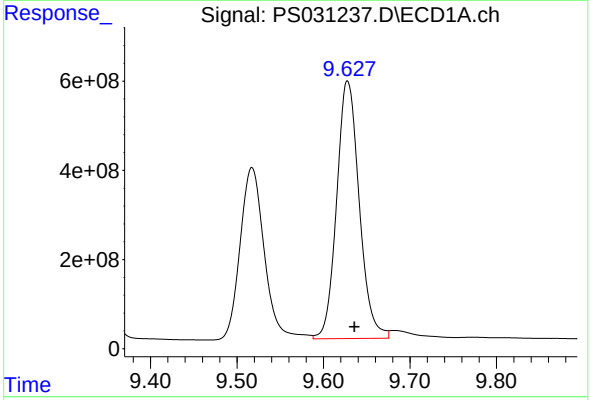
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



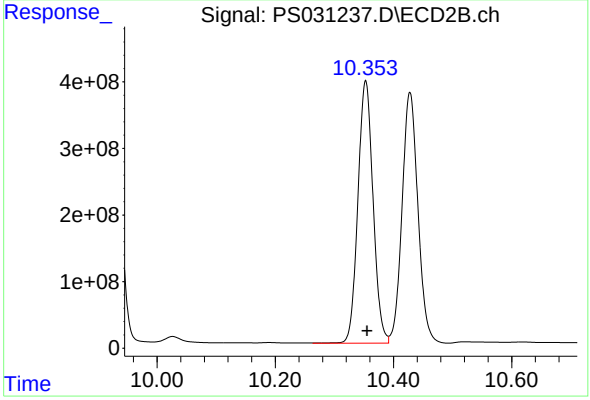

#11 2,4,5-TP (SILVEX)

R.T.: 9.926 min
Delta R.T.: -0.003 min
Response: 7936581553
Conc: 532.86 ng/ml



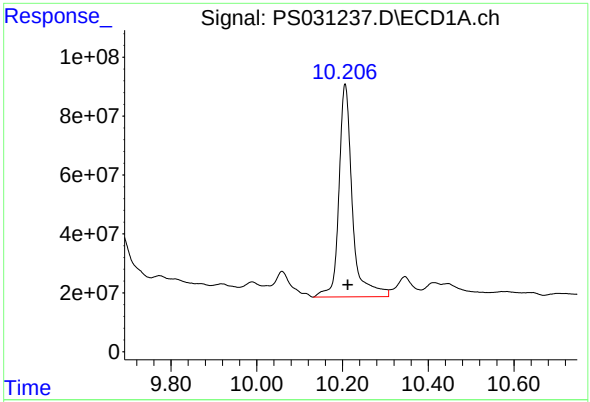

#12 2,4,5-T

R.T.: 9.628 min
Delta R.T.: -0.008 min
Response: 10468914403
Conc: 536.10 ng/ml




#12 2,4,5-T

R.T.: 10.353 min
Delta R.T.: -0.003 min
Response: 7013501928
Conc: 493.23 ng/ml



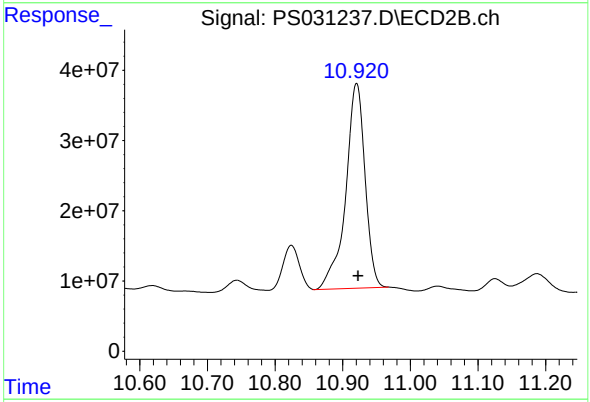

#13 2,4-DB

R.T.: 10.206 min
Delta R.T.: -0.006 min
Response: 1568749061
Conc: 524.69 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

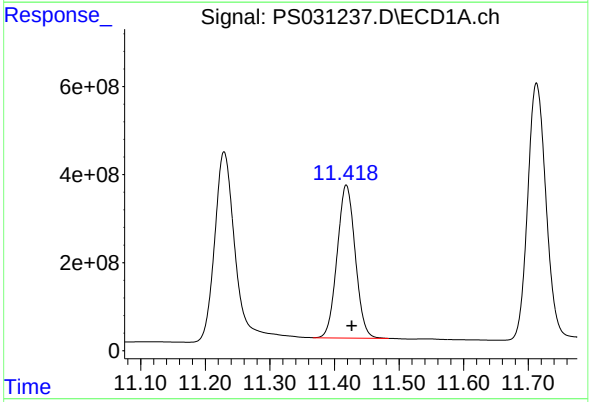
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



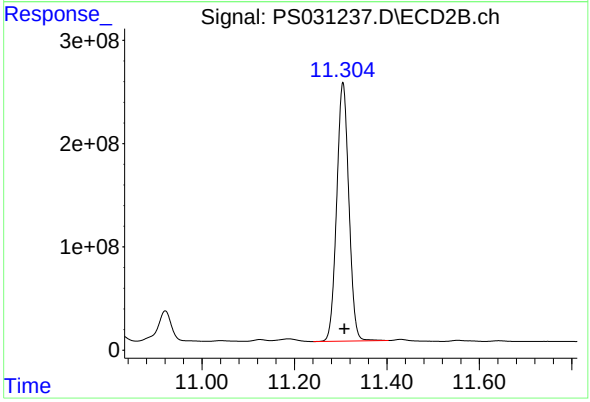

#13 2,4-DB

R.T.: 10.920 min
Delta R.T.: -0.003 min
Response: 579059841
Conc: 494.71 ng/ml m



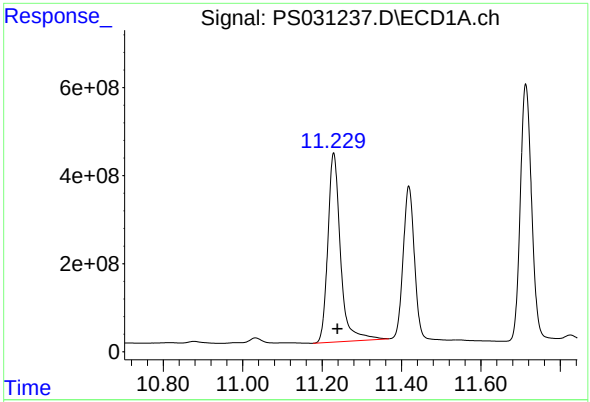

#14 DINOSEB

R.T.: 11.418 min
Delta R.T.: -0.009 min
Response: 6756587961
Conc: 433.96 ng/ml m




#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.003 min
Response: 4565923814
Conc: 403.99 ng/ml



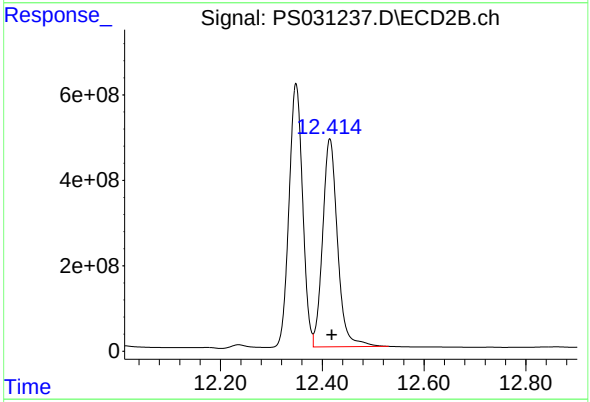

#15 Picloram

R.T.: 11.229 min
Delta R.T.: -0.010 min
Response: 9502781108
Conc: 474.98 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
PB169001BS

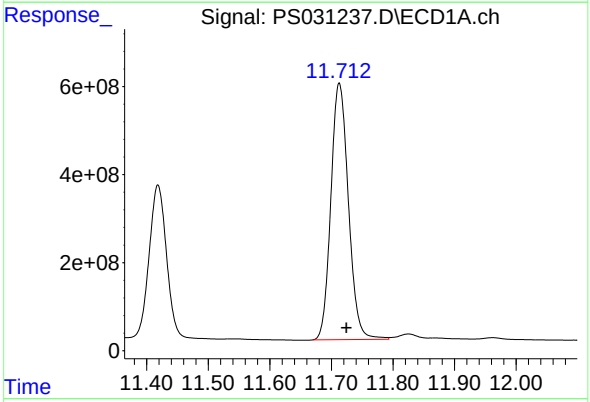
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



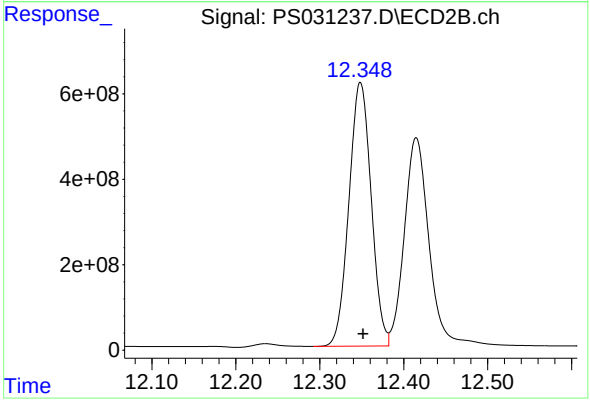

#15 Picloram

R.T.: 12.415 min
Delta R.T.: -0.004 min
Response: 9927565925
Conc: 398.78 ng/ml




#16 DCPA

R.T.: 11.713 min
Delta R.T.: -0.012 min
Response: 11529143776
Conc: 401.80 ng/ml




#16 DCPA

R.T.: 12.348 min
Delta R.T.: -0.003 min
Response: 11386408332
Conc: 494.29 ng/ml

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/16/25 |
| Project: | RFP 905A | Date Received: | 07/18/25 |
| Client Sample ID: | P001-CONCRETE001-01MS | SDG No.: | Q2641 |
| Lab Sample ID: | Q2641-02MS | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031234.D | 1 | 07/23/25 11:45 | 07/24/25 19:04 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 86.2 | | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 77.7 | | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 499 | | 61 - 136 | 100% | SPK: 500 |

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:04
Operator : AR\AJ
Sample : Q2641-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:43:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.320 | 7.764 | 1963.7E6 | 506.9E6 | 451.601 | 499.405 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.688 | 2.703 | 1333.9E6 | 1571.4E6 | 212.638m | 553.950m# |
| 2) T | 3,5-DICHL... | 6.483 | 6.712 | 3774.5E6 | 1077.7E6 | 683.453 | 699.882 |
| 3) T | 4-Nitroph... | 7.119 | 7.297 | 1187.3E6 | 1170.2E6 | 720.128 | 646.764 |
| 5) T | DICAMBA | 7.509 | 7.967 | 11641.9E6 | 4766.2E6 | 705.698 | 738.553 |
| 6) T | MCPP | 7.690 | 8.066 | 527.1E6 | 103.8E6 | 52.654 | 49.950 |
| 7) T | MCPA | 7.839 | 8.302 | 801.2E6 | 948.9E6 | 64.026 | 300.750m# |
| 8) T | DICHLORPROP | 8.220 | 8.685 | 2710.9E6 | 1057.3E6 | 709.287 | 697.963 |
| 9) T | 2,4-D | 8.451 | 9.022 | 2999.1E6 | 1463.7E6 | 802.981 | 861.865 |
| 10) T | Pentachlo... | 8.757 | 9.545 | 43108.9E6 | 29856.6E6 | 789.228 | 763.964 |
| 11) T | 2,4,5-TP ... | 9.336 | 9.926 | 17061.4E6 | 11429.8E6 | 777.160 | 767.401m |
| 12) T | 2,4,5-T | 9.629 | 10.353 | 15007.0E6 | 10621.2E6 | 768.497 | 746.949 |
| 13) T | 2,4-DB | 10.206 | 10.918 | 2291.1E6 | 1301.9E6 | 766.275 | 1112.263m# |
| 14) T | DINOSEB | 11.418 | 11.305 | 10564.4E6 | 7270.1E6 | 678.534m | 643.254 |
| 15) T | Picloram | 11.229 | 12.414 | 17696.5E6 | 19451.7E6 | 884.535m | 781.349 |
| 16) T | DCPA | 11.714 | 12.349 | 18645.8E6 | 17877.9E6 | 649.827 | 776.086m |

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

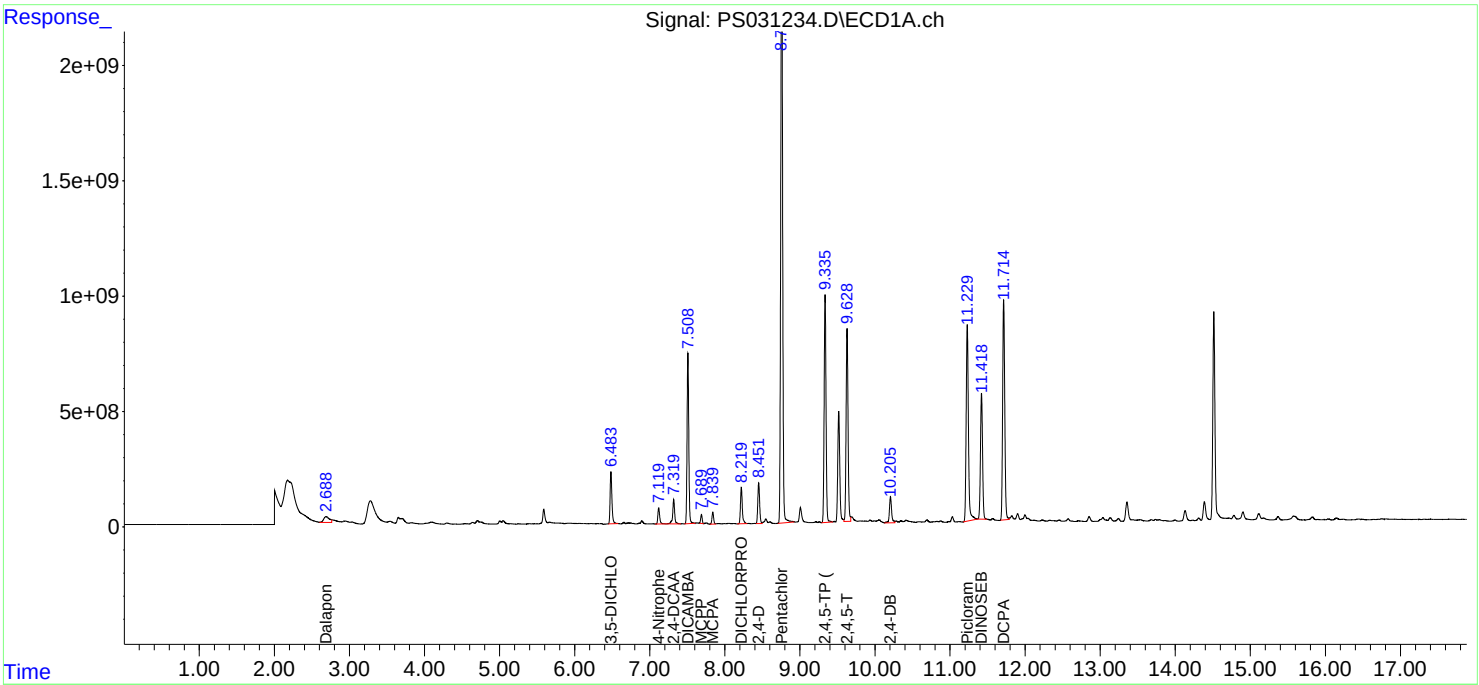
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:04
Operator : AR\AJ
Sample : Q2641-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

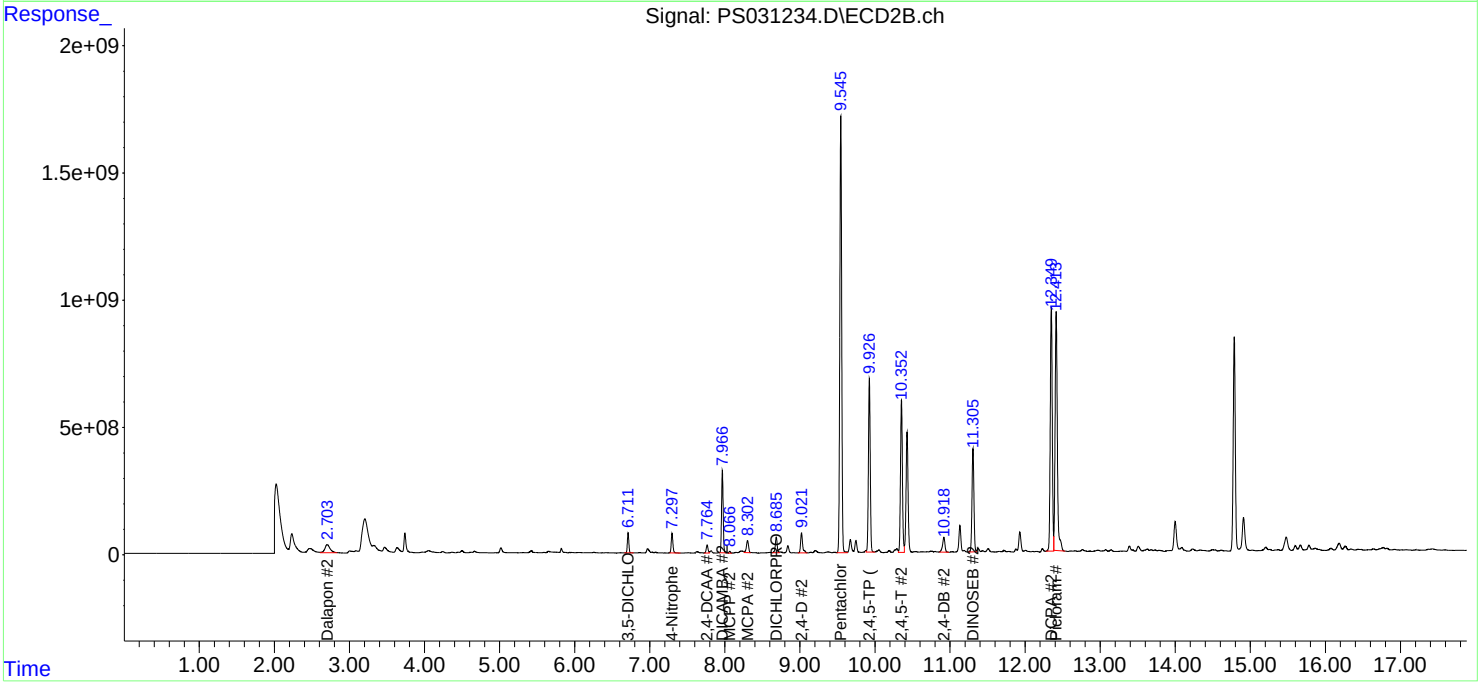
**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

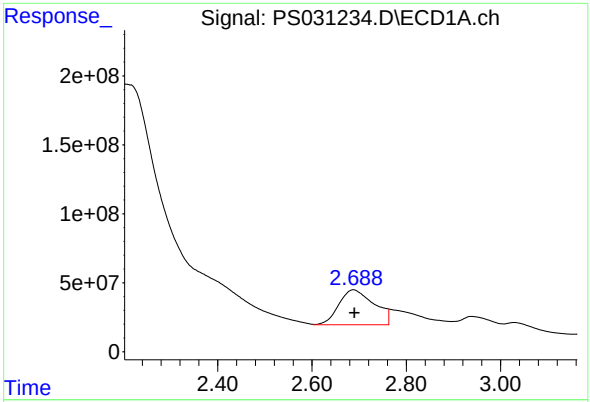
**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:43:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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





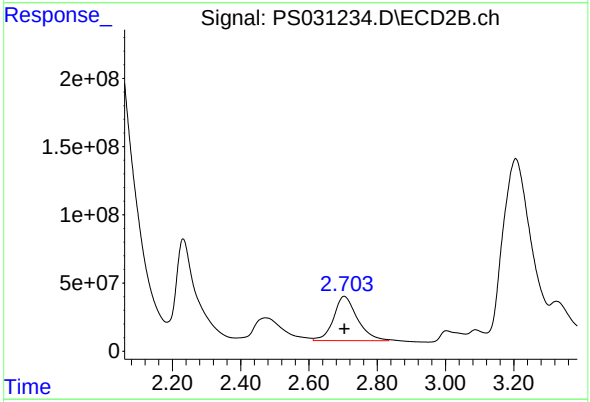

#1 Dalapon

R.T.: 2.688 min
Delta R.T.: -0.002 min
Response: 1333858475
Conc: 212.64 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

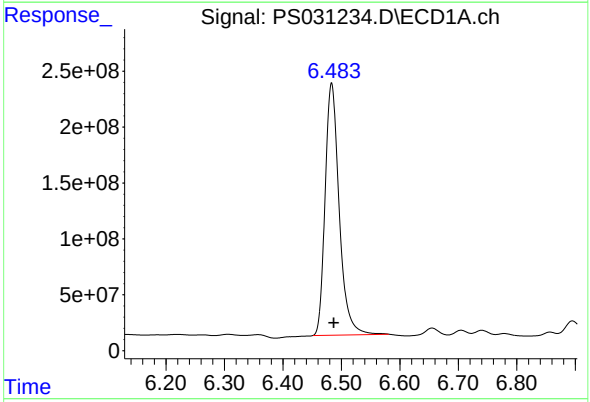
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



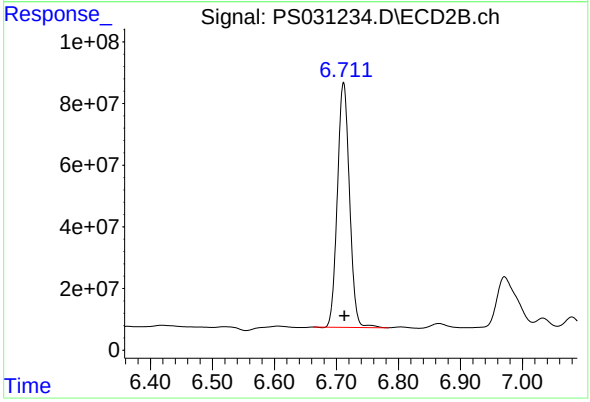

#1 Dalapon

R.T.: 2.703 min
Delta R.T.: 0.000 min
Response: 1571412425
Conc: 553.95 ng/ml m



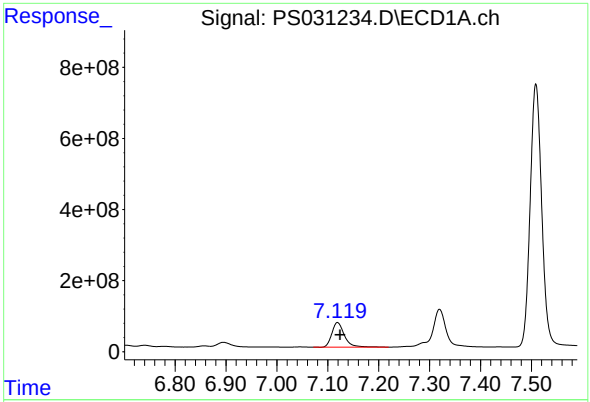

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.483 min
Delta R.T.: -0.004 min
Response: 3774539724
Conc: 683.45 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.712 min
Delta R.T.: -0.001 min
Response: 1077744340
Conc: 699.88 ng/ml



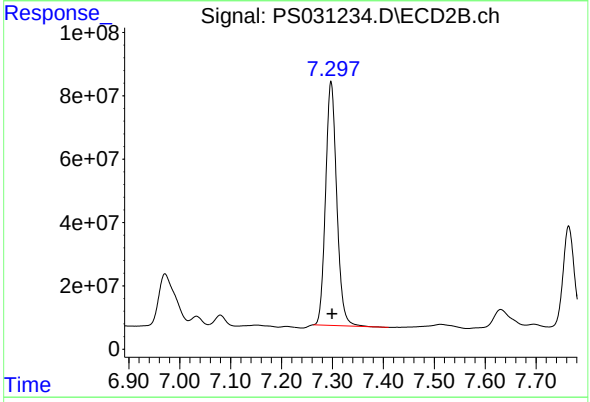

#3 4-Nitrophenol

R.T.: 7.119 min
Delta R.T.: -0.005 min
Response: 1187336484
Conc: 720.13 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

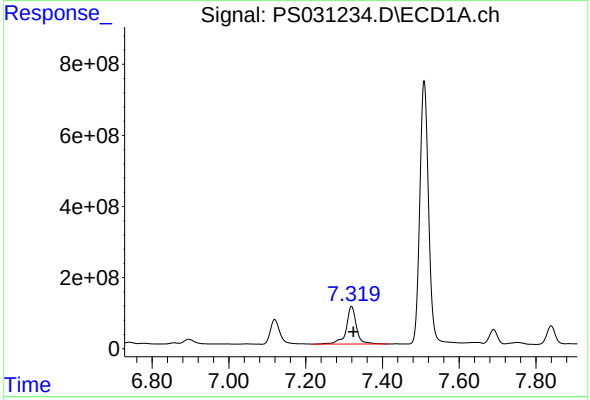
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



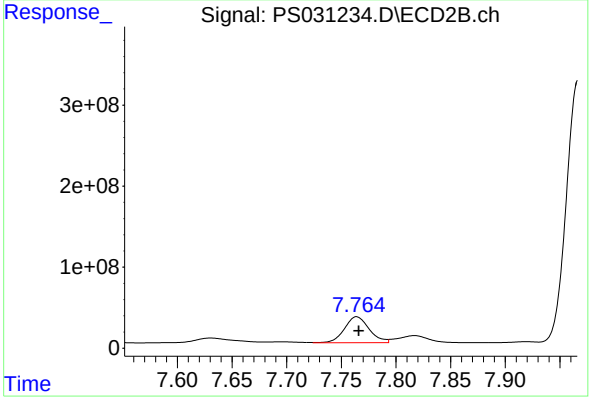

#3 4-Nitrophenol

R.T.: 7.297 min
Delta R.T.: -0.002 min
Response: 1170201134
Conc: 646.76 ng/ml



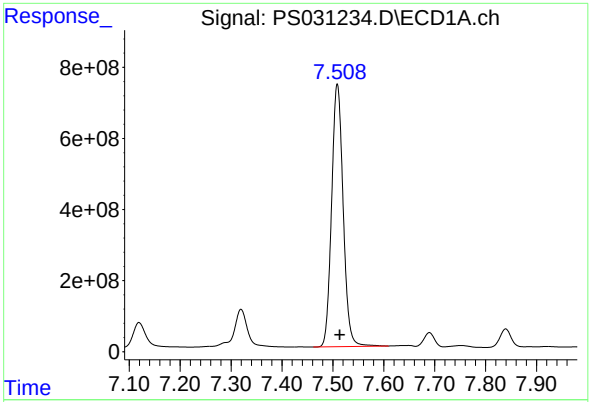

#4 2,4-DCAA

R.T.: 7.320 min
Delta R.T.: -0.005 min
Response: 1963674820
Conc: 451.60 ng/ml




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 506880630
Conc: 499.41 ng/ml



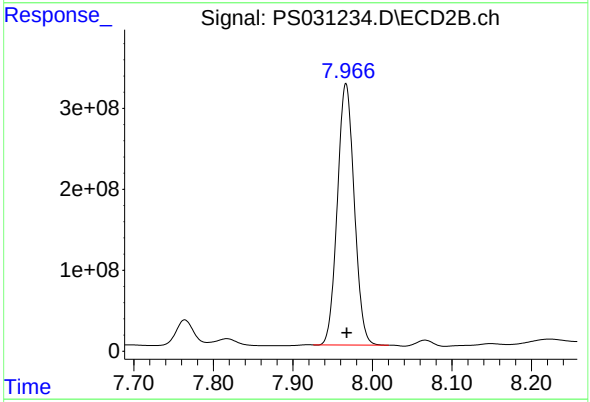

#5 DICAMBA

R.T.: 7.509 min
Delta R.T.: -0.005 min
Response: 11641882754
Conc: 705.70 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

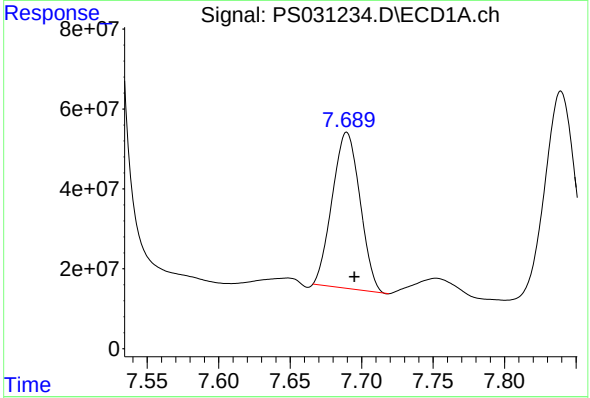
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



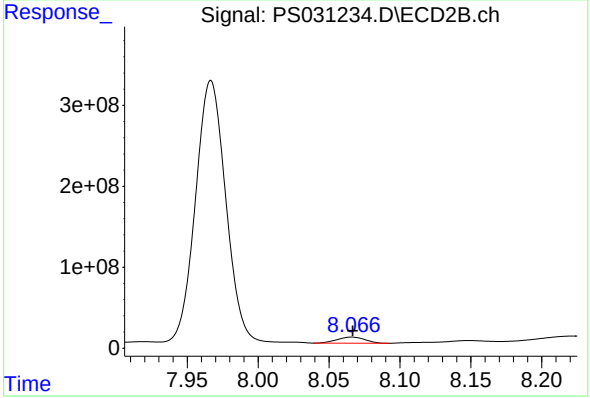

#5 DICAMBA

R.T.: 7.967 min
Delta R.T.: -0.001 min
Response: 4766154449
Conc: 738.55 ng/ml



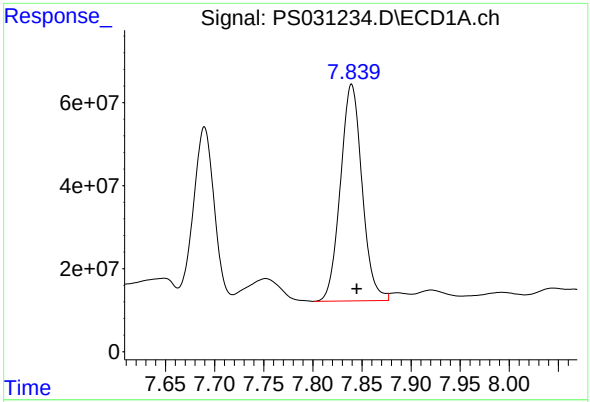

#6 MCPP

R.T.: 7.690 min
Delta R.T.: -0.005 min
Response: 527072125
Conc: 52.65 ug/ml




#6 MCPP

R.T.: 8.066 min
Delta R.T.: 0.000 min
Response: 103787451
Conc: 49.95 ug/ml



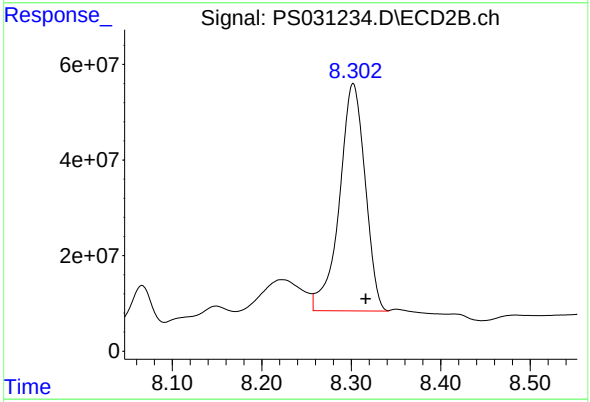

#7 MCPA

R.T.: 7.839 min
Delta R.T.: -0.005 min
Response: 801229884
Conc: 64.03 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

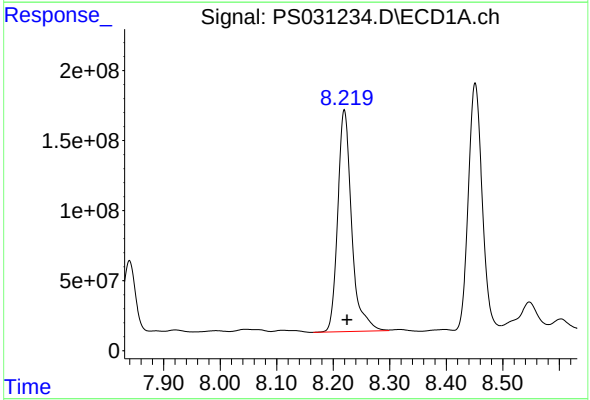
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



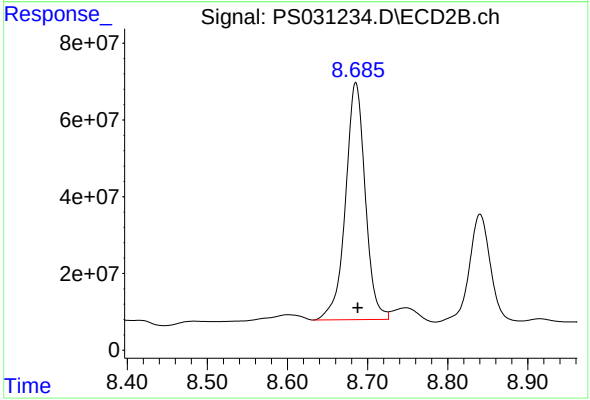

#7 MCPA

R.T.: 8.302 min
Delta R.T.: -0.014 min
Response: 948929928
Conc: 300.75 ug/ml m



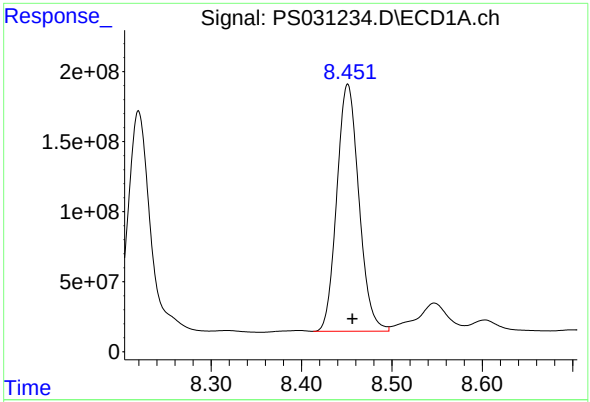

#8 DICHLORPROP

R.T.: 8.220 min
Delta R.T.: -0.005 min
Response: 2710862587
Conc: 709.29 ng/ml




#8 DICHLORPROP

R.T.: 8.685 min
Delta R.T.: -0.002 min
Response: 1057316903
Conc: 697.96 ng/ml



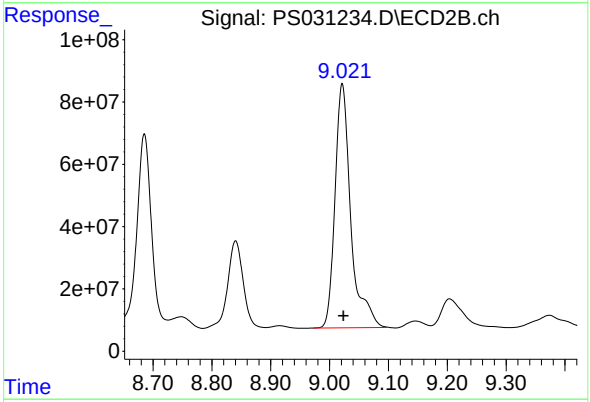

#9 2,4-D

R.T.: 8.451 min
Delta R.T.: -0.005 min
Response: 2999067571
Conc: 802.98 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

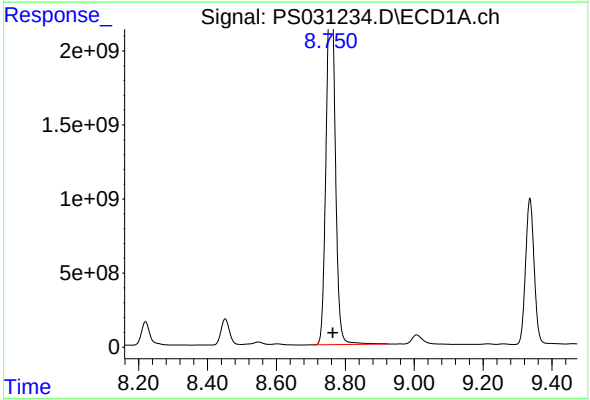
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



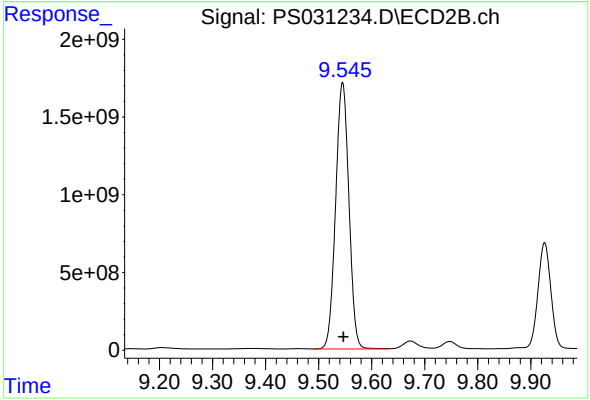

#9 2,4-D

R.T.: 9.022 min
Delta R.T.: -0.002 min
Response: 1463722333
Conc: 861.87 ng/ml



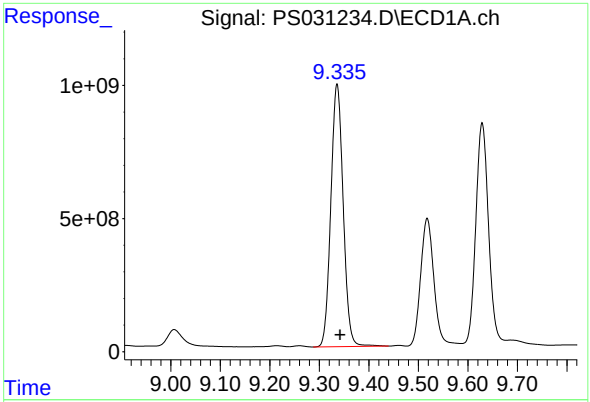

#10 Pentachlorophenol

R.T.: 8.757 min
Delta R.T.: -0.007 min
Response: 43108866964
Conc: 789.23 ng/ml




#10 Pentachlorophenol

R.T.: 9.545 min
Delta R.T.: -0.002 min
Response: 29856613069
Conc: 763.96 ng/ml



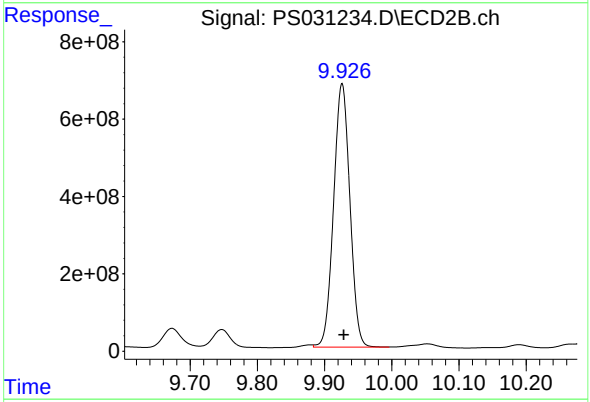

#11 2,4,5-TP (SILVEX)

R.T.: 9.336 min
Delta R.T.: -0.006 min
Response: 17061435494
Conc: 777.16 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

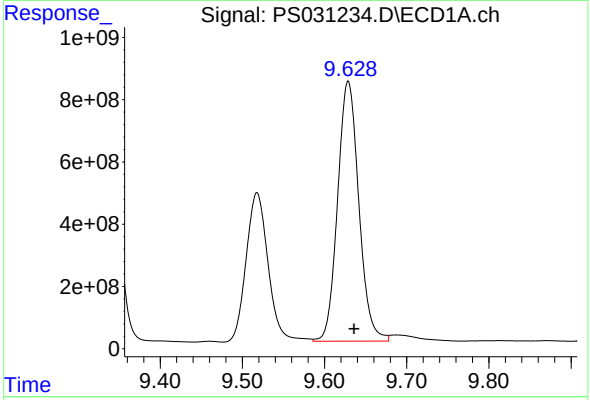
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



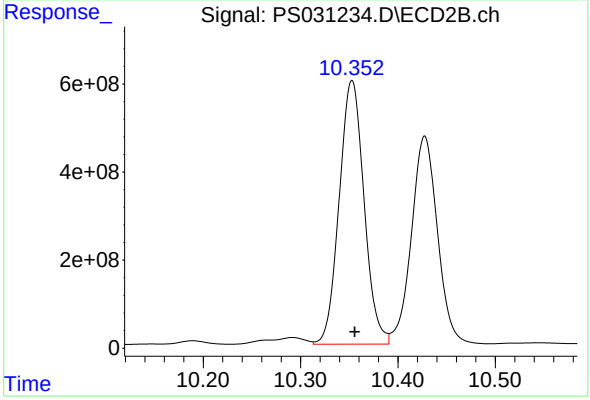

#11 2,4,5-TP (SILVEX)

R.T.: 9.926 min
Delta R.T.: -0.003 min
Response: 11429816040
Conc: 767.40 ng/ml m



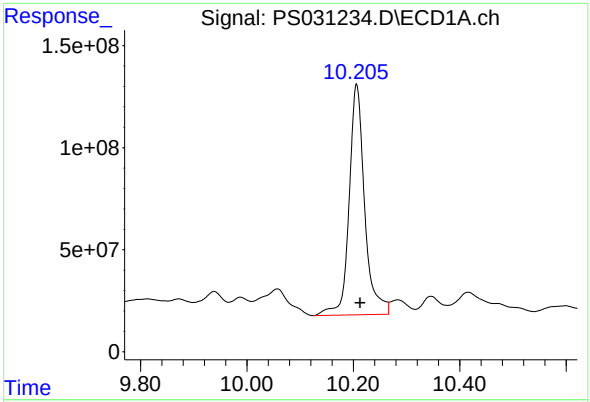

#12 2,4,5-T

R.T.: 9.629 min
Delta R.T.: -0.007 min
Response: 15007049651
Conc: 768.50 ng/ml




#12 2,4,5-T

R.T.: 10.353 min
Delta R.T.: -0.003 min
Response: 10621216820
Conc: 746.95 ng/ml




#13 2,4-DB

R.T.: 10.206 min
Delta R.T.: -0.006 min
Response: 2291073353
Conc: 766.28 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

**Manual Integrations APPROVED**

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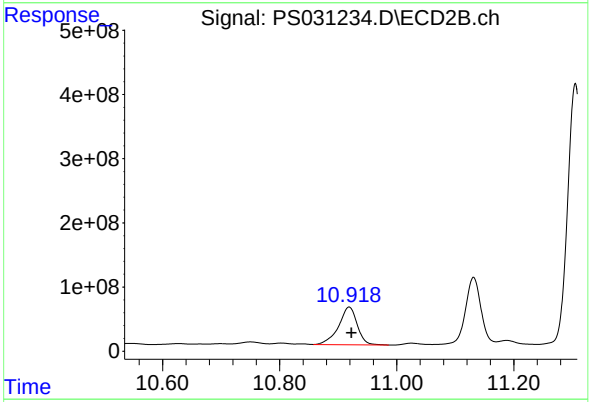
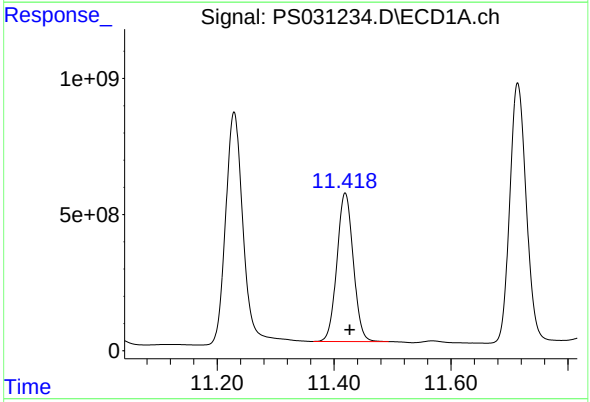


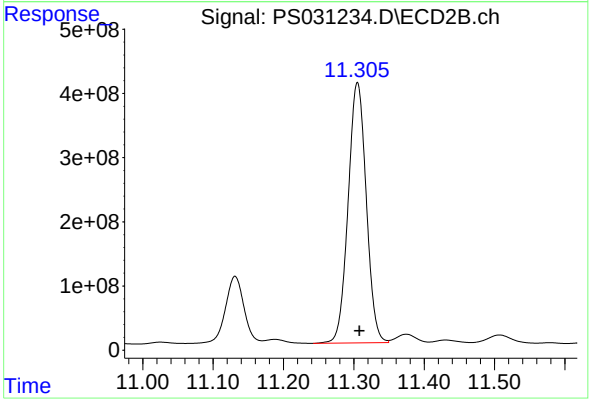

#13 2,4-DB

R.T.: 10.918 min
Delta R.T.: -0.004 min
Response: 1301916579
Conc: 1112.26 ng/ml m



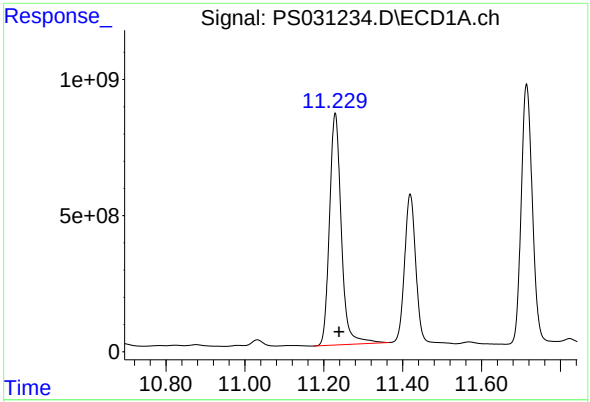

#14 DINOSEB

R.T.: 11.418 min
Delta R.T.: -0.008 min
Response: 10564423157
Conc: 678.53 ng/ml m




#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.003 min
Response: 7270112770
Conc: 643.25 ng/ml




#15 Picloram

R.T.: 11.229 min
Delta R.T.: -0.010 min
Response: 17696517170
Conc: 884.53 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MS

**Manual Integrations**
**APPROVED**

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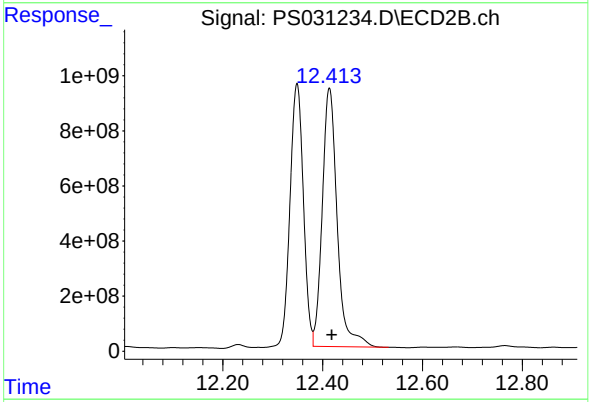
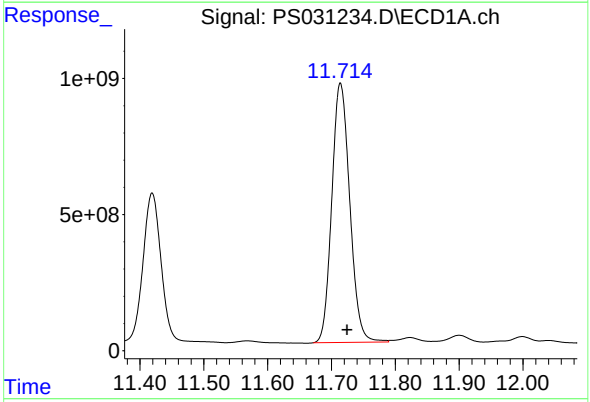


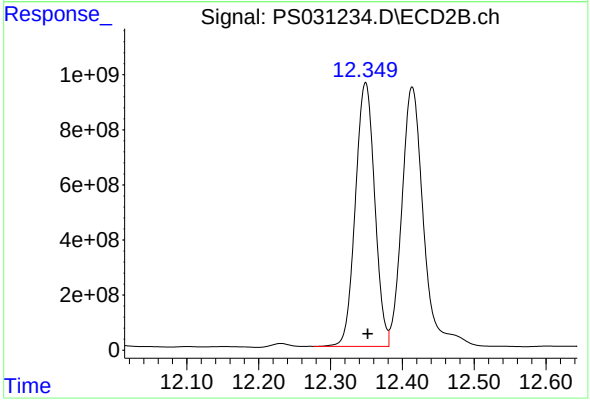

#15 Picloram

R.T.: 12.414 min
Delta R.T.: -0.005 min
Response: 19451717745
Conc: 781.35 ng/ml




#16 DCPA

R.T.: 11.714 min
Delta R.T.: -0.010 min
Response: 18645788547
Conc: 649.83 ng/ml




#16 DCPA

R.T.: 12.349 min
Delta R.T.: -0.003 min
Response: 17877937051
Conc: 776.09 ng/ml m

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Weston Solutions, Inc. | Date Collected: | 07/16/25 |
| Project: | RFP 905A | Date Received: | 07/18/25 |
| Client Sample ID: | P001-CONCRETE001-01MSD | SDG No.: | Q2641 |
| Lab Sample ID: | Q2641-02MSD | Matrix: | TCLP |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS031235.D | 1 | 07/23/25 11:45 | 07/24/25 19:28 | PB169001 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 80.9 | | 9.20 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 73.8 | | 7.80 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 463 | | 61 - 136 | 93% | 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\PS072425\
Data File : PS031235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:28
Operator : AR\AJ
Sample : Q2641-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:43:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | | | |
| 4) S | 2,4-DCAA | 7.319 | 7.764 | 1819.5E6 | 469.6E6 | 418.436 | 462.681 |
| | **Target Compounds** | | | | | | |
| 1) T | Dalapon | 2.688 | 2.703 | 1265.5E6 | 1324.3E6 | 201.746m | 466.832m# |
| 2) T | 3,5-DICHL... | 6.483 | 6.711 | 3576.2E6 | 1020.1E6 | 647.538 | 662.430 |
| 3) T | 4-Nitroph... | 7.119 | 7.297 | 1123.9E6 | 1117.7E6 | 681.649 | 617.766 |
| 5) T | DICAMBA | 7.509 | 7.966 | 11042.2E6 | 4495.5E6 | 669.344 | 696.610 |
| 6) T | MCPP | 7.689 | 8.065 | 477.0E6 | 93967699 | 47.651 | 45.224 |
| 7) T | MCPA | 7.839 | 8.302 | 734.1E6 | 811.0E6 | 58.658 | 257.034m# |
| 8) T | DICHLORPROP | 8.219 | 8.685 | 2527.0E6 | 976.3E6 | 661.169 | 644.472 |
| 9) T | 2,4-D | 8.451 | 9.022 | 2847.7E6 | 1374.5E6 | 762.450 | 809.339 |
| 10) T | Pentachlo... | 8.760 | 9.545 | 41978.8E6 | 28362.4E6 | 768.538 | 725.729 |
| 11) T | 2,4,5-TP ... | 9.336 | 9.926 | 16205.4E6 | 10825.5E6 | 738.168 | 726.825m |
| 12) T | 2,4,5-T | 9.630 | 10.353 | 14305.5E6 | 10120.0E6 | 732.573 | 711.704 |
| 13) T | 2,4-DB | 10.206 | 10.919 | 2275.5E6 | 1219.8E6 | 761.081 | 1042.144m# |
| 14) T | DINOSEB | 11.419 | 11.305 | 10036.8E6 | 6882.5E6 | 644.648m | 608.956 |
| 15) T | Picloram | 11.229 | 12.414 | 16773.8E6 | 18153.3E6 | 838.413m | 729.193 |
| 16) T | DCPA | 11.714 | 12.349 | 16732.4E6 | 16985.3E6 | 583.144 | 737.337m# |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS072425\
Data File : PS031235.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jul 2025 19:28
Operator : AR\AJ
Sample : Q2641-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/25/2025
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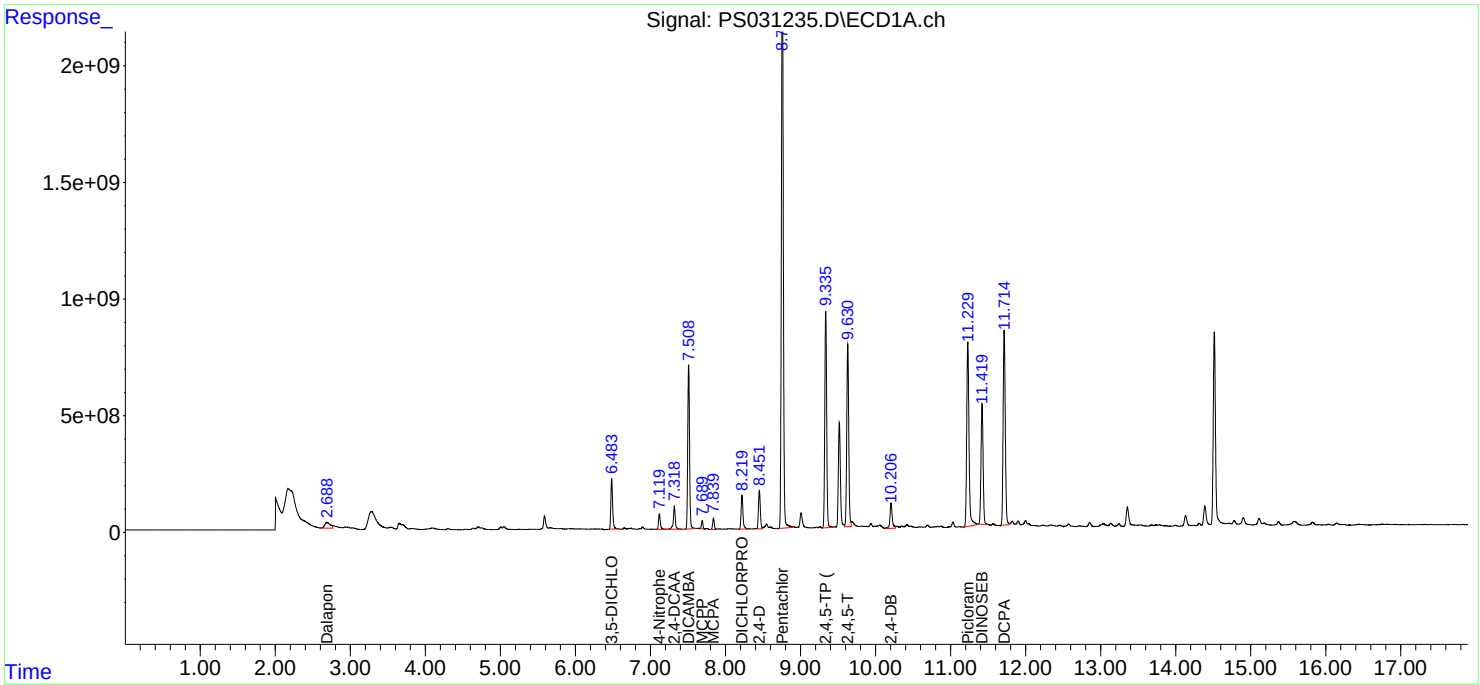
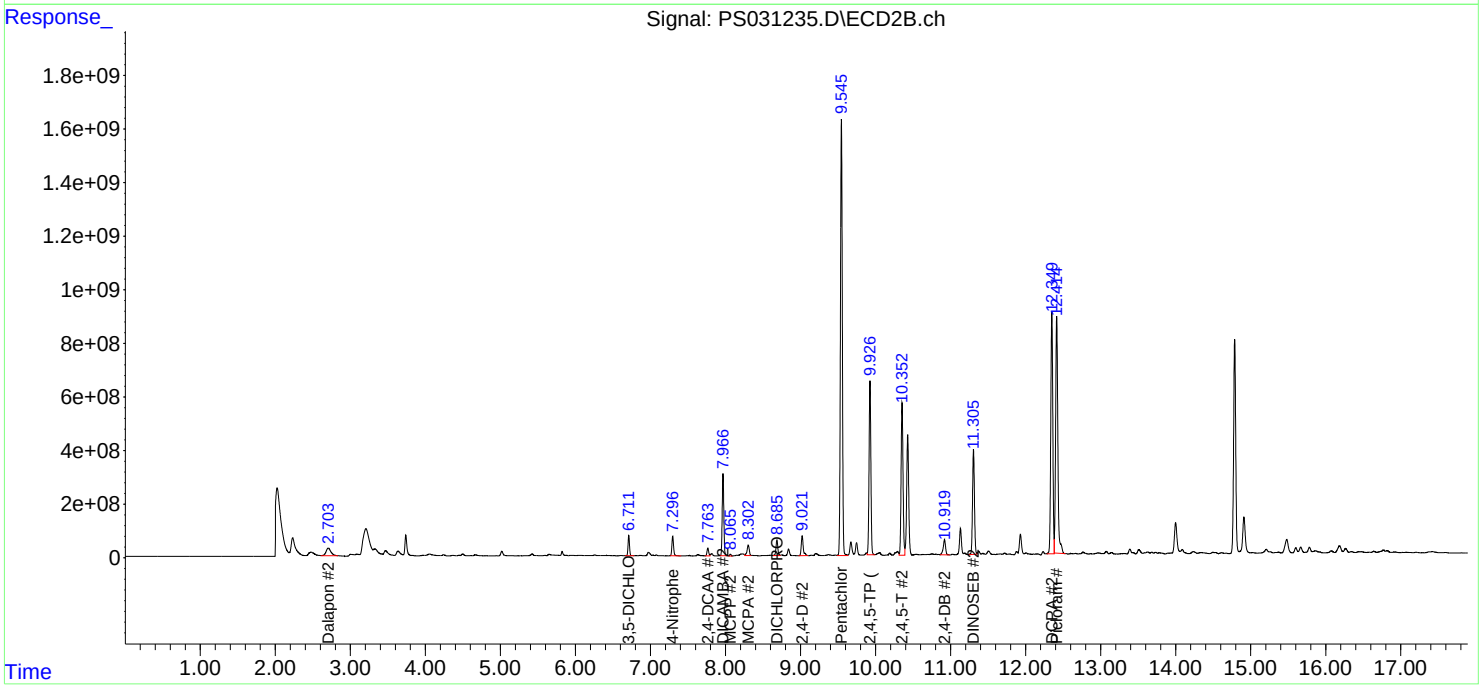
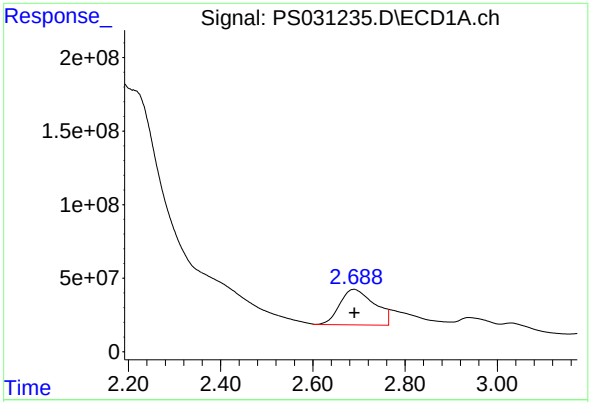
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 25 03:43:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS072125.M
Quant Title : 8080.M
QLast Update : Tue Jul 22 03:18:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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






#1 Dalapon

R.T.: 2.688 min
Delta R.T.: -0.002 min
Response: 1265530648
Conc: 201.75 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

**Manual Integrations APPROVED**

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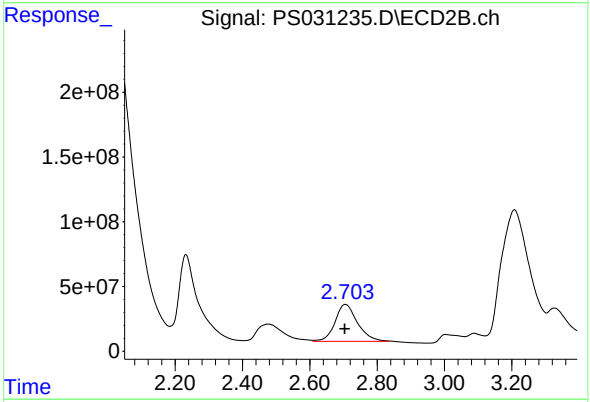
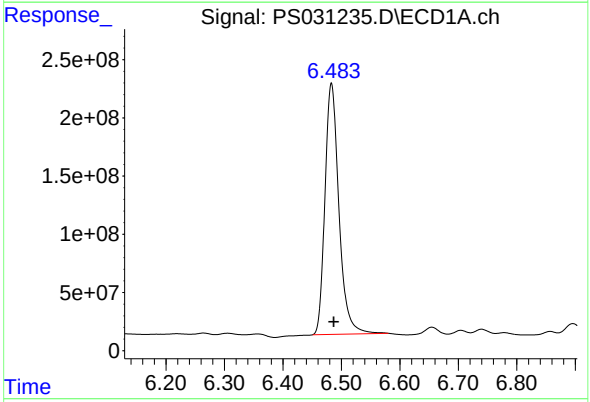


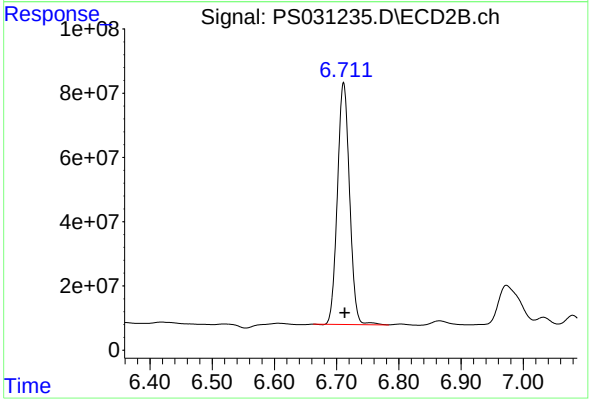

#1 Dalapon

R.T.: 2.703 min
Delta R.T.: 0.000 min
Response: 1324281413
Conc: 466.83 ng/ml m



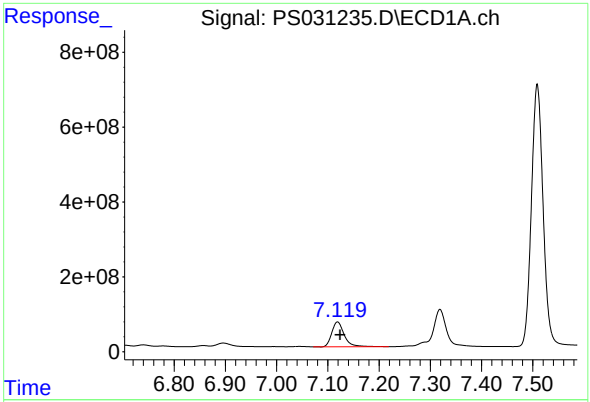

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.483 min
Delta R.T.: -0.004 min
Response: 3576192430
Conc: 647.54 ng/ml




#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.711 min
Delta R.T.: -0.002 min
Response: 1020072771
Conc: 662.43 ng/ml




#3 4-Nitrophenol

R.T.: 7.119 min
Delta R.T.: -0.005 min
Response: 1123892523
Conc: 681.65 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

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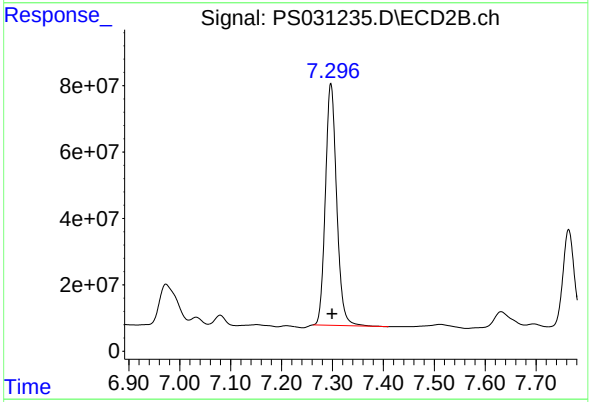
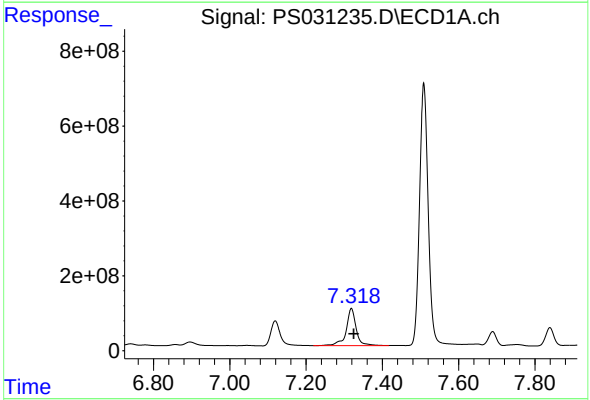


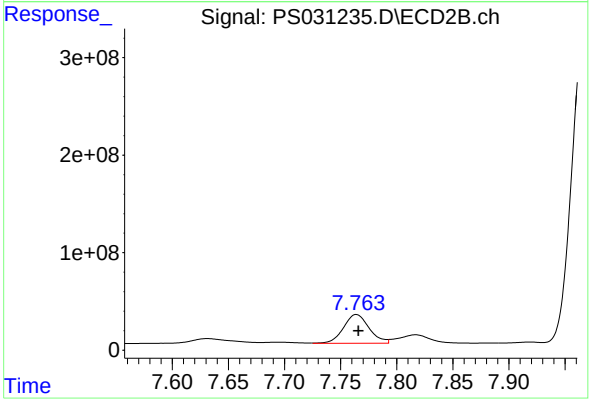

#3 4-Nitrophenol

R.T.: 7.297 min
Delta R.T.: -0.002 min
Response: 1117734117
Conc: 617.77 ng/ml



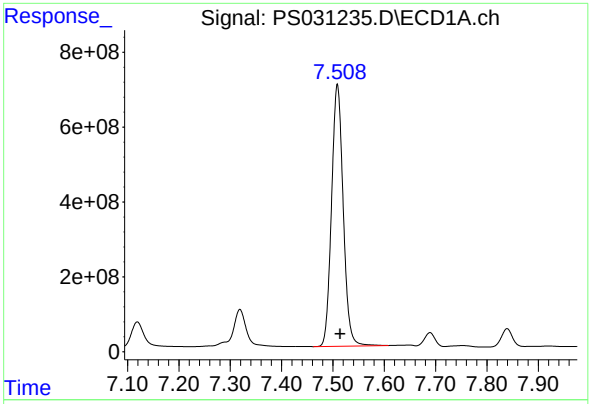

#4 2,4-DCAA

R.T.: 7.319 min
Delta R.T.: -0.006 min
Response: 1819464383
Conc: 418.44 ng/ml




#4 2,4-DCAA

R.T.: 7.764 min
Delta R.T.: -0.002 min
Response: 469606977
Conc: 462.68 ng/ml




#5 DICAMBA

R.T.: 7.509 min
Delta R.T.: -0.005 min
Response: 11042152188
Conc: 669.34 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

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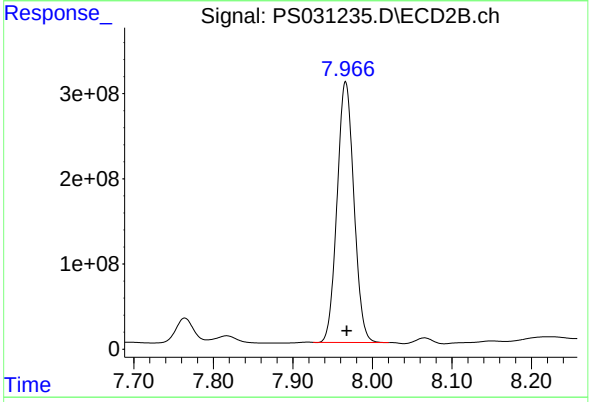
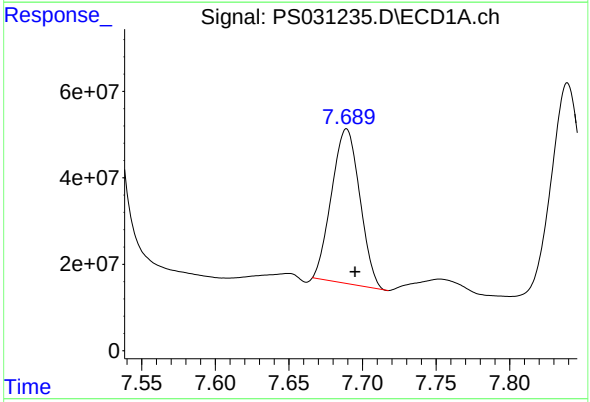


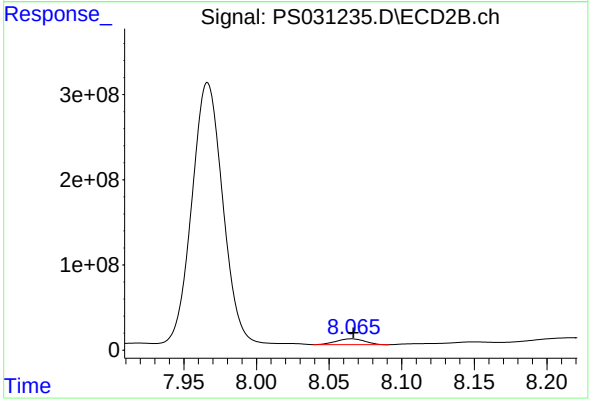

#5 DICAMBA

R.T.: 7.966 min
Delta R.T.: -0.002 min
Response: 4495484023
Conc: 696.61 ng/ml



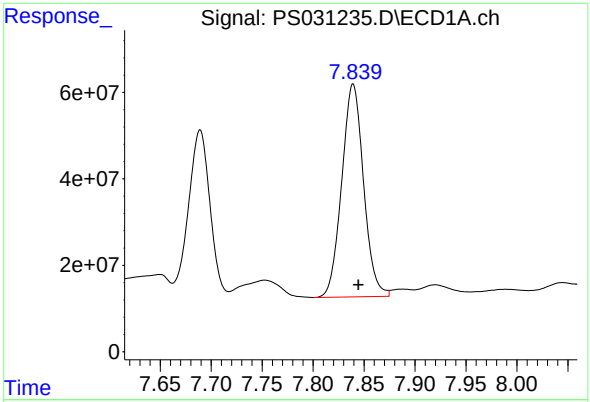

#6 MCPP

R.T.: 7.689 min
Delta R.T.: -0.006 min
Response: 476991807
Conc: 47.65 ug/ml




#6 MCPP

R.T.: 8.065 min
Delta R.T.: -0.001 min
Response: 93967699
Conc: 45.22 ug/ml




#7 MCPA

R.T.: 7.839 min
Delta R.T.: -0.005 min
Response: 734064049
Conc: 58.66 ug/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

**Manual Integrations APPROVED**

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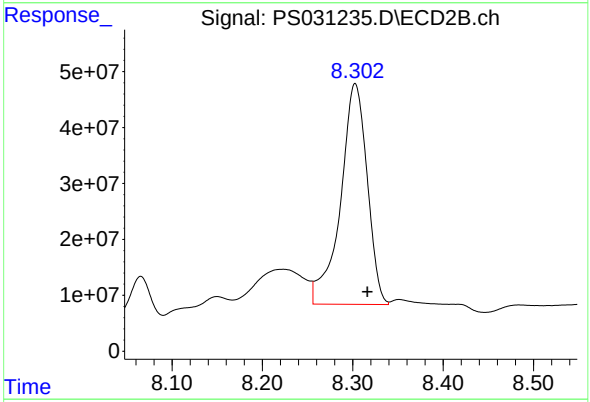
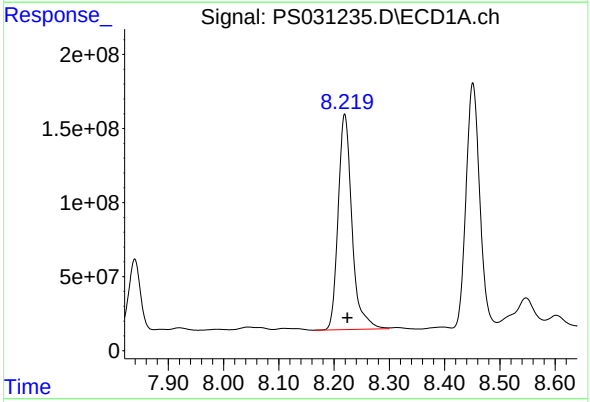


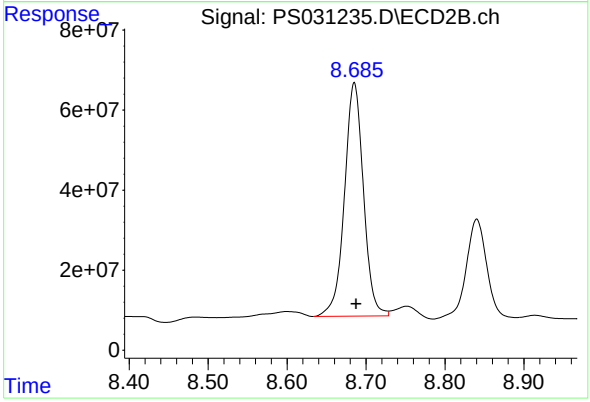

#7 MCPA

R.T.: 8.302 min
Delta R.T.: -0.014 min
Response: 810997561
Conc: 257.03 ug/ml m



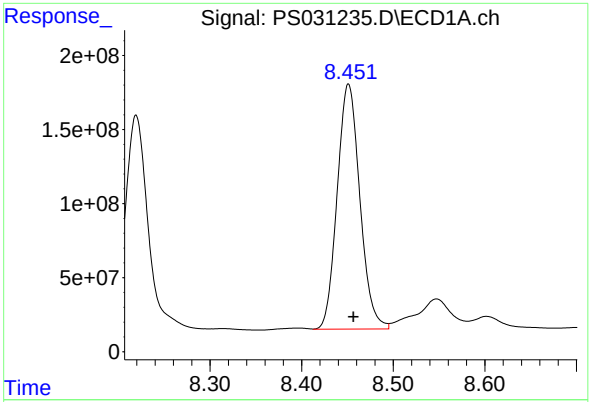

#8 DICHLORPROP

R.T.: 8.219 min
Delta R.T.: -0.005 min
Response: 2526958414
Conc: 661.17 ng/ml




#8 DICHLORPROP

R.T.: 8.685 min
Delta R.T.: -0.002 min
Response: 976285764
Conc: 644.47 ng/ml



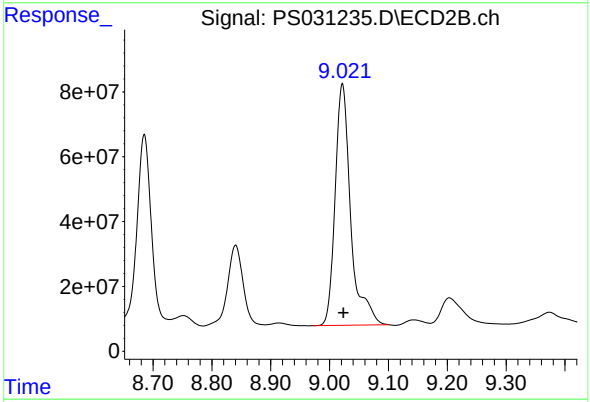

#9 2,4-D

R.T.: 8.451 min
Delta R.T.: -0.005 min
Response: 2847685564
Conc: 762.45 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

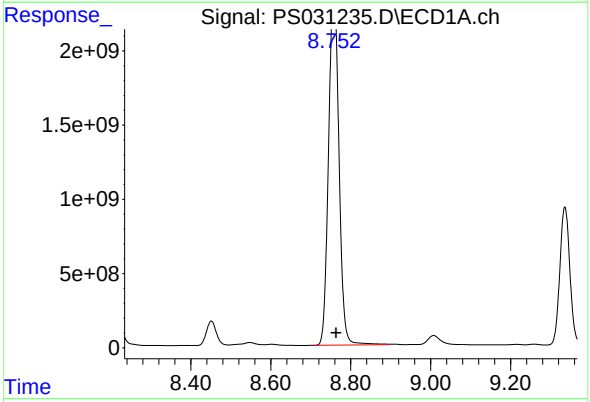
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



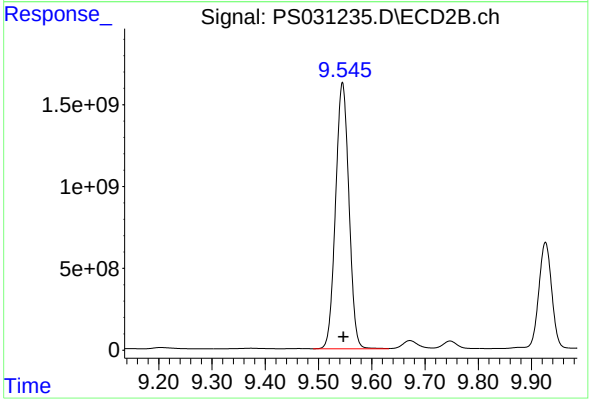

#9 2,4-D

R.T.: 9.022 min
Delta R.T.: -0.002 min
Response: 1374516773
Conc: 809.34 ng/ml



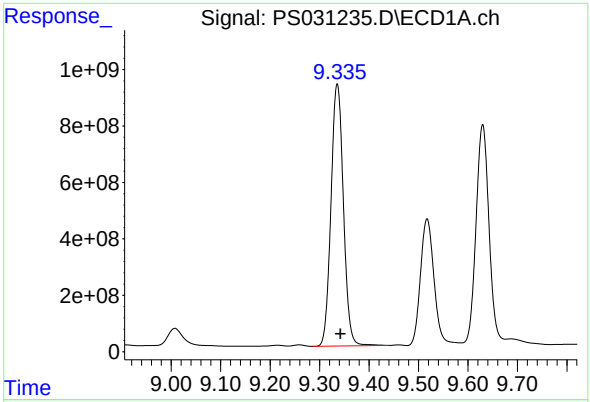

#10 Pentachlorophenol

R.T.: 8.760 min
Delta R.T.: -0.003 min
Response: 41978757651
Conc: 768.54 ng/ml




#10 Pentachlorophenol

R.T.: 9.545 min
Delta R.T.: -0.002 min
Response: 28362380678
Conc: 725.73 ng/ml



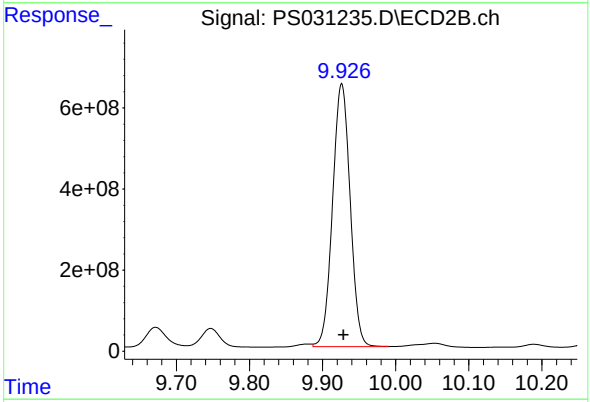

#11 2,4,5-TP (SILVEX)

R.T.: 9.336 min
Delta R.T.: -0.006 min
Response: 16205413370
Conc: 738.17 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

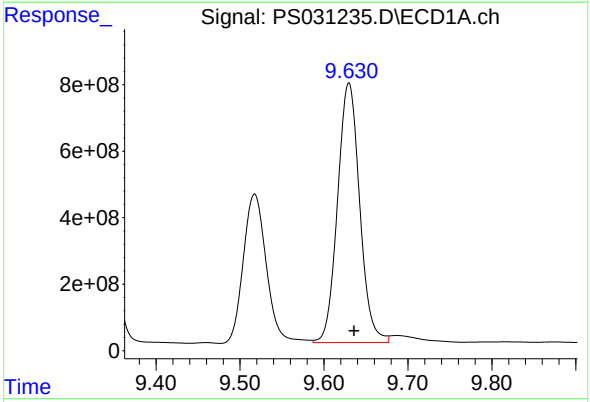
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



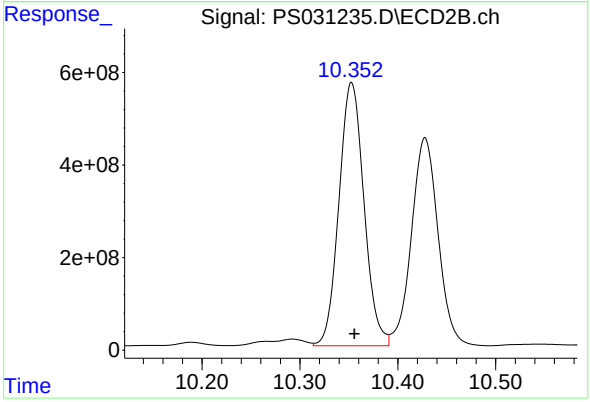

#11 2,4,5-TP (SILVEX)

R.T.: 9.926 min
Delta R.T.: -0.003 min
Response: 10825462426
Conc: 726.82 ng/ml m



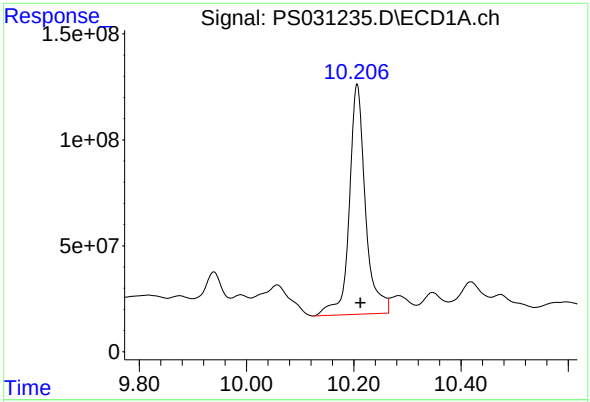

#12 2,4,5-T

R.T.: 9.630 min
Delta R.T.: -0.006 min
Response: 14305527342
Conc: 732.57 ng/ml




#12 2,4,5-T

R.T.: 10.353 min
Delta R.T.: -0.003 min
Response: 10120043555
Conc: 711.70 ng/ml



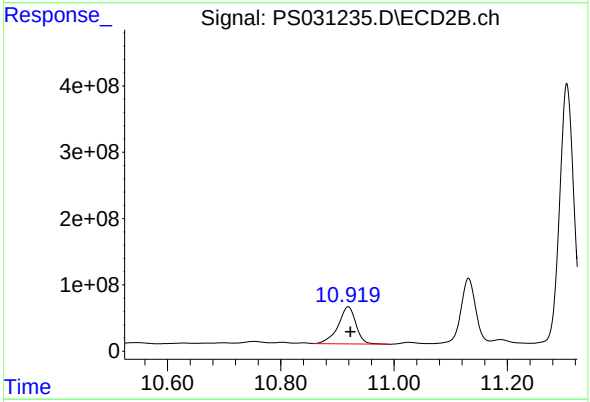

#13 2,4-DB

R.T.: 10.206 min
Delta R.T.: -0.006 min
Response: 2275544898
Conc: 761.08 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

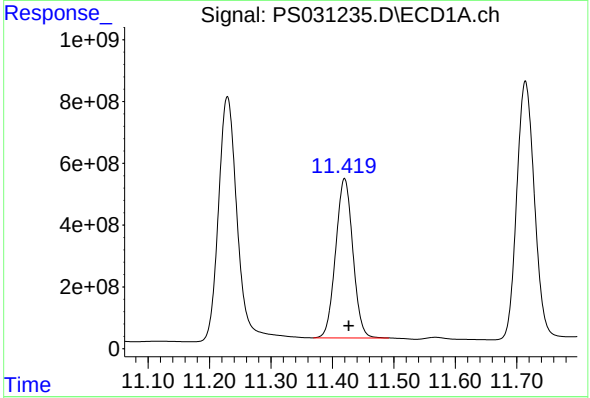
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



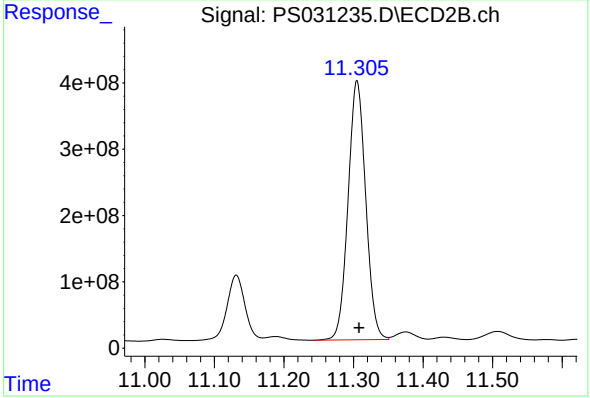

#13 2,4-DB

R.T.: 10.919 min
Delta R.T.: -0.004 min
Response: 1219840983
Conc: 1042.14 ng/ml m



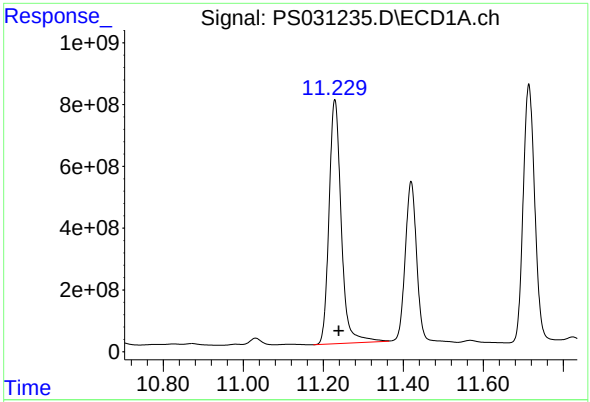

#14 DINOSEB

R.T.: 11.419 min
Delta R.T.: -0.007 min
Response: 10036842350
Conc: 644.65 ng/ml m




#14 DINOSEB

R.T.: 11.305 min
Delta R.T.: -0.003 min
Response: 6882471471
Conc: 608.96 ng/ml



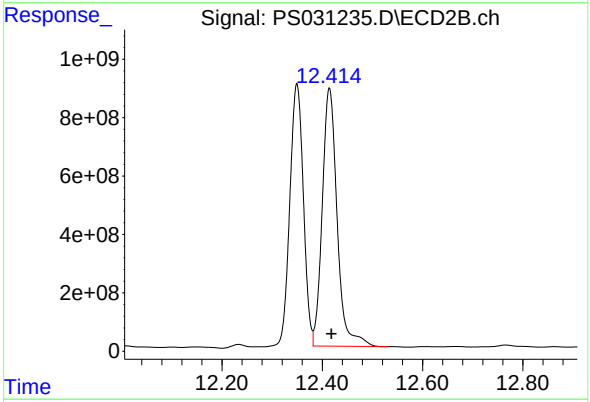

#15 Picloram

R.T.: 11.229 min
Delta R.T.: -0.010 min
Response: 16773782923
Conc: 838.41 ng/ml

**Instrument :**
ECD_S
**ClientSampleId :**
P001-CONCRETE001-01MSD

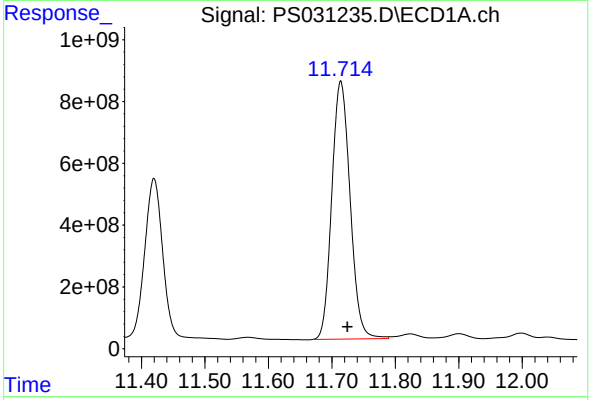
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/25/2025
Supervised By :mohammad ahmed 07/26/2025



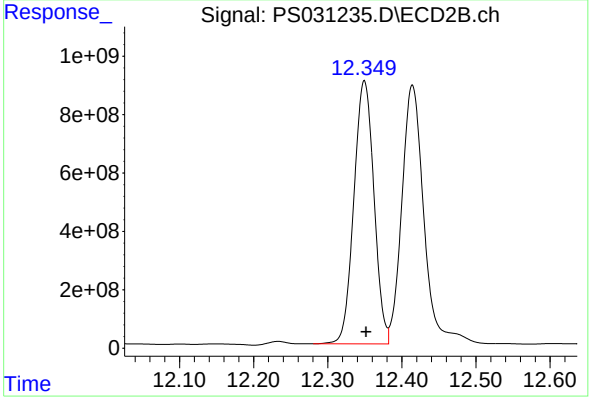

#15 Picloram

R.T.: 12.414 min
Delta R.T.: -0.004 min
Response: 18153285721
Conc: 729.19 ng/ml




#16 DCPA

R.T.: 11.714 min
Delta R.T.: -0.010 min
Response: 16732439756
Conc: 583.14 ng/ml




#16 DCPA

R.T.: 12.349 min
Delta R.T.: -0.003 min
Response: 16985320276
Conc: 737.34 ng/ml m

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# Manual Integration Report

| Sequence: | ps072125 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDICC500 | PS031158.D | 2,4-DCAA | Abdul | 7/22/2025 7:56:52 AM | mohammad | 7/23/2025 1:33:13 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | ps072425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS031222.D | 2,4-D | yogesh | 7/25/2025 8:14:31 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031222.D | 2,4-DB | yogesh | 7/25/2025 8:14:31 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031222.D | 2,4-DCAA | yogesh | 7/25/2025 8:14:31 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031233.D | DCPA #2 | yogesh | 7/25/2025 8:14:42 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031233.D | DINOSEB | yogesh | 7/25/2025 8:14:42 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031233.D | Pentachlorophenol | yogesh | 7/25/2025 8:14:42 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031233.D | Picloram | yogesh | 7/25/2025 8:14:42 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | 2,4,5-TP (SILVEX) #2 | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | 2,4-DB #2 | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | Dalapon | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | Dalapon #2 | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | DCPA #2 | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | DINOSEB | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | ps072425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q2641-02MS | PS031234.D | MCPA #2 | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MS | PS031234.D | Picloram | yogesh | 7/25/2025 8:14:46 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | 2,4,5-TP (SILVEX) #2 | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | 2,4-DB #2 | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | Dalapon | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | Dalapon #2 | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | DCPA #2 | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | DINOSEB | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | MCPA #2 | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| Q2641-02MSD | PS031235.D | Picloram | yogesh | 7/25/2025 8:14:48 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| PB169001BS | PS031237.D | 2,4-D #2 | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| PB169001BS | PS031237.D | 2,4-DB #2 | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| PB169001BS | PS031237.D | Dalapon | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | ps072425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB169001BS | PS031237.D | Dalapon #2 | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| PB169001BS | PS031237.D | DINOSEB | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| PB169001BS | PS031237.D | Picloram | yogesh | 7/25/2025 8:14:50 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031243.D | DCPA #2 | yogesh | 7/25/2025 8:14:52 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031243.D | DINOSEB | yogesh | 7/25/2025 8:14:52 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031243.D | Pentachlorophenol | yogesh | 7/25/2025 8:14:52 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031243.D | Picloram | yogesh | 7/25/2025 8:14:52 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031252.D | DCPA #2 | yogesh | 7/25/2025 8:14:58 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031252.D | DINOSEB | yogesh | 7/25/2025 8:14:58 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031252.D | Pentachlorophenol | yogesh | 7/25/2025 8:14:58 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031252.D | Picloram | yogesh | 7/25/2025 8:14:58 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | 2,4,5-TP (SILVEX) #2 | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | 2,4-D | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | ps072425 | Instrument | ECD_s |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| HSTDCCC750 | PS031260.D | 3,5-DICHLOROBENZOIC ACID | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | Dalapon #2 | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | DICHLORPROP | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | DICHLORPROP #2 | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |
| HSTDCCC750 | PS031260.D | MCPP #2 | yogesh | 7/25/2025 9:35:16 AM | mohammad | 7/25/2025 11:40:47 | Peak Integrated by Software |

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 7/22/2025 7:57:36 AM | | |
| Supervise By | mohammad | Supervise On | 7/23/2025 1:33:13 AM | | |
| SubDirectory | PS072125 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PS031155.D | 21 Jul 2025 14:14 | AR\AJ | Ok |
| 2 | I.BLK | PS031156.D | 21 Jul 2025 14:38 | AR\AJ | Ok |
| 3 | HSTDICC200 | PS031157.D | 21 Jul 2025 15:02 | AR\AJ | Ok |
| 4 | HSTDICC500 | PS031158.D | 21 Jul 2025 15:26 | AR\AJ | Ok,M |
| 5 | HSTDICC750 | PS031159.D | 21 Jul 2025 15:51 | AR\AJ | Ok |
| 6 | HSTDICC1000 | PS031160.D | 21 Jul 2025 16:15 | AR\AJ | Ok |
| 7 | HSTDICC1500 | PS031161.D | 21 Jul 2025 16:39 | AR\AJ | Ok |
| 8 | HSTDICV750 | PS031162.D | 21 Jul 2025 17:03 | AR\AJ | Ok |
| 9 | I.BLK | PS031163.D | 21 Jul 2025 17:27 | AR\AJ | Ok |
| 10 | HSTDCCC750 | PS031164.D | 21 Jul 2025 17:51 | AR\AJ | Ok |
| 11 | Q2529-10 | PS031165.D | 21 Jul 2025 18:15 | AR\AJ | Not Ok |
| 12 | Q2529-10MS | PS031166.D | 21 Jul 2025 18:40 | AR\AJ | Not Ok |
| 13 | Q2529-10MSD | PS031167.D | 21 Jul 2025 19:04 | AR\AJ | Not Ok |
| 14 | PB168886BS | PS031168.D | 21 Jul 2025 19:28 | AR\AJ | Ok |
| 15 | I.BLK | PS031169.D | 21 Jul 2025 19:52 | AR\AJ | Ok |
| 16 | HSTDCCC750 | PS031170.D | 21 Jul 2025 20:16 | AR\AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/25/2025 8:15:19 AM | | |
| Supervise By | mohammad | Supervise On | 7/25/2025 11:40:47 PM | | |
| SubDirectory | PS072425 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PS031220.D | 24 Jul 2025 10:10 | AR\AJ | Ok |
| 2 | I.BLK | PS031221.D | 24 Jul 2025 10:35 | AR\AJ | Ok |
| 3 | HSTDCCC750 | PS031222.D | 24 Jul 2025 12:03 | AR\AJ | Ok,M |
| 4 | Q2638-11 | PS031223.D | 24 Jul 2025 13:44 | AR\AJ | Ok |
| 5 | Q2638-11MS | PS031224.D | 24 Jul 2025 14:08 | AR\AJ | Ok,M |
| 6 | Q2638-11MSD | PS031225.D | 24 Jul 2025 14:38 | AR\AJ | Ok,M |
| 7 | Q2558-01MS | PS031226.D | 24 Jul 2025 15:02 | AR\AJ | Ok,M |
| 8 | Q2558-01MSD | PS031227.D | 24 Jul 2025 15:26 | AR\AJ | Ok,M |
| 9 | Q2638-13 | PS031228.D | 24 Jul 2025 15:50 | AR\AJ | Ok,M |
| 10 | Q2638-05 | PS031229.D | 24 Jul 2025 16:14 | AR\AJ | Ok |
| 11 | Q2638-07 | PS031230.D | 24 Jul 2025 16:39 | AR\AJ | Ok |
| 12 | Q2641-02 | PS031231.D | 24 Jul 2025 17:03 | AR\AJ | Ok |
| 13 | I.BLK | PS031232.D | 24 Jul 2025 17:27 | AR\AJ | Ok |
| 14 | HSTDCCC750 | PS031233.D | 24 Jul 2025 18:39 | AR\AJ | Ok,M |
| 15 | Q2641-02MS | PS031234.D | 24 Jul 2025 19:04 | AR\AJ | Ok,M |
| 16 | Q2641-02MSD | PS031235.D | 24 Jul 2025 19:28 | AR\AJ | Ok,M |
| 17 | PB169001BL | PS031236.D | 24 Jul 2025 19:52 | AR\AJ | Ok |
| 18 | PB169001BS | PS031237.D | 24 Jul 2025 20:16 | AR\AJ | Ok,M |
| 19 | PB168919TB | PS031238.D | 24 Jul 2025 20:40 | AR\AJ | Ok |
| 20 | PB168926TB | PS031239.D | 24 Jul 2025 21:04 | AR\AJ | Ok |
| 21 | PB168953TB | PS031240.D | 24 Jul 2025 21:29 | AR\AJ | Ok |

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Fax : 908 789 8922

**Instrument ID: ECD_S**

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/25/2025 8:15:19 AM | | |
| Supervise By | mohammad | Supervise On | 7/25/2025 11:40:47 PM | | |
| SubDirectory | PS072425 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB168969TB | PS031241.D | 24 Jul 2025 21:53 | AR\AJ | Ok |
| 23 | I.BLK | PS031242.D | 24 Jul 2025 22:17 | AR\AJ | Ok |
| 24 | HSTDCCC750 | PS031243.D | 24 Jul 2025 23:29 | AR\AJ | Ok,M |
| 25 | Q2481-12 | PS031244.D | 24 Jul 2025 23:53 | AR\AJ | Not Ok |
| 26 | Q2481-15 | PS031245.D | 25 Jul 2025 00:17 | AR\AJ | Ok,M |
| 27 | Q2667-01 | PS031246.D | 25 Jul 2025 00:41 | AR\AJ | Ok |
| 28 | Q2667-02 | PS031247.D | 25 Jul 2025 01:05 | AR\AJ | Ok |
| 29 | Q2481-19 | PS031248.D | 25 Jul 2025 01:29 | AR\AJ | Not Ok |
| 30 | Q2481-21 | PS031249.D | 25 Jul 2025 01:53 | AR\AJ | Not Ok |
| 31 | Q2446-03 | PS031250.D | 25 Jul 2025 02:18 | AR\AJ | Not Ok |
| 32 | I.BLK | PS031251.D | 25 Jul 2025 02:42 | AR\AJ | Ok |
| 33 | HSTDCCC750 | PS031252.D | 25 Jul 2025 03:54 | AR\AJ | Ok,M |
| 34 | Q2481-13 | PS031253.D | 25 Jul 2025 04:18 | AR\AJ | Not Ok |
| 35 | Q2481-14 | PS031254.D | 25 Jul 2025 04:43 | AR\AJ | Not Ok |
| 36 | Q2481-16 | PS031255.D | 25 Jul 2025 05:07 | AR\AJ | Not Ok |
| 37 | Q2481-17 | PS031256.D | 25 Jul 2025 05:31 | AR\AJ | Not Ok |
| 38 | Q2481-18 | PS031257.D | 25 Jul 2025 05:55 | AR\AJ | Not Ok |
| 39 | Q2481-20 | PS031258.D | 25 Jul 2025 06:19 | AR\AJ | Not Ok |
| 40 | I.BLK | PS031259.D | 25 Jul 2025 06:43 | AR\AJ | Not Ok |
| 41 | HSTDCCC750 | PS031260.D | 25 Jul 2025 07:07 | AR\AJ | Not Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 7/22/2025 7:57:36 AM | | |
| Supervise By | mohammad | Supervise On | 7/23/2025 1:33:13 AM | | |
| SubDirectory | PS072125 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PS031155.D | 21 Jul 2025 14:14 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS031156.D | 21 Jul 2025 14:38 | | AR\AJ | Ok |
| 3 | HSTDICC200 | HSTDICC200 | PS031157.D | 21 Jul 2025 15:02 | | AR\AJ | Ok |
| 4 | HSTDICC500 | HSTDICC500 | PS031158.D | 21 Jul 2025 15:26 | | AR\AJ | Ok,M |
| 5 | HSTDICC750 | HSTDICC750 | PS031159.D | 21 Jul 2025 15:51 | | AR\AJ | Ok |
| 6 | HSTDICC1000 | HSTDICC1000 | PS031160.D | 21 Jul 2025 16:15 | | AR\AJ | Ok |
| 7 | HSTDICC1500 | HSTDICC1500 | PS031161.D | 21 Jul 2025 16:39 | | AR\AJ | Ok |
| 8 | HSTDICV750 | ICVPS072125 | PS031162.D | 21 Jul 2025 17:03 | | AR\AJ | Ok |
| 9 | I.BLK | I.BLK | PS031163.D | 21 Jul 2025 17:27 | | AR\AJ | Ok |
| 10 | HSTDCCC750 | HSTDCCC750 | PS031164.D | 21 Jul 2025 17:51 | | AR\AJ | Ok |
| 11 | Q2529-10 | TP-30 | PS031165.D | 21 Jul 2025 18:15 | already analyzed | AR\AJ | Not Ok |
| 12 | Q2529-10MS | TP-30MS | PS031166.D | 21 Jul 2025 18:40 | some compound recovery fail ,already analyzed | AR\AJ | Not Ok |
| 13 | Q2529-10MSD | TP-30MSD | PS031167.D | 21 Jul 2025 19:04 | some compound recovery fail , RPD fail,already analyzed | AR\AJ | Not Ok |
| 14 | PB168886BS | PB168886BS | PS031168.D | 21 Jul 2025 19:28 | | AR\AJ | Ok |
| 15 | I.BLK | I.BLK | PS031169.D | 21 Jul 2025 19:52 | | AR\AJ | Ok |
| 16 | HSTDCCC750 | HSTDCCC750 | PS031170.D | 21 Jul 2025 20:16 | | AR\AJ | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/25/2025 8:15:19 AM | | |
| Supervise By | mohammad | Supervise On | 7/25/2025 11:40:47 PM | | |
| SubDirectory | PS072425 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PS031220.D | 24 Jul 2025 10:10 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PS031221.D | 24 Jul 2025 10:35 | | AR\AJ | Ok |
| 3 | HSTDCCC750 | HSTDCCC750 | PS031222.D | 24 Jul 2025 12:03 | | AR\AJ | Ok,M |
| 4 | Q2638-11 | OU4-TS-36-071725 | PS031223.D | 24 Jul 2025 13:44 | | AR\AJ | Ok |
| 5 | Q2638-11MS | OU4-TS-36-071725MS | PS031224.D | 24 Jul 2025 14:08 | | AR\AJ | Ok,M |
| 6 | Q2638-11MSD | OU4-TS-36-071725MS | PS031225.D | 24 Jul 2025 14:38 | | AR\AJ | Ok,M |
| 7 | Q2558-01MS | OU4-TS-Denali-070925 | PS031226.D | 24 Jul 2025 15:02 | | AR\AJ | Ok,M |
| 8 | Q2558-01MSD | OU4-TS-Denali-070925 | PS031227.D | 24 Jul 2025 15:26 | | AR\AJ | Ok,M |
| 9 | Q2638-13 | OU4-TS-37-071725 | PS031228.D | 24 Jul 2025 15:50 | | AR\AJ | Ok,M |
| 10 | Q2638-05 | OU4-TS-33-071725 | PS031229.D | 24 Jul 2025 16:14 | | AR\AJ | Ok |
| 11 | Q2638-07 | OU4-TS-34-071725 | PS031230.D | 24 Jul 2025 16:39 | | AR\AJ | Ok |
| 12 | Q2641-02 | P001-CONCRETE001- | PS031231.D | 24 Jul 2025 17:03 | | AR\AJ | Ok |
| 13 | I.BLK | I.BLK | PS031232.D | 24 Jul 2025 17:27 | | AR\AJ | Ok |
| 14 | HSTDCCC750 | HSTDCCC750 | PS031233.D | 24 Jul 2025 18:39 | | AR\AJ | Ok,M |
| 15 | Q2641-02MS | P001-CONCRETE001- | PS031234.D | 24 Jul 2025 19:04 | | AR\AJ | Ok,M |
| 16 | Q2641-02MSD | P001-CONCRETE001- | PS031235.D | 24 Jul 2025 19:28 | | AR\AJ | Ok,M |
| 17 | PB169001BL | PB169001BL | PS031236.D | 24 Jul 2025 19:52 | | AR\AJ | Ok |
| 18 | PB169001BS | PB169001BS | PS031237.D | 24 Jul 2025 20:16 | | AR\AJ | Ok,M |

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Fax : 908 789 8922

**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/25/2025 8:15:19 AM | | |
| Supervise By | mohammad | Supervise On | 7/25/2025 11:40:47 PM | | |
| SubDirectory | PS072425 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB168919TB | PB168919TB | PS031238.D | 24 Jul 2025 20:40 | | AR\AJ | Ok |
| 20 | PB168926TB | PB168926TB | PS031239.D | 24 Jul 2025 21:04 | | AR\AJ | Ok |
| 21 | PB168953TB | PB168953TB | PS031240.D | 24 Jul 2025 21:29 | | AR\AJ | Ok |
| 22 | PB168969TB | PB168969TB | PS031241.D | 24 Jul 2025 21:53 | | AR\AJ | Ok |
| 23 | I.BLK | I.BLK | PS031242.D | 24 Jul 2025 22:17 | | AR\AJ | Ok |
| 24 | HSTDCCC750 | HSTDCCC750 | PS031243.D | 24 Jul 2025 23:29 | | AR\AJ | Ok,M |
| 25 | Q2481-12 | CC0627-AL | PS031244.D | 24 Jul 2025 23:53 | bad injection | AR\AJ | Not Ok |
| 26 | Q2481-15 | CC0627-AOXL | PS031245.D | 25 Jul 2025 00:17 | | AR\AJ | Ok,M |
| 27 | Q2667-01 | C0AP2 | PS031246.D | 25 Jul 2025 00:41 | | AR\AJ | Ok |
| 28 | Q2667-02 | C0AP3 | PS031247.D | 25 Jul 2025 01:05 | | AR\AJ | Ok |
| 29 | Q2481-19 | CC0627-CLOXAL | PS031248.D | 25 Jul 2025 01:29 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 30 | Q2481-21 | CC0627-SFBL | PS031249.D | 25 Jul 2025 01:53 | bad injection | AR\AJ | Not Ok |
| 31 | Q2446-03 | MR-BUR-LNG-13 | PS031250.D | 25 Jul 2025 02:18 | bad injection, TYPO | AR\AJ | Not Ok |
| 32 | I.BLK | I.BLK | PS031251.D | 25 Jul 2025 02:42 | | AR\AJ | Ok |
| 33 | HSTDCCC750 | HSTDCCC750 | PS031252.D | 25 Jul 2025 03:54 | | AR\AJ | Ok,M |
| 34 | Q2481-13 | CC0627-CLOXPL | PS031253.D | 25 Jul 2025 04:18 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 35 | Q2481-14 | CC0625-OXBL | PS031254.D | 25 Jul 2025 04:43 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 36 | Q2481-16 | CC0625-NL | PS031255.D | 25 Jul 2025 05:07 | bad injection, surrogate not detected | AR\AJ | Not Ok |

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Fax : 908 789 8922

**Instrument ID:** ECD_S

## Daily Analysis Runlog For Sequence/QCBatch ID # PS072425

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/25/2025 8:15:19 AM | | |
| Supervise By | mohammad | Supervise On | 7/25/2025 11:40:47 PM | | |
| SubDirectory | PS072425 | HP Acquire Method | | HP Processing Method | ps072125 8151 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 37 | Q2481-17 | CC0267-OXPL | PS031256.D | 25 Jul 2025 05:31 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 38 | Q2481-18 | CC0627-OXL | PS031257.D | 25 Jul 2025 05:55 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 39 | Q2481-20 | CC0627-BL | PS031258.D | 25 Jul 2025 06:19 | bad injection, surrogate not detected | AR\AJ | Not Ok |
| 40 | I.BLK | I.BLK | PS031259.D | 25 Jul 2025 06:43 | Surrogate low in both column, bad injection | AR\AJ | Not Ok |
| 41 | HSTDCCC750 | HSTDCCC750 | PS031260.D | 25 Jul 2025 07:07 | most of compounds are fail | AR\AJ | Not Ok |

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## TCLP EXTRACTION LOGPAGE

PB168919

**SOP ID :** M1311-TCLP-16

**SDG No :** N/A

**Start Prep Date :** 07/18/2025 **Time :** 17:00

**Weigh By :** JP

**End Prep Date :** 07/19/2025 **Time :** 11:25

**Balance ID :** WC SC-7

**Combination Ratio :** 20

**pH Meter ID :** WC PH METER-1

**ZHE Cleaning Batch :** ~~N/A~~ 10

**Extraction By :** JP

**Initial Room Temperature:** 24 °C

**Filter By :** JP

**Final Room Temperature:** 22 °C

**Pippete ID :** WC

**TCLP Technician Signature :** JP

**Tumbler ID :** T-1

**Supervisor By :** JZ

**TCLP Filter ID :** 115525

| 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 | WP112804 |
| HCL-TCLP,1N | N/A | WP112797 |
| HNO3-TCLP,1N | N/A | WP112799 |
| pH Strips | N/A | W1931,W1934,W3171,W3172 |
| pH Strips | W1940,W1941,W1942 | W3166,W1938,W1939, |
| 1 Liter Amber | N/A | 90924-08 |
| 120ml Plastic bottle | N/A | 2738 |
| 1:1 HNO3 | N/A | MP84041 |

**Extraction Conformance/Non-Conformance Comments:**

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Particle size reduction is not required. Q2649-24 IS USED FOR MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 07/21/25 11:30 | JP ICP Room | SIS. RJ / EXT |
| | Preparation Group | Analysis Group INST DJ |

Alliance TECHNICAL GROUP

**TCLP EXTRACTION LOGPAGE**

PB168919

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168919TB | LEB919 | 10 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.0 | T-1 |
| Q2622-04 | 2819 | 01 | 100.01 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2641-02 | P001-CONCRETE001-01 | 02 | 100.02 | 2000 | N/A | N/A | N/A | 11.5 | 1.5 | T-1 |
| Q2645-03 | RW5B-CARBON-20250716 | 03 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2649-04 | WC-1 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.5 | 1.0 | T-1 |
| Q2649-08 | WC-2 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| Q2649-12 | WC-3 | 06 | 100.04 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2649-16 | WC-4 | 07 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.5 | T-1 |
| Q2649-20 | WC-5 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2649-24 | WC-6 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|---|---|---|---|---|---|---|---|
| PB168919TB | LEB919 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2622-04 | 2819 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2641-02 | P001-CONCRETE001-01 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2645-03 | RW5B-CARBON-20250716 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-04 | WC-1 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-08 | WC-2 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-12 | WC-3 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-16 | WC-4 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-20 | WC-5 | N/A | N/A | N/A | N/A | 100 | N/A |
| Q2649-24 | WC-6 | N/A | N/A | N/A | N/A | 100 | N/A |

Alliance TECHNICAL GROUP

**TCLP Fluid Determination**

PB168919

**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 |
|---|---|---|---|---|---|---|---|
| PB168919TB | LEB919 | N/A | N/A | N/A | N/A | #1 | 4.93 |
| Q2622-04 | 2819 | 5.02 | 96.5 | 6.2 | 2.0 | #1 | 4.93 |
| Q2641-02 | P001-CONCRETE001-01 | 5.01 | 96.5 | 12.0 | 4.5 | #1 | 4.93 |
| Q2645-03 | RW5B-CARBON-20250716 | 5.01 | 96.5 | 5.5 | 1.5 | #1 | 4.93 |
| Q2649-04 | WC-1 | 5.02 | 96.5 | 7.6 | 2.5 | #1 | 4.93 |
| Q2649-08 | WC-2 | 5.03 | 96.5 | 7.0 | 2.0 | #1 | 4.93 |
| Q2649-12 | WC-3 | 5.02 | 96.5 | 8.4 | 3.0 | #1 | 4.93 |
| Q2649-16 | WC-4 | 5.01 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |
| Q2649-20 | WC-5 | 5.02 | 96.5 | 6.6 | 2.0 | #1 | 4.93 |
| Q2649-24 | WC-6 | 5.03 | 96.5 | 6.0 | 2.0 | #1 | 4.93 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** tclp q2649 **WorkList ID :** 190827 **Department :** TCLP Extraction **Date :** 07-18-2025 15:01:16

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2622-04 | 2819 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/16/2025 | 1311 |
| Q2641-02 | P001-CONCRETE001-01 | Solid | TCLP Extraction | Cool 4 deg C | ROYF02 | O22 | 07/16/2025 | 1311 |
| Q2645-03 | RW5B-CARBON-20250716 | Solid | TCLP Extraction | Cool 4 deg C | TETR06 | O41 | 07/16/2025 | 1311 |
| Q2649-04 | WC-1 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |
| Q2649-08 | WC-2 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |
| Q2649-12 | WC-3 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |
| Q2649-16 | WC-4 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |
| Q2649-20 | WC-5 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |
| Q2649-24 | WC-6 | Solid | TCLP Extraction | Cool 4 deg C | PSEG03 | D41 | 07/18/2025 | 1311 |

**Date/Time** 07/18/26 1535
**Raw Sample Received by:** WC
**Raw Sample Relinquished by:** SM

**Date/Time** 07/18/26 18:00
**Raw Sample Received by:** SM
**Raw Sample Relinquished by:** WC

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB169001

**SOP ID:** M8151A-Herbicide-23

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3880

**Extraction By:** RS

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,5,7

**Extraction Start Date :** 07/23/2025

**Extraction Start Time :** 11:45

**Extraction End Date :** 07/24/2025

**Extraction End Time :** 12:10

**Concentration By:** EH

**Supervisor By :** RUPESH

**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 | PP24654 |
| Surrogate | 1.0ML | 5000 PPB | PP24737 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Ether | N/A | E3952 |
| Acidified Na2SO4 | N/A | EP2621 |
| NAOH 6N | N/A | EP2606 |
| 12N H2SO4 | N/A | EP2605 |
| NACL | N/A | M4459 |
| ISO OCTANE | N/A | E3554 |
| Diazomethane | N/A | EP2618 |
| Hexane | N/A | E3956 |
| METHANOL | N/A | V14622 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.Q2481 all samples used Limited volume as samples are not regular environmental samples its chemical treated samples.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 7/24/25 | RS (Ext Lab) | R. Post/PCB Lab |
| 12:15 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB169001**

**Analytical Method:** M8151A-Herbicide-23 **Concentration Date:** 07/24/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB168919TB | PB168919TB | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | | | SEP-1 |
| PB168926TB | PB168926TB | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | | | 2 |
| PB168953TB | PB168953TB | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | | | 3 |
| PB168969TB | PB168969TB | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | | | 4 |
| PB169001BL | HBLK001 | TCLP Herbicide | 1000 | 6 | RUPESH | ritesh | 10 | | | 5 |
| PB169001BS | HLCS001 | TCLP Herbicide | 1000 | 6 | RUPESH | ritesh | 10 | | | 6 |
| Q2481-12 | CC0627-AL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 7 |
| Q2481-13 | CC0627-CLOXPL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 8 |
| Q2481-14 | CC0625-OXBL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 9 |
| Q2481-15 | CC0627-AOXL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 10 |
| Q2481-16 | CC0625-NL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 11 |
| Q2481-17 | CC0267-OXPL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 12 |
| Q2481-18 | CC0627-OXL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 13 |
| Q2481-19 | CC0627-CLOXAL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 14 |
| Q2481-20 | CC0627-BL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 15 |
| Q2481-21 | CC0627-SFBL | TCLP Herbicide | 10 | 6 | RUPESH | ritesh | 10 | A | Chemical Treated | 16 |
| Q2641-02 | P001-CONCRETE001-01 | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | SEP-1 |
| Q2641-02MS | P001-CONCRETE001-01MS | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | 2 |
| Q2641-02MSD | P001-CONCRETE001-01MSD | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | 3 |
| Q2646-03 | FRAC TANK | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | 4 |
| Q2667-01 | C0AP2 | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | 5 |
| Q2667-02 | C0AP3 | TCLP Herbicide | 100 | 6 | RUPESH | ritesh | 10 | A | | 6 |

RS 7/24

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168969

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168969TB | LEB969 | N/A | N/A | N/A | N/A | N/A | N/A | 4.94 | N/A | N/A |
| Q2481-12 | CC0627-AL | N/A | N/A | N/A | N/A | N/A | N/A | 1.5 | N/A | N/A |
| Q2481-13 | CC0627-CLOXPL | N/A | N/A | N/A | N/A | N/A | N/A | 5.0 | N/A | N/A |
| Q2481-14 | CC0625-OXBL | N/A | N/A | N/A | N/A | N/A | N/A | 14.0 | N/A | N/A |
| Q2481-15 | CC0627-AOXL | N/A | N/A | N/A | N/A | N/A | N/A | 1.5 | N/A | N/A |
| Q2481-16 | CC0625-NL | N/A | N/A | N/A | N/A | N/A | N/A | 10.0 | N/A | N/A |
| Q2481-17 | CC0267-OXPL | N/A | N/A | N/A | N/A | N/A | N/A | 6.0 | N/A | N/A |
| Q2481-18 | CC0627-OXL | N/A | N/A | N/A | N/A | N/A | N/A | 6.0 | N/A | N/A |
| Q2481-19 | CC0627-CLOXAL | N/A | N/A | N/A | N/A | N/A | N/A | 5.0 | N/A | N/A |
| Q2481-20 | CC0627-BL | N/A | N/A | N/A | N/A | N/A | N/A | 14.0 | N/A | N/A |
| Q2481-21 | CC0627-SFBL | N/A | N/A | N/A | N/A | N/A | N/A | 14.0 | N/A | N/A |

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Alliance TECHNICAL GROUP

## TCLP EXTRACTION LOGPAGE

PB168953

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168953TB | LEB953 | 11 | N/A | 2000 | N/A | N/A | N/A | 4.94 | 1.0 | T-2 |
| Q2655-02 | SOIL | 01 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.5 | T-1 |
| Q2660-02 | MOO-25-0205 | 02 | 100.02 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| Q2660-04 | MOO-25-0218 | 03 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| Q2667-01 | C0AP2 | 04 | 100.01 | 2000 | N/A | N/A | N/A | 6.0 | 1.0 | T-1 |
| Q2667-02 | C0AP3 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 5.0 | 1.5 | T-1 |
| Q2668-04 | TP-2 | 06 | 100.03 | 2000 | N/A | N/A | N/A | 5.8 | 1.0 | T-1 |
| Q2668-08 | TP-3 | 07 | 100.02 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| Q2668-12 | TP-1 | 08 | 100.03 | 2000 | N/A | N/A | N/A | 6.2 | 1.0 | T-1 |
| Q2672-02 | AUD-25-0123-0127 | 09 | 100.02 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| Q2672-04 | AUD-25-0128-0132 | 10 | 100.03 | 2000 | N/A | N/A | N/A | 7.0 | 1.5 | T-1 |

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**TCLP EXTRACTION LOGPAGE**

PB168926

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168926TB | LEB926 | N/A | N/A | N/A | N/A | N/A | N/A | 4.93 | 1.5 | N/A |
| Q2646-03 | FRAC TANK | N/A | N/A | N/A | N/A | N/A | N/A | 4.5 | 1.0 | N/A |

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## TCLP EXTRACTION LOGPAGE

PB168919

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PB168919TB | LEB919 | 10 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.0 | T-1 |
| Q2622-04 | 2819 | 01 | 100.01 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2641-02 | P001-CONCRETE001-01 | 02 | 100.02 | 2000 | N/A | N/A | N/A | 11.5 | 1.5 | T-1 |
| Q2645-03 | RW5B-CARBON-20250716 | 03 | 100.03 | 2000 | N/A | N/A | N/A | 3.0 | 1.5 | T-1 |
| Q2649-04 | WC-1 | 04 | 100.02 | 2000 | N/A | N/A | N/A | 5.5 | 1.0 | T-1 |
| Q2649-08 | WC-2 | 05 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| Q2649-12 | WC-3 | 06 | 100.04 | 2000 | N/A | N/A | N/A | 7.0 | 1.0 | T-1 |
| Q2649-16 | WC-4 | 07 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.5 | T-1 |
| Q2649-20 | WC-5 | 08 | 100.02 | 2000 | N/A | N/A | N/A | 3.5 | 1.0 | T-1 |
| Q2649-24 | WC-6 | 09 | 100.03 | 2000 | N/A | N/A | N/A | 4.0 | 1.5 | T-1 |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q2641

**Test :** TCLP Herbicide

**Prepbatch ID :** PB169001,

**Sequence ID/Qc Batch ID:** PS072425,

**Standard ID :**
EP2605,EP2606,EP2621,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,PP24654,PP24737,

**Chemical ID :**
E3551,E3657,E3881,E3933,E3940,E3952,E3956,M4459,M6041,M6157,P11183,P12620,P12630,P12689,P12710,P13543,P13544,P13545,P13546,P13971,P13977,P14064,P14065,P14066,P8829,W3112,

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# Extractions STANDARD PREPARATION LOG

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

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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3884 | 6 N NAOH | EP2606 | 04/21/2025 | 10/21/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 04/21/2025 |

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

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 601 | Acidified Sodium Sulphate 2 | EP2621 | 06/03/2025 | 08/14/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 06/03/2025 |

**FROM** 100.00000ml of E3881 + 150.00000ml of M6157 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1321 | 2/200 PPM Herb Mega Mix | PP24553 | 05/12/2025 | 11/05/2025 | Abdul Mirza | None | None | Yogesh Patel 05/22/2025 |

**FROM** 0.20000ml of P8829 + 1.00000ml of P11183 + 1.00000ml of P12620 + 1.00000ml of P12630 + 1.00000ml of P12689 + 95.80000ml of E3933 = Final Quantity: 100.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

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# Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

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# 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 | PP24559 | 05/12/2025 | 11/05/2025 | Abdul Mirza | None | None | Yogesh Patel 05/22/2025 |

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

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

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

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# Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1848 | 5000/500000 PPB Herbicide Spike (Free Acid) | PP24654 | 06/18/2025 | 12/11/2025 | Abdul Mirza | None | None | Yogesh Patel 07/23/2025 |

**FROM** 1.25000ml of P13543 + 1.25000ml of P13544 + 1.25000ml of P13545 + 1.25000ml of P13546 + 95.00000ml of E3940 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 60 | 5000 PPB Herbicide Surg Spike (Free Acid) | PP24737 | 07/18/2025 | 01/18/2026 | Abdul Mirza | None | None | Yogesh Patel 07/21/2025 |

**FROM** 1.25000ml of P13977 + 1.25000ml of P14064 + 1.25000ml of P14065 + 1.25000ml of P14066 + 195.00000ml of E3956 = Final Quantity: 200.000 ml

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# CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25C0362005 | 04/30/2026 | 07/16/2025 / RUPESH | 07/16/2025 / RUPESH | E3956 |

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

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

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

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

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

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# CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

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# CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

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

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 | 32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane | A0221255 | 11/12/2025 | 05/12/2025 / Abdul | 04/02/2025 / Abdul | P13971 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane | A0221255 | 01/18/2026 | 07/18/2025 / Abdul | 04/02/2025 / Abdul | P13977 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane | A0221255 | 01/18/2026 | 07/18/2025 / Abdul | 06/23/2025 / anahy | P14064 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane | A0221255 | 01/18/2026 | 07/18/2025 / Abdul | 06/23/2025 / anahy | P14065 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane | A0221255 | 01/18/2026 | 07/18/2025 / Abdul | 06/23/2025 / anahy | P14066 |

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

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 | 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

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

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

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.

RG-02-01, Ed. 3

Recd. by RI 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 |

# Certificate of Analysis

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

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

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

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

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

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

E 3881

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

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

avantor™ | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated $C_6$ Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | >= 95 % | 100 % |
| Color (APHA) | <= 10 | 10 |
| 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3933

Jamie Croak
Director Quality Operations, Bioscience Production

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

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 6/11/25

E3940

JCroak
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

ThermoFisher SCIENTIFIC

Fisher Scientific UK Ltd.
755 US Highway
Bridgewater,
NJ 08807 202, United States of America

# CERTIFICATE OF ANALYSIS

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

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

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

Matthew Micek
QC Supervisior

received on 7/9/25

E3952

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

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

avantor™ | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated $C_6$ Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | >= 95 % | 100 % |
| Color (APHA) | <= 10 | 10 |
| 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recieved on 7/16/25

E3956

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

M 6041-46
MS

avantor™ | J.T.Baker®

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

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm |
| Ammonium ($NH_4$) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate ($NO_3$) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate ($PO_4$) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

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

For Laboratory,Research,or Manufacturing Use

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

M615 MB

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.2 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | <= 10 | 5 |
| ACS – Residue after Ignition | <= 3 ppm | <1 ppm |
| ACS – Substances Reducing Permanganate(as SO2) | <= 2 ppm | <2 ppm |
| Ammonium ($NH_4$) | <= 1 ppm | <1 ppm |
| Chloride (Cl) | <= 0.1 ppm | <0.1 ppm |
| Nitrate ($NO_3$) | <= 0.2 ppm | 0.1 ppm |
| Phosphate ($PO_4$) | <= 0.5 ppm | <0.1 ppm |
| Trace Impurities – Aluminum (Al) | <= 30.0 ppb | <5.0 ppb |
| Arsenic & Antimony (as As) | <= 4.0 ppb | <2.0 ppb |
| Trace Impurities – Boron (B) | <= 10.0 ppb | <5.0 ppb |
| Trace Impurities – Cadmium (Cd) | <= 2.0 ppb | <1.0 ppb |
| Trace Impurities – Chromium (Cr) | <= 6.0 ppb | <1.0 ppb |
| Trace Impurities – Cobalt (Co) | <= 0.5 ppb | <0.3 ppb |
| Trace Impurities – Copper (Cu) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities – Gold (Au) | <= 10.0 ppb | <5.0 ppb |
| Heavy Metals (as Pb) | <= 500.0 ppb | <100.0 ppb |
| Trace Impurities – Iron (Fe) | <= 50.0 ppb | <1.0 ppb |
| Trace Impurities – Lead (Pb) | <= 0.5 ppb | <0.5 ppb |
| Trace Impurities – Magnesium (Mg) | <= 7.0 ppb | <1.0 ppb |
| Trace Impurities – Manganese (Mn) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities – Mercury (Hg) | <= 0.5 ppb | <0.1 ppb |
| Trace Impurities – Nickel (Ni) | <= 2.0 ppb | <0.3 ppb |
| Trace Impurities – Potassium (K) | <= 500.0 ppb | <10.0 ppb |
| Trace Impurities – Selenium (Se) | <= 50.0 ppb | 7.2 ppb |
| Trace Impurities – Silicon (Si) | <= 100.0 ppb | 12.8 ppb |
| Trace Impurities – Silver (Ag) | <= 1.0 ppb | <1.0 ppb |

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

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

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

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

For Laboratory,Research,or Manufacturing Use

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

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1212

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

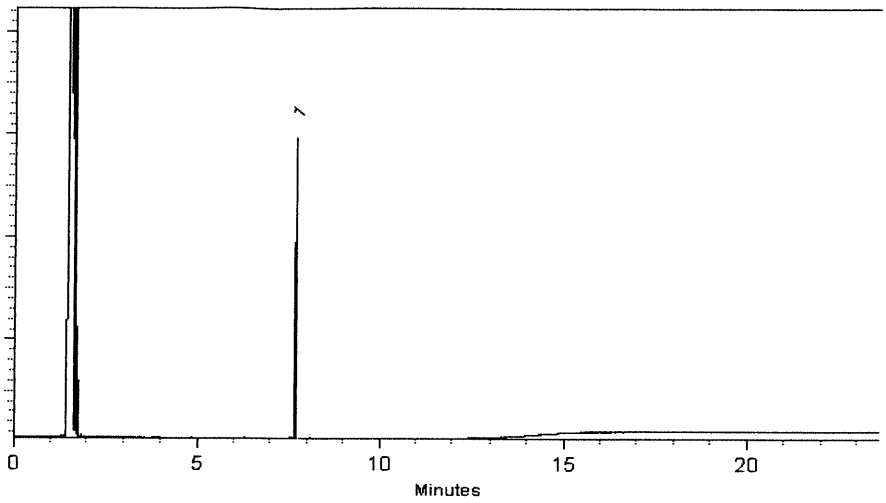
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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 111177 to P 111186

AR 11/02/21

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# 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

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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

A2LA 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<br>**CAS #** 2905-67-1 (Lot 3903900)<br>**Purity** 99% | 200.0 µg/mL | +/- 1.4182 µg/mL<br>+/- 6.7507 µg/mL<br>+/- 6.7507 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 4-Nitroanisole<br>**CAS #** 100-17-4 (Lot 24765/7)<br>**Purity** 99% | 200.0 µg/mL | +/- 1.4182 µg/mL<br>+/- 6.7507 µg/mL<br>+/- 6.7507 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | Pentachloroanisole<br>**CAS #** 1825-21-4 (Lot 7921100)<br>**Purity** 99% | 200.0 µg/mL | +/- 1.4182 µg/mL<br>+/- 6.7507 µg/mL<br>+/- 6.7507 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4 | Chloramben methyl ester<br>**CAS #** 7286-84-2 (Lot 6487100)<br>**Purity** 98% | 199.9 µg/mL | +/- 1.4176 µg/mL<br>+/- 6.7480 µg/mL<br>+/- 6.7480 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 5 | Bentazon methyl ester<br>**CAS #** 61592-45-8 (Lot 817100)<br>**Purity** 99% | 200.0 µg/mL | +/- 1.4182 µg/mL<br>+/- 6.7507 µg/mL<br>+/- 6.7507 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 6 | Picloram methyl ester<br>**CAS #** 14143-55-6 (Lot 386-21B)<br>**Purity** 98% | 201.9 µg/mL | +/- 1.4315 µg/mL<br>+/- 6.8141 µg/mL<br>+/- 6.8141 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 7 | DCPA methyl ester (Chlorthal-dimethyl)<br>**CAS #** 1861-32-1 (Lot 8008700)<br>**Purity** 99% | 200.0 µg/mL | +/- 1.4182 µg/mL<br>+/- 6.7507 µg/mL<br>+/- 6.7507 µg/mL | Gravimetric<br>Unstressed<br>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)

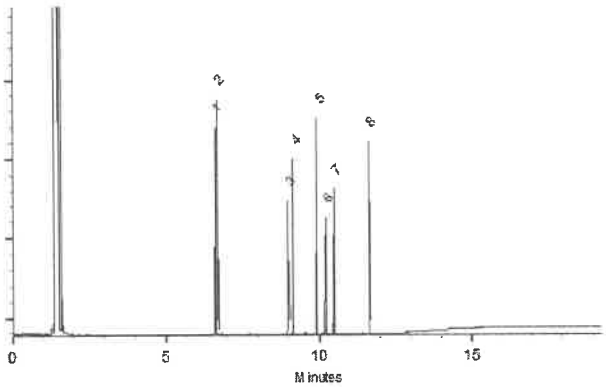
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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**

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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 (5) thru P12630

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.)

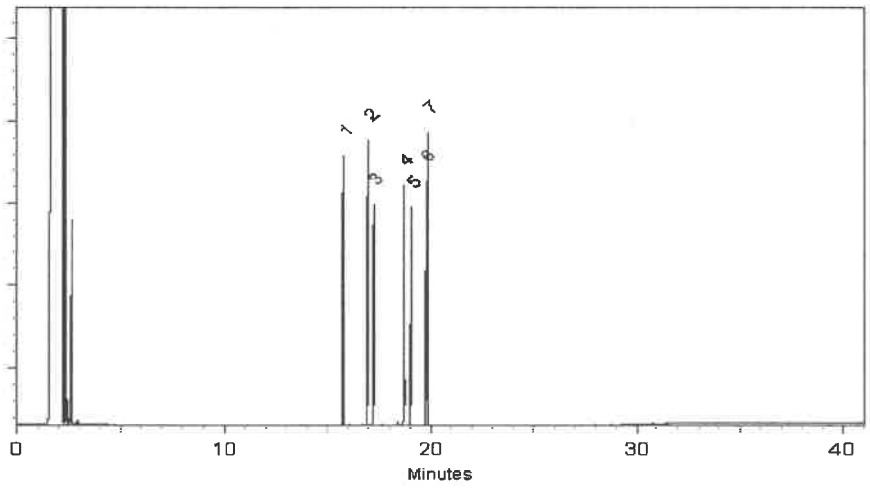
**Inj. Temp:**
250°C

**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**

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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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.)

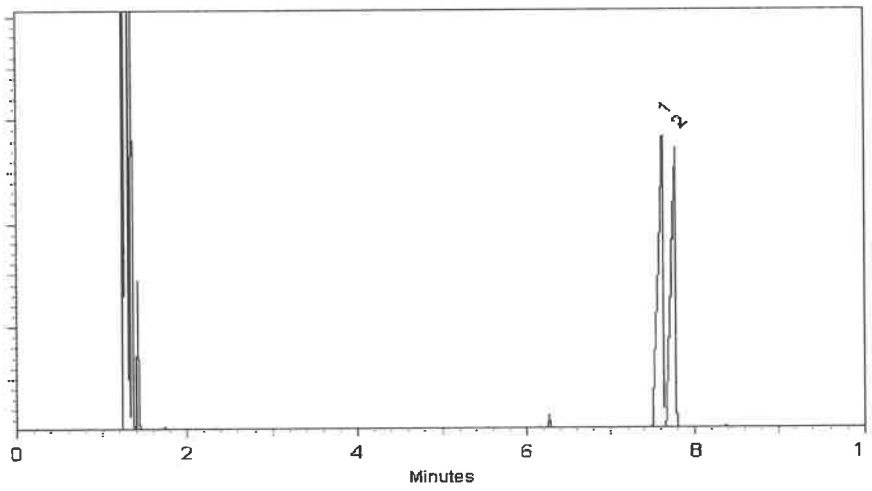
**Inj. Temp:**
250°C

**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**

Agilent

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P12706 ↓ P12715 (10)

ISO 17034

# 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.



CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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**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

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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

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ISO 17034

# Reference Material Certificate

## Product Information Sheet

| | | | |
|---|---|---|---|
| **Product Name:** | Chlorinated Herbicides Standard | **Lot Number:** | 0006810955 |
| **Product Number:** | HBM-8151A-1 | **Lot Issue Date:** | 20-Aug-2024 |
| **Storage Conditions:** | Store at Room Temperature (15° to 30°C). | **Expiration Date:** | 30-Sep-2026 |

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

**Matrix:** methanol (methyl alcohol)

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

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

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

P13541 ↓ P13561 (20)



CSD-QA-015.2

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

9/25/2024

Agilent

Trusted Answers

**ISO 17034**

# Reference Material Certificate

## Product Information Sheet

| | | | |
|---|---|---|---|
| **Product Name:** | Chlorinated Herbicides Standard | **Lot Number:** | 0006810955 |
| **Product Number:** | HBM-8151A-1 | **Lot Issue Date:** | 20-Aug-2024 |
| **Storage Conditions:** | Store at Room Temperature (15° to 30°C). | **Expiration Date:** | 30-Sep-2026 |

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

**Matrix:** methanol (methyl alcohol)

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

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

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

P13541 ↓ P13561 (20)



CSD-QA-015.2

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

9/25/2024

Agilent
Trusted Answers

ISO 17034

# Reference Material Certificate

## Product Information Sheet

| | | | |
|---|---|---|---|
| **Product Name:** | Chlorinated Herbicides Standard | **Lot Number:** | 0006810955 |
| **Product Number:** | HBM-8151A-1 | **Lot Issue Date:** | 20-Aug-2024 |
| **Storage Conditions:** | Store at Room Temperature (15° to 30°C). | **Expiration Date:** | 30-Sep-2026 |

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

**Matrix:** methanol (methyl alcohol)

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

**Traceability:**
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**Homogeneity:**
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P13541 ↓ P13561 (20)



CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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9/25/2024

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

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

**Matrix:** methanol (methyl alcohol)

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

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P13541 ↓ P13561 (20)



CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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9/25/2024

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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.*

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

**Description :** 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

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

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

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

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

CERTIFIED VALUES

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

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

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

13968 → 13977 (10)

4/16/2025

# Quality Confirmation Test

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

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

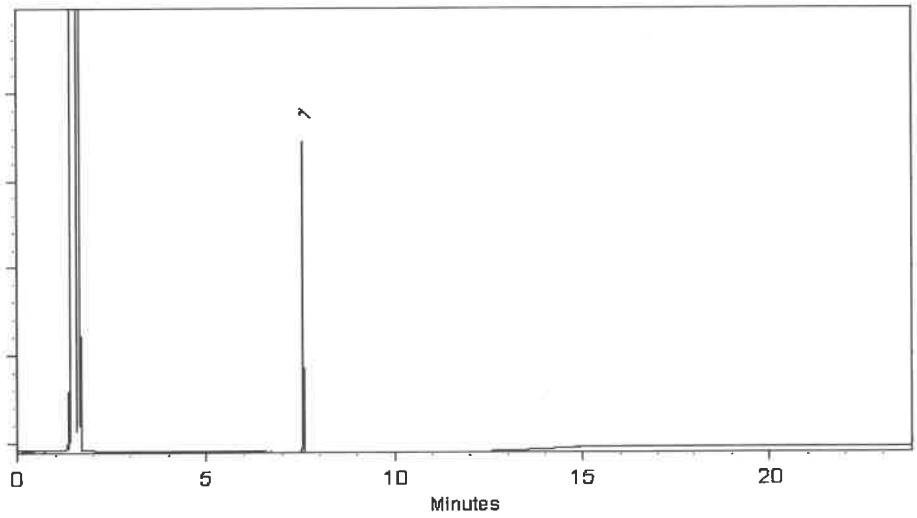
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




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

Ethan Winiarski - Operations Tech I

**Date Mixed:** 20-Jan-2025 **Balance Serial #** B345965662

Brittany Federinko - Operations Tech I

**Date Passed:** 22-Jan-2025

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

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

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

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

CERTIFIED VALUES

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

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

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

13968 → 13977 (10)

4/16/2025

# Quality Confirmation Test

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

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

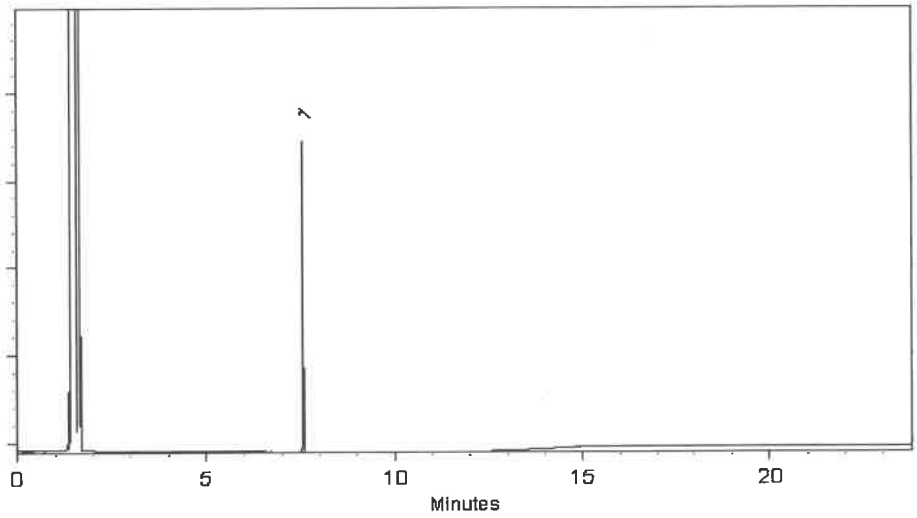
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




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

Ethan Winiarski - Operations Tech I

**Date Mixed:** 20-Jan-2025 **Balance Serial #** B345965662

Brittany Federinko - Operations Tech I

**Date Passed:** 22-Jan-2025

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

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

**Description :** 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

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

P14064 ↓ P14078 AC 6/23/25

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

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

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

**CERTIFIED VALUES**

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

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

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

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Tel: 1-814-353-1300
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***chromatographic plus***

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P14064 ↓ P14078 AC 6/23/25

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

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

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

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

**Description :** 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

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

P14064 ↓ P14078 AC 6/23/25

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

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

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

**CERTIFIED VALUES**

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

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

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

RESTEK
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Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Received by SG on 8/16/19
P88828
P88826

**Catalog No. :** 32254 **Lot No.:** A0148063

**Description :** Dalapon methyl ester Standard

Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul

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

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

**Handling:** This product is photosensitive.

### CERTIFIED VALUES

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

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

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

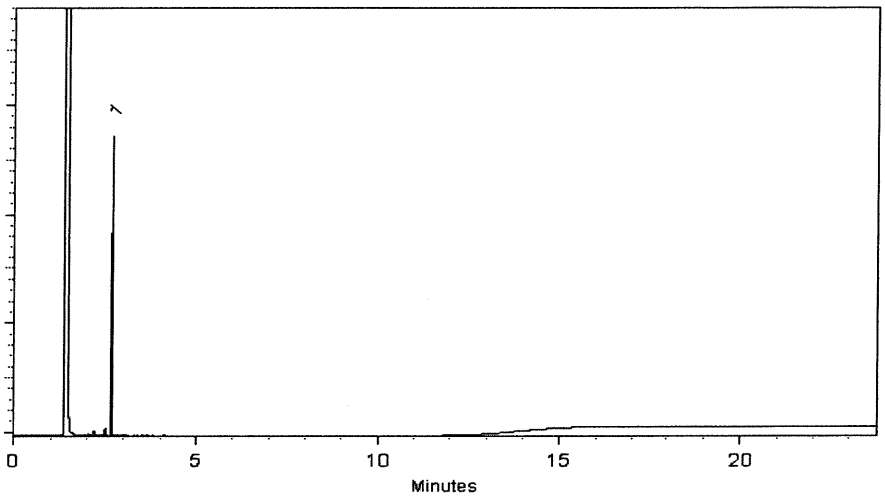
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




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

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Apr-2019 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

**Date Passed:** 15-Apr-2019

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

# SHIPPING DOCUMENTS

Q 2641

**USEPA**

DateShipped: 7/17/2025

CarrierName: FedEx

AirbillNo: 882857171649

**CHAIN OF CUSTODY RECORD**

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

**No: 2-071725-0040-0037-001**

RFP #905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

| Lab # | Sample # | Location | CLP Sample # | Tag | Analyses | Matrix | Sample Date | Sample Time | Numb Cont | Container | Preservative | Lab QC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P001-Concrete001-01 | P001-Concrete001-01 | | A | TAL PCBs (TAT 7 Days) | | 7/16/2025 | 13:00 | 1 | 8 oz. Glass | 4 C | N |
| | P001-Concrete001-01 | P001-Concrete001-01 | | B | TCLP VOCs (TAT 7 Days) | | 7/16/2025 | 13:00 | 2 | 4 oz glass w/septum | 4 C | N |
| | P001-Concrete001-01 | P001-Concrete001-01 | | C | TCLP RCRA 8 Metals (TAT 7 Days) | | 7/16/2025 | 13:00 | 1 | 8 oz. Glass | 4 C | N |
| | P001-Concrete001-01 | P001-Concrete001-01 | | D | TCLP Pesticides (TAT 7 Days) | | 7/16/2025 | 13:00 | 1 | 8 oz. Glass | 4 C | N |
| | P001-Concrete001-01 | P001-Concrete001-01 | | E | TCLP SVOCs (TAT 7 Days) | | 7/16/2025 | 13:00 | 1 | 8 oz. Glass | 4 C | N |
| | P001-Concrete001-01 | P001-Concrete001-01 | | F | TCLP Herbicides (TAT 7 Days) | | 7/16/2025 | 13:00 | 1 | 8 oz. Glass | 4 C | N |

Special Instructions: TAT 7 days preliminary, 14 days final report. Please copy s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| All Samples/ All Analyses | Weston | 7-17-2025/1400 | | 9:55 7/18/25 | Ice Chest # 1 1.9°C |
| | | | | | |
| | | | | | |

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 |