

## **DATA PACKAGE**

### **SUB - DATA**

**PROJECT NAME : CTO WE13**

**TETRA TECH NUS, INC.**

**661 Andersen Drive**

**Suite 200**

**Pittsburgh, PA - 15220-2745**

**Phone No: 412-921-7090**

**ORDER ID : P4441**

**ATTENTION : Ernie Wu**



## Cover Page

**Order ID :** P4441

**Project ID :** CTO WE13

**Client :** Tetra Tech NUS, Inc.

**Lab Sample Number**

P4441-01

**Client Sample Number**

BPOW6-11-HYD-20241016

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 :

N. N. Pandya

**APPROVED**

Nimisha Pandya QA/QC Supervisor Pandya , 11/1/2024, 8:25:01 AM

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Yazmeen Gomez  
Chemtech Consulting Group Inc.  
284 Sheffield Street  
Mountainside NJ 07092  
Generated 10/29/2024 8:42 AM

## JOB DESCRIPTION

1,4 Dioxane

## JOB NUMBER

810-125238-1

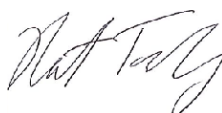
# Eurofins Eaton Analytical South Bend

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

## Authorization



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Authorized for release by  
Nathan Trowbridge, Manager of Project Management  
[Nathan.Trowbridge@et.eurofinsus.com](mailto:Nathan.Trowbridge@et.eurofinsus.com)  
574 233-4777

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# Definitions/Glossary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

**Job Narrative**  
**810-125238-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The sample was received on 10/22/2024 9:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

**GC/MS Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

Client Sample ID: BPOW6-11HYD-20241016

Lab Sample ID: 810-125238-1

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

Client Sample ID: BPOW6-11HYD-20241016  
Date Collected: 10/16/24 10:00  
Date Received: 10/22/24 09:15

Lab Sample ID: 810-125238-1  
Matrix: Drinking Water

Method: EPA 522 - 1,4 Dioxane (GC/MS SIM)

| Analyte     | Result | Qualifier | RL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane | <0.070 |           | 0.070 | ug/L |   | 10/24/24 06:46 | 10/26/24 00:03 | 1       |

| Surrogate             | %Recovery | Qualifier | Limits   |  |  | Prepared       | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|--|--|----------------|----------------|---------|
| 1,4-Dioxane-d8 (Surr) | 93        |           | 70 - 130 |  |  | 10/24/24 06:46 | 10/26/24 00:03 | 1       |

Default Detection Limits

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Prep: 522

| Analyte     | RL    |       | Units |
|-------------|-------|-------|-------|
| 1,4-Dioxane | 0.070 | 0.062 | ug/L  |

Surrogate Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)  
Matrix: Drinking Water

Prep Type: Total/NA

|                             |                      | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |  |  |
|-----------------------------|----------------------|------------------------------------------------|--|--|--|--|--|
| Lab Sample ID               | Client Sample ID     | DXE<br>(70-130)                                |  |  |  |  |  |
| 810-125238-1                | BPOW6-11HYD-20241016 | 93                                             |  |  |  |  |  |
| LCS 810-120092/3-A          | Lab Control Sample   | 90                                             |  |  |  |  |  |
| LLCS 810-120092/2-A         | Lab Control Sample   | 89                                             |  |  |  |  |  |
| MBL 810-120092/1-A          | Method Blank         | 92                                             |  |  |  |  |  |
| Surrogate Legend            |                      |                                                |  |  |  |  |  |
| DXE = 1,4-Dioxane-d8 (Surr) |                      |                                                |  |  |  |  |  |

# QC Sample Results

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

## Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MBL 810-120092/1-A  
Matrix: Drinking Water  
Analysis Batch: 120316

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120092

| Analyte               | MBL<br>Result    | MBL<br>Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|------------------|------------------|----------|------|---|----------------|----------------|---------|
| 1,4-Dioxane           | <0.062           |                  | 0.070    | ug/L |   | 10/24/24 06:46 | 10/25/24 14:59 | 1       |
| Surrogate             | MBL<br>%Recovery | MBL<br>Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8 (Surr) | 92               |                  | 70 - 130 |      |   | 10/24/24 06:46 | 10/25/24 14:59 | 1       |

Lab Sample ID: LCS 810-120092/3-A  
Matrix: Drinking Water  
Analysis Batch: 120316

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120092

| Analyte               | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|-----------------------|------------------|------------------|------------------|------|---|------|----------------|
| 1,4-Dioxane           | 10.0             | 9.31             |                  | ug/L |   | 93   | 70 - 130       |
| Surrogate             | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |      |   |      |                |
| 1,4-Dioxane-d8 (Surr) | 90               |                  | 70 - 130         |      |   |      |                |

Lab Sample ID: LLCS 810-120092/2-A  
Matrix: Drinking Water  
Analysis Batch: 120316

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120092

| Analyte               | Spike<br>Added    | LLCS<br>Result    | LLCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|-----------------------|-------------------|-------------------|-------------------|------|---|------|----------------|
| 1,4-Dioxane           | 0.0700            | 0.0717            |                   | ug/L |   | 102  | 50 - 150       |
| Surrogate             | LLCS<br>%Recovery | LLCS<br>Qualifier | Limits            |      |   |      |                |
| 1,4-Dioxane-d8 (Surr) | 89                |                   | 70 - 130          |      |   |      |                |

## QC Association Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

### GC/MS Semi VOA

#### Prep Batch: 120092

| Lab Sample ID       | Client Sample ID     | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|----------------------|-----------|----------------|--------|------------|
| 810-125238-1        | BPOW6-11HYD-20241016 | Total/NA  | Drinking Water | 522    |            |
| MBL 810-120092/1-A  | Method Blank         | Total/NA  | Drinking Water | 522    |            |
| LCS 810-120092/3-A  | Lab Control Sample   | Total/NA  | Drinking Water | 522    |            |
| LLCS 810-120092/2-A | Lab Control Sample   | Total/NA  | Drinking Water | 522    |            |

#### Analysis Batch: 120316

| Lab Sample ID       | Client Sample ID     | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|----------------------|-----------|----------------|--------|------------|
| 810-125238-1        | BPOW6-11HYD-20241016 | Total/NA  | Drinking Water | 522    | 120092     |
| MBL 810-120092/1-A  | Method Blank         | Total/NA  | Drinking Water | 522    | 120092     |
| LCS 810-120092/3-A  | Lab Control Sample   | Total/NA  | Drinking Water | 522    | 120092     |
| LLCS 810-120092/2-A | Lab Control Sample   | Total/NA  | Drinking Water | 522    | 120092     |

Lab Chronicle

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

Client Sample ID: BPOW6-11HYD-20241016  
Date Collected: 10/16/24 10:00  
Date Received: 10/22/24 09:15

Lab Sample ID: 810-125238-1  
Matrix: Drinking Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab   | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-------|----------------------|
| Total/NA  | Prep       | 522          |     |                 | 120092       | AM      | EA SB | 10/24/24 06:46       |
| Total/NA  | Analysis   | 522          |     | 1               | 120316       | KO      | EA SB | 10/26/24 00:03       |

Laboratory References:  
EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

# Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

## Laboratory: Eurofins Eaton Analytical South Bend

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program       | Identification Number | Expiration Date |
|-----------------------------------|---------------|-----------------------|-----------------|
| A2LA                              | ISO/IEC 17025 | 5794.01               | 07-31-26        |
| Alabama                           | State         | 40700                 | 06-30-25        |
| Alaska                            | State         | IN00035               | 06-30-25        |
| Arizona                           | State         | AZ0432                | 07-26-25        |
| Arkansas (DW)                     | State         | EPA IN00035           | 06-30-25        |
| California                        | State         | 2920                  | 06-30-25        |
| Colorado                          | State         | IN00035               | 02-28-25        |
| Connecticut                       | State         | PH-0132               | 03-31-26        |
| Delaware (DW)                     | State         | IN00035               | 06-30-25        |
| Florida                           | NELAP         | E87775                | 06-30-25        |
| Georgia (DW)                      | State         | 929                   | 06-30-25        |
| Guam                              | State         | 23-011R               | 07-15-25        |
| Hawaii                            | State         | IN035                 | 06-30-25        |
| Idaho (DW)                        | State         | IN00035               | 12-31-24        |
| IL Dept. of Public Health (Micro) | State         | 17767                 | 06-30-25        |
| Illinois                          | NELAP         | 200001                | 09-30-25        |
| Indiana                           | State         | C-71-01               | 12-31-25        |
| Indiana (Micro)                   | State         | M-76-07               | 12-31-25        |
| Iowa                              | State         | IA Lab #098           | 11-01-25        |
| Kansas                            | NELAP         | E-10233               | 10-31-24        |
| Kentucky (DW)                     | State         | KY90056               | 12-31-24        |
| Louisiana (DW)                    | State         | LA014                 | 12-31-24        |
| Maine                             | State         | IN00035               | 05-01-25        |
| Maryland                          | State         | 209                   | 06-30-25        |
| Massachusetts                     | State         | M-IN035               | 06-30-25        |
| MI - RadChem Recognition          | State         | 9926                  | 03-22-25        |
| Michigan                          | State         | 9926                  | 03-22-25        |
| Minnesota                         | NELAP         | 1989807               | 12-31-24        |
| Mississippi                       | State         | IN00035               | 06-30-25        |
| Missouri                          | State         | 880                   | 09-30-27        |
| Montana (DW)                      | State         | CERT0026              | 01-01-25        |
| Nebraska                          | State         | NE-OS-05-04           | 06-30-25        |
| Nevada                            | State         | IN000352024-01        | 07-31-25        |
| New Hampshire                     | NELAP         | 2124                  | 11-05-24        |
| New Jersey                        | NELAP         | IN598                 | 06-30-25        |
| New Mexico                        | State         | IN00035               | 06-30-25        |
| New York                          | NELAP         | 11398                 | 04-01-25        |

Eurofins Eaton Analytical South Bend

## Accreditation/Certification Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

### Laboratory: Eurofins Eaton Analytical South Bend (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                     | Program             | Identification Number | Expiration Date |
|-------------------------------|---------------------|-----------------------|-----------------|
| North Carolina (DW)           | State               | 18700                 | 07-31-25        |
| North Dakota                  | State               | R-035                 | 06-30-24 *      |
| Northern Mariana Islands (DW) | State               | IN00035               | 06-30-25        |
| Ohio                          | State               | 87775                 | 06-30-25        |
| Oklahoma                      | NELAP               | D9508                 | 12-31-24        |
| Oregon                        | NELAP               | 4156                  | 09-16-25        |
| Pennsylvania                  | NELAP               | 68-00466              | 04-30-25        |
| Puerto Rico                   | State               | IN00035               | 04-01-25        |
| Rhode Island                  | State               | LAO00343              | 12-30-24        |
| South Carolina                | State               | 95005001              | 06-30-24 *      |
| South Dakota (DW)             | State               | IN00035               | 06-30-25        |
| Tennessee                     | State               | TN02973               | 06-30-25        |
| Texas                         | NELAP               | T104704187-22-16      | 12-31-24        |
| Texas                         | TCEQ Water Supply   | TX207                 | 06-30-25        |
| USEPA UCMR 5                  | US Federal Programs | IN00035               | 12-31-25        |
| Utah                          | NELAP               | IN00035               | 07-31-25        |
| Vermont                       | State               | VT-8775               | 11-15-24        |
| Virginia                      | NELAP               | 460275                | 03-14-25        |
| Washington                    | State               | C837                  | 01-01-25        |
| West Virginia (DW)            | State               | 9927 C                | 01-31-25        |
| Wisconsin                     | State               | 999766900             | 08-31-25        |
| Wisconsin (Micro)             | State               | 10121                 | 12-31-24        |
| Wyoming                       | State               | 8TMS-L                | 06-30-25        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical South Bend

## Method Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

| Method | Method Description           | Protocol | Laboratory |
|--------|------------------------------|----------|------------|
| 522    | 1,4 Dioxane (GC/MS SIM)      | EPA      | EA SB      |
| 522    | Solid-Phase Extraction (SPE) | EPA      | EA SB      |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

# Sample Summary

Client: Chemtech Consulting Group Inc.  
Project/Site: 1,4 Dioxane

Job ID: 810-125238-1

---

| Lab Sample ID | Client Sample ID     | Matrix         | Collected      | Received       |
|---------------|----------------------|----------------|----------------|----------------|
| 810-125238-1  | BPOW6-11HYD-20241016 | Drinking Water | 10/16/24 10:00 | 10/22/24 09:15 |

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1  
SDG No.: \_\_\_\_\_  
Instrument ID: GCMS-DM Analysis Batch Number: 120316  
Lab Sample ID: MBL 810-120092/1-A Client Sample ID: \_\_\_\_\_  
Date Analyzed: 10/25/24 14:59 Lab File ID: MBL.D GC Column: CPSelect 624 ID: 0.25 (mm)

| COMPOUND NAME | RETENTION<br>TIME | MANUAL INTEGRATION  |         |                |
|---------------|-------------------|---------------------|---------|----------------|
|               |                   | REASON              | ANALYST | DATE           |
| 1,4-Dioxane   |                   | Invalid Compound ID | JH8B    | 10/28/24 09:26 |

# REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

| Reagent ID                 | Exp Date | Prep Date                           | Dilutant Used            | Reagent Final Volume | Parent Reagent      |              | Analyte               | Concentration |
|----------------------------|----------|-------------------------------------|--------------------------|----------------------|---------------------|--------------|-----------------------|---------------|
|                            |          |                                     |                          |                      | Reagent ID          | Volume Added |                       |               |
| <b>522 IS SS 00214</b>     | 11/01/24 | 10/18/24                            | MeCl2, Lot EF755-US      | 2 mL                 | 522 IS Stock 00029  | 200 uL       | Tetrahydrofuran-d8    | 100 ug/mL     |
| .522 IS Stock 00029        | 03/17/28 | 10/11/24                            | Methanol, Lot na         | 1 mL                 | 522-IS-Stock_00008  | 1 mL         | Tetrahydrofuran-d8    | 1000 ug/mL    |
| ..522-IS-Stock_00008       | 10/25/28 | Absolute Standards Inc., Lot 102523 |                          |                      | (Purchased Reagent) |              | Tetrahydrofuran-d8    | 1000 ug/mL    |
| <b>522 IS SS 00215</b>     | 11/07/24 | 10/24/24                            | MeCl2, Lot EF755-US      | 2 mL                 | 522 IS Stock 00029  | 200 uL       | Tetrahydrofuran-d8    | 100 ug/mL     |
| .522 IS Stock 00029        | 03/17/28 | 10/11/24                            | Methanol, Lot na         | 1 mL                 | 522-IS-Stock_00008  | 1 mL         | Tetrahydrofuran-d8    | 1000 ug/mL    |
| ..522-IS-Stock_00008       | 10/25/28 | Absolute Standards Inc., Lot 102523 |                          |                      | (Purchased Reagent) |              | Tetrahydrofuran-d8    | 1000 ug/mL    |
| <b>522-Sur-SS_00113</b>    | 04/22/25 | 10/22/24                            | Methanol, Lot 24G0262002 | 2 mL                 | 522-SUR-Stock_00020 | 100 uL       | 1,4-Dioxane-d8 (Surr) | 100 ug/mL     |
| .522-SUR-Stock_00020       | 02/28/26 | 06/27/24                            |                          | 1 mL                 | 522-SUR-Stock_00011 | 1 mL         | 1,4-Dioxane-d8 (Surr) | 2000 ug/mL    |
| ..522-SUR-Stock_00011      | 02/28/26 | Restek, Lot A0195206                |                          |                      | (Purchased Reagent) |              | 1,4-Dioxane-d8 (Surr) | 2000 ug/mL    |
| <b>O-522 CalM_00015</b>    | 04/22/25 | 10/22/24                            | Methanol, Lot 24G0262002 | 2 mL                 | 522 AnalyteST_00003 | 10 uL        | 1,4-Dioxane           | 10 ug/mL      |
| .522 AnalyteST_00003       | 05/31/26 | 10/22/24                            | Methanol, Lot na         | 1 mL                 | 522-Analyte_00003   | 1 mL         | 1,4-Dioxane           | 2000 ug/mL    |
| ..522-Analyte_00003        | 05/31/26 | Restek, Lot A0172836                |                          |                      | (Purchased Reagent) |              | 1,4-Dioxane           | 2000 ug/mL    |
| <b>O-522-CalH_00012</b>    | 04/22/25 | 10/22/24                            | Methanol, Lot 24G0262002 | 2 mL                 | 522 AnalyteST_00003 | 100 uL       | 1,4-Dioxane           | 100 ug/mL     |
| .522 AnalyteST_00003       | 05/31/26 | 10/22/24                            | Methanol, Lot na         | 1 mL                 | 522-Analyte_00003   | 1 mL         | 1,4-Dioxane           | 2000 ug/mL    |
| ..522-Analyte_00003        | 05/31/26 | Restek, Lot A0172836                |                          |                      | (Purchased Reagent) |              | 1,4-Dioxane           | 2000 ug/mL    |
| <b>O-522-QCS-Sub_00007</b> | 12/02/24 | 08/29/24                            | Methanol, Lot 23I0762004 | 2 mL                 | 522-QCS_00001       | 20 uL        | 1,4-Dioxane           | 10 ug/mL      |
| .522-QCS_00001             | 12/02/24 | AccuStandard, Lot 214121041         |                          |                      | (Purchased Reagent) |              | 1,4-Dioxane           | 1000 ug/mL    |
| <b>O-522BFBSub_00015</b>   | 01/14/25 | 10/14/24                            | MeCl2, Lot EI661-US      | 2 mL                 | o-522-bfb_00004     | 2 uL         | BFB                   | 2.005 ug/mL   |
| .o-522-bfb_00004           | 09/30/28 | 07/21/22                            | METHANOL, Lot NA         | 1 mL                 | O-522-BFB_00003     | 1 mL         | BFB                   | 2005 ug/mL    |
| ..O-522-BFB_00003          | 09/30/28 | Agilent, Lot 6629793                |                          |                      | (Purchased Reagent) |              | BFB                   | 2005 ug/mL    |
| <b>O522-CalL_00016</b>     | 04/22/25 | 10/22/24                            | Methanol, Lot 24G0262002 | 2 mL                 | O-522-CalH_00012    | 20 uL        | 1,4-Dioxane           | 1 ug/mL       |
| .O-522-CalH_00012          | 04/22/25 | 10/22/24                            | Methanol, Lot 24G0262002 | 2 mL                 | 522 AnalyteST_00003 | 100 uL       | 1,4-Dioxane           | 100 ug/mL     |
| ..522 AnalyteST_00003      | 05/31/26 | 10/22/24                            | Methanol, Lot na         | 1 mL                 | 522-Analyte_00003   | 1 mL         | 1,4-Dioxane           | 2000 ug/mL    |
| ...522-Analyte_00003       | 05/31/26 | Restek, Lot A0172836                |                          |                      | (Purchased Reagent) |              | 1,4-Dioxane           | 2000 ug/mL    |

Reagent

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**522-Analyte\_00003**



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

www.restek.com

## CERTIFIED REFERENCE MATERIAL

### Certificate of Analysis



Rec'd: 12/14/2021 Hms

#### 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. : 30287 Lot No.: A0172836  
Description : 1,4-Dioxane Standard  
1,4-Dioxane 2000µg/mL, P&T Methanol, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : May 31, 2026 Storage: 0°C or colder  
Ship: Ambient

#### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc.<br>(weight/volume) | Expanded Uncertainty<br>(95% C.L.; K=2) |       |             |  |
|---------------|---------------------------------------------------------------|--------------------------------|-----------------------------------------|-------|-------------|--|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBM5092) | 2,019.2 µg/mL                  | +/- 11.8498                             | µg/mL | Gravimetric |  |
|               |                                                               |                                | +/- 43.2613                             | µg/mL | Unstressed  |  |
|               |                                                               |                                | +/- 44.5173                             | µg/mL | Stressed    |  |

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

Rec'd: 12/14/2021 Hms

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

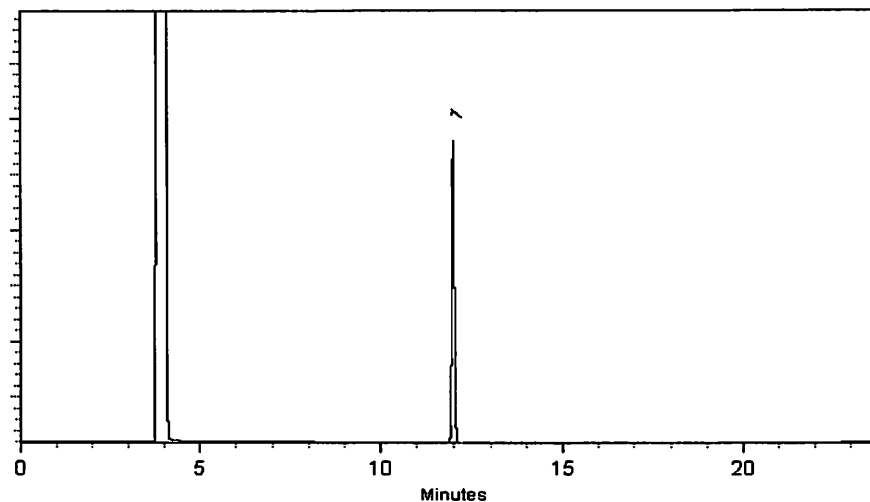
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

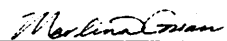
**Det. Type:**  
FID



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.

  
Walker Workman - Operations Technician I

Date Mixed: 27-May-2021 Balance: 1128360905

  
Marlene Cowan - Operations Tech I

Date Passed: 01-Jun-2021

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

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

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**522-IS-Stock\_00008**



## CERTIFIED WEIGHT REPORT

**Part Number:** 72261  
**Lot Number:** 102523  
**Description:** Tetrahydrofuran-d8

|                    |             |
|--------------------|-------------|
| <b>Solvent(s):</b> | <b>Lot#</b> |
| Methanol           | EG359-US    |

Recd 03/08/2024  
Hms

**Expiration Date:** 102528

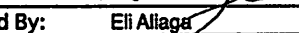
**Recommended Storage:** Refrigerate (4 °C)

**Nominal Concentration ( $\mu\text{g/mL}$ ):** 1000

NIST Test ID#: 6UTE

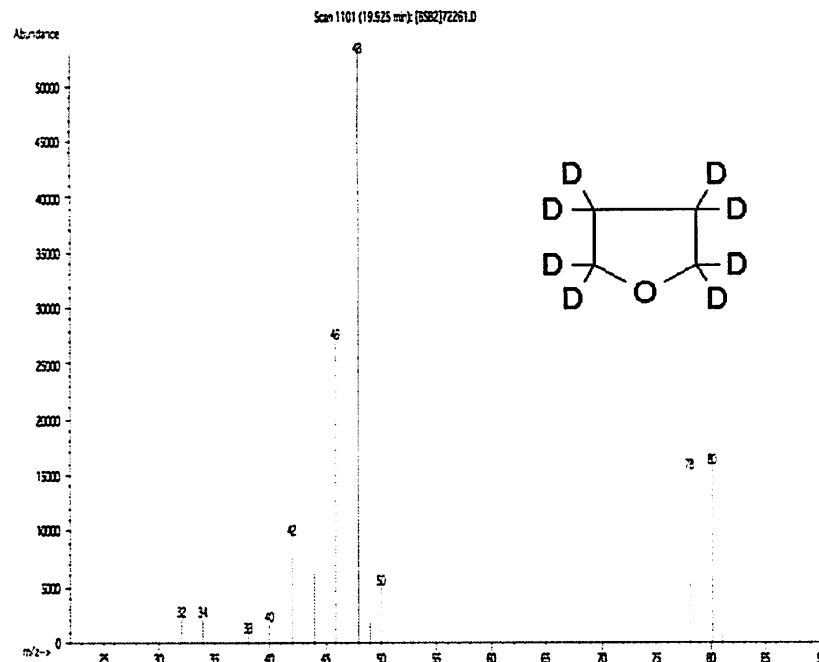
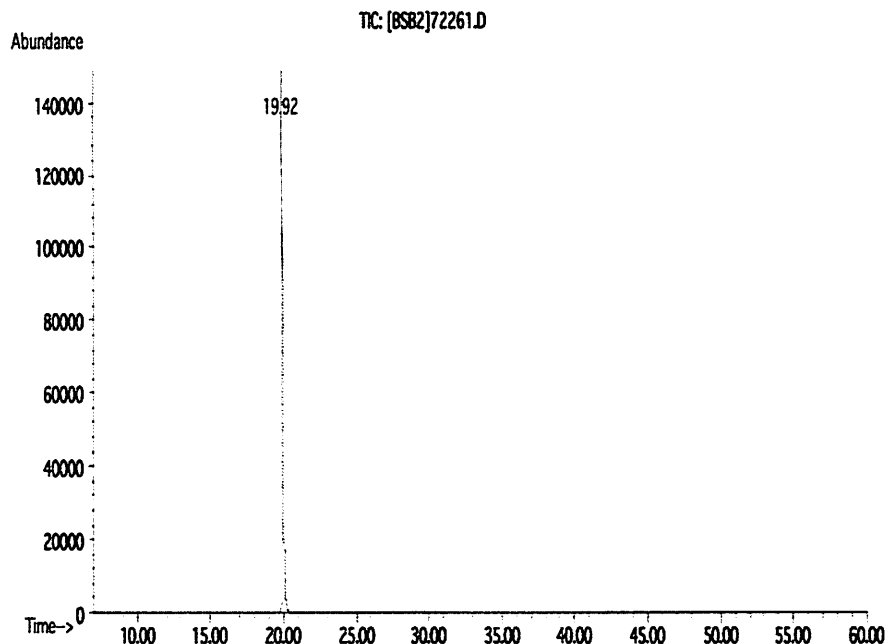
### 5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

|                                                                                     |                 |        |
|-------------------------------------------------------------------------------------|-----------------|--------|
|  |                 | 102523 |
| Formulated By:                                                                      | Eli Aliaga      | DATE   |
|  |                 | 102523 |
| Reviewed By:                                                                        | Pedro L. Rentas | DATE   |

| Compound           | RM#  | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) µg/mL | SDS Information<br>(Solvent Safety Info. On Attached pg.) |                |      |
|--------------------|------|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|----------------------------------|-----------------------------------------------------------|----------------|------|
|                    |      |            |                      |            |                    |                  |                  |                     |                                  | CAS#                                                      | OSHA PEL (TWA) | LDSO |
| Tetrahydrofuran-d8 | 2261 | I-24862H   | 1000                 | 99.6       | 0.2                | 0.10045          | 0.10054          | 1000.9              | 4.2                              | 1693-74-9                                                 | N/A            | N/A  |

**Method:** GC6MSD-1. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (10 min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., **Injector Temp.=**200°C, **Detector Temp.=**200°C. **Analyst:** Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

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**522-QCS\_00001**

125 Market Street  
New Haven, CT 06513  
USA



AccuStandard®, Inc.

Tel (203)786-5290  
Fax (203)786-5287  
www.AccuStandard.com

# CERTIFICATE OF ANALYSIS

Catalog No: APP-9-096-10X

Description: p-Dioxane Standard

Lot: 214121041

Solvent: Methanol

Hazards: **HIGHLY FLAMMABLE** - Refer to SDS for safety info

Date Certified: Dec 2, 2014

Expiration: Dec 2, 2024

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

| Component | CAS #    | Purity % | Prepared<br>Concentration <sup>1</sup> | Certified Analyte<br>Concentration <sup>2</sup> |
|-----------|----------|----------|----------------------------------------|-------------------------------------------------|
|           |          | (MFG)    | (µg/mL)                                | (µg/mL)                                         |
| p-Dioxane | 123-91-1 | 99.0     | 1005                                   | 995                                             |

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> All weights are traceable through NIST, Test No. 822-275872-11

<sup>2</sup> Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:

A comma (,) is used to separate units of one-thousand or greater.

A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-ORG/INO-001  
Rev. 7/11

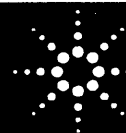
Reagent

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**O-522-BFB\_00003**

Recd at 07/06/2022  
07/06/2022  
HMS

ISO 17034



Agilent

Trusted Answers

## Reference Material Certificate

**Product Name:** 4-Bromofluorobenzene Standard

**Lot Number:** 0006629793

**Product Number:** STS-110N-1

**Lot Issue Date:** 10-Aug-2021

**Storage Conditions:** Store Frozen (-25° to -10°C).

**Expiration Date:** 30-Sep-2028

| Component Name       | CERTIFIED VALUES |                      | CAS#        | Analyte Lot |
|----------------------|------------------|----------------------|-------------|-------------|
|                      | Concentration    | Expanded Uncertainty |             |             |
| 4-bromofluorobenzene | 2009             | ± 10 µg/mL           | 000460-00-4 | RM12184     |

**Matrix:** methanol (methyl alcohol)

### Description:

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

### Traceability:

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

### Homogeneity:

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

### Instructions for Use:

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

### Safety:

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

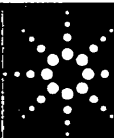
### Intended Use:

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.

ISO 17034



**Agilent**

Trusted Answers

**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



ISO 17034 Cert  
No. AR-1936

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

Page: 2 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)

CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937

# Method 522

---

1,4 Dioxane (GC/MS SIM) by Method  
522

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Matrix: Drinking Water Level: Low

GC Column (1): CPSelect 62 ID: 0.25 (mm)

| Client Sample ID     | Lab Sample ID          | DXE # |
|----------------------|------------------------|-------|
| BPOW6-11HYD-20241016 | 810-125238-1           | 93    |
|                      | LCS<br>810-120092/3-A  | 90    |
|                      | LLCS<br>810-120092/2-A | 89    |
|                      | MBL<br>810-120092/1-A  | 92    |

DXE = 1,4-Dioxane-d8 (Surr)

QC LIMITS  
70-130

# Column to be used to flag recovery values

FORM II 522

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Eaton Analytical South      Job No.: 810-125238-1  
Bend

SDG No.:

Matrix: Drinking Water      Level: Low      Lab File ID: LCS.D

Lab ID: LCS 810-120092/3-A      Client ID:

| COMPOUND    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,4-Dioxane | 10.0                     | 9.31                           | 93              | 70-130              |   |

# Column to be used to flag recovery and RPD values

FORM III 522

FORM III  
GC/MS SEMI VOA LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Eaton Analytical South      Job No.: 810-125238-1  
Bend

SDG No.:

Matrix: Drinking Water      Level: Low      Lab File ID: LLCS.D

Lab ID: LLCS 810-120092/2-A      Client ID:

| COMPOUND    | SPIKE<br>ADDED<br>(ug/L) | LLCS<br>CONCENTRATION<br>(ug/L) | LLCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------|--------------------------|---------------------------------|------------------|---------------------|---|
| 1,4-Dioxane | 0.0700                   | 0.0717                          | 102              | 50-150              |   |

# Column to be used to flag recovery and RPD values

FORM III 522

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend  
Job No.: 810-125238-1  
SDG No.:  
Lab File ID: MBL.D  
Lab Sample ID: MBL 810-120092/1-A  
Matrix: Drinking Water  
Date Extracted: 10/24/2024 06:46  
Instrument ID: GCMS-DM  
Date Analyzed: 10/25/2024 14:59  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID     | LAB SAMPLE ID       | LAB<br>FILE ID     | DATE ANALYZED    |
|----------------------|---------------------|--------------------|------------------|
|                      | LLCS 810-120092/2-A | LLCS.D             | 10/25/2024 15:25 |
|                      | LCS 810-120092/3-A  | LCS.D              | 10/25/2024 15:51 |
| BPOW6-11HYD-20241016 | 810-125238-1        | 810-125238-A-1-A.D | 10/26/2024 00:03 |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Eaton Analytical South Bend      Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Lab File ID: BFB.D      BFB Injection Date: 10/23/2024

Instrument ID: GCMS-DM      BFB Injection Time: 16:07

Analysis Batch No.: 120057

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 15.0 - 40.0 % of mass 95           | 21.6                 |          |
| 75  | 30.0 - 80.0 % of mass 95           | 51.7                 |          |
| 95  | Base Peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0 % of mass 95             | 6.6                  |          |
| 173 | Less than 2.0 % of mass 174        | 0.0                  | (0.0) 1  |
| 174 | >50.0 % of mass 95                 | 73.8                 |          |
| 175 | 5.0 - 9.0 % of mass 174            | 6.2                  | (8.4) 1  |
| 176 | >95.0 but <101.0 % of mass 174     | 72.1                 | (97.7) 1 |
| 177 | 5.0 - 9.0 % of mass 176            | 4.8                  | (6.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID         | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-----------------------|-------------|---------------|---------------|
|                  | IC 810-119843/4-A     | L1.D        | 10/23/2024    | 16:39         |
|                  | IC 810-119843/5-A     | L2.D        | 10/23/2024    | 17:05         |
|                  | IC 810-119843/6-A     | L3.D        | 10/23/2024    | 17:31         |
|                  | IC 810-119843/7-A     | L4.D        | 10/23/2024    | 17:56         |
|                  | ICISAV 810-119843/8-A | ICRT.D      | 10/23/2024    | 18:21         |
|                  | IC 810-119843/9-A     | L6.D        | 10/23/2024    | 18:46         |
|                  | IC 810-119843/10-A    | L7.D        | 10/23/2024    | 19:12         |
|                  | IC 810-119843/11-A    | L8.D        | 10/23/2024    | 19:37         |
|                  | IC 810-119843/12-A    | L9.D        | 10/23/2024    | 20:03         |
|                  | ICV 810-119843/13-A   | ICV.D       | 10/23/2024    | 21:21         |

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Eaton Analytical South      Job No.: 810-125238-1  
Bend

SDG No.:

Instrument I GCMS-DM      Calibration Start Date: 10/23/2024 16:39

GC Column: CPSelect 624 MS    ID: 0.25 (mm)      Calibration End Date: 10/23/2024 20:03

Calibration ID: 13607

|                                           |                          | THFd8  |      |   |      |   |      |
|-------------------------------------------|--------------------------|--------|------|---|------|---|------|
|                                           |                          | AREA # | RT # | # | RT # | # | RT # |
| INITIAL CALIBRATION MEAN AREA AND MEAN RT |                          | 66408  | 6.12 |   |      |   |      |
| UPPER LIMIT                               |                          | 99612  | 6.62 |   |      |   |      |
| LOWER LIMIT                               |                          | 33204  | 5.62 |   |      |   |      |
| LAB SAMPLE ID                             | CLIENT SAMPLE ID         |        |      |   |      |   |      |
| ICV<br>810-119843/13-A                    |                          | 64500  | 6.12 |   |      |   |      |
| CCVLIS<br>810-120093/2-A                  |                          | 60011  | 6.12 |   |      |   |      |
| MBL 810-120092/1-A                        |                          | 60825  | 6.11 |   |      |   |      |
| LLCS<br>810-120092/2-A                    |                          | 59829  | 6.11 |   |      |   |      |
| LCS 810-120092/3-A                        |                          | 58146  | 6.11 |   |      |   |      |
| CCVIS<br>810-120093/4-A                   |                          | 57838  | 6.12 |   |      |   |      |
| 810-125238-1                              | BPOW6-11HYD-2024101<br>6 | 56262  | 6.11 |   |      |   |      |
| CCV 810-120093/5-A                        |                          | 56443  | 6.11 |   |      |   |      |

THFd8 = Tetrahydrofuran-d8

Area Limit = 50%-150% of internal standard area  
RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Eaton Analytical South      Job No.: 810-125238-1  
Bend  
SDG No.:  
Sample No.: CCVLIS 810-120093/2-A      Date Analyzed: 10/25/2024 14:07  
Instrument ID: GCMS-DM      GC Column: CPSelect 624 MS      ID: 0.25 (mm)  
Lab File ID (Standard): CCVLIS.D      Heated Purge: (Y/N) N  
Calibration ID: 13607

|                          |                  | THFd8  |      |   |      |   |      |
|--------------------------|------------------|--------|------|---|------|---|------|
|                          |                  | AREA # | RT # | # | RT # | # | RT # |
| Low Level 12/24 HOUR STD |                  | 60011  | 6.12 |   |      |   |      |
| UPPER LIMIT              |                  | 78014  | 6.62 |   |      |   |      |
| LOWER LIMIT              |                  | 42008  | 5.62 |   |      |   |      |
| LAB SAMPLE ID            | CLIENT SAMPLE ID |        |      |   |      |   |      |
| MBL 810-120092/1-A       |                  | 60825  | 6.11 |   |      |   |      |
| LLCS<br>810-120092/2-A   |                  | 59829  | 6.11 |   |      |   |      |
| LCS 810-120092/3-A       |                  | 58146  | 6.11 |   |      |   |      |
| CCVIS<br>810-120093/4-A  |                  | 57838  | 6.12 |   |      |   |      |

THFd8 = Tetrahydrofuran-d8

Area Limit = 70%-130% of internal standard area  
RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

## FORM VIII

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-125238-1

SDG No. :

Sample No.: CCVIS 810-120093/4-A

Date Analyzed: 10/25/2024 20:35

Instrument ID: GCMS-DM

GC Column: CPSelect 624 MS ID: 0.25 (mm)

Lab File ID (Standard): CCVM.D

Heated Purge: (Y/N) N

Calibration ID: 13607

|                    |                      | THFd8  |      |   |      |   |      |
|--------------------|----------------------|--------|------|---|------|---|------|
|                    |                      | AREA # | RT # | # | RT # | # | RT # |
| 12/24 HOUR STD     |                      | 57838  | 6.12 |   |      |   |      |
| UPPER LIMIT        |                      | 75189  | 6.62 |   |      |   |      |
| LOWER LIMIT        |                      | 40487  | 5.62 |   |      |   |      |
| LAB SAMPLE ID      | CLIENT SAMPLE ID     |        |      |   |      |   |      |
| 810-125238-1       | BPOW6-11HYD-20241016 | 56262  | 6.11 |   |      |   |      |
| CCV 810-120093/5-A |                      | 56443  | 6.11 |   |      |   |      |

THFd8 = Tetrahydrofuran-d8

Area Limit = 70%-130% of internal standard area  
RT Limit =  $\pm$  0.5 minutes of internal standard R

```
# Column used to flag values outside QC limits
```

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                                   |                                          |
|---------------------------------------------------|------------------------------------------|
| Lab Name: Eurofins Eaton Analytical South<br>Bend | Job No.: 810-125238-1                    |
| SDG No.:                                          |                                          |
| Client Sample ID: BPOW6-11HYD-20241016            | Lab Sample ID: 810-125238-1              |
| Matrix: Drinking Water                            | Lab File ID: 810-125238-A-1-A.D          |
| Analysis Method: 522                              | Date Collected: 10/16/2024 10:00         |
| Extract. Method: 522                              | Date Extracted: 10/24/2024 06:46         |
| Sample wt/vol: 100 (mL)                           | Date Analyzed: 10/26/2024 00:03          |
| Con. Extract Vol.: 2 (mL)                         | Dilution Factor: 1                       |
| Injection Volume: 1 (uL)                          | GC Column: CPSelect 624 MS ID: 0.25 (mm) |
| % Moisture:                      % Solids:        | GPC Cleanup: (Y/N) N                     |
| Cleanup Factor:                                   | Level: (low/med) Low                     |
| Analysis Batch No.: 120316                        | Units: ug/L                              |
| Preparation Batch No.: 120092                     | Instrument ID: GCMS-DM                   |

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL    |
|----------|---------------|--------|---|-------|
| 123-91-1 | 1,4-Dioxane   | <0.070 |   | 0.070 |

| CAS NO.    | SURROGATE             | %REC | Q | LIMITS |
|------------|-----------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8 (Surr) | 93   |   | 70-130 |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\810-125238-A-1-A.D  
Lims ID: 810-125238-A-1-A  
Client ID: BPOW6-11HYD-20241016  
Sample Type: Client  
Inject. Date: 26-Oct-2024 00:03:55 ALS Bottle#: 0 Worklist Smp#: 23  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-023  
Misc. Info.: 810-125238-A-1-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:27 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 24 | 56262    | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 36541    | 465.0             |       |
| 11 1,4-Dioxane             | 88  | 8.326        | 8.315            | 0.011            | 85 | 266      | 2.56              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\810-125238-A-1-A.D

Injection Date: 26-Oct-2024 00:03:55

Instrument ID: GCMS-DM

Lims ID: 810-125238-A-1-A

Lab Sample ID: 810-125238-1

Client ID: BPOW6-11HYD-20241016

Operator ID: TD

ALS Bottle#: 0

Worklist Smp#: 23

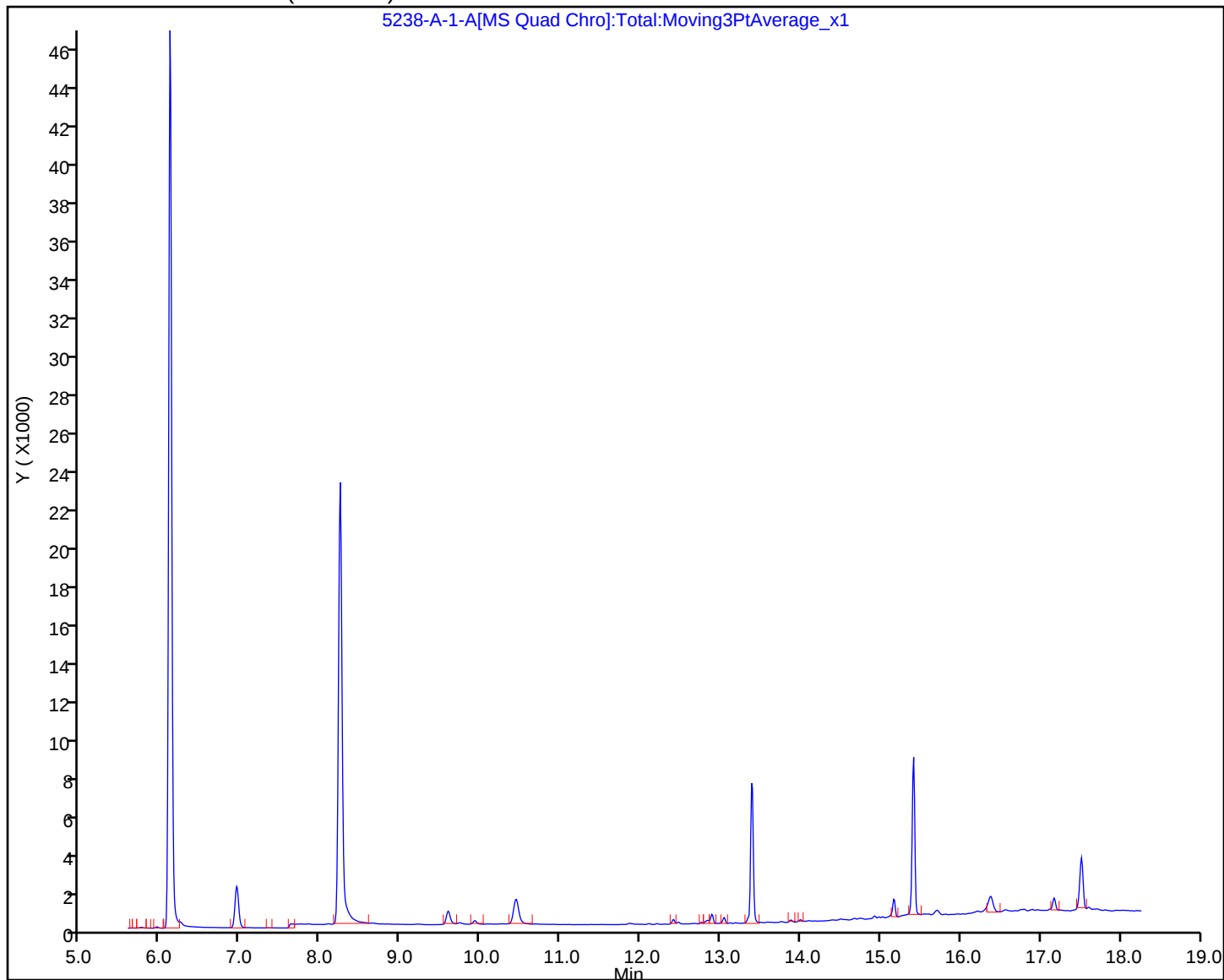
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522\_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\810-125238-A-1-A.D  
Lims ID: 810-125238-A-1-A  
Client ID: BPOW6-11HYD-20241016  
Sample Type: Client  
Inject. Date: 26-Oct-2024 00:03:55 ALS Bottle#: 0 Worklist Smp#: 23  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-023  
Misc. Info.: 810-125238-A-1-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:27 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

| Compound                   | Amount Added | Amount Recovered | % Rec. |
|----------------------------|--------------|------------------|--------|
| \$ 9 1,4-Dioxane-d8 (Surr) | 500.0        | 465.0            | 93.00  |

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Eaton Analytical South      Job No.: 810-125238-1      Analy Batch No.: 120057  
Bend

SDG No.:

Instrument ID: GCMS-DM      GC Column: CPSelect 62 ID: 0.25 (mm)      Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2024 16:39      Calibration End Date: 10/23/2024 20:03      Calibration ID: 13607

Calibration Files

|         |                       |              |
|---------|-----------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
| Level 1 | IC 810-119843/4-A     | L1.D         |
| Level 2 | IC 810-119843/5-A     | L2.D         |
| Level 3 | IC 810-119843/6-A     | L3.D         |
| Level 4 | IC 810-119843/7-A     | L4.D         |
| Level 5 | ICISAV 810-119843/8-A | ICRT.D       |
| Level 6 | IC 810-119843/9-A     | L6.D         |
| Level 7 | IC 810-119843/10-A    | L7.D         |
| Level 8 | IC 810-119843/11-A    | L8.D         |
| Level 9 | IC 810-119843/12-A    | L9.D         |

| ANALYTE               | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD<br>/RSE | # | MAX<br>%RSD<br>/RSE | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|------------|----|---|---------|--------------|---|---------------------|---------------|---|-------------------|
|                       | LVL 1            | LVL 2            | LVL 3            | LVL 4            | LVL 5  |               | B           | M1         | M2 |   |         |              |   |                     |               |   |                   |
|                       | LVL 6            | LVL 7            | LVL 8            | LVL 9            |        |               |             |            |    |   |         |              |   |                     |               |   |                   |
| 1,4-Dioxane           | 0.8607<br>0.7942 | 0.8184<br>0.8633 | 0.7862<br>0.7956 | 0.8521<br>0.7734 | 0.8091 | Lin1          | 0.332<br>7  | 0.792<br>5 |    |   |         | 5.1          |   |                     |               |   |                   |
| 1,4-Dioxane-d8 (Surr) | 0.6907<br>0.7057 | 0.7037<br>0.6912 | 0.7136<br>0.6966 | 0.6954<br>0.6919 | 0.6962 | Ave           |             | 0.698<br>3 |    |   |         | 1.1          |   | 30.0                |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Eaton Analytical South Bend      Job No.: 810-125238-1      Analy Batch No.: 120057  
SDG No.: \_\_\_\_\_  
Instrument ID: GCMS-DM      GC Column: CPSelect 6 ID: 0.25(mm)      Heated Purge: (Y/N) N  
Calibration Start Date: 10/23/2024 16:39      Calibration End Date: 10/23/2024 20:03      Calibration ID: 13607

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | IC 810-119843/4-A     | L1.D         |
| Level 2 | IC 810-119843/5-A     | L2.D         |
| Level 3 | IC 810-119843/6-A     | L3.D         |
| Level 4 | IC 810-119843/7-A     | L4.D         |
| Level 5 | ICISAV 810-119843/8-A | ICRT.D       |
| Level 6 | IC 810-119843/9-A     | L6.D         |
| Level 7 | IC 810-119843/10-A    | L7.D         |
| Level 8 | IC 810-119843/11-A    | L8.D         |
| Level 9 | IC 810-119843/12-A    | L9.D         |

| ANALYTE               | IS<br>REF | CURVE<br>TYPE | RESPONSE       |                |                |                |       | CONCENTRATION (UG/L) |                |                |                |       |
|-----------------------|-----------|---------------|----------------|----------------|----------------|----------------|-------|----------------------|----------------|----------------|----------------|-------|
|                       |           |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane           | THFd8     | Lin1          | 384<br>10850   | 525<br>29183   | 1039<br>54134  | 2825<br>104546 | 5328  | 3.50<br>100          | 5.00<br>250    | 10.0<br>500    | 25.0<br>1000   | 50.0  |
| 1,4-Dioxane-d8 (Surr) | THFd8     | Ave           | 44024<br>48210 | 45145<br>46731 | 47152<br>47393 | 46113<br>46759 | 45846 | 500<br>500           | 500<br>500     | 500<br>500     | 500<br>500     | 500   |

Curve Type Legend:

|                           |
|---------------------------|
| Ave = Average ISTD        |
| Lin1 = Linear 1/conc ISTD |

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Eaton Analytical South Bend      Job No.: 810-125238-1      Analy Batch No.: 120057  
SDG No.: \_\_\_\_\_  
Instrument ID: GCMS-DM      GC Column: CPSelect 62 ID: 0.25 (mm)      Heated Purge: (Y/N) N  
Calibration Start Date: 10/23/2024 16:39      Calibration End Date: 10/23/2024 20:03      Calibration ID: 13607

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | IC 810-119843/4-A     | L1.D         |
| Level 2 | IC 810-119843/5-A     | L2.D         |
| Level 3 | IC 810-119843/6-A     | L3.D         |
| Level 4 | IC 810-119843/7-A     | L4.D         |
| Level 5 | ICISAV 810-119843/8-A | ICRT.D       |
| Level 6 | IC 810-119843/9-A     | L6.D         |
| Level 7 | IC 810-119843/10-A    | L7.D         |
| Level 8 | IC 810-119843/11-A    | L8.D         |
| Level 9 | IC 810-119843/12-A    | L9.D         |

| ANALYTE     | PERCENT ERROR |         |         |         |         |         | PERCENT ERROR LIMIT |       |       |       |       |       |
|-------------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
|             | LVL 1 #       | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1               | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
|             | LVL 7 #       | LVL 8 # | LVL 9 # |         |         |         | LVL 7               | LVL 8 | LVL 9 |       |       |       |
| 1,4-Dioxane | -3.4          | -5.1    | -5.0    | 5.8     | 1.3     | -0.2    | 40                  | 20    | 20    | 20    | 20    | 20    |
|             | 8.8           | 0.3     | -2.4    |         |         |         | 20                  | 20    | 20    |       |       |       |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L1.D  
 Lims ID: IC 810-119843/4-A  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 23-Oct-2024 16:39:59 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 810-0030673-003  
 Misc. Info.: ic 810-119843/4-a  
 Operator ID: TD Instrument ID: GCMS-DM  
 Sublist: chrom-522\_GCMS-DM\*sub1  
 Raw Data: Smoothed  
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
 Limit Group: MSS - 522  
 Last Update: 24-Oct-2024 10:48:44 Calib Date: 23-Oct-2024 20:03:47  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
 Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1640

First Level Reviewer: JH8B

Date: 24-Oct-2024 10:48:12

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 26 | 63736    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 44024    | 500.0           | 494.5             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 83 | 384      | 3.50            | 3.38              |       |

**QC Flag Legend**

Processing Flags

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L1.D

Injection Date: 23-Oct-2024 16:39:59

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/4-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

3

Injection Vol: 1.0 ul

Dil. Factor:

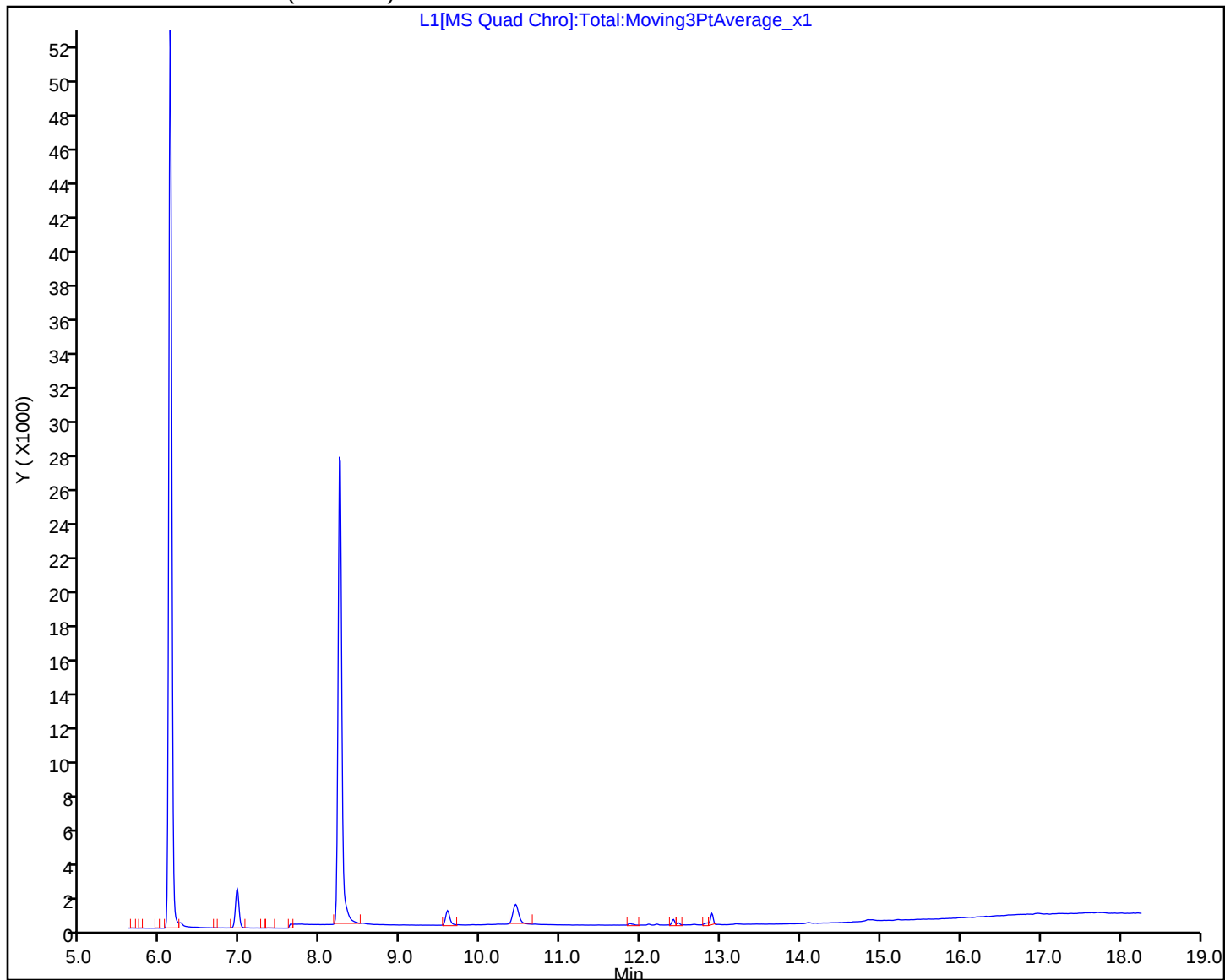
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L2.D  
Lims ID: IC 810-119843/5-A  
Client ID:  
Sample Type: IC Calib Level: 2  
Inject. Date: 23-Oct-2024 17:05:42 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-004  
Misc. Info.: ic 810-119843/5-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:45 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 26 | 64152    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 45145    | 500.0           | 503.9             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 84 | 525      | 5.00            | 4.74              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L2.D

Injection Date: 23-Oct-2024 17:05:42

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/5-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

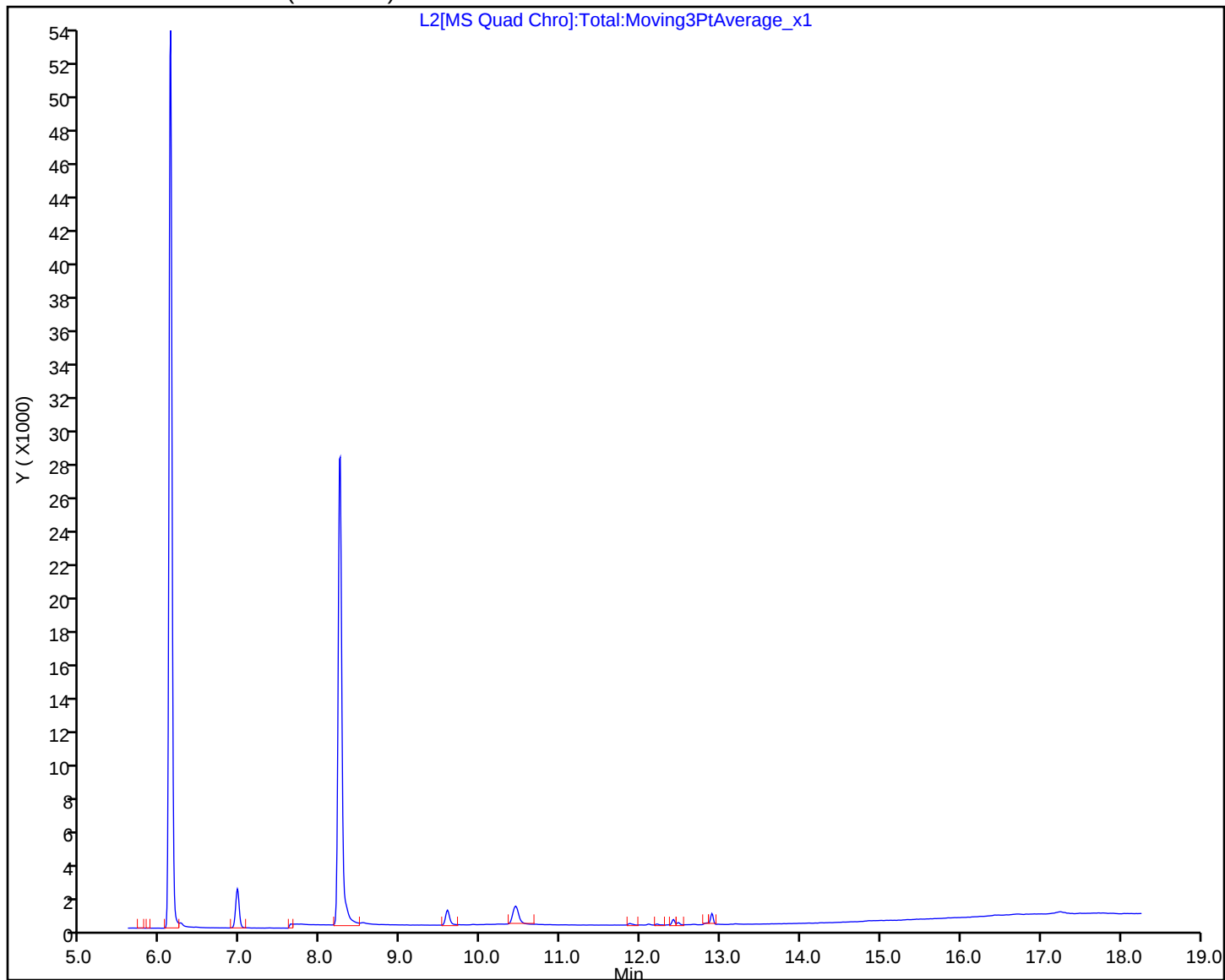
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L3.D  
 Lims ID: IC 810-119843/6-A  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 23-Oct-2024 17:31:01 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 810-0030673-005  
 Misc. Info.: ic 810-119843/6-a  
 Operator ID: TD Instrument ID: GCMS-DM  
 Sublist: chrom-522\_GCMS-DM\*sub1  
 Raw Data: Smoothed  
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
 Limit Group: MSS - 522  
 Last Update: 24-Oct-2024 10:48:46 Calib Date: 23-Oct-2024 20:03:47  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
 Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 25 | 66075    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 47152    | 500.0           | 510.9             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 84 | 1039     | 10.0            | 9.50              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L3.D

Injection Date: 23-Oct-2024 17:31:01

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/6-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

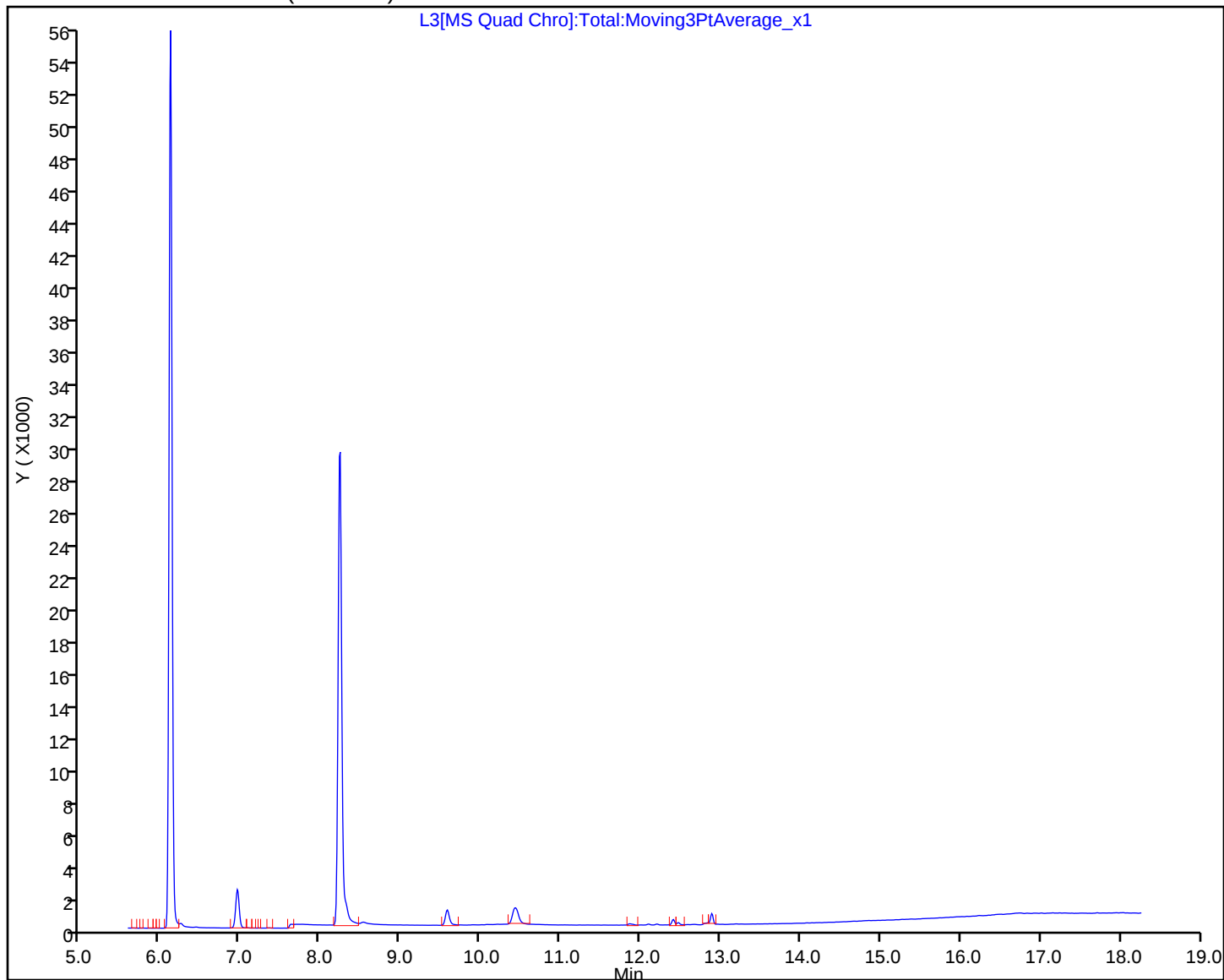
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L4.D  
Lims ID: IC 810-119843/7-A  
Client ID:  
Sample Type: IC Calib Level: 4  
Inject. Date: 23-Oct-2024 17:56:13 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-006  
Misc. Info.: ic 810-119843/7-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:47 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 25 | 66309    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 46113    | 500.0           | 497.9             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 85 | 2825     | 25.0            | 26.5              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L4.D

Injection Date: 23-Oct-2024 17:56:13

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/7-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

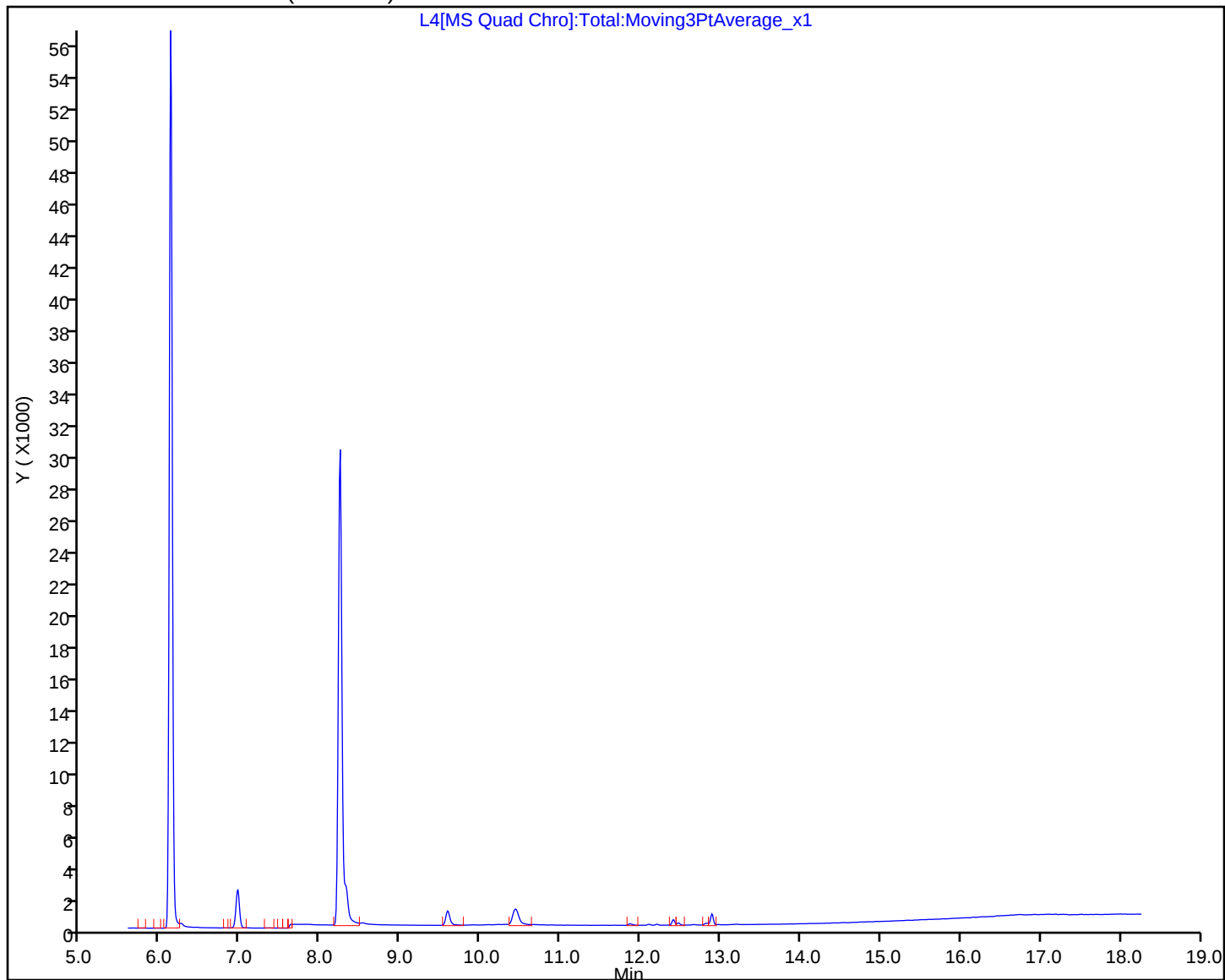
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\ICRT.D  
Lims ID: ICISAV 810-119843/8-A  
Client ID:  
Sample Type: ICISAV Calib Level: 5  
Inject. Date: 23-Oct-2024 18:21:19 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-007  
Misc. Info.: icisav 810-119843/8-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:48 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 25 | 65851    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 45846    | 500.0           | 498.5             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 85 | 5328     | 50.0            | 50.6              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\ICRT.D

Injection Date: 23-Oct-2024 18:21:19

Instrument ID: GCMS-DM

Lims ID: ICISAV 810-119843/8-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

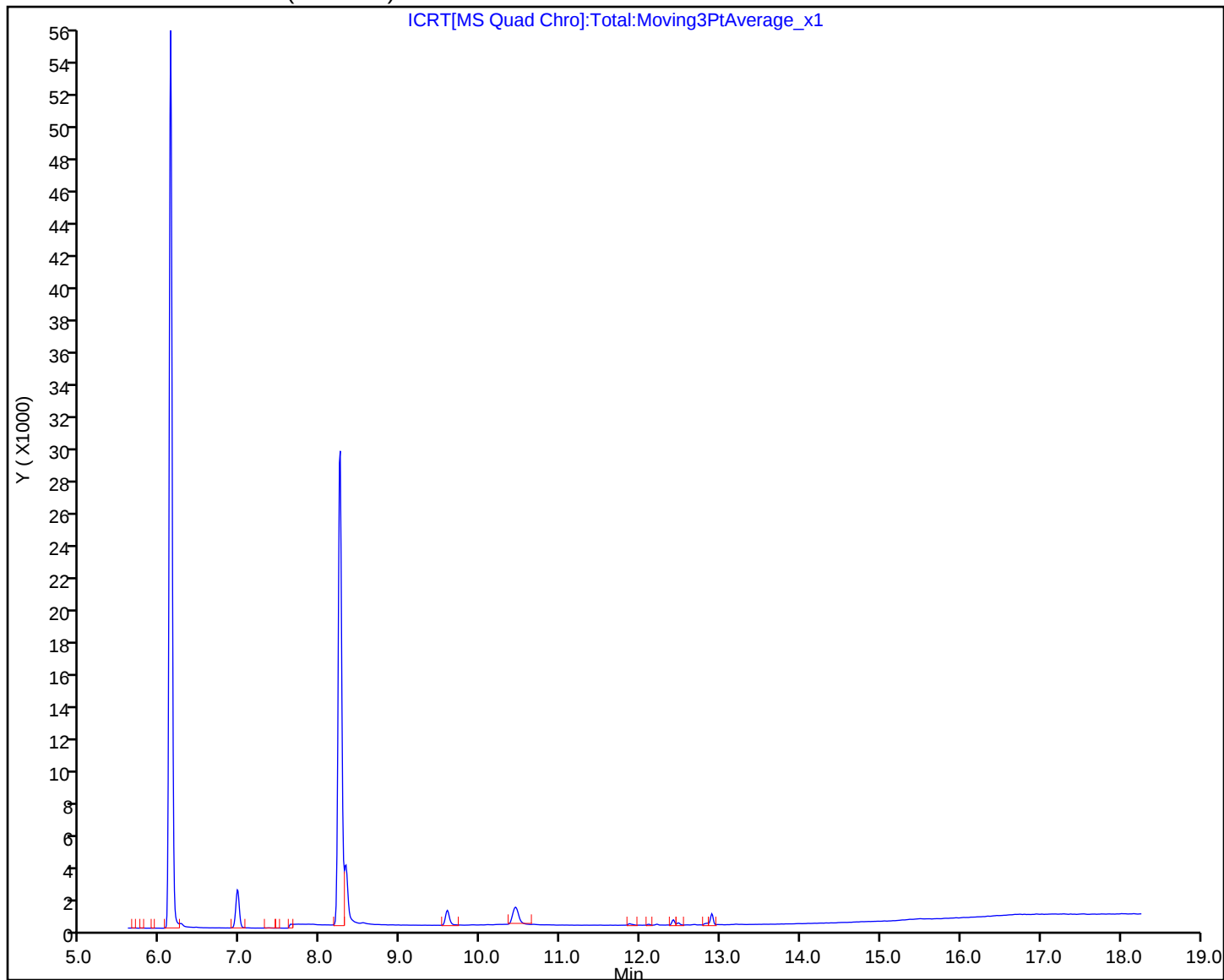
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L6.D  
Lims ID: IC 810-119843/9-A  
Client ID:  
Sample Type: IC Calib Level: 6  
Inject. Date: 23-Oct-2024 18:46:34 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-008  
Misc. Info.: ic 810-119843/9-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:49 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 26 | 68311    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 48210    | 500.0           | 505.3             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 84 | 10850    | 100.0           | 99.8              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L6.D

Injection Date: 23-Oct-2024 18:46:34

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/9-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

8

Injection Vol: 1.0 ul

Dil. Factor:

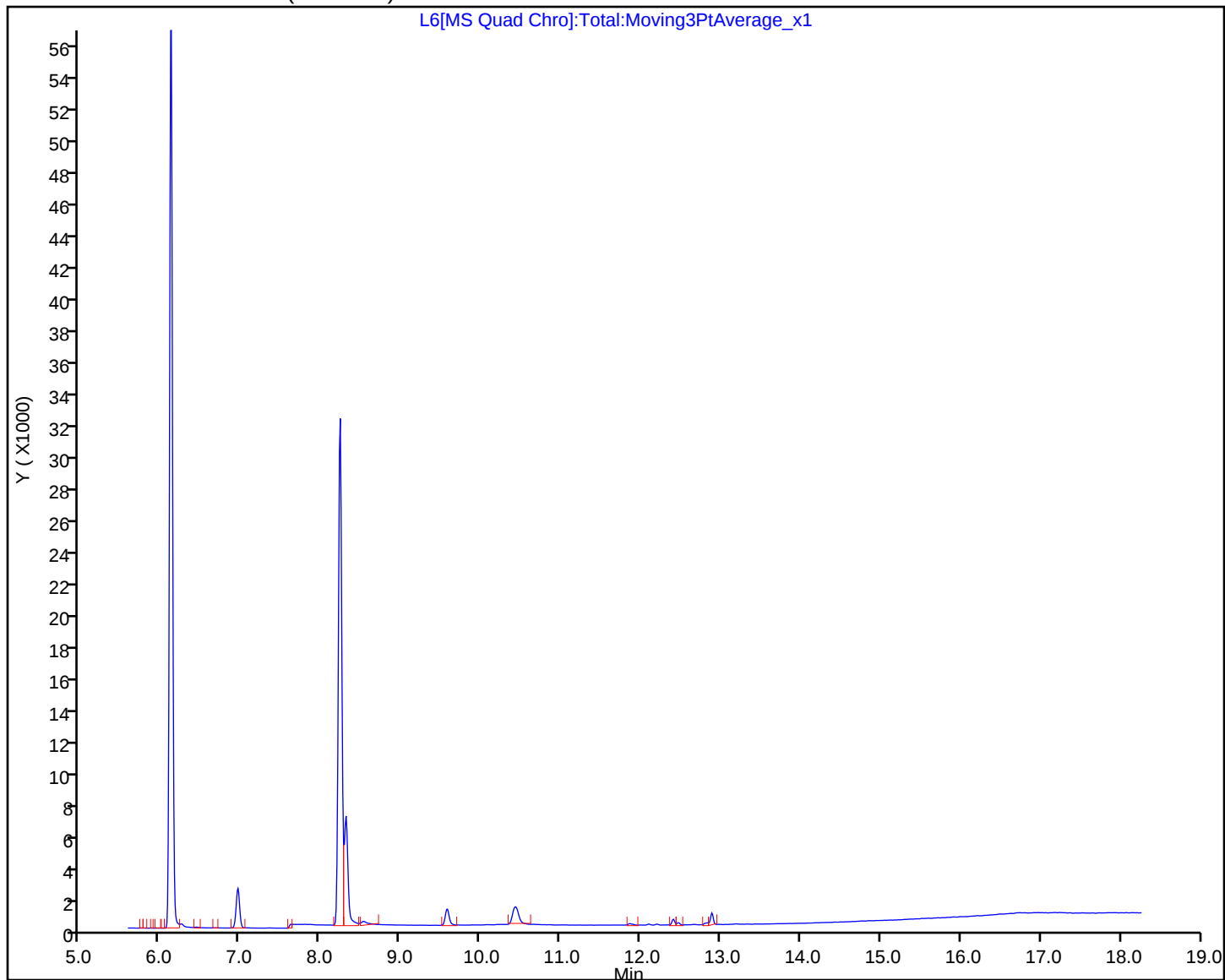
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L7.D  
Lims ID: IC 810-119843/10-A  
Client ID:  
Sample Type: IC Calib Level: 7  
Inject. Date: 23-Oct-2024 19:12:01 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-009  
Misc. Info.: ic 810-119843/10-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:50 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 26 | 67610    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 46731    | 500.0           | 494.9             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 29183    | 250.0           | 271.9             |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L7.D

Injection Date: 23-Oct-2024 19:12:01

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/10-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

9

Injection Vol: 1.0 ul

Dil. Factor:

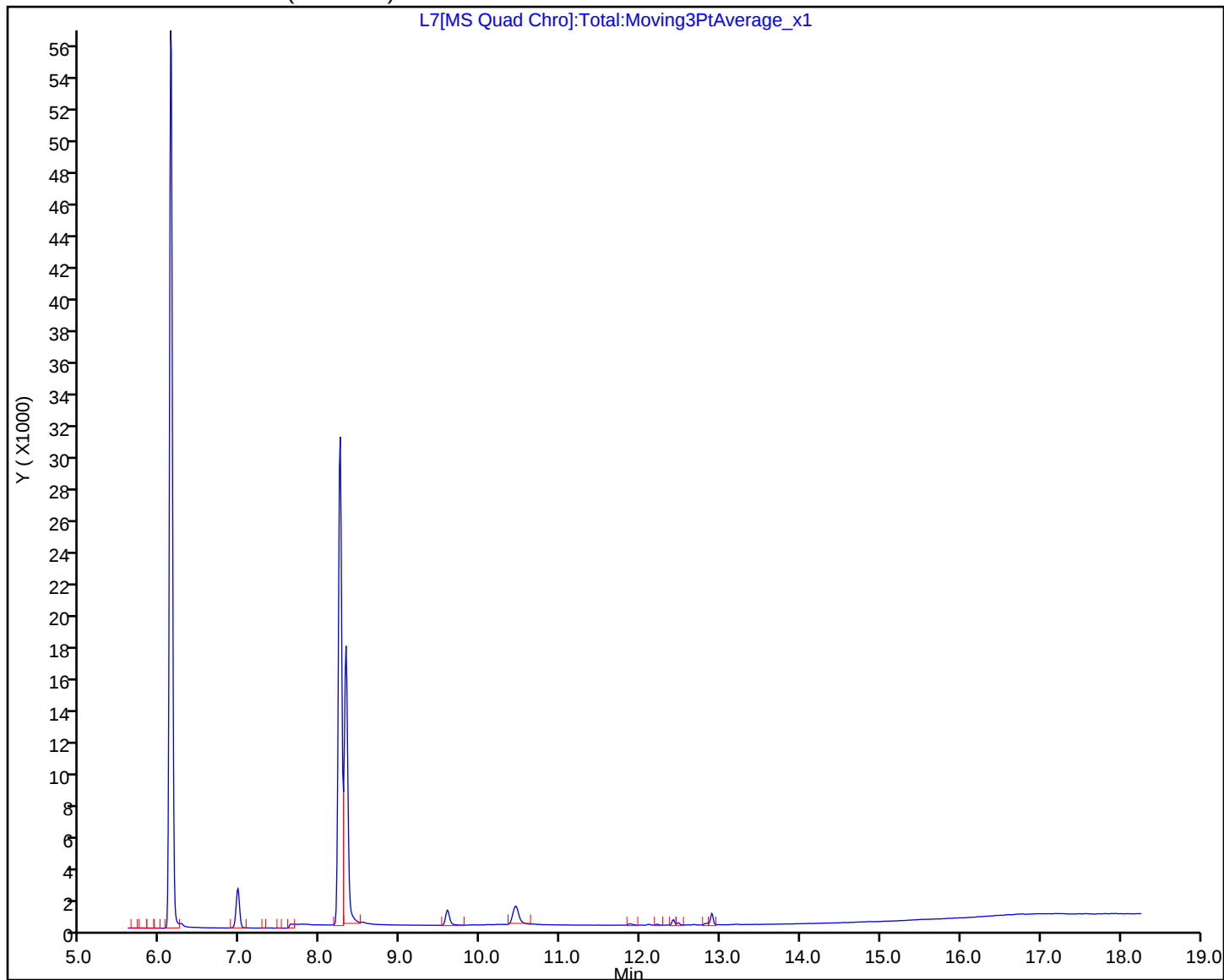
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L8.D  
Lims ID: IC 810-119843/11-A  
Client ID:  
Sample Type: IC Calib Level: 8  
Inject. Date: 23-Oct-2024 19:37:55 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-010  
Misc. Info.: ic 810-119843/11-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:50 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 26 | 68039    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 47393    | 500.0           | 498.7             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 85 | 54134    | 500.0           | 501.6             |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L8.D

Injection Date: 23-Oct-2024 19:37:55

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/11-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

10

Injection Vol: 1.0 ul

Dil. Factor:

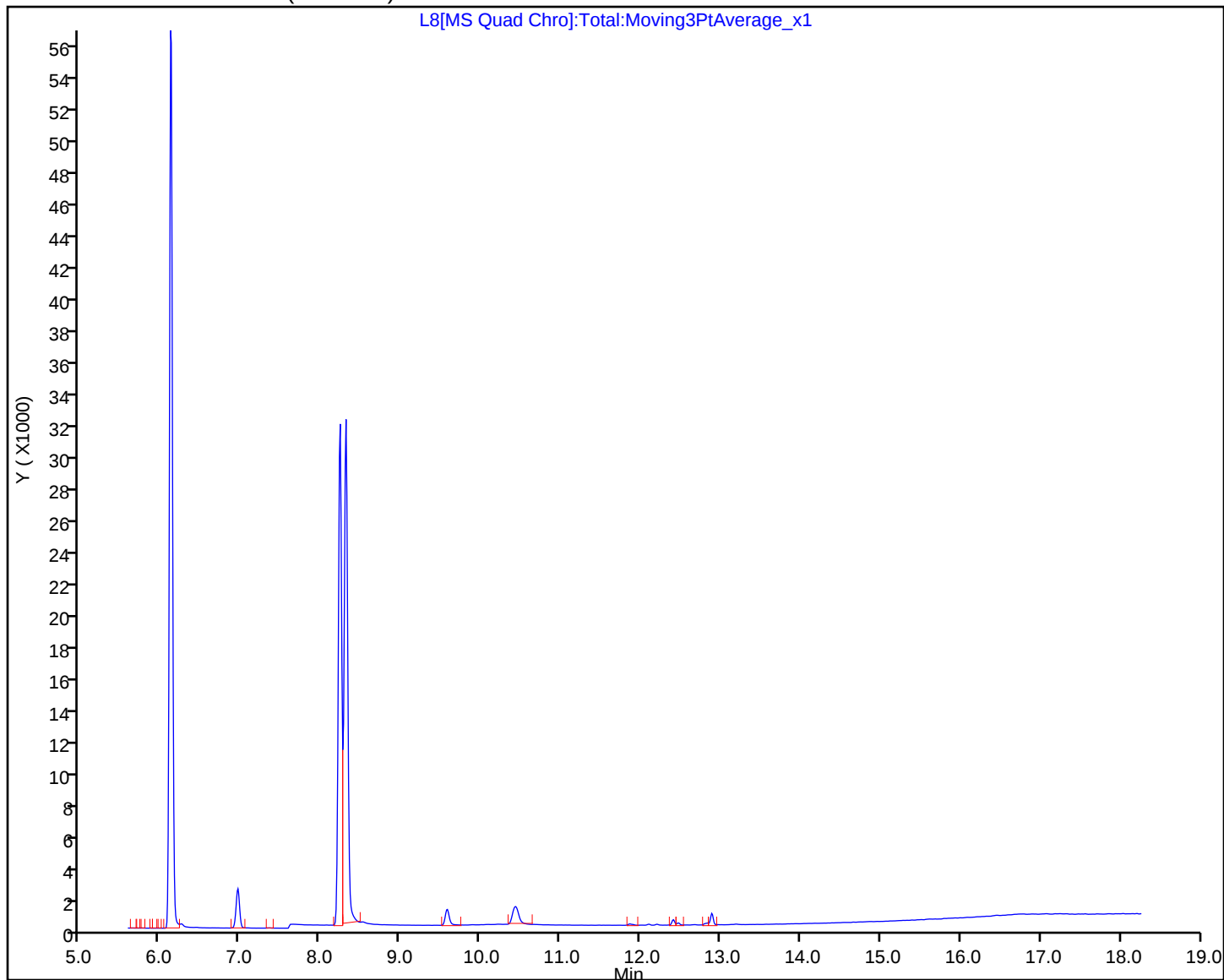
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Lims ID: IC 810-119843/12-A  
Client ID:  
Sample Type: IC Calib Level: 9  
Inject. Date: 23-Oct-2024 20:03:47 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030673-011  
Misc. Info.: ic 810-119843/12-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 24-Oct-2024 10:48:51 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 26 | 67585    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 46759    | 500.0           | 495.4             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 104546   | 1000.0          | 975.5             |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D

Injection Date: 23-Oct-2024 20:03:47

Instrument ID: GCMS-DM

Lims ID: IC 810-119843/12-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

11

Injection Vol: 1.0 ul

Dil. Factor:

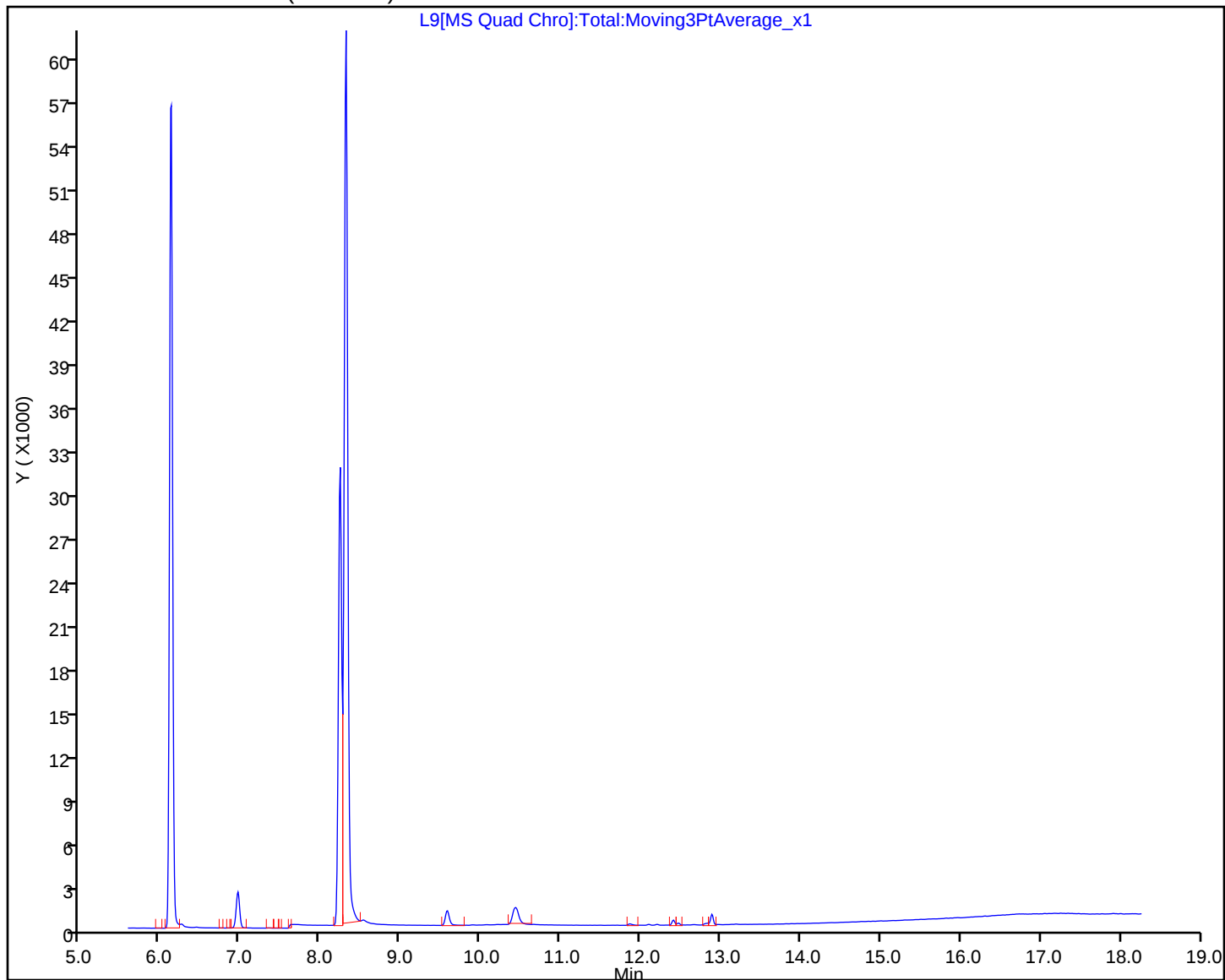
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



# Calibration

/ 1,4-Dioxane-d8 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

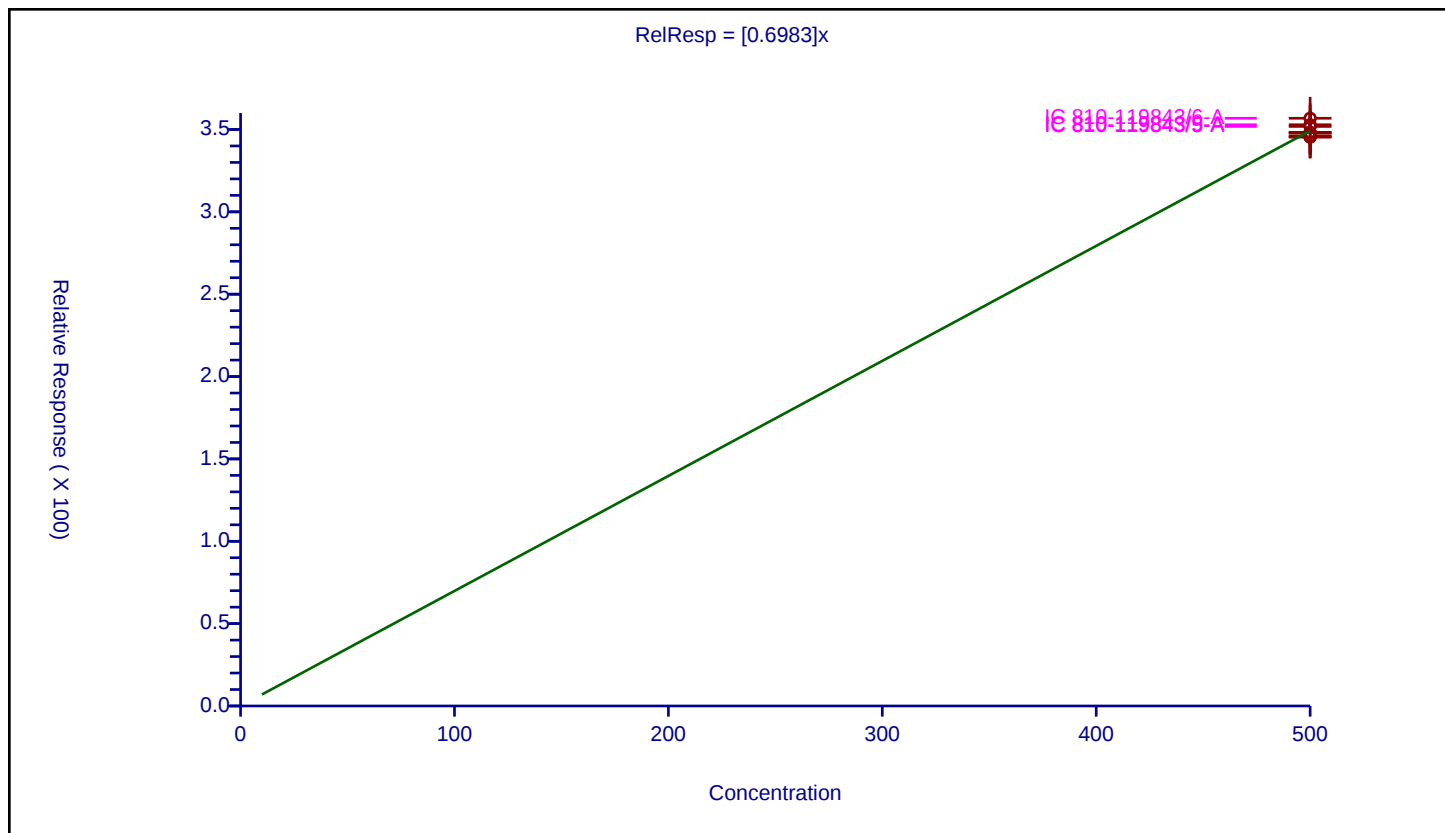
## Curve Coefficients

Intercept: 0  
 Slope: 0.6983

## Error Coefficients

Relative Standard Deviation: 1.1

| ID | Level                 | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|-----------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 810-119843/4-A     | 500.0         | 345.362119 | 500.0     | 63736.0     | 0.690724 | Y    |
| 2  | IC 810-119843/5-A     | 500.0         | 351.859646 | 500.0     | 64152.0     | 0.703719 | Y    |
| 3  | IC 810-119843/6-A     | 500.0         | 356.806659 | 500.0     | 66075.0     | 0.713613 | Y    |
| 4  | IC 810-119843/7-A     | 500.0         | 347.71298  | 500.0     | 66309.0     | 0.695426 | Y    |
| 5  | ICISAV 810-119843/8-A | 500.0         | 348.104053 | 500.0     | 65851.0     | 0.696208 | Y    |
| 6  | IC 810-119843/9-A     | 500.0         | 352.871426 | 500.0     | 68311.0     | 0.705743 | Y    |
| 7  | IC 810-119843/10-A    | 500.0         | 345.592368 | 500.0     | 67610.0     | 0.691185 | Y    |
| 8  | IC 810-119843/11-A    | 500.0         | 348.278193 | 500.0     | 68039.0     | 0.696556 | Y    |
| 9  | IC 810-119843/12-A    | 500.0         | 345.927351 | 500.0     | 67585.0     | 0.691855 | Y    |



## Calibration

/ 1,4-Dioxane

Curve Type: Linear  
Weighting: Conc  
Origin: None  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

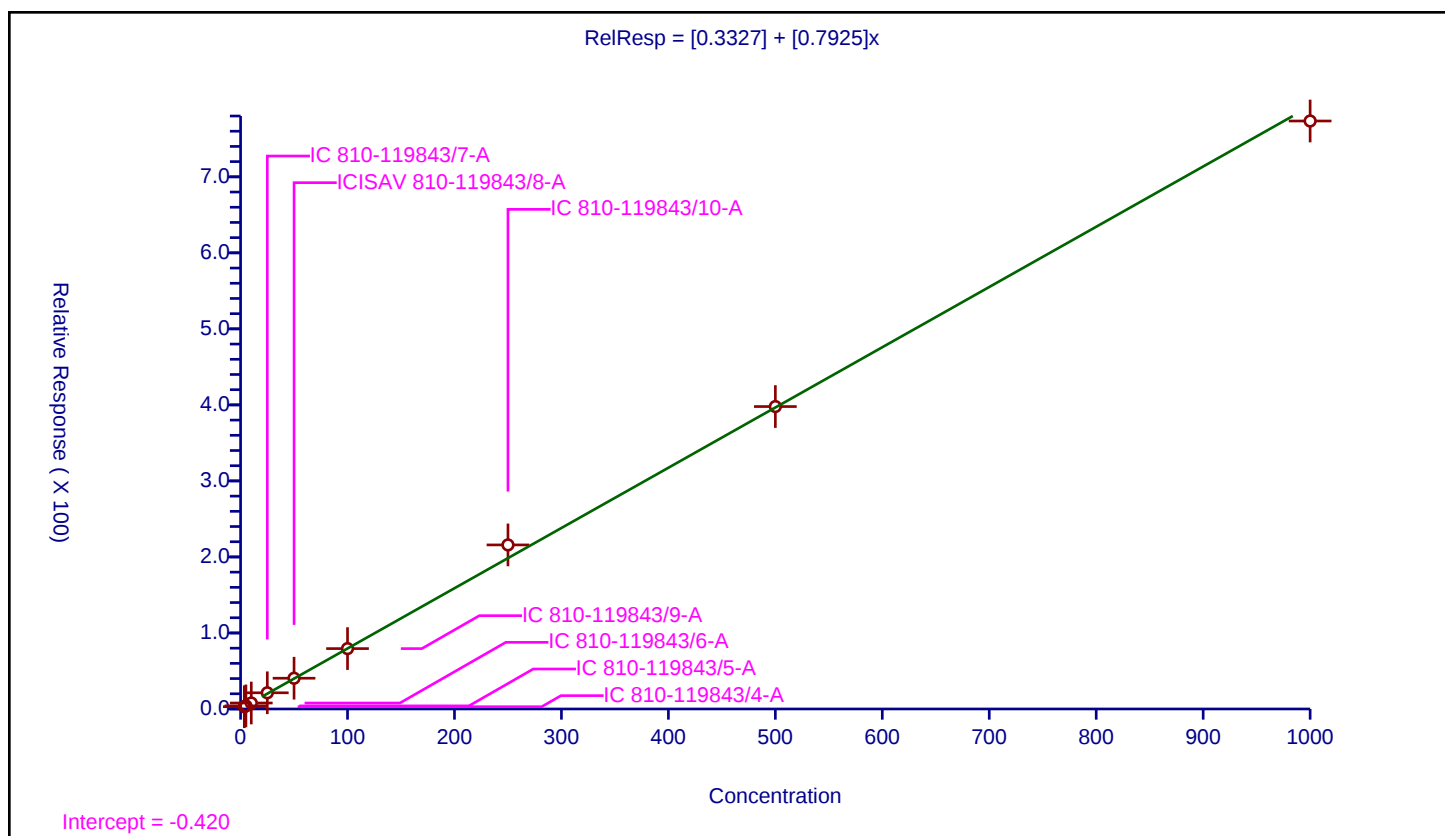
## Curve Coefficients

Intercept: 0.3327  
Slope: 0.7925

## Error Coefficients

Relative Standard Deviation: 5.1

| ID | Level                 | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|-----------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | IC 810-119843/4-A     | 3.5           | 3.012426   | 500.0     | 63736.0     | 0.860693 | Y    |
| 2  | IC 810-119843/5-A     | 5.0           | 4.091844   | 500.0     | 64152.0     | 0.818369 | Y    |
| 3  | IC 810-119843/6-A     | 10.0          | 7.862278   | 500.0     | 66075.0     | 0.786228 | Y    |
| 4  | IC 810-119843/7-A     | 25.0          | 21.301784  | 500.0     | 66309.0     | 0.852071 | Y    |
| 5  | ICISAV 810-119843/8-A | 50.0          | 40.454967  | 500.0     | 65851.0     | 0.809099 | Y    |
| 6  | IC 810-119843/9-A     | 100.0         | 79.416199  | 500.0     | 68311.0     | 0.794162 | Y    |
| 7  | IC 810-119843/10-A    | 250.0         | 215.818666 | 500.0     | 67610.0     | 0.863275 | Y    |
| 8  | IC 810-119843/11-A    | 500.0         | 397.815958 | 500.0     | 68039.0     | 0.795632 | Y    |
| 9  | IC 810-119843/12-A    | 1000.0        | 773.440852 | 500.0     | 67585.0     | 0.773441 | Y    |



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 810-119843/13-A Calibration Date: 10/23/2024 21:21  
Instrument ID: GCMS-DM Calib Start Date: 10/23/2024 16:39  
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 10/23/2024 20:03  
Lab File ID: ICV.D Conc. Units: ug/L

| ANALYTE               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %REC | %REC<br>LIMITS |
|-----------------------|---------------|---------|--------|---------|----------------|-----------------|------|----------------|
| 1,4-Dioxane           | Lin1          |         | 0.7969 |         | 49.9           | 50.0            | 100  | 80-120         |
| 1,4-Dioxane-d8 (Surr) | Ave           | 0.6983  | 0.6853 |         | 491            | 500             | 98   | 70-130         |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\ICV.D  
 Lims ID: ICV 810-119843/13-A  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 23-Oct-2024 21:21:24 ALS Bottle#: 0 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 810-0030673-013  
 Misc. Info.: ICV 810-119843/13-A  
 Operator ID: TD Instrument ID: GCMS-DM  
 Sublist:  
 Raw Data: Smoothed  
 Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m  
 Limit Group: MSS - 522  
 Last Update: 24-Oct-2024 11:38:36 Calib Date: 23-Oct-2024 20:03:47  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
 Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1640

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 25 | 64500    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 44202    | 500.0           | 490.7             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 5140     | 50.0            | 49.9              |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\ICV.D

Injection Date: 23-Oct-2024 21:21:24

Instrument ID: GCMS-DM

Lims ID: ICV 810-119843/13-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

13

Injection Vol: 1.0 ul

Dil. Factor:

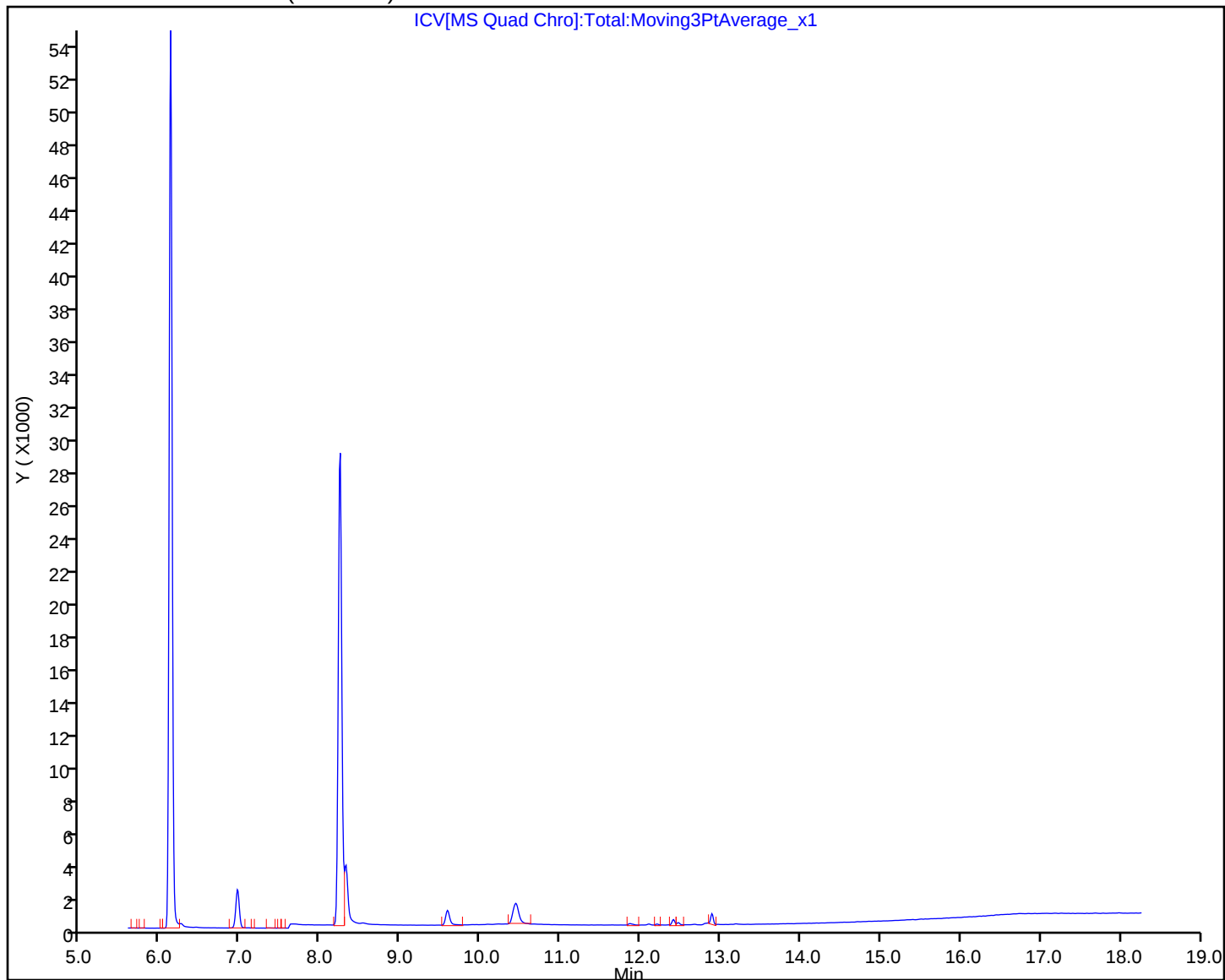
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVLIS 810-120093/2- Calibration Date: 10/25/2024 14:07  
Instrument ID: GCMS-DM Calib Start Date: 10/23/2024 16:39  
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 10/23/2024 20:03  
Lab File ID: CCVLIS.D Conc. Units: ug/L

| ANALYTE               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %REC | %REC<br>LIMITS |
|-----------------------|---------------|---------|--------|---------|----------------|-----------------|------|----------------|
| 1,4-Dioxane           | Lin1          |         | 0.9022 |         | 3.56           | 3.50            | 102  | 50-150         |
| 1,4-Dioxane-d8 (Surr) | Ave           | 0.6983  | 0.7220 |         | 517            | 500             | 103  | 70-130         |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVLIS.D  
Lims ID: CCVLIS 810-120093/2-A  
Client ID:  
Sample Type: CCVLIS  
Inject. Date: 25-Oct-2024 14:07:22 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-001  
Misc. Info.: ccvlis 810-120093/2-a  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:13 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:38

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 24 | 60011    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 43329    | 500.0           | 517.0             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 379      | 3.50            | 3.56              |       |

## QC Flag Legend

Processing Flags

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVLIS.D

Injection Date: 25-Oct-2024 14:07:22

Instrument ID: GCMS-DM

Lims ID: CCVLIS 810-120093/2-A

Client ID:

Operator ID: TD

ALS Bottle#: 0

Worklist Smp#: 1

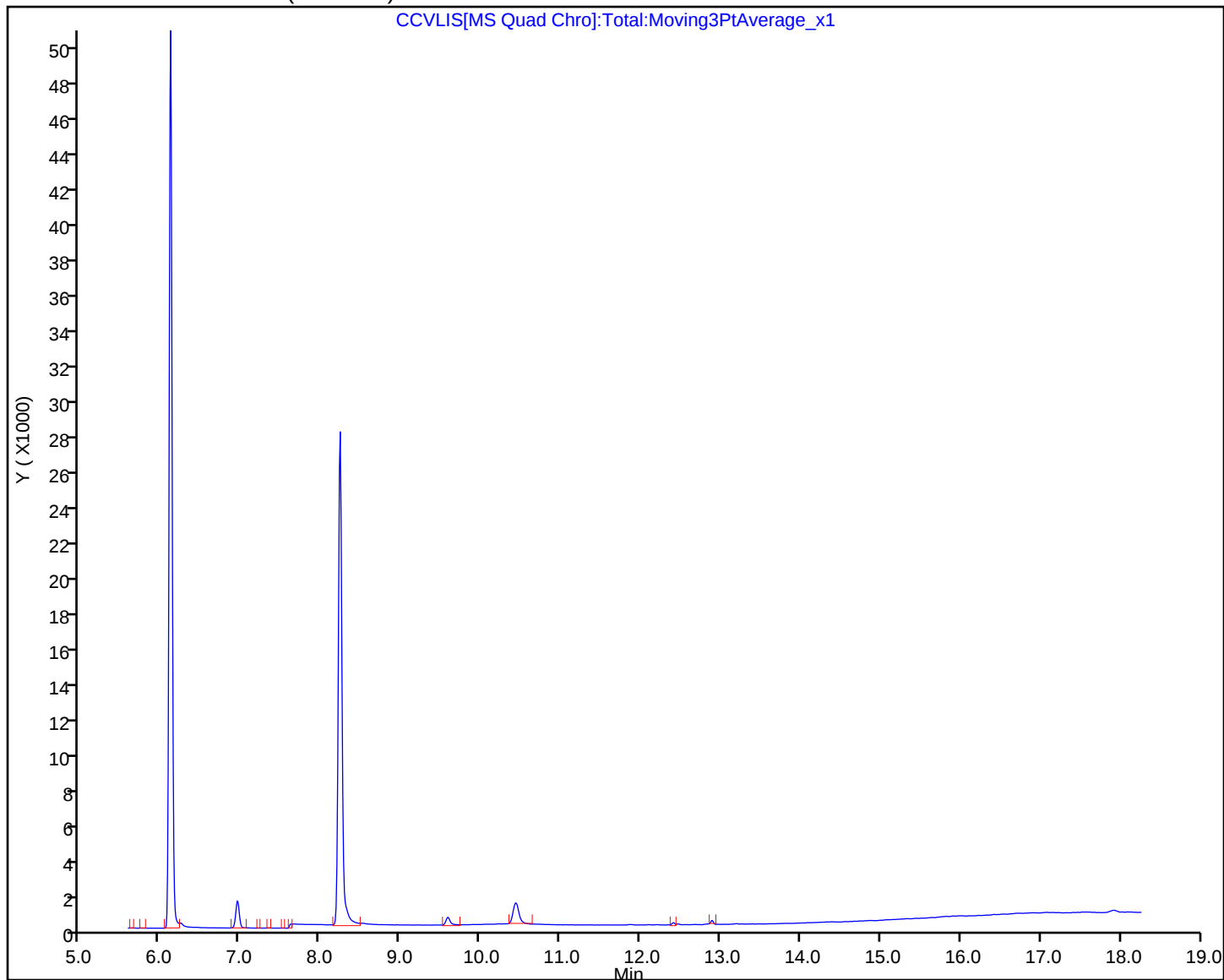
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522\_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 810-120093/4-A Calibration Date: 10/25/2024 20:35  
Instrument ID: GCMS-DM Calib Start Date: 10/23/2024 16:39  
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 10/23/2024 20:03  
Lab File ID: CCVM.D Conc. Units: ug/L

| ANALYTE               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %REC | %REC<br>LIMITS |
|-----------------------|---------------|---------|--------|---------|----------------|-----------------|------|----------------|
| 1,4-Dioxane           | Lin1          |         | 0.8420 |         | 52.7           | 50.0            | 105  | 70-130         |
| 1,4-Dioxane-d8 (Surr) | Ave           | 0.6983  | 0.7221 |         | 517            | 500             | 103  | 70-130         |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVM.D  
Lims ID: CCVIS 810-120093/4-A  
Client ID:  
Sample Type: CCVIS  
Inject. Date: 25-Oct-2024 20:35:51 ALS Bottle#: 0 Worklist Smp#: 15  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-015  
Misc. Info.: CCVIS 810-120093/4-A  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:27 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:30:59

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.122        | 6.122            | 0.000            | 24 | 57838    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 41767    | 500.0           | 517.0             |       |
| 11 1,4-Dioxane             | 88  | 8.315        | 8.315            | 0.000            | 85 | 4870     | 50.0            | 52.7              |       |

## QC Flag Legend

Processing Flags

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVM.D

Injection Date: 25-Oct-2024 20:35:51

Instrument ID: GCMS-DM

Lims ID: CCVIS 810-120093/4-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

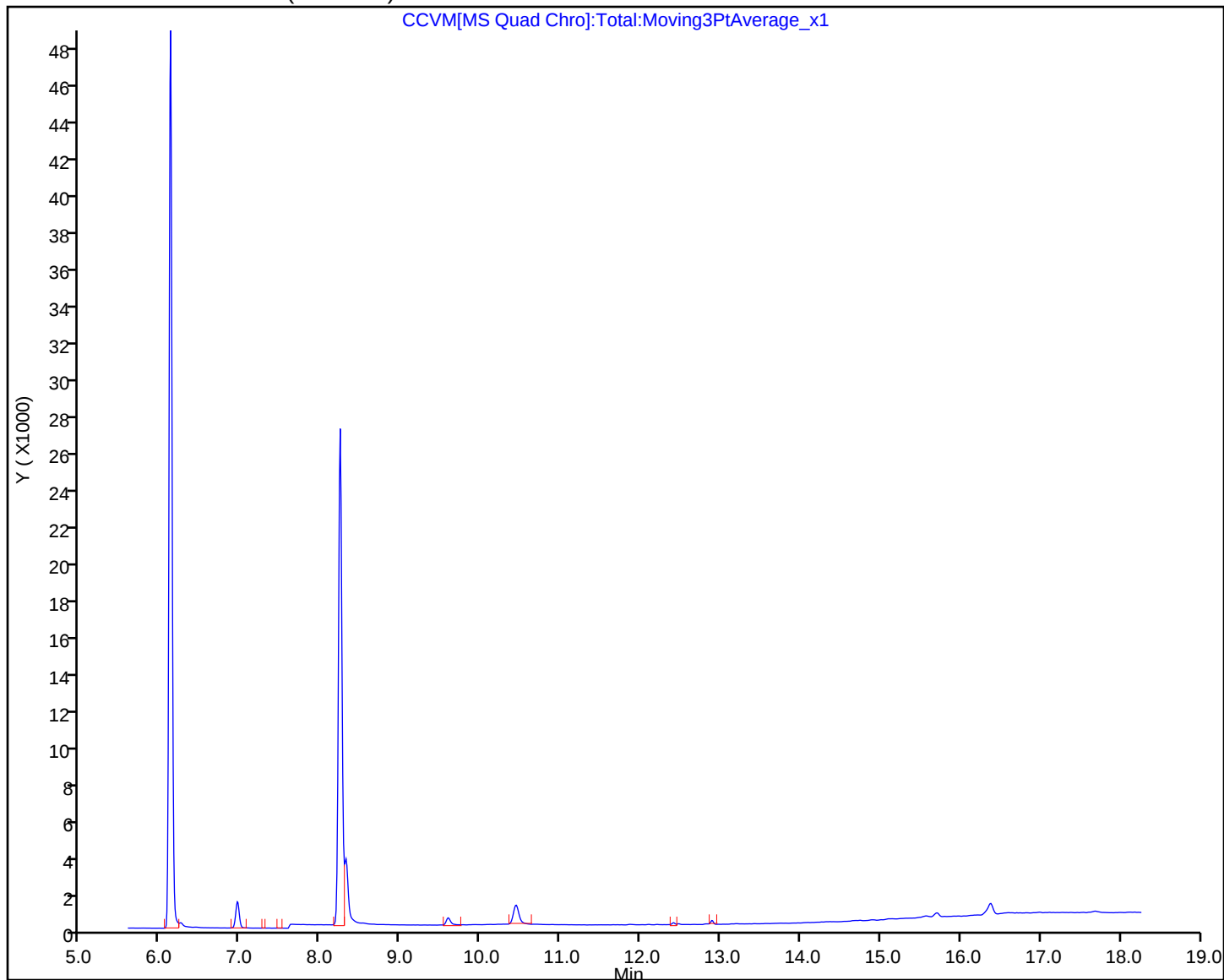
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCV 810-120093/5-A Calibration Date: 10/26/2024 02:14  
Instrument ID: GCMS-DM Calib Start Date: 10/23/2024 16:39  
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 10/23/2024 20:03  
Lab File ID: CCVH.D Conc. Units: ug/L

| ANALYTE               | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %REC | %REC<br>LIMITS |
|-----------------------|---------------|---------|--------|---------|----------------|-----------------|------|----------------|
| 1,4-Dioxane           | Lin1          |         | 0.8144 |         | 513            | 500             | 103  | 70-130         |
| 1,4-Dioxane-d8 (Surr) | Ave           | 0.6983  | 0.7069 |         | 506            | 500             | 101  | 70-130         |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVH.D  
Lims ID: CCV 810-120093/5-A  
Client ID:  
Sample Type: CCV  
Inject. Date: 26-Oct-2024 02:14:56 ALS Bottle#: 0 Worklist Smp#: 28  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-028  
Misc. Info.: CCV 810-120093/5-A  
Operator ID: TD Instrument ID: GCMS-DM  
Sublist: chrom-522\_GCMS-DM\*sub1  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:39 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 24 | 56443    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 39902    | 500.0           | 506.2             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 45970    | 500.0           | 513.4             |       |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\CCVH.D

Injection Date: 26-Oct-2024 02:14:56

Instrument ID: GCMS-DM

Lims ID: CCV 810-120093/5-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

28

Injection Vol: 1.0 ul

Dil. Factor:

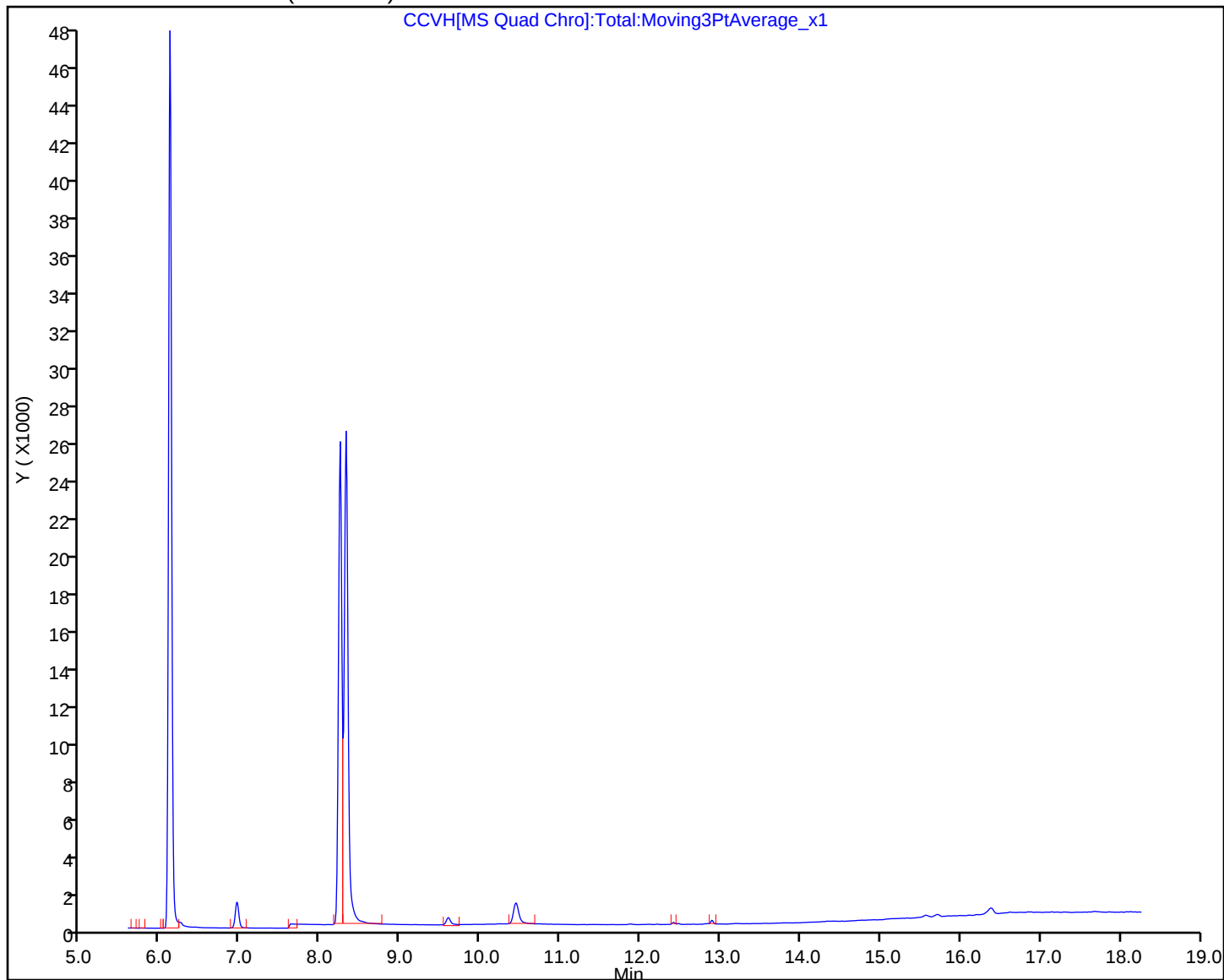
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend

Target Compound Quantitation Report

Data File:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB.D

Lims ID:

BFB

Client ID:

Sample Type:

BFB

Inject. Date:

23-Oct-2024 16:07:55

ALS Bottle#:

0

Worklist Smp#:

1

Injection Vol:

2.0 mL

Dil. Factor:

1.0000

Sample Info:

810-0030673-001

Misc. Info.:

BFB

Operator ID:

TD

Instrument ID:

GCMS-DM

Raw Data:

Smoothed

Method:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m

Limit Group:

MSS - 522

Last Update:

24-Oct-2024 11:38:28

Calib Date:

23-Oct-2024 20:03:47

Integrator:

RTE

ID Type:

Deconvolution ID

Quant Method:

Internal Standard

Quant By:

Initial Calibration

Last ICal File:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D

Column 1 :

CP Select 624 MS ( 0.25 mm)

Det:

MS Quad

Process Host:

CTX1640

First Level Reviewer: JH8B

Date: 24-Oct-2024 10:47:52

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

10 BFB

QC Flag Legend

Processing Flags

Reagents:

O-522BFBSUB\_00015

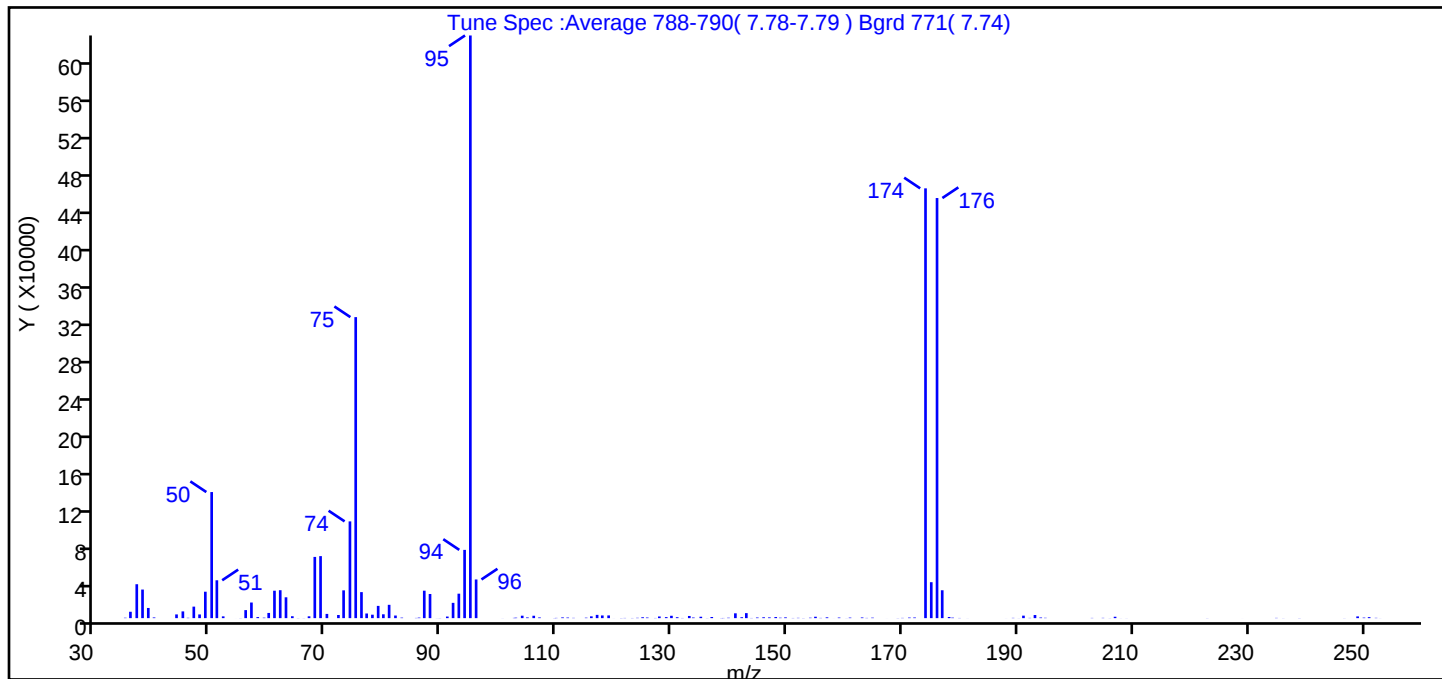
Amount Added: 2.00

Units: mL

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB.D  
Injection Date: 23-Oct-2024 16:07:55 Instrument ID: GCMS-DM  
Lims ID: BFB  
Client ID:  
Operator ID: TD ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 2.0 mL Dil. Factor: 1.0000  
Method: 522\_GCMS-DM Limit Group: MSS - 522  
Tune Method: BFB Method 524

## 10 BFB



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95  | Base Peak, 100% Relative Abundance | 100.0                |
| 50  | 15-40% of mass 95                  | 21.6                 |
| 75  | 30-80% of mass 95                  | 51.7                 |
| 96  | 5-9% of mass 95                    | 6.6                  |
| 173 | <2% of mass 174                    | 0.0 (0.0)            |
| 174 | >50% of mass 95                    | 73.8                 |
| 175 | 5-9% of mass 174                   | 6.2 (8.4)            |
| 176 | >95% but <101% of mass 174         | 72.1 (97.7)          |
| 177 | 5-9% of mass 176                   | 4.8 (6.6)            |

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB.D\522\_GCMS-DM.rsl\spectra.d  
Injection Date: 23-Oct-2024 16:07:55  
Spectrum: Tune Spec :Average 788-790( 7.78-7.79 ) Bgrd 771( 7.74)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 156

| m/z   | Y      | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|-------|--------|--------|--------|--------|------|--------|--------|
| 35.00 | 426    | 79.00  | 13118  | 125.00 | 945  | 165.00 | 520    |
| 36.00 | 6830   | 80.00  | 4117   | 126.00 | 654  | 167.00 | 25     |
| 37.00 | 36312  | 81.00  | 14266  | 127.00 | 189  | 169.00 | 121    |
| 38.00 | 30608  | 82.00  | 2799   | 128.00 | 1788 | 170.00 | 260    |
| 39.00 | 10887  | 83.00  | 548    | 129.00 | 1099 | 171.00 | 615    |
| 40.00 | 743    | 86.00  | 235    | 130.00 | 2542 | 172.00 | 682    |
| 44.00 | 3991   | 86.00  | 575    | 131.00 | 987  | 174.00 | 460096 |
| 45.00 | 7230   | 87.00  | 29392  | 132.00 | 181  | 175.00 | 38480  |
| 46.00 | 371    | 88.00  | 25856  | 133.00 | 2322 | 176.00 | 449728 |
| 47.00 | 12325  | 89.00  | 62     | 134.00 | 661  | 177.00 | 29848  |
| 48.00 | 3958   | 90.00  | 120    | 135.00 | 1506 | 178.00 | 1208   |
| 49.00 | 28296  | 91.00  | 1709   | 136.00 | 103  | 179.00 | 549    |
| 50.00 | 134976 | 92.00  | 16366  | 137.00 | 1213 | 180.00 | 194    |
| 51.00 | 40536  | 93.00  | 26192  | 139.00 | 160  | 181.00 | 43     |
| 52.00 | 1905   | 94.00  | 73080  | 139.00 | 191  | 188.00 | 32     |
| 54.00 | 16     | 95.00  | 623744 | 140.00 | 437  | 189.00 | 286    |
| 55.00 | 110    | 96.00  | 41400  | 141.00 | 5164 | 190.00 | 70     |
| 56.00 | 8604   | 101.00 | 51     | 142.00 | 988  | 191.00 | 2667   |
| 57.00 | 16728  | 103.00 | 272    | 143.00 | 5369 | 192.00 | 272    |
| 58.00 | 1154   | 103.00 | 484    | 144.00 | 185  | 193.00 | 3337   |
| 59.00 | 512    | 104.00 | 2621   | 145.00 | 665  | 194.00 | 683    |
| 60.00 | 5564   | 105.00 | 753    | 146.00 | 919  | 195.00 | 364    |
| 61.00 | 29368  | 106.00 | 2560   | 147.00 | 800  | 203.00 | 243    |
| 62.00 | 29904  | 107.00 | 740    | 148.00 | 1174 | 205.00 | 300    |
| 63.00 | 22320  | 110.00 | 127    | 149.00 | 463  | 206.00 | 94     |
| 64.00 | 2043   | 110.00 | 260    | 150.00 | 816  | 207.00 | 1485   |
| 65.00 | 108    | 111.00 | 785    | 151.00 | 181  | 208.00 | 49     |
| 66.00 | 90     | 112.00 | 633    | 152.00 | 312  | 209.00 | 62     |
| 67.00 | 1957   | 113.00 | 290    | 153.00 | 135  | 223.00 | 94     |
| 68.00 | 65544  | 115.00 | 494    | 154.00 | 458  | 229.00 | 18     |
| 69.00 | 66400  | 116.00 | 1915   | 155.00 | 1505 | 235.00 | 272    |
| 70.00 | 4532   | 117.00 | 3500   | 156.00 | 238  | 236.00 | 78     |
| 72.00 | 3372   | 118.00 | 2886   | 157.00 | 867  | 239.00 | 127    |

Report Date: 24-Oct-2024 11:38:28

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB.D\522\_GCMS-DM.rsl\spectra.d

Injection Date: 23-Oct-2024 16:07:55

Spectrum: Tune Spec :Average 788-790( 7.78-7.79 ) Bgrd 771( 7.74)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 156

| m/z   | Y      | m/z    | Y    | m/z    | Y   | m/z    | Y    |
|-------|--------|--------|------|--------|-----|--------|------|
| 73.00 | 29760  | 119.00 | 2913 | 158.00 | 25  | 247.00 | 84   |
| 74.00 | 103576 | 120.00 | 36   | 159.00 | 638 | 249.00 | 1845 |
| 75.00 | 322240 | 121.00 | 149  | 160.00 | 70  | 250.00 | 580  |
| 76.00 | 27856  | 122.00 | 214  | 161.00 | 574 | 251.00 | 1073 |
| 77.00 | 4973   | 123.00 | 174  | 163.00 | 720 | 252.00 | 326  |
| 78.00 | 3686   | 124.00 | 353  | 164.00 | 232 | 253.00 | 52   |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB.D

Injection Date: 23-Oct-2024 16:07:55

Instrument ID: GCMS-DM

Lims ID: BFB

Client ID:

Operator ID: TD

ALS Bottle#: 0

Worklist Smp#: 1

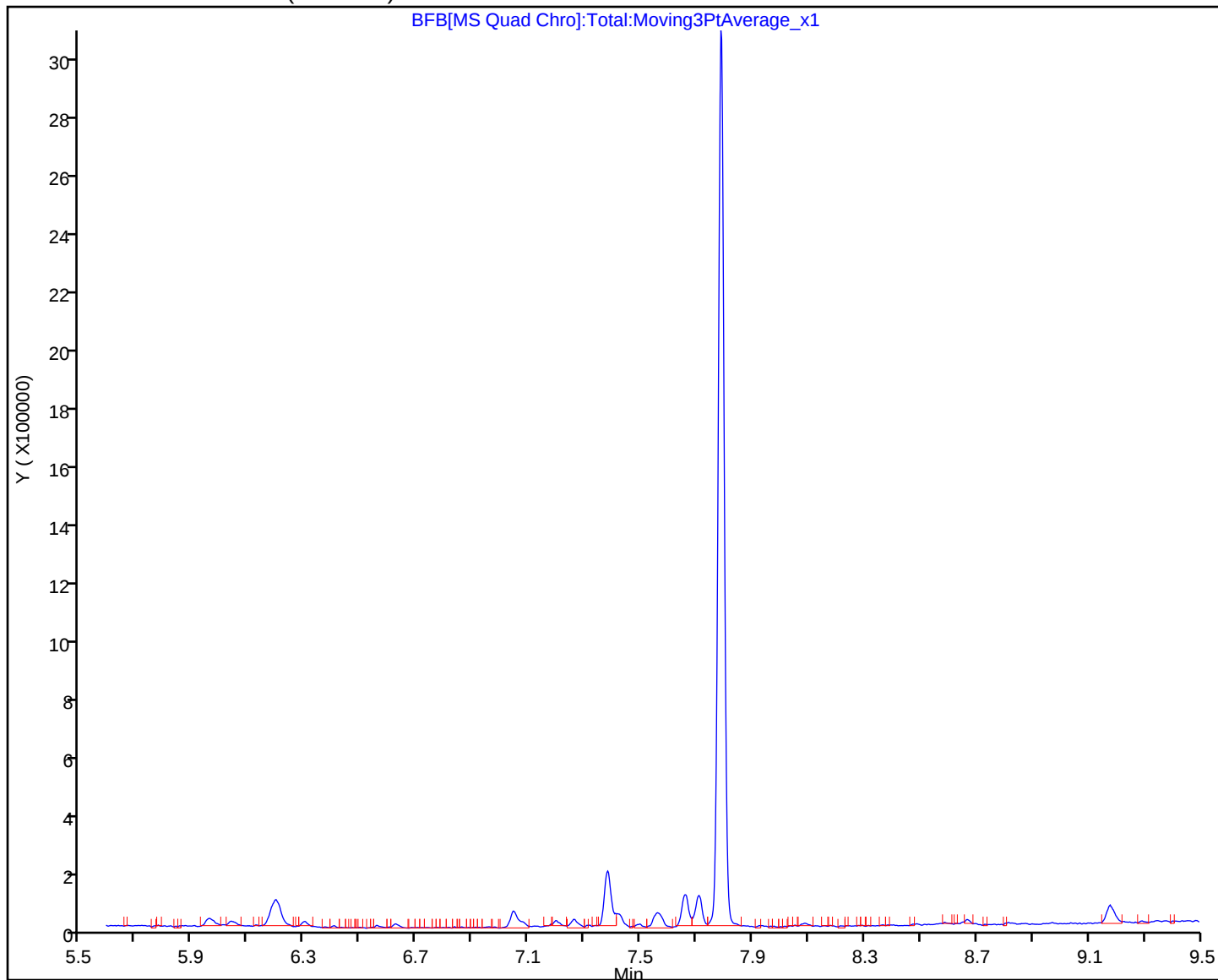
Injection Vol: 2.0 mL

Dil. Factor: 1.0000

Method: 522\_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend

Target Compound Quantitation Report

Data File:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB 2.D

Lims ID:

BFB

Client ID:

Sample Type:

BFB

Inject. Date:

23-Oct-2024 16:24:07

ALS Bottle#:

0

Worklist Smp#:

2

Injection Vol:

2.0 mL

Dil. Factor:

1.0000

Sample Info:

810-0030673-002

Misc. Info.:

BFB 2

Operator ID:

TD

Instrument ID:

GCMS-DM

Raw Data:

Smoothed

Method:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\522\_GCMS-DM.m

Limit Group:

MSS - 522

Last Update:

24-Oct-2024 11:38:29

Calib Date:

23-Oct-2024 20:03:47

Integrator:

RTE

ID Type:

Deconvolution ID

Quant Method:

Internal Standard

Quant By:

Initial Calibration

Last ICal File:

\\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D

Column 1 :

CP Select 624 MS ( 0.25 mm)

Det:

MS Quad

Process Host:

CTX1640

First Level Reviewer: JH8B

Date: 24-Oct-2024 10:51:17

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

10 BFB

Reagents:

O-522BFBSUB\_00015

Amount Added:

2.00

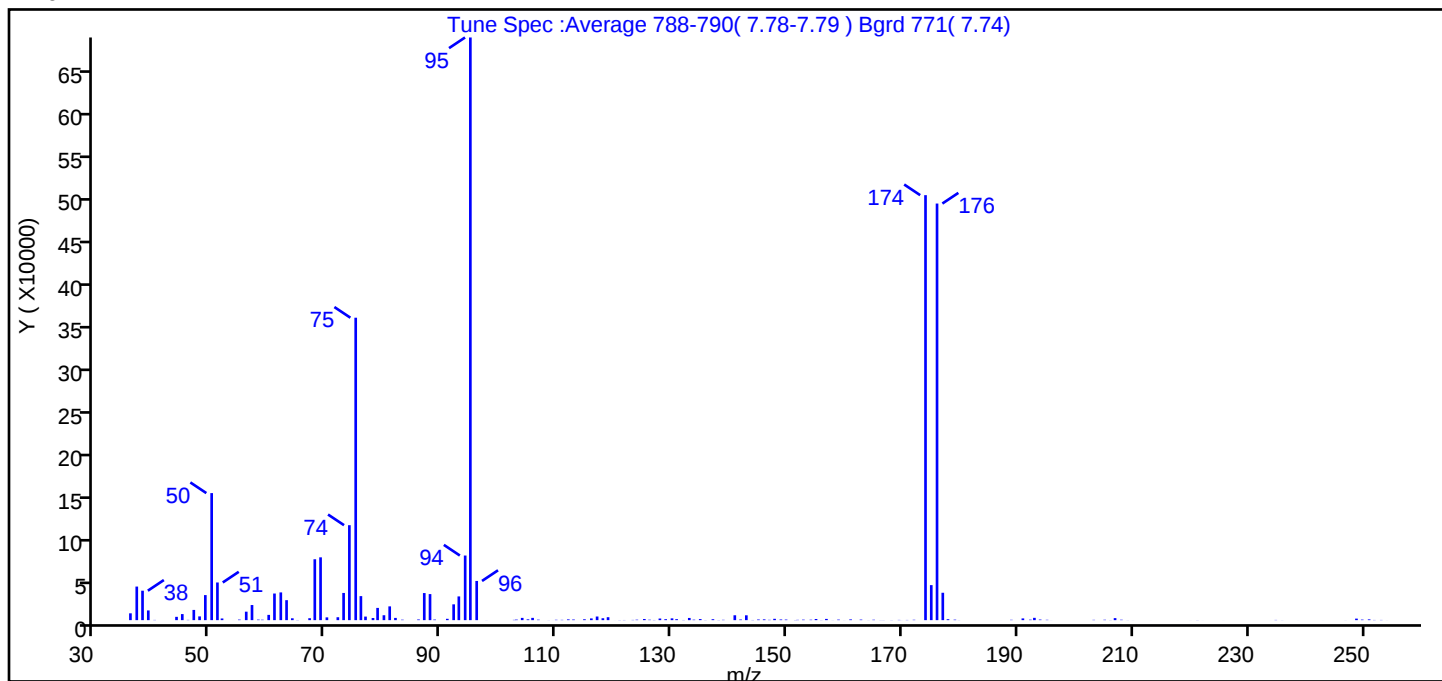
Units:

mL

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB 2.D  
Injection Date: 23-Oct-2024 16:24:07 Instrument ID: GCMS-DM  
Lims ID: BFB  
Client ID:  
Operator ID: TD ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 2.0 mL Dil. Factor: 1.0000  
Method: 522\_GCMS-DM Limit Group: MSS - 522  
Tune Method: BFB Method 524

## 10 BFB



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95  | Base Peak, 100% Relative Abundance | 100.0                |
| 50  | 15-40% of mass 95                  | 21.8                 |
| 75  | 30-80% of mass 95                  | 51.9                 |
| 96  | 5-9% of mass 95                    | 6.7                  |
| 173 | <2% of mass 174                    | 0.0 (0.0)            |
| 174 | >50% of mass 95                    | 72.9                 |
| 175 | 5-9% of mass 174                   | 6.0 (8.2)            |
| 176 | >95% but <101% of mass 174         | 71.5 (98.0)          |
| 177 | 5-9% of mass 176                   | 4.7 (6.6)            |

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB 2.D\522\_GCMS-DM.rslt\spectra.d  
Injection Date: 23-Oct-2024 16:24:07  
Spectrum: Tune Spec :Average 788-790( 7.78-7.79 ) Bgrd 771( 7.74)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 161

| m/z   | Y      | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|-------|--------|--------|--------|--------|------|--------|--------|
| 36.00 | 7971   | 83.00  | 518    | 132.00 | 187  | 176.00 | 486464 |
| 37.00 | 39208  | 86.00  | 785    | 133.00 | 2559 | 177.00 | 31984  |
| 38.00 | 34376  | 87.00  | 31624  | 134.00 | 547  | 178.00 | 1066   |
| 39.00 | 11346  | 88.00  | 30424  | 135.00 | 1251 | 179.00 | 570    |
| 40.00 | 256    | 89.00  | 665    | 136.00 | 119  | 180.00 | 78     |
| 44.00 | 3864   | 91.00  | 1562   | 137.00 | 1085 | 187.00 | 23     |
| 45.00 | 7076   | 92.00  | 18456  | 138.00 | 143  | 189.00 | 399    |
| 46.00 | 301    | 93.00  | 27704  | 139.00 | 382  | 191.00 | 2012   |
| 47.00 | 11937  | 94.00  | 75448  | 141.00 | 5689 | 192.00 | 570    |
| 48.00 | 4378   | 95.00  | 680384 | 142.00 | 736  | 193.00 | 2695   |
| 49.00 | 29248  | 96.00  | 45768  | 143.00 | 5651 | 194.00 | 686    |
| 50.00 | 148352 | 98.00  | 59     | 144.00 | 189  | 195.00 | 405    |
| 51.00 | 43984  | 103.00 | 315    | 145.00 | 751  | 196.00 | 41     |
| 52.00 | 1954   | 103.00 | 636    | 146.00 | 900  | 203.00 | 349    |
| 54.00 | 17     | 104.00 | 2631   | 147.00 | 358  | 205.00 | 462    |
| 55.00 | 658    | 105.00 | 930    | 148.00 | 1561 | 206.00 | 111    |
| 56.00 | 9893   | 106.00 | 2655   | 149.00 | 775  | 207.00 | 2356   |
| 57.00 | 17640  | 107.00 | 561    | 150.00 | 681  | 208.00 | 488    |
| 58.00 | 635    | 109.00 | 80     | 151.00 | 168  | 209.00 | 75     |
| 59.00 | 502    | 109.00 | 23     | 152.00 | 352  | 210.00 | 38     |
| 60.00 | 6152   | 110.00 | 424    | 153.00 | 577  | 213.00 | 22     |
| 61.00 | 31088  | 111.00 | 345    | 154.00 | 506  | 218.00 | 16     |
| 62.00 | 32384  | 112.00 | 880    | 155.00 | 1329 | 220.00 | 35     |
| 63.00 | 23328  | 113.00 | 724    | 156.00 | 121  | 221.00 | 110    |
| 64.00 | 2165   | 115.00 | 1021   | 157.00 | 1434 | 222.00 | 25     |
| 65.00 | 180    | 116.00 | 2010   | 158.00 | 67   | 226.00 | 25     |
| 67.00 | 2262   | 117.00 | 4236   | 159.00 | 634  | 234.00 | 21     |
| 68.00 | 71104  | 118.00 | 2220   | 160.00 | 53   | 235.00 | 259    |
| 69.00 | 73344  | 119.00 | 3433   | 161.00 | 862  | 236.00 | 71     |
| 70.00 | 3239   | 120.00 | 31     | 163.00 | 639  | 239.00 | 22     |
| 72.00 | 3398   | 121.00 | 140    | 164.00 | 70   | 243.00 | 20     |
| 73.00 | 31752  | 122.00 | 188    | 165.00 | 476  | 247.00 | 53     |
| 74.00 | 110880 | 123.00 | 263    | 166.00 | 95   | 249.00 | 1777   |

Report Date: 24-Oct-2024 11:38:29

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB 2.D\522\_GCMS-DM.rslt\spectra.d

Injection Date: 23-Oct-2024 16:24:07

Spectrum: Tune Spec :Average 788-790( 7.78-7.79 ) Bgrd 771( 7.74)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 161

| m/z   | Y      | m/z    | Y    | m/z    | Y      | m/z    | Y   |
|-------|--------|--------|------|--------|--------|--------|-----|
| 75.00 | 353152 | 124.00 | 544  | 167.00 | 103    | 250.00 | 628 |
| 76.00 | 28056  | 125.00 | 1317 | 168.00 | 121    | 251.00 | 897 |
| 77.00 | 4157   | 126.00 | 498  | 169.00 | 279    | 252.00 | 228 |
| 78.00 | 2509   | 127.00 | 187  | 170.00 | 53     | 253.00 | 239 |
| 79.00 | 14286  | 128.00 | 1865 | 171.00 | 232    | 254.00 | 37  |
| 80.00 | 5722   | 129.00 | 1113 | 172.00 | 438    |        |     |
| 81.00 | 16088  | 130.00 | 2078 | 174.00 | 496256 |        |     |
| 82.00 | 2609   | 131.00 | 1154 | 175.00 | 40896  |        |     |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\BFB 2.D

Injection Date: 23-Oct-2024 16:24:07

Instrument ID: GCMS-DM

Lims ID: BFB

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

2

Injection Vol: 2.0 mL

Dil. Factor:

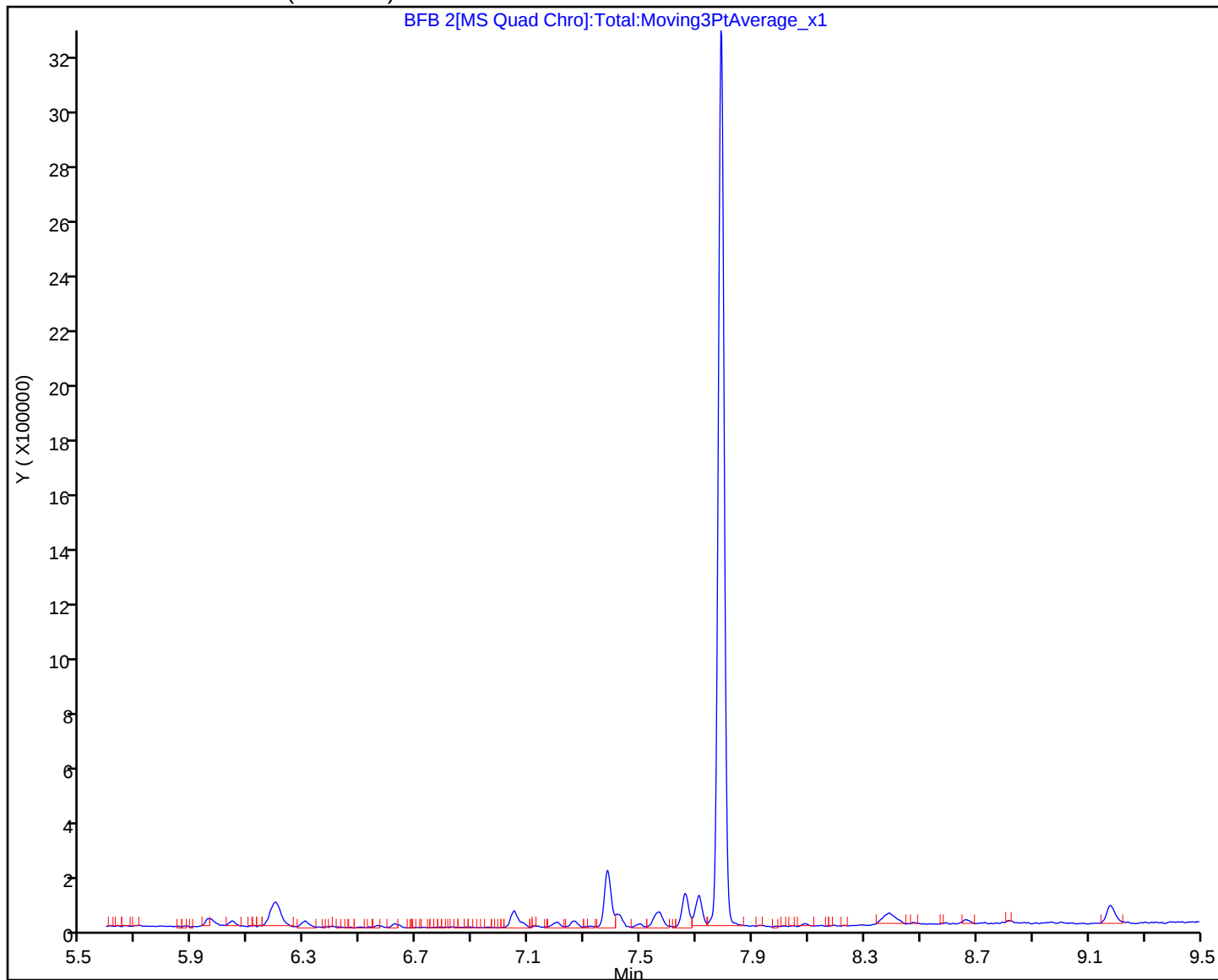
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                                   |                                          |
|---------------------------------------------------|------------------------------------------|
| Lab Name: Eurofins Eaton Analytical South<br>Bend | Job No.: 810-125238-1                    |
| SDG No.:                                          |                                          |
| Client Sample ID:                                 | Lab Sample ID: MBL 810-120092/1-A        |
| Matrix: Drinking Water                            | Lab File ID: MBL.D                       |
| Analysis Method: 522                              | Date Collected:                          |
| Extract. Method: 522                              | Date Extracted: 10/24/2024 06:46         |
| Sample wt/vol: 100 (mL)                           | Date Analyzed: 10/25/2024 14:59          |
| Con. Extract Vol.: 2 (mL)                         | Dilution Factor: 1                       |
| Injection Volume: 1 (uL)                          | GC Column: CPSelect 624 MS ID: 0.25 (mm) |
| % Moisture:                      % Solids:        | GPC Cleanup: (Y/N) N                     |
| Cleanup Factor:                                   | Level: (low/med) Low                     |
| Analysis Batch No.: 120316                        | Units: ug/L                              |
| Preparation Batch No.: 120092                     | Instrument ID: GCMS-DM                   |

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL    |
|----------|---------------|--------|---|-------|
| 123-91-1 | 1,4-Dioxane   | <0.062 |   | 0.070 |

| CAS NO.    | SURROGATE             | %REC | Q | LIMITS |
|------------|-----------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8 (Surr) | 92   |   | 70-130 |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\MBL.D  
Lims ID: MBL 810-120092/1-A  
Client ID:  
Sample Type: MBL  
Inject. Date: 25-Oct-2024 14:59:14 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-002  
Misc. Info.: MBL 810-120092/1-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:13 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:44

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 26 | 60825    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 38891    | 500.0           | 457.8             |       |
| 11 1,4-Dioxane             | 88  |              | 8.315            |                  |    |          |                 | ND                | U     |
| 10 BFB                     |     |              |                  |                  |    |          |                 |                   |       |

## QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\MBL.D

Injection Date: 25-Oct-2024 14:59:14

Instrument ID: GCMS-DM

Lims ID: MBL 810-120092/1-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

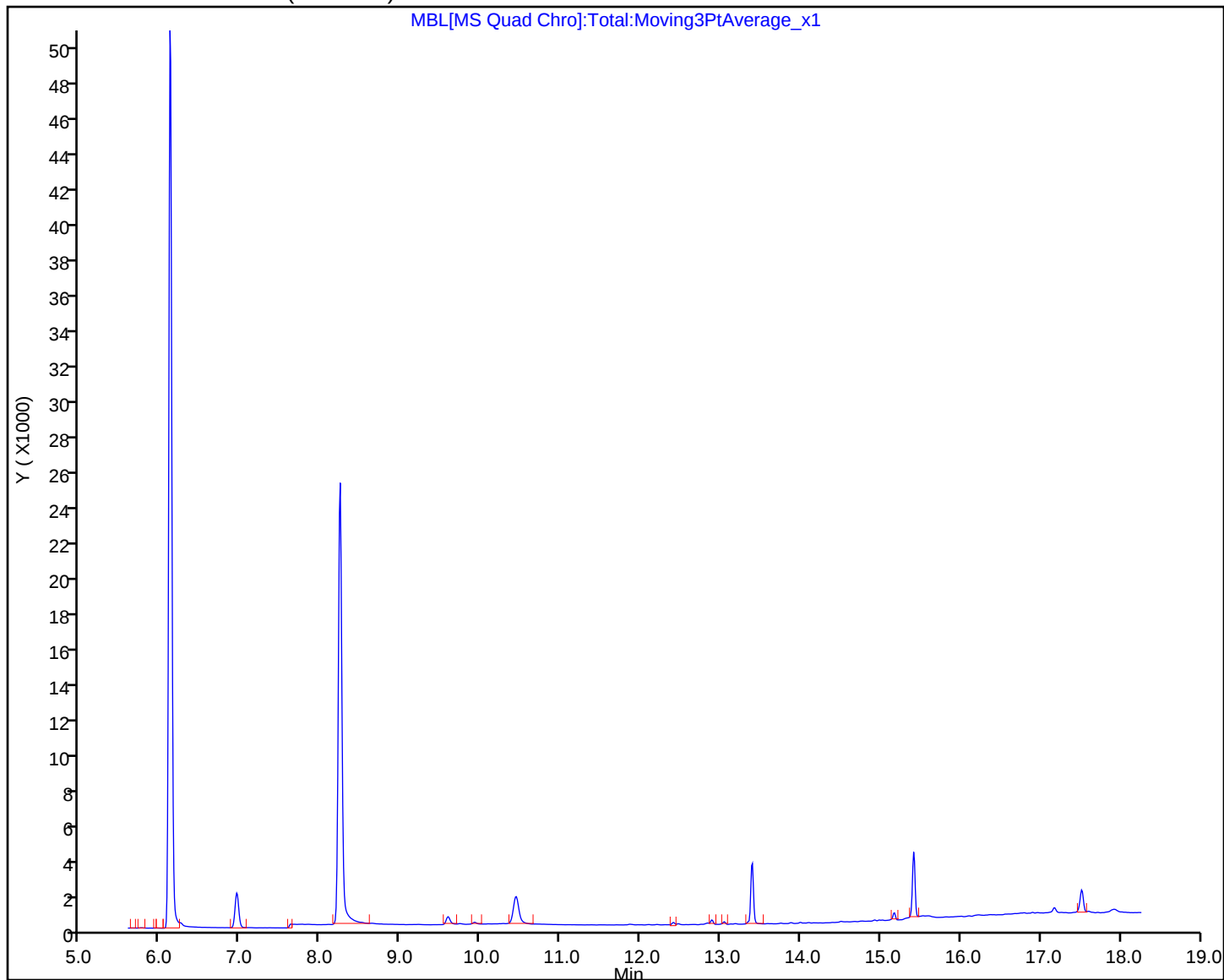
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\MBL.D  
Lims ID: MBL 810-120092/1-A  
Client ID:  
Sample Type: MBL  
Inject. Date: 25-Oct-2024 14:59:14 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-002  
Misc. Info.: MBL 810-120092/1-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:13 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:44

| Compound                   | Amount Added | Amount Recovered | % Rec. |
|----------------------------|--------------|------------------|--------|
| \$ 9 1,4-Dioxane-d8 (Surr) | 500.0        | 457.8            | 91.56  |

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\MBL.D

Injection Date: 25-Oct-2024 14:59:14

Instrument ID: GCMS-DM

Lims ID: MBL 810-120092/1-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

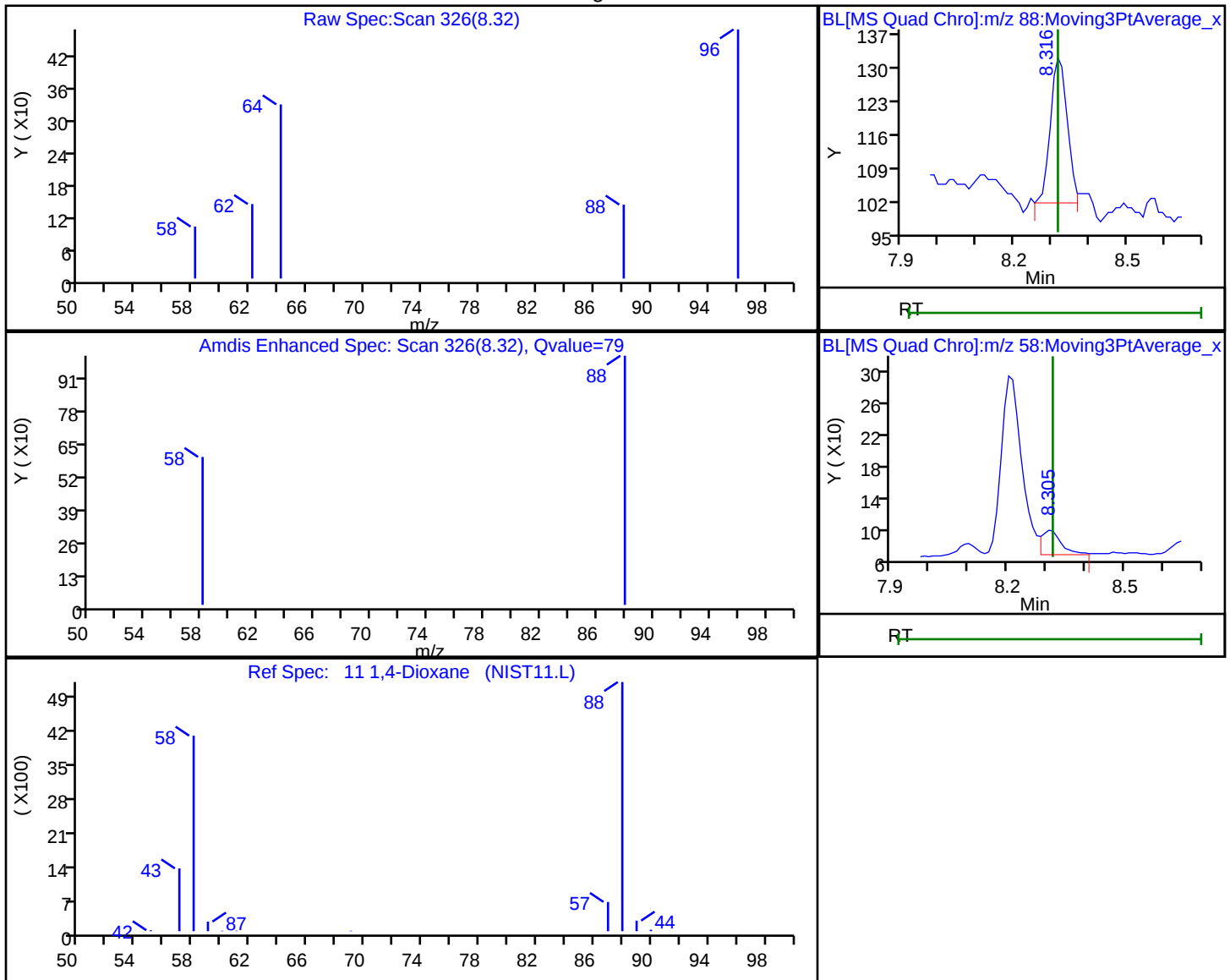
Column: CP Select 624 MS ( 0.25 mm)

Detector

MS Quad

## 11 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.32 | 88.00 | 97       | 0.586337 |
| 8.31 | 58.00 | 105      |          |

Reviewer: JH8B, 28-Oct-2024 09:26:43 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend  
Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 810-120092/3-A

Matrix: Drinking Water Lab File ID: LCS.D

Analysis Method: 522 Date Collected: \_\_\_\_\_

Extract. Method: 522 Date Extracted: 10/24/2024 06:46

Sample wt/vol: 100 (mL) Date Analyzed: 10/25/2024 15:51

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N

Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 120316 Units: ug/L

Preparation Batch No.: 120092 Instrument ID: GCMS-DM

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL    |
|----------|---------------|--------|---|-------|
| 123-91-1 | 1,4-Dioxane   | 9.31   |   | 0.070 |

| CAS NO.    | SURROGATE             | %REC | Q | LIMITS |
|------------|-----------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8 (Surr) | 90   |   | 70-130 |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LCS.D  
Lims ID: LCS 810-120092/3-A  
Client ID:  
Sample Type: LCS  
Inject. Date: 25-Oct-2024 15:51:06 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-004  
Misc. Info.: LCS 810-120092/3-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:13 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:54

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.122            | -0.008           | 24 | 58146    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 36386    | 500.0           | 448.0             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.315            | 0.001            | 85 | 42954    | 500.0           | 465.7             |       |

## QC Flag Legend

Processing Flags

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LCS.D

Injection Date: 25-Oct-2024 15:51:06

Instrument ID: GCMS-DM

Lims ID: LCS 810-120092/3-A

Client ID:

Operator ID: TD

ALS Bottle#:

0

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

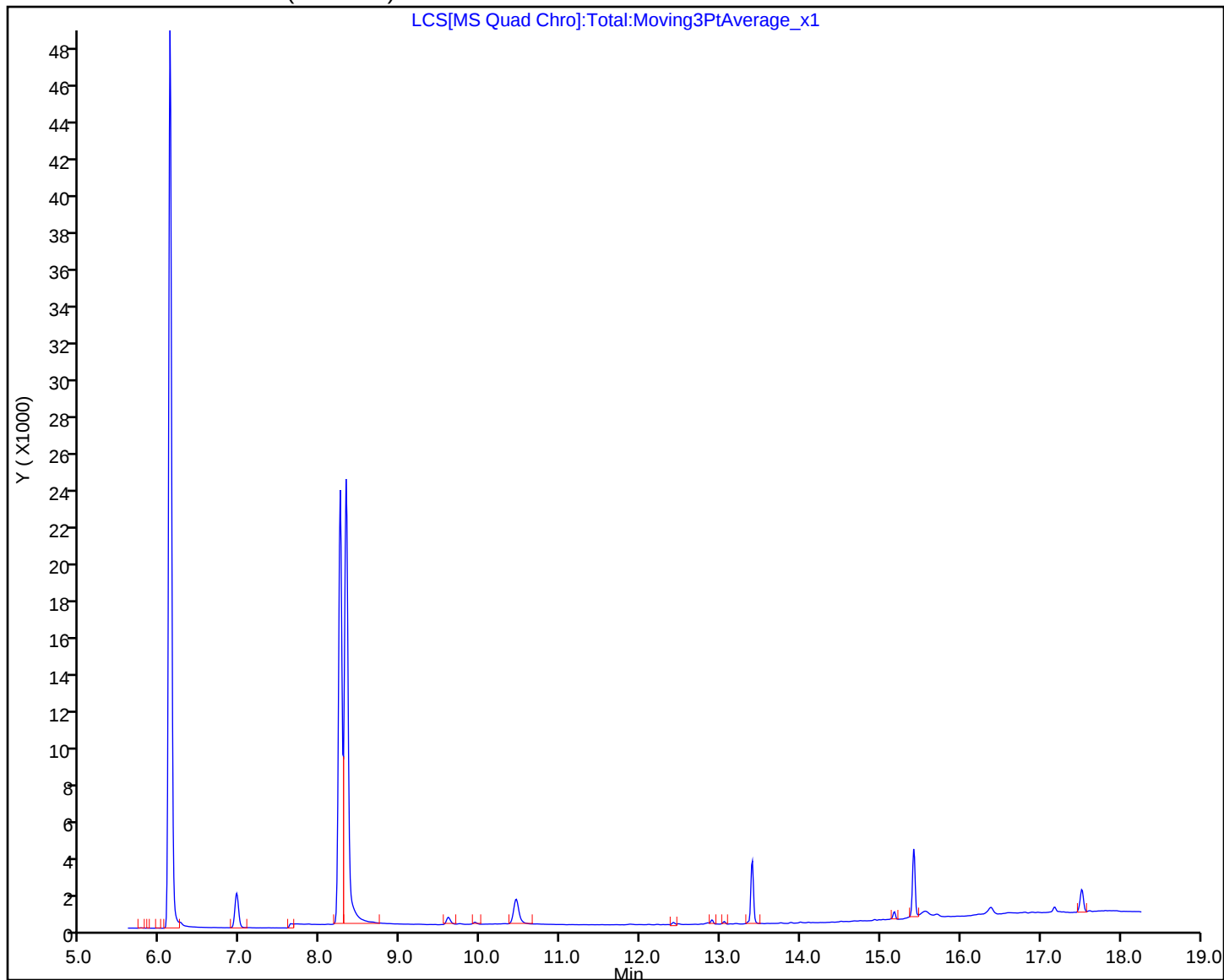
1.0000

Method: 522\_GCMS-DM

Limit Group:

MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LCS.D  
Lims ID: LCS 810-120092/3-A  
Client ID:  
Sample Type: LCS  
Inject. Date: 25-Oct-2024 15:51:06 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-004  
Misc. Info.: LCS 810-120092/3-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:13 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:54

| Compound                   | Amount Added | Amount Recovered | % Rec. |
|----------------------------|--------------|------------------|--------|
| \$ 9 1,4-Dioxane-d8 (Surr) | 500.0        | 448.0            | 89.61  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South Bend  
Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LLCS 810-120092/2-A

Matrix: Drinking Water Lab File ID: LLCS.D

Analysis Method: 522 Date Collected: \_\_\_\_\_

Extract. Method: 522 Date Extracted: 10/24/2024 06:46

Sample wt/vol: 100 (mL) Date Analyzed: 10/25/2024 15:25

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: CPSelect 624 MS ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N

Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 120316 Units: ug/L

Preparation Batch No.: 120092 Instrument ID: GCMS-DM

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL    |
|----------|---------------|--------|---|-------|
| 123-91-1 | 1,4-Dioxane   | 0.0717 |   | 0.070 |

| CAS NO.    | SURROGATE             | %REC | Q | LIMITS |
|------------|-----------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8 (Surr) | 89   |   | 70-130 |

Eurofins Eaton Analytical South Bend  
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LLCS.D  
Lims ID: LLCS 810-120092/2-A  
Client ID:  
Sample Type: LLCS  
Inject. Date: 25-Oct-2024 15:25:22 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-003  
Misc. Info.: LLCS 810-120092/2-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:45 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:49

| Compound                   | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 5 Tetrahydrofuran-d8     | 46  | 6.114        | 6.114            | 0.000            | 27 | 59829    | 500.0           | 500.0             |       |
| \$ 9 1,4-Dioxane-d8 (Surr) | 96  | 8.243        | 8.243            | 0.000            | 0  | 37127    | 500.0           | 444.3             |       |
| 11 1,4-Dioxane             | 88  | 8.316        | 8.316            | 0.000            | 83 | 380      | 3.50            | 3.59              |       |

## QC Flag Legend

Processing Flags

## Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LLCS.D

Injection Date: 25-Oct-2024 15:25:22

Instrument ID: GCMS-DM

Lims ID: LLCS 810-120092/2-A

Client ID:

Operator ID: TD

ALS Bottle#: 0

Worklist Smp#: 3

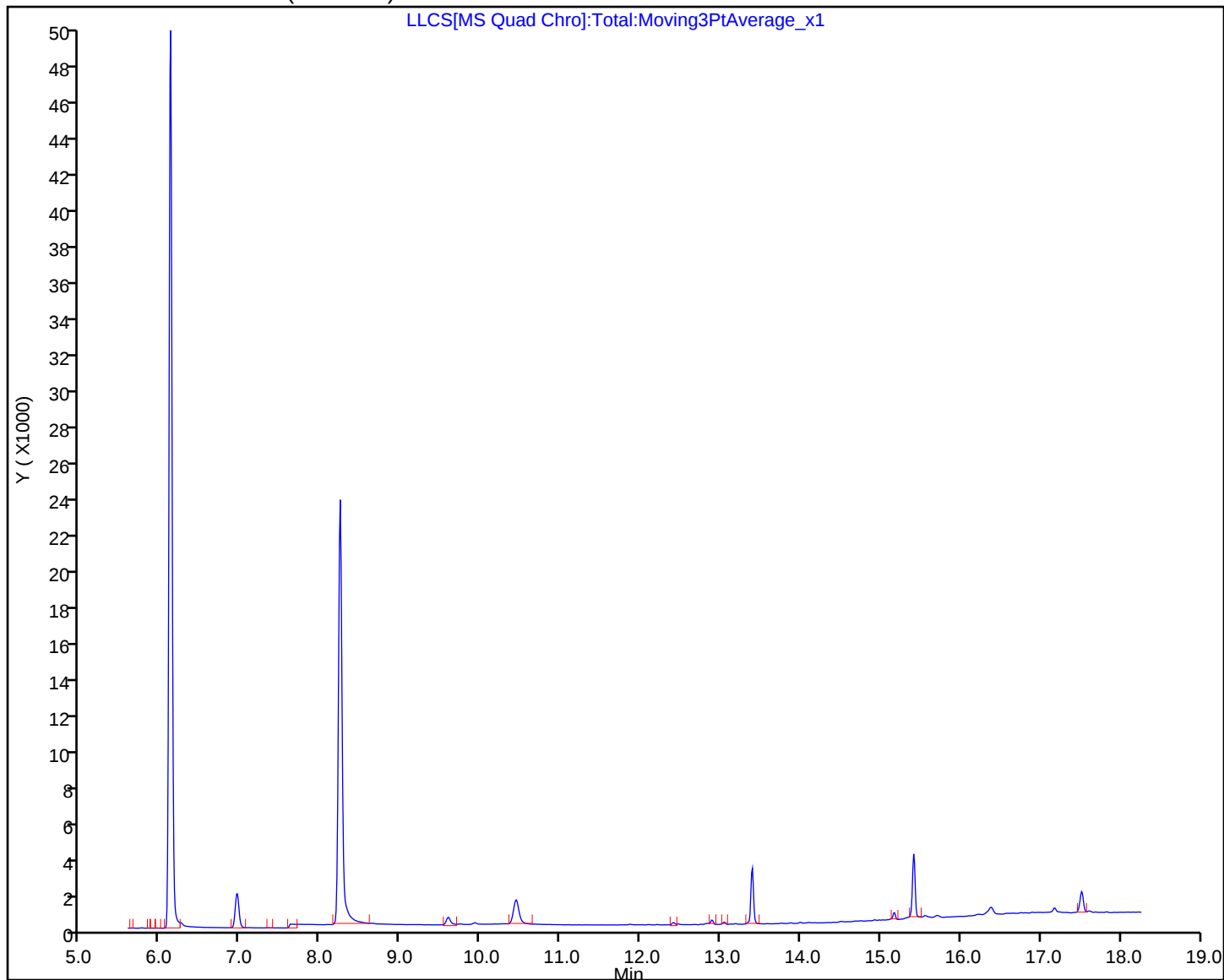
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522\_GCMS-DM

Limit Group: MSS - 522

Column: CP Select 624 MS ( 0.25 mm)



Eurofins Eaton Analytical South Bend  
Recovery Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\LLCS.D  
Lims ID: LLCS 810-120092/2-A  
Client ID:  
Sample Type: LLCS  
Inject. Date: 25-Oct-2024 15:25:22 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info: 810-0030755-003  
Misc. Info.: LLCS 810-120092/2-A  
Operator ID: TD Instrument ID: GCMS-DM  
Raw Data: Smoothed  
Method: \\ChromFS\Southbend\ChromData\GCMS-DM\20241025-30755.b\522\_GCMS-DM.m  
Limit Group: MSS - 522  
Last Update: 28-Oct-2024 10:18:45 Calib Date: 23-Oct-2024 20:03:47  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-DM\20241023-30673.b\L9.D  
Column 1 : CP Select 624 MS ( 0.25 mm) Det: MS Quad  
Process Host: CTX1637

First Level Reviewer: JH8B

Date: 28-Oct-2024 09:26:49

| Compound                   | Amount Added | Amount Recovered | % Rec. |
|----------------------------|--------------|------------------|--------|
| \$ 9 1,4-Dioxane-d8 (Surr) | 500.0        | 444.3            | 88.86  |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-125238-1

SDG No.:

Instrument ID: GCMS-DM

Start Date: 10/23/2024 16:07

Analysis Batch Number: 120057

End Date: 10/24/2024 08:53

| LAB SAMPLE ID            | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|--------------------------|------------------|------------------|--------------------|-------------|------------------------------|
| BFB 810-120057/1         |                  | 10/23/2024 16:07 | 1                  | BFB.D       | CPSelect 624 MS<br>0.25 (mm) |
| BFB 810-120057/2         |                  | 10/23/2024 16:24 | 1                  | BFB 2.D     | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/4-A        |                  | 10/23/2024 16:39 | 1                  | L1.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/5-A        |                  | 10/23/2024 17:05 | 1                  | L2.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/6-A        |                  | 10/23/2024 17:31 | 1                  | L3.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/7-A        |                  | 10/23/2024 17:56 | 1                  | L4.D        | CPSelect 624 MS<br>0.25 (mm) |
| ICISAV<br>810-119843/8-A |                  | 10/23/2024 18:21 | 1                  | ICRT.D      | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/9-A        |                  | 10/23/2024 18:46 | 1                  | L6.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/10-A       |                  | 10/23/2024 19:12 | 1                  | L7.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/11-A       |                  | 10/23/2024 19:37 | 1                  | L8.D        | CPSelect 624 MS<br>0.25 (mm) |
| IC 810-119843/12-A       |                  | 10/23/2024 20:03 | 1                  | L9.D        | CPSelect 624 MS<br>0.25 (mm) |
| CCVLIS<br>810-119923/1-A |                  | 10/23/2024 20:55 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ICV 810-119843/13-A      |                  | 10/23/2024 21:21 | 1                  | ICV.D       | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (QC)               |                  | 10/23/2024 22:12 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (QC)               |                  | 10/23/2024 22:38 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/23/2024 23:03 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/23/2024 23:29 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/23/2024 23:54 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 00:20 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 00:46 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 01:12 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 01:38 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 02:04 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 02:30 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 02:55 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| CCVIS 810-119923/2-A     |                  | 10/24/2024 03:21 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 03:46 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 04:11 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 04:37 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                  | 10/24/2024 05:03 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (QC)               |                  | 10/24/2024 05:28 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Instrument ID: GCMS-DM Start Date: 10/23/2024 16:07Analysis Batch Number: 120057 End Date: 10/24/2024 08:53

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|--------------------|------------------|------------------|--------------------|-------------|------------------------------|
| ZZZZZ (QC)         |                  | 10/24/2024 05:54 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 06:19 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 06:44 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 07:10 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 07:35 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 08:01 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)     |                  | 10/24/2024 08:27 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| CCV 810-119923/3-A |                  | 10/24/2024 08:53 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-125238-1

SDG No.:

Instrument ID: GCMS-DM

Start Date: 10/25/2024 14:07

Analysis Batch Number: 120316

End Date: 10/26/2024 05:16

| LAB SAMPLE ID            | CLIENT SAMPLE ID     | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID        | COLUMN ID                    |
|--------------------------|----------------------|------------------|--------------------|--------------------|------------------------------|
| CCVLIS<br>810-120093/2-A |                      | 10/25/2024 14:07 | 1                  | CCVLIS.D           | CPSelect 624 MS<br>0.25 (mm) |
| MBL 810-120092/1-A       |                      | 10/25/2024 14:59 | 1                  | MBL.D              | CPSelect 624 MS<br>0.25 (mm) |
| LLCS 810-120092/2-A      |                      | 10/25/2024 15:25 | 1                  | LLCS.D             | CPSelect 624 MS<br>0.25 (mm) |
| LCS 810-120092/3-A       |                      | 10/25/2024 15:51 | 1                  | LCS.D              | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 16:16 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 16:41 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 17:07 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 17:34 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 17:59 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 18:25 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 18:51 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 19:17 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 19:43 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 20:09 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| CCVIS 810-120093/4-A     |                      | 10/25/2024 20:35 | 1                  | CCVM.D             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 21:01 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 21:27 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 21:53 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (QC)               |                      | 10/25/2024 22:19 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (QC)               |                      | 10/25/2024 22:46 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 23:11 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/25/2024 23:37 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| 810-125238-1             | BPOW6-11HYD-20241016 | 10/26/2024 00:03 | 1                  | 810-125238-A-1-A.D | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 00:30 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 00:56 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 01:22 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 01:49 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| CCV 810-120093/5-A       |                      | 10/26/2024 02:14 | 1                  | CCVH.D             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 02:40 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 03:06 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)           |                      | 10/26/2024 03:32 | 1                  |                    | CPSelect 624 MS<br>0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Instrument ID: GCMS-DM Start Date: 10/25/2024 14:07Analysis Batch Number: 120316 End Date: 10/26/2024 05:16

| LAB SAMPLE ID        | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID                    |
|----------------------|------------------|------------------|--------------------|-------------|------------------------------|
| ZZZZZ (Client)       |                  | 10/26/2024 03:59 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)       |                  | 10/26/2024 04:25 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| ZZZZZ (Client)       |                  | 10/26/2024 04:51 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |
| CCVIS 810-120093/4-A |                  | 10/26/2024 05:16 | 1                  |             | CPSelect 624 MS<br>0.25 (mm) |

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Batch Number: 119843 Batch Start Date: 10/22/24 10:21 Batch Analyst: Balkema, HaleyBatch Method: 522 Batch End Date: \_\_\_\_\_

| Lab Sample ID          | Client Sample ID | Method Chain | Matrix | Basis | InitialAmount | FinalAmount | 522 IS SS<br>00214 | 522-Sur-SS<br>00113 | O-522 CalM<br>00015 | O-522-CalH<br>00012 |
|------------------------|------------------|--------------|--------|-------|---------------|-------------|--------------------|---------------------|---------------------|---------------------|
| IC 810-119843/4        |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     |                     |
| IC 810-119843/5        |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     |                     |
| IC 810-119843/6        |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     |                     |
| IC 810-119843/7        |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               | 5 uL                |                     |
| ICISAV<br>810-119843/8 |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               | 10 uL               |                     |
| IC 810-119843/9        |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               | 20 uL               |                     |
| IC<br>810-119843/10    |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     | 5 uL                |
| IC<br>810-119843/11    |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     | 10 uL               |
| IC<br>810-119843/12    |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     | 20 uL               |
| ICV<br>810-119843/13   |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     |                     |

| Lab Sample ID          | Client Sample ID | Method Chain | Matrix | Basis | O-522-QCS-Sub<br>00007 | O522-CalL<br>00016 |  |  |  |  |
|------------------------|------------------|--------------|--------|-------|------------------------|--------------------|--|--|--|--|
| IC 810-119843/4        |                  | 522, 522     |        |       |                        | 7 uL               |  |  |  |  |
| IC 810-119843/5        |                  | 522, 522     |        |       |                        | 10 uL              |  |  |  |  |
| IC 810-119843/6        |                  | 522, 522     |        |       |                        | 20 uL              |  |  |  |  |
| IC 810-119843/7        |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| ICISAV<br>810-119843/8 |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| IC 810-119843/9        |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| IC<br>810-119843/10    |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| IC<br>810-119843/11    |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| IC<br>810-119843/12    |                  | 522, 522     |        |       |                        |                    |  |  |  |  |
| ICV<br>810-119843/13   |                  | 522, 522     |        |       | 10 uL                  |                    |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Batch Number: 119843 Batch Start Date: 10/22/24 10:21 Batch Analyst: Balkema, HaleyBatch Method: 522 Batch End Date: \_\_\_\_\_

| Batch Notes             |         |
|-------------------------|---------|
| MeCL2 ID                | 1608540 |
| Balance ID              | B27     |
| Balance is Level? (Y/N) | yes     |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Batch Number: 120057 Batch Start Date: 10/23/24 16:07 Batch Analyst: Orpurt, KylaBatch Method: 522 Batch End Date: \_\_\_\_\_

| Lab Sample ID            | Client Sample ID | Method Chain | Matrix | Basis | FinalAmount | O-522BFBSUB<br>00015 |  |  |  |  |
|--------------------------|------------------|--------------|--------|-------|-------------|----------------------|--|--|--|--|
| BFB<br>810-120057/1      |                  | 522          |        |       | 2 mL        | 2 mL                 |  |  |  |  |
| BFB<br>810-120057/2      |                  | 522          |        |       | 2 mL        | 2 mL                 |  |  |  |  |
| IC<br>810-119843/4-A     |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/5-A     |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/6-A     |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/7-A     |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| ICISAV<br>810-119843/8-A |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/9-A     |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/10-A    |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/11-A    |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| IC<br>810-119843/12-A    |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |
| ICV<br>810-119843/13-A   |                  | 522          |        |       | 2 mL        |                      |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Batch Number: 120092 Batch Start Date: 10/24/24 06:46 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: \_\_\_\_\_

| Lab Sample ID     | Client Sample ID      | Method Chain | Matrix   | Basis | GrossWeight | TareWeight | InitialAmount | FinalAmount | 522 IS SS 00215 | 522-Sur-SS 00113 |
|-------------------|-----------------------|--------------|----------|-------|-------------|------------|---------------|-------------|-----------------|------------------|
| MBL 810-120092/1  |                       | 522, 522     |          |       | 100 g       | 0 g        | 100 mL        | 2 mL        | 10 uL           | 10 uL            |
| LLCS 810-120092/2 |                       | 522, 522     |          |       | 100 g       | 0 g        | 100 mL        | 2 mL        | 10 uL           | 10 uL            |
| LCS 810-120092/3  |                       | 522, 522     |          |       | 100 g       | 0 g        | 100 mL        | 2 mL        | 10 uL           | 10 uL            |
| 810-125238-A-1    | BPOW6-11HYD-202 41016 | 522, 522     | aking We | T     | 100 g       | 0 g        | 100 mL        | 2 mL        | 10 uL           | 10 uL            |

| Lab Sample ID     | Client Sample ID      | Method Chain | Matrix   | Basis | O-522-CalH 00012 | O522-CalL 00016 | AnalysisCommen t |  |  |  |
|-------------------|-----------------------|--------------|----------|-------|------------------|-----------------|------------------|--|--|--|
| MBL 810-120092/1  |                       | 522, 522     |          |       |                  |                 | Y2               |  |  |  |
| LLCS 810-120092/2 |                       | 522, 522     |          |       |                  | 7 uL            | Y3               |  |  |  |
| LCS 810-120092/3  |                       | 522, 522     |          |       | 10 uL            |                 | Y4               |  |  |  |
| 810-125238-A-1    | BPOW6-11HYD-202 41016 | 522, 522     | aking We | T     |                  |                 | Q5               |  |  |  |

| Batch Notes             |           |
|-------------------------|-----------|
| MeCL2 ID                | 1608540   |
| Methanol ID             | 1539547   |
| SPE Cartridge Lot ID    | 1473492   |
| Sodium Sulfite ID       | 1456825   |
| Na2SO4 ID               | 1610675   |
| Sodium Bisulfate ID     | 660717    |
| Reagent Water ID        | Micro Tap |
| Balance ID              | B27       |
| Balance is Level? (Y/N) | yes       |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-125238-1

SDG No.: \_\_\_\_\_

Batch Number: 120093 Batch Start Date: 10/24/24 06:46 Batch Analyst: Miller, AnnaBatch Method: 522 Batch End Date: \_\_\_\_\_

| Lab Sample ID          | Client Sample ID | Method Chain | Matrix | Basis | InitialAmount | FinalAmount | 522 IS SS<br>00215 | 522-Sur-SS<br>00113 | O-522 CalM<br>00015 | O-522-CalH<br>00012 |
|------------------------|------------------|--------------|--------|-------|---------------|-------------|--------------------|---------------------|---------------------|---------------------|
| CCVLIS<br>810-120093/2 |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     |                     |
| CCVIS<br>810-120093/4  |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               | 10 uL               |                     |
| CCV<br>810-120093/5    |                  | 522, 522     |        |       | 2 mL          | 2 mL        | 10 uL              | 10 uL               |                     | 10 uL               |

| Lab Sample ID          | Client Sample ID | Method Chain | Matrix | Basis | O522-CalL<br>00016 |  |  |  |  |  |
|------------------------|------------------|--------------|--------|-------|--------------------|--|--|--|--|--|
| CCVLIS<br>810-120093/2 |                  | 522, 522     |        |       | 7 uL               |  |  |  |  |  |
| CCVIS<br>810-120093/4  |                  | 522, 522     |        |       |                    |  |  |  |  |  |
| CCV<br>810-120093/5    |                  | 522, 522     |        |       |                    |  |  |  |  |  |

| Batch Notes             |         |
|-------------------------|---------|
| MeCL2 ID                | 1608540 |
| Balance ID              | B27     |
| Balance is Level? (Y/N) | yes     |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

|                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---|---|---|-------------|--|--|--|--|------------------|------------------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| <b>CHEMTECH</b><br>CHAIN OF CUSTODY RECORD                                                                                                                                           |                               | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 Fax: (908) 78-8922<br>www.chemtech.net                                                                                                                                                                                                                                                                                         |             |      |                   | Chemtech Project Number: <span style="font-size: 1.2em;">P4440/41</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| CLIENT INFORMATION                                                                                                                                                                   |                               | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                                           |             |      |                   | BILLING INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| COMPANY: Tetra Tech                                                                                                                                                                  |                               | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                                  |             |      |                   | BILL TO: SEE CONTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |   |   |   | PO#         |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| ADDRESS: 4433 Corporation Lane Suite 300                                                                                                                                             |                               | PROJECT #: 112G08005-WE13 LOCATION: VPB-196                                                                                                                                                                                                                                                                                                                                                   |             |      |                   | ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| CITY: Virginia Beach STATE: VA ZIP: 23462                                                                                                                                            |                               | PROJECT MANAGER: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                     |             |      |                   | CITY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |   |   |   | STATE: ZIP: |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| ATTENTION: Ernie Wu                                                                                                                                                                  |                               | E-MAIL: ernie.wu@tetratech.com                                                                                                                                                                                                                                                                                                                                                                |             |      |                   | ATTENTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |   |   |   | PHONE:      |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                |                               | PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                         |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| DATA TURNAROUND INFORMATION                                                                                                                                                          |                               | DATA DELIVERABLE INFORMATION                                                                                                                                                                                                                                                                                                                                                                  |             |      |                   | ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| FAX: _____ 2 & 10 _____ DAYS*<br>HARD COPY: _____ 2 & 10 _____ DAYS*<br>EDD _____ 2 & 10 _____ DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS |                               | <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP<br><input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B"<br><input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"<br><input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____<br><input type="checkbox"/> EDD Format _____ |             |      |                   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC(SW846-8260B)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (8270 SIM)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (522)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td><td></td><td></td><td></td><td></td> </tr> </table> |              |   |   |   |             |  |  |  |  | VOC(SW846-8260B) | 1,4 Dioxane (8270 SIM) | 1,4 Dioxane (522) |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |  |  |
| VOC(SW846-8260B)                                                                                                                                                                     | 1,4 Dioxane (8270 SIM)        | 1,4 Dioxane (522)                                                                                                                                                                                                                                                                                                                                                                             |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 1                                                                                                                                                                                    | 2                             | 3                                                                                                                                                                                                                                                                                                                                                                                             | 4           | 5    | 6                 | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8            | 9 |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   | PRESERVATIVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   | COMMENTS<br><- Specify Preservatives<br>A-HCl B-HNO3<br>C-H2SO4 D-NaOH<br>E-ICE F-Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| CHEMTECH SAMPLE ID                                                                                                                                                                   | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE TYPE |      | SAMPLE COLLECTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | # of Bottles |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                                                                                                                                                                               | COMP        | GRAB | DATE              | TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | A |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 1.                                                                                                                                                                                   | BPOW6-11-HYD-20241016         | AQ                                                                                                                                                                                                                                                                                                                                                                                            |             | X    | 10/16/24          | 10:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5            | 2 | 1 | 2 |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 2.                                                                                                                                                                                   | BPOW6-11-TB-20241016          | QA                                                                                                                                                                                                                                                                                                                                                                                            |             | X    | 10/16/24          | 9:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2            | 2 |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 3.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 4.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 5.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 6.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 7.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 8.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 9.                                                                                                                                                                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 10.                                                                                                                                                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                               |             |      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |   |   |   |             |  |  |  |  |                  |                        |                   |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |

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

|                         |                  |                     |                                                                                                                                                                                                                                                                                                               |
|-------------------------|------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER | DATE/TIME        | RECEIVED BY         | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <span style="font-size: 1.2em;">2.3°</span><br>MeOH extraction requires an additional 4oz. Jar for percent solid<br>Comments: <b>Standard TAT</b> |
| 1.                      | 10/17/24 1700    | 1.                  |                                                                                                                                                                                                                                                                                                               |
| RELINQUISHED BY         | DATE/TIME        | RECEIVED BY         |                                                                                                                                                                                                                                                                                                               |
| 2.                      | 9:15<br>10-18-24 | 2.                  |                                                                                                                                                                                                                                                                                                               |
| RELINQUISHED BY         | DATE/TIME        | RECEIVED FOR LAB BY |                                                                                                                                                                                                                                                                                                               |
| 3.                      |                  | 3.                  |                                                                                                                                                                                                                                                                                                               |

Page 1 of 1

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

**Shipment Complete**  
☐ YES    ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT    YELLOW - CHEMTECH COPY    PINK - SAMPLER COPY



284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
WWW.CHEMTECH.NET



810-125238 Chain of Custody

CHAIN OF CUSTODY RECORD

|                                       |  |                               |  |                                           |  |
|---------------------------------------|--|-------------------------------|--|-------------------------------------------|--|
| Sub Lab INFORMATION                   |  | CLIENT PROJECT INFORMATION    |  | CLIENT BILLING INFORMATION                |  |
| COMPANY : Eurofins Eaton Analytical,  |  | ORDER ID : P4441              |  | BILL TO: CHEMTECH PO# : P4441             |  |
| ADDRESS : 110 South Bend              |  | PROJECT ID: CTO WE13          |  | ADDRESS : 284, Sheffield Street           |  |
| CITY: South Bend State :IN ZIP :46617 |  | PROJECT MANAGER Yazmeen       |  | CITY: Mountainside State : NJ ZIP : 07092 |  |
| E-mail :                              |  | E-mail : YAZMEEN@CHEMTECH.NET |  | ATTENTION : Yazmeen                       |  |
| PHONE : 717-693-5814                  |  | PHONE : (908) 789 8900        |  | FAX : (908) 789 8922                      |  |

EDD : ADAPT Report : Level4+Level 2+ RAW DATA Comment : \* DOD (REPORT TO THE LOD AND INCLUDE PRESENTATION OF THE LOQ & DL)

| ID | CLIENT                | SAMPLE MATRIX | ANALYSIS    | Preservative | Method | SAMPLE COLLECTION |          | # OF BOTTLES | TAT DAYS |
|----|-----------------------|---------------|-------------|--------------|--------|-------------------|----------|--------------|----------|
|    |                       |               |             |              |        | DATE              | TIME     |              |          |
| 01 | BPOW6-11-HYD-20241016 | Water         | 1,4 DIOXANE | Cool 4 deg C | 522    | 10/16/2024        | 10:00:00 | 21           | 10       |

10/22/24  
thn

Locs were not included  
in cooler sent email per  
Yazmeen Gomez

thn 10/22/24

Initial Temp: 24  
Corrected Temp: 21  
IR Gun # 210

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

|                          |            |              |                                              |                                                                           |                |
|--------------------------|------------|--------------|----------------------------------------------|---------------------------------------------------------------------------|----------------|
| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: | Conditions of bottles or Coolers at receipt: | <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant | Cooler Temp    |
| 1.                       |            | 1.           |                                              |                                                                           | Ice or Cooler? |
| RELINQUISHED BY:         | DATE/TIME: | RECEIVED BY: |                                              |                                                                           |                |
| 2.                       |            | 2.           |                                              |                                                                           |                |
| RELINQUISHED BY:         | DATE/TIME: | RECEIVED BY: |                                              |                                                                           |                |
| 3.                       |            | 3.           |                                              |                                                                           |                |

DATE/TIME: 10/22/24  
0915  
RECEIVED BY: Yazmeen Gomez

## Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-125238-1

**Login Number: 125238**

**List Number: 1**

**Creator: Moffitt, Heather**

**List Source: Eurofins Eaton Analytical South Bend**

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Container provided by EEA                                                        | True   |         |