

DATA PACKAGE

SUB - DATA

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q2187

ATTENTION : Ernie Wu



Cover Page

Order ID : Q2187

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2187-01

Client Sample Number

VPB182-HYD-20250530

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

Signature : _____

Date: 6/11/2025

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 6/10/2025 8:34 AM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-150978-1

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
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Definitions/Glossary

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

Job ID: 810-150978-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
810-150978-1

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 6/4/2025 9:45 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 17.6°C.

Receipt Exceptions

Received out of temp (17.6C).

VPB182-HYD-20250530 (810-150978-1)

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: 810-150978-1

Client Sample ID: VPB182-HYD-20250530

Lab Sample ID: 810-150978-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.064	J	0.070	0.062	ug/L	1		522	Total/NA

Client Sample Results

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

Job ID: 810-150978-1

Client Sample ID: VPB182-HYD-20250530

Lab Sample ID: 810-150978-1

Date Collected: 05/30/25 13:00

Matrix: Drinking Water

Date Received: 06/04/25 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.064	J	0.070	0.062	ug/L		06/06/25 08:34	06/06/25 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	06/06/25 08:34	06/06/25 20:54	1

Default Detection Limits

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

Job ID: 810-150978-1

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

Prep: 522

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

Surrogate Summary

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

Job ID: 810-150978-1

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 (70-130)							
810-150978-1	VPB182-HYD-20250530	77							
LLCS 810-147036/2-A	Lab Control Sample	84							
MBL 810-147036/1-A	Method Blank	82							

Surrogate Legend

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

QC Sample Results

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

Job ID: 810-150978-1

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

Lab Sample ID: MBL 810-147036/1-A
Matrix: Drinking Water
Analysis Batch: 147156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147036

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		06/06/25 08:34	06/06/25 16:50	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130				06/06/25 08:34	06/06/25 16:50	1

Lab Sample ID: LLCS 810-147036/2-A
Matrix: Drinking Water
Analysis Batch: 147156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147036

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.0700	0.0828		ug/L		118	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	84		70 - 130				

QC Association Summary

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

Job ID: 810-150978-1

GC/MS Semi VOA

Prep Batch: 147036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-150978-1	VPB182-HYD-20250530	Total/NA	Drinking Water	522	
MBL 810-147036/1-A	Method Blank	Total/NA	Drinking Water	522	
LLCS 810-147036/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 147156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-150978-1	VPB182-HYD-20250530	Total/NA	Drinking Water	522	147036
MBL 810-147036/1-A	Method Blank	Total/NA	Drinking Water	522	147036
LLCS 810-147036/2-A	Lab Control Sample	Total/NA	Drinking Water	522	147036

Lab Chronicle

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

Job ID: 810-150978-1

Client Sample ID: VPB182-HYD-20250530
Date Collected: 05/30/25 13:00
Date Received: 06/04/25 09:45

Lab Sample ID: 810-150978-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			147036	BAB	EA SB	06/06/25 08:34
Total/NA	Analysis	522		1	147156	KO	EA SB	06/06/25 20:54

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: 810-150978-1

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	02-28-26
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	24-012R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-25
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	098	11-01-25
Kansas	NELAP	E-10233	10-31-25
Kentucky (DW)	State	KY90056	12-31-25
Louisiana (DW)	State	LA014	12-31-25
Maine	State	IN00035	05-01-27
Maryland	State	209	06-30-26
Massachusetts	State	M-IN035	06-30-26
MI - RadChem Recognition	State	9926	06-01-25 *
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	NV-C24-00276	07-31-25
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-25
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-26

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

Eurofins Eaton Analytical South Bend

Accreditation/Certification Summary

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

Job ID: 810-150978-1

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	06-08-25
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	08-31-25
Oregon	NELAP	4156	09-16-25
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-30-25
South Carolina	State	95005001	06-30-25
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187	12-31-25
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	12-28-25
Virginia	NELAP	460275	03-14-26
Washington	State	C837	01-01-26
West Virginia (DW)	State	9927 C	01-31-26
Wisconsin	State	999766900	08-31-25
Wisconsin (Micro)	State	10121	12-31-25
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: 810-150978-1

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: 810-150978-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-150978-1	VPB182-HYD-20250530	Drinking Water	05/30/25 13:00	06/04/25 09:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.:

Instrument ID: GCMS-FE

Analysis Batch Number: 146515

Lab Sample ID: IC 810-144020/4-A

Client Sample ID:

Date Analyzed: 06/03/25 06:18

Lab File ID: IC 007.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:18

Lab Sample ID: IC 810-144020/6-A

Client Sample ID:

Date Analyzed: 06/03/25 07:02

Lab File ID: IC 02.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:19

Lab Sample ID: IC 810-144020/7-A

Client Sample ID:

Date Analyzed: 06/03/25 07:24

Lab File ID: IC 05.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:21

Lab Sample ID: IC 810-144020/8-A

Client Sample ID:

Date Analyzed: 06/03/25 07:46

Lab File ID: IC 1.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:21

Lab Sample ID: IC 810-144020/9-A

Client Sample ID:

Date Analyzed: 06/03/25 08:08

Lab File ID: IC 2.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.: _____

Instrument ID: GCMS-FE

Analysis Batch Number: 146515

Lab Sample ID: IC 810-144020/10-A

Client Sample ID: _____

Date Analyzed: 06/03/25 08:30

Lab File ID: IC 5.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:20

Lab Sample ID: IC 810-144020/11-A

Client Sample ID: _____

Date Analyzed: 06/03/25 08:52

Lab File ID: IC 10.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Incomplete Integration	JH8B	06/03/25 10:20

Lab Sample ID: IC 810-144020/14-A

Client Sample ID: _____

Date Analyzed: 06/03/25 09:59

Lab File ID: IC100.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.80	Incomplete Integration	JH8B	06/03/25 10:19

Lab Sample ID: ICV 810-144020/15-A

Client Sample ID: _____

Date Analyzed: 06/03/25 10:43

Lab File ID: ICV.D

GC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Baseline	JH8B	06/04/25 15:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-150978-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 147156Lab Sample ID: CCVLIS 810-147087/1-A

Client Sample ID: _____

Date Analyzed: 06/06/25 16:06Lab File ID: CCVLIS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Baseline	JH8B	06/09/25 05:44

Lab Sample ID: MBL 810-147036/1-A

Client Sample ID: _____

Date Analyzed: 06/06/25 16:50Lab File ID: MBL.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Baseline	JH8B	06/09/25 05:46

Lab Sample ID: LLCS 810-147036/2-A

Client Sample ID: _____

Date Analyzed: 06/06/25 17:12Lab File ID: LLCS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.82	Baseline	JH8B	06/09/25 05:47

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
522 IS SS 00237	05/26/25	05/12/25	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00034	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00034	10/25/28	05/12/25	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
522 IS SS 00241	06/16/25	06/02/25	MeCl2, Lot EJ007-US	2 mL	522 IS Stock 00034	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522 IS Stock 00034	10/25/28	05/12/25	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
522-Sur-SS 00135	11/14/25	05/14/25	Methanol, Lot 23I0762004	2 mL	522-SUR-Stock 00022	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock 00022	12/31/26	04/16/25		1 mL	522-SUR-Stock 00018	1 mL	1,4-Dioxane-d8 (Surr)	2000 ug/mL
..522-SUR-Stock 00018	12/31/26		Restek, Lot A0206061		(Purchased Reagent)		1,4-Dioxane-d8 (Surr)	2000 ug/mL
522-Sur-SS 00138	12/05/25	06/05/25	Methanol, Lot 23I0762004	2 mL	522-SUR-Stock 00022	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock 00022	12/31/26	04/16/25		1 mL	522-SUR-Stock 00018	1 mL	1,4-Dioxane-d8 (Surr)	2000 ug/mL
..522-SUR-Stock 00018	12/31/26		Restek, Lot A0206061		(Purchased Reagent)		1,4-Dioxane-d8 (Surr)	2000 ug/mL
O-522 CalM 00017	11/14/25	05/14/25	Methanol, Lot 23i0762004	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
O-522-CalH 00019	11/09/25	05/09/25	Methanol, Lot 23I0762004	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
O-522-CalH 00020	12/05/25	06/05/25	Methanol, Lot 23I0762004	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
O-522-QCS-Sub 00010	07/23/25	01/23/25	Methanol, Lot 23I0762004	2 mL	522-QCS 00006	20 uL	1,4-Dioxane	10 ug/mL
.522-QCS 00006	10/21/32		AccuStandard, Lot 222101299		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
O-522BFBSUB 00021	08/14/25	05/14/25	MeCl2, Lot EJ789-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
O522-CalI 00023	10/16/25	04/16/25	Methanol, Lot 23I0762004	2 mL	O-522-CalH 00018	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH 00018	10/16/25	04/16/25	Methanol, Lot 23I0762004	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
O522-CalI 00024	12/05/25	06/05/25	Methanol, Lot 23I0762004	2 mL	O-522-CalH 00020	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH 00020	12/05/25	06/05/25	Methanol, Lot 23I0762004	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

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. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (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)

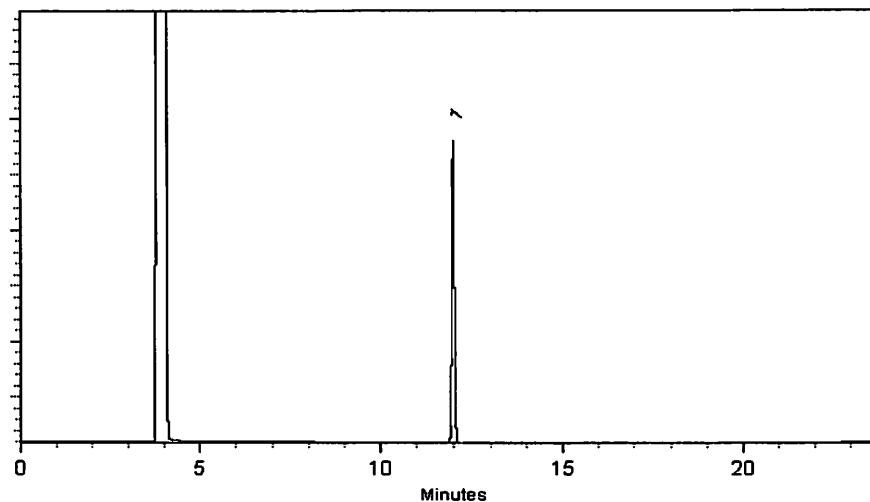
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

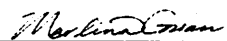
Det. Type:
FID



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 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) -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.
- 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

522-IS-Stock_00008



CERTIFIED WEIGHT REPORT

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

Solvent(s):
 Methanol
 Lot#: EG359-US

Recd 03/08/2024 Hm

<i>Eli Allaga</i>		102523
Formulated By:	Eli Allaga	DATE
<i>Pedro L. Rentas</i>		102523
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 102528

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

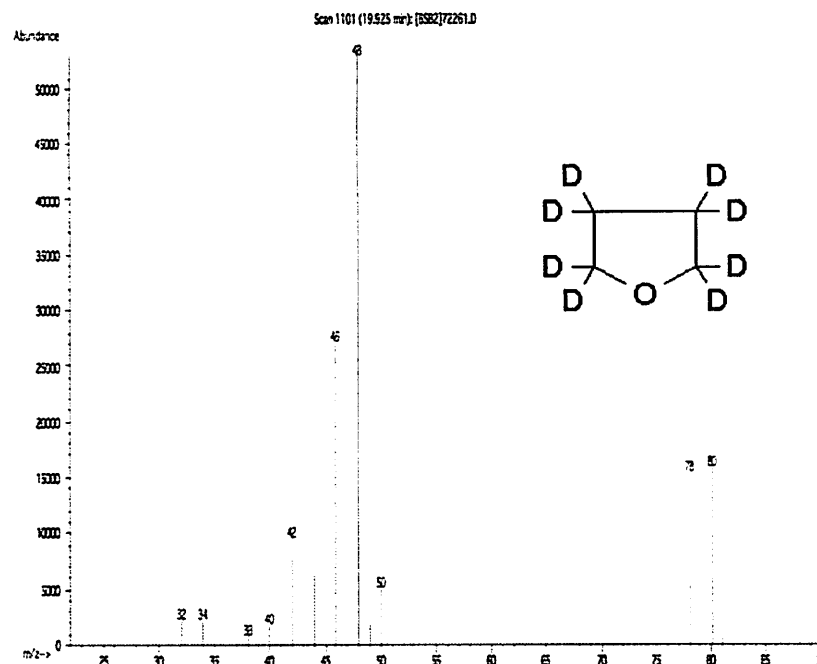
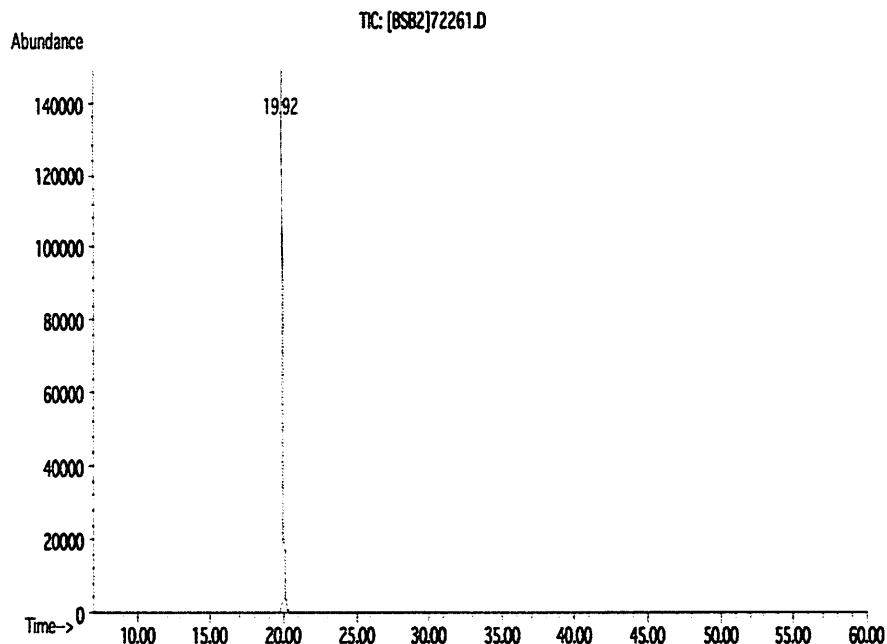
5E-05 Balance Uncertainty

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

0.021 Flask Uncertainty

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 (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 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

522-SUR-Stock_00018



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



Recd 03/21/2024
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. : 30614 Lot No.: A0206061
Description : 1,4-dioxane-d8 Standard
1,4-dioxane-d8 Standard 2000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : December 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane-d8	17647-74-4	RP230605	99%	2,010.4 µg/mL	+/- 25.0198

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

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

Quality Confirmation Test

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:

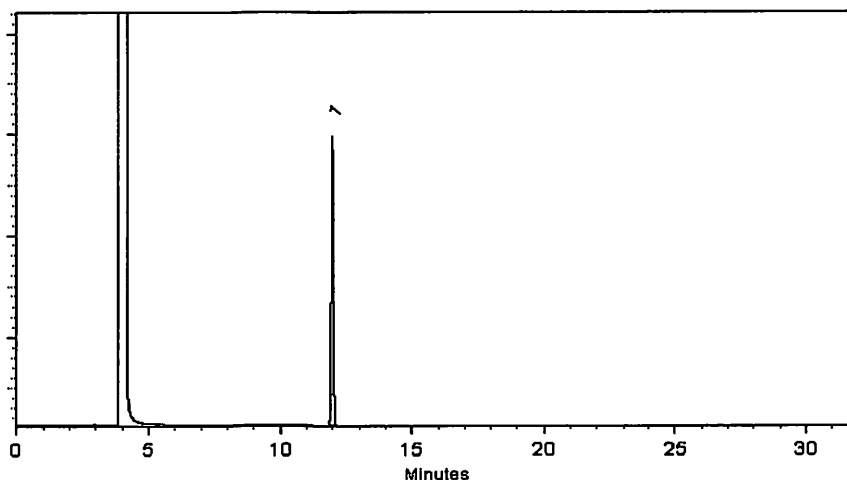
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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

W. Torres
Wilner Torres - Operation Tech I

Date Mixed: 29-Dec-2023

Balance Serial # 1128342314

Christie Mills
Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 04-Jan-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

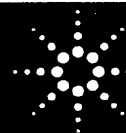
- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability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

Reagent

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	2000	± 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/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

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

Instructions for Use:

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

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

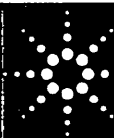
Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

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/

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.: 810-150978-1

SDG No.: _____

Matrix: Drinking Water Level: Low

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

Client Sample ID	Lab Sample ID	DXE #
VPB182-HYD-20250530	810-150978-1	77
	LLCS 810-147036/2-A	84
	MBL 810-147036/1-A	82

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 LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Eaton Analytical South Job No.: 810-150978-1
Bend

SDG No.:

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

Lab ID: LLCS 810-147036/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.0700	0.0828	118	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.: 810-150978-1
SDG No.:
Lab File ID: MBL.D
Lab Sample ID: MBL 810-147036/1-A
Matrix: Drinking Water
Date Extracted: 06/06/2025 08:34
Instrument ID: GCMS-FE
Date Analyzed: 06/06/2025 16:50
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LLCS 810-147036/2-A	LLCS.D	06/06/2025 17:12
VPB182-HYD-20250530	810-150978-1	810-150978-A-1-A.D	06/06/2025 20:54

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-150978-1

SDG No.:

Lab File ID: BFB 2.D BFB Injection Date: 06/03/2025

Instrument ID: GCMS-FE BFB Injection Time: 06:04

Analysis Batch No.: 146515

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.4
75	30.0 - 80.0 % of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	1.6 (1.6) 1
174	>50.0 % of mass 95	105.4
175	5.0 - 9.0 % of mass 174	7.7 (7.3) 1
176	>95.0 but <101.0 % of mass 174	104.4 (99.1) 1
177	5.0 - 9.0 % of mass 176	6.1 (5.9) 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 810-144020/4-A	IC 007.D	06/03/2025	6:18
	IC 810-144020/5-A	IC 01.D	06/03/2025	6:40
	IC 810-144020/6-A	IC 02.D	06/03/2025	7:02
	IC 810-144020/7-A	IC 05.D	06/03/2025	7:24
	IC 810-144020/8-A	IC 1.D	06/03/2025	7:46
	IC 810-144020/9-A	IC 2.D	06/03/2025	8:08
	IC 810-144020/10-A	IC 5.D	06/03/2025	8:30
	IC 810-144020/11-A	IC 10.D	06/03/2025	8:52
	ICISAV 810-144020/12-A	IC 20.D	06/03/2025	9:15
	IC 810-144020/13-A	IC 50.D	06/03/2025	9:37
	IC 810-144020/14-A	IC100.D	06/03/2025	9:59
	ICV 810-144020/15-A	ICV.D	06/03/2025	10:43

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-150978-1
Bend

SDG No.:

Instrument I GCMS-FE Calibration Start Date: 06/03/2025 06:18

GC Column: CPSelect 624 MS ID: 0.25 (mm) Calibration End Date: 06/03/2025 09:59

Calibration ID: 16248

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		47872	6.59				
UPPER LIMIT		71808	7.08				
LOWER LIMIT		23936	6.08				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 810-144020/15-A		50195	6.59				
CCVLIS 810-147087/1-A		41656	6.58				
MBL 810-147036/1-A		39224	6.59				
LLCS 810-147036/2-A		39530	6.59				
810-150978-1	VBP182-HYD-20250530	43118	6.59				
CCVIS 810-147087/2-A		42411	6.58				

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

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No. :

Sample No.: CCVLIS 810-147087/1-A

Date Analyzed: 06/06/2025 16:06

Instrument ID: GCMS-FE

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

Lab File ID (Standard): CCVLIS.D

Heated Purge: (Y/N) N

Calibration ID: 16248

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		41656	6.58				
UPPER LIMIT		54153	7.09				
LOWER LIMIT		29159	6.09				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MBL 810-147036/1-A		39224	6.59				
LLCS 810-147036/2-A		39530	6.59				
810-150978-1	VBP182-HYD-20250530	43118	6.59				
CCVIS 810-147087/2-A		42411	6.58				

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 Bend
Job No.: 810-150978-1

SDG No.:

Client Sample ID: VPB182-HYD-20250530
Lab Sample ID: 810-150978-1

Matrix: Drinking Water
Lab File ID: 810-150978-A-1-A.D

Analysis Method: 522
Date Collected: 05/30/2025 13:00

Extract. Method: 522
Date Extracted: 06/06/2025 08:34

Sample wt/vol: 100 (mL)
Date Analyzed: 06/06/2025 20:54

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.: 147156
Units: ug/L

Preparation Batch No.: 147036
Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.064	J	0.070	0.062

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	77		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\810-150978-A-1-A.D
Lims ID: 810-150978-A-1-A
Client ID: VPB182-HYD-20250530
Sample Type: Client
Inject. Date: 06-Jun-2025 20:54:19 ALS Bottle#: 14 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0037977-013
Misc. Info.: 810-150978-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1694

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.582	0.008	24	43118	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	47467	382.7	
11 1,4-Dioxane	88	8.819	8.809	0.010	78	355	3.21	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\810-150978-A-1-A.D

Injection Date: 06-Jun-2025 20:54:19

Instrument ID: GCMS-FE

Lims ID: 810-150978-A-1-A

Lab Sample ID: 810-150978-1

Client ID: VPB182-HYD-20250530

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 13

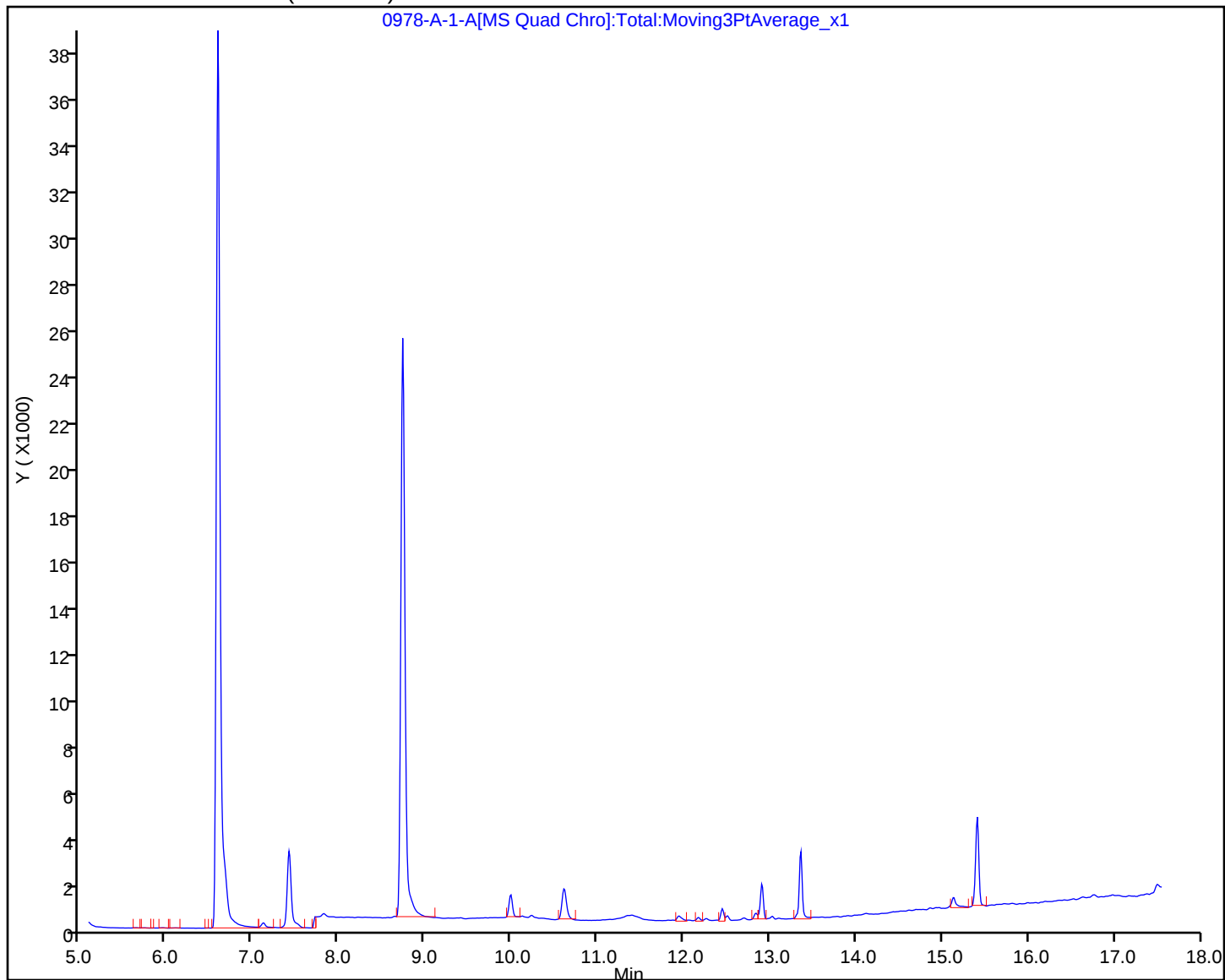
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250606-37977.b\810-150978-A-1-A.D
Lims ID: 810-150978-A-1-A
Client ID: VPB182-HYD-20250530
Sample Type: Client
Inject. Date: 06-Jun-2025 20:54:19 ALS Bottle#: 14 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0037977-013
Misc. Info.: 810-150978-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1694

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	382.7	76.54

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\810-150978-A-1-A.D

Injection Date: 06-Jun-2025 20:54:19

Instrument ID: GCMS-FE

Lims ID: 810-150978-A-1-A

Lab Sample ID: 810-150978-1

Client ID: VPB182-HYD-20250530

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 13

Injection Vol: 1.0 ul

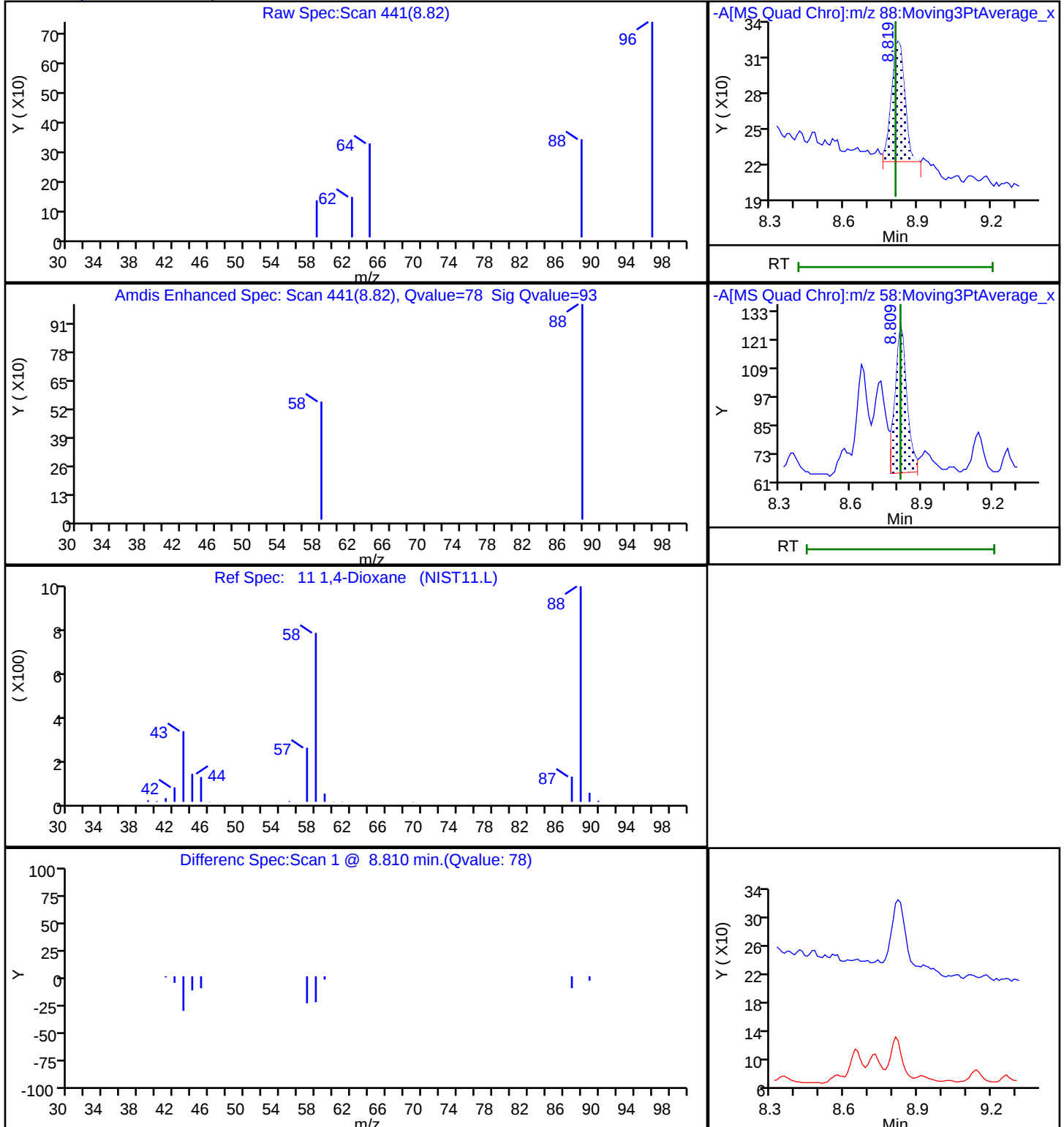
Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector: MS Quad

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

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-150978-1 Analy Batch No.: 146515
Bend

SDG No.:

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

Calibration Start Date: 06/03/2025 06:18 Calibration End Date: 06/03/2025 09:59 Calibration ID: 16248

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-144020/4-A	IC 007.D
Level 2	IC 810-144020/5-A	IC 01.D
Level 3	IC 810-144020/6-A	IC 02.D
Level 4	IC 810-144020/7-A	IC 05.D
Level 5	IC 810-144020/8-A	IC 1.D
Level 6	IC 810-144020/9-A	IC 2.D
Level 7	IC 810-144020/10-A	IC 5.D
Level 8	IC 810-144020/11-A	IC 10.D
Level 9	ICISAV 810-144020/12-A	IC 20.D
Level 10	IC 810-144020/13-A	IC 50.D
Level 11	IC 810-144020/14-A	IC100.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	1.5773 1.3233 1.4074	1.3217 1.2759	1.2627 1.3306	1.2896 1.3437	1.3697 1.2841	Lin1	-0.24 9	1.359 2				8.1					
1,4-Dioxane-d8 (Surr)	1.6484 1.3997 1.5543	1.4024 1.3891	1.3935 1.4008	1.3764 1.4775	1.3917 1.3880	Ave		1.438 3				6.1		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.: 810-150978-1 Analy Batch No.: 146515
SDG No.: _____
Instrument ID: GCMS-FE GC Column: CPSelect 6 ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/03/2025 06:18 Calibration End Date: 06/03/2025 09:59 Calibration ID: 16248

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-144020/4-A	IC 007.D
Level 2	IC 810-144020/5-A	IC 01.D
Level 3	IC 810-144020/6-A	IC 02.D
Level 4	IC 810-144020/7-A	IC 05.D
Level 5	IC 810-144020/8-A	IC 1.D
Level 6	IC 810-144020/9-A	IC 2.D
Level 7	IC 810-144020/10-A	IC 5.D
Level 8	IC 810-144020/11-A	IC 10.D
Level 9	ICISAV 810-144020/12-A	IC 20.D
Level 10	IC 810-144020/13-A	IC 50.D
Level 11	IC 810-144020/14-A	IC100.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	THFd8	Lin1	692	553	1111	2680	5950	3.50	5.00	10.0	25.0	50.0
			11542	26078	57951	124389	266542	100	250	500	1000	2500
			1087074					5000				
1,4-Dioxane-d8 (Surr)	THFd8	Ave	103310	58677	61306	57208	60454	500	500	500	500	500
			61044	56784	61009	68388	57621	500	500	500	500	500
			120059					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.: 810-150978-1 Analy Batch No.: 146515

SDG No.: _____

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

Calibration Start Date: 06/03/2025 06:18 Calibration End Date: 06/03/2025 09:59 Calibration ID: 16248

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-144020/4-A	IC 007.D
Level 2	IC 810-144020/5-A	IC 01.D
Level 3	IC 810-144020/6-A	IC 02.D
Level 4	IC 810-144020/7-A	IC 05.D
Level 5	IC 810-144020/8-A	IC 1.D
Level 6	IC 810-144020/9-A	IC 2.D
Level 7	IC 810-144020/10-A	IC 5.D
Level 8	IC 810-144020/11-A	IC 10.D
Level 9	ICISAV 810-144020/12-A	IC 20.D
Level 10	IC 810-144020/13-A	IC 50.D
Level 11	IC 810-144020/14-A	IC100.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 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,4-Dioxane	21.3	0.9	-5.3	-4.4	1.1	-2.5	40	20	20	20	20	20
	-6.1	-2.1	-1.1	-5.5	3.5		20	20	20	20	20	

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 007.D
 Lims ID: IC 810-144020/4-A
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Jun-2025 06:18:00 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-003
 Misc. Info.: IC 810-144020/4-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:12 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:19:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.589	-0.007	24	62674	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	103310	500.0	573.0	
11 1,4-Dioxane	88	8.819	8.819	0.000	79	692	3.50	4.25	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 007.D

Injection Date: 03-Jun-2025 06:18:00

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/4-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#:

3

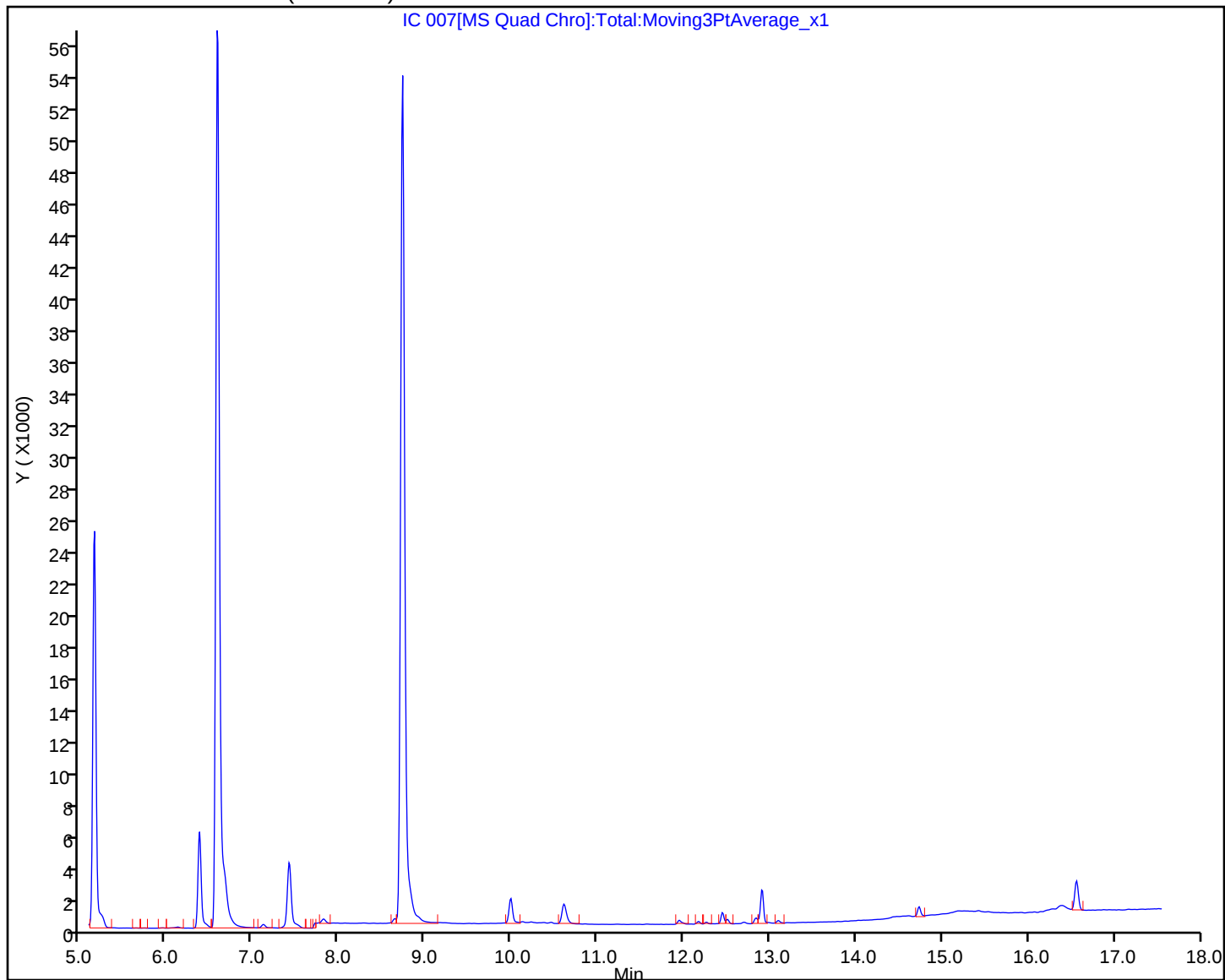
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 007.D

Injection Date: 03-Jun-2025 06:18:00

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/4-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

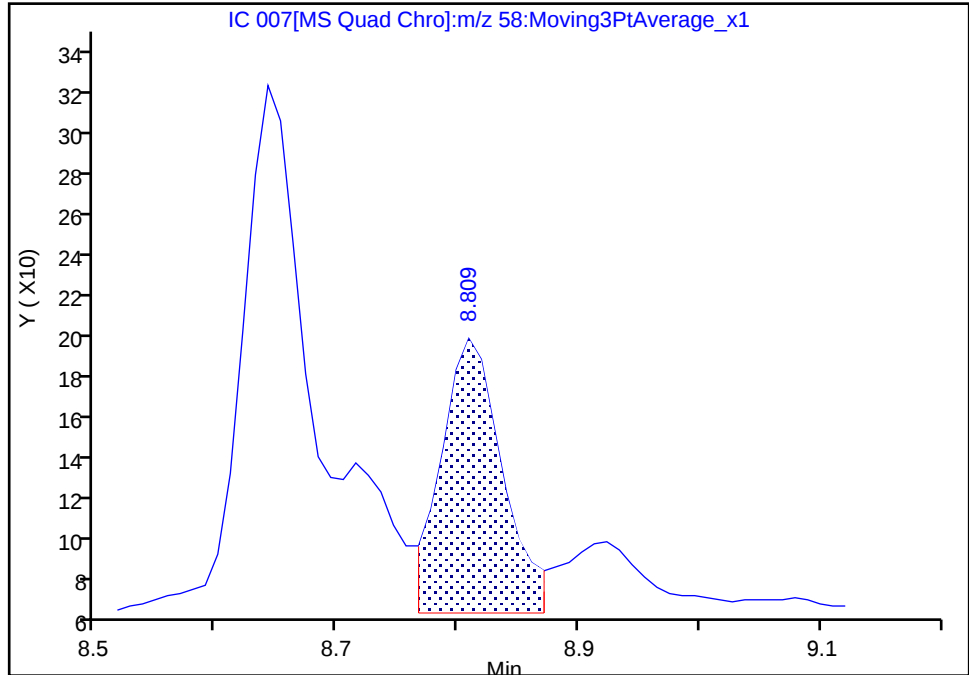
MS Quad

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

Signal: 2

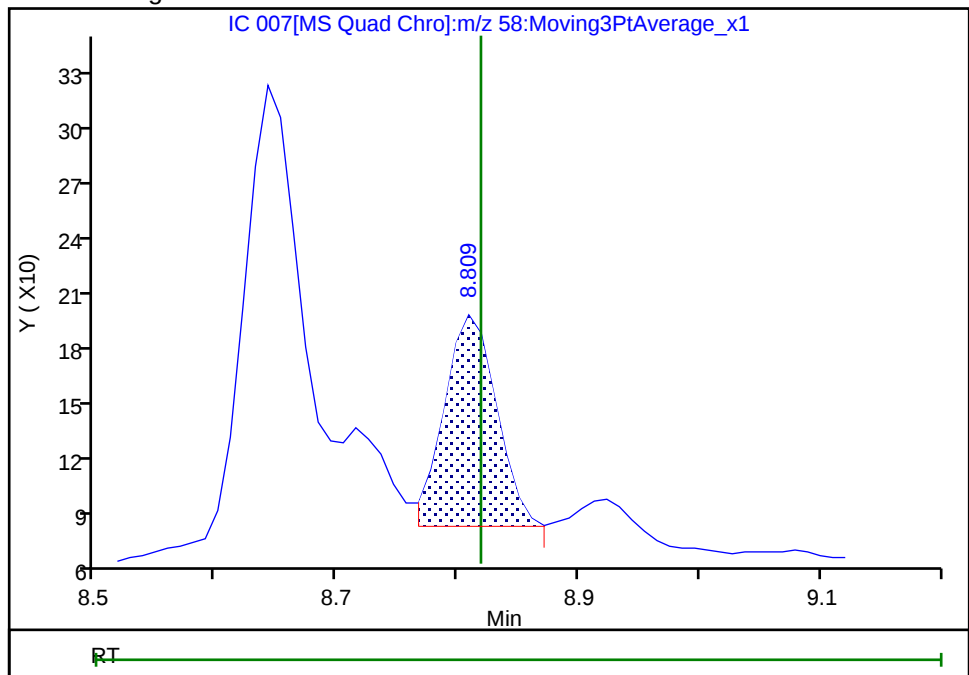
RT: 8.81
Area: 477
Amount: 2.325370
Amount Units: ug/l

Processing Integration Results



RT: 8.81
Area: 340
Amount: 4.245070
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:18:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 01.D
 Lims ID: IC 810-144020/5-A
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Jun-2025 06:40:12 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-004
 Misc. Info.: IC 810-144020/5-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:14 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:18:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.589	-0.007	24	41841	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	98	58677	500.0	487.5	
11 1,4-Dioxane	88	8.819	8.819	0.000	76	553	5.00	5.05	

QC Flag Legend

Processing Flags

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 01.D

Injection Date: 03-Jun-2025 06:40:12

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/5-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 4

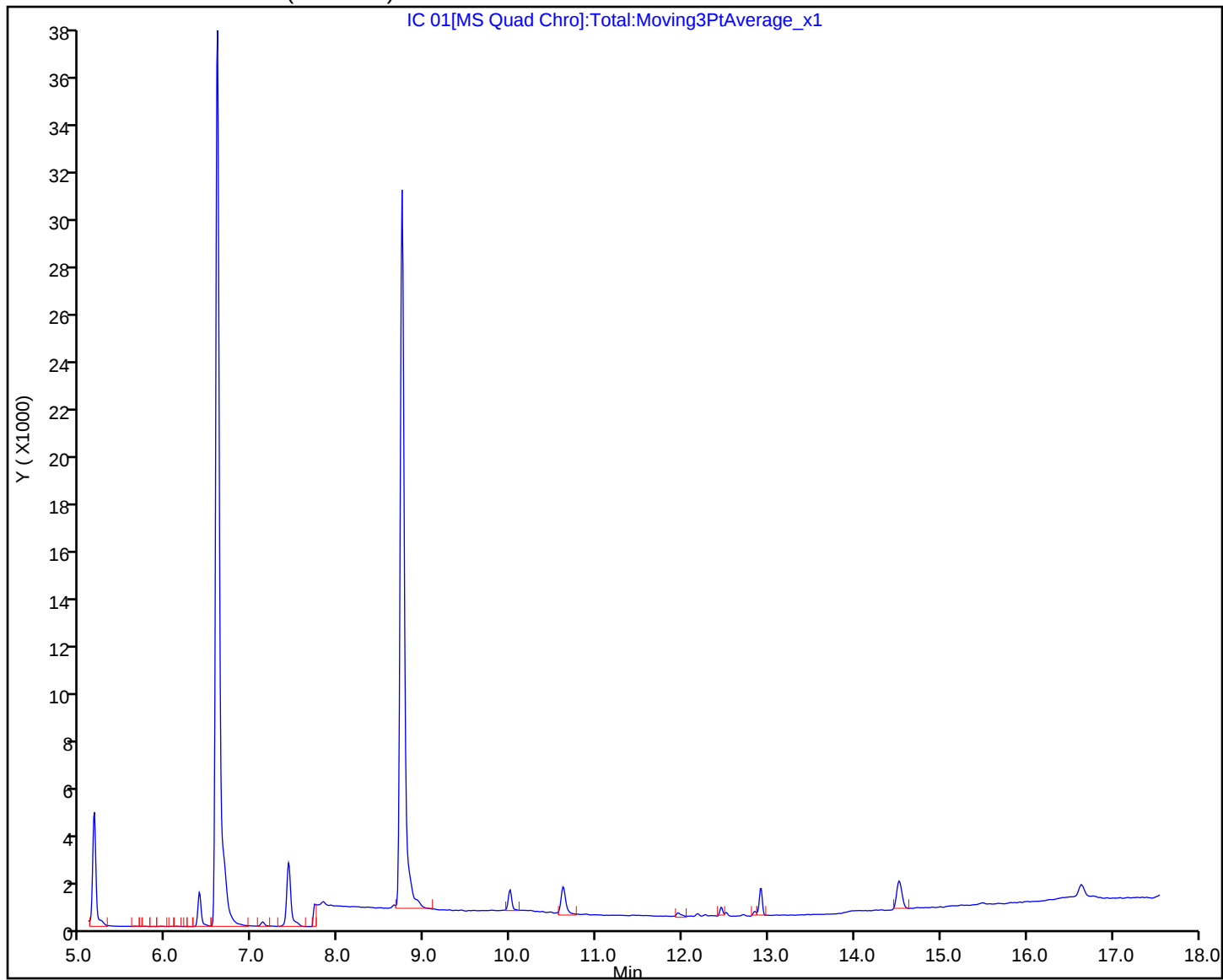
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250603-37809.b\IC 02.D
 Lims ID: IC 810-144020/6-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Jun-2025 07:02:16 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-005
 Misc. Info.: IC 810-144020/6-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:16 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:19:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.589	0.001	25	43994	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.746	8.736	0.010	98	61306	500.0	484.4	
11 1,4-Dioxane	88	8.819	8.819	0.000	77	1111	10.0	9.47	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 02.D

Injection Date: 03-Jun-2025 07:02:16

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/6-A

Client ID:

Operator ID: BC

ALS Bottle#: 5

Worklist Smp#: 5

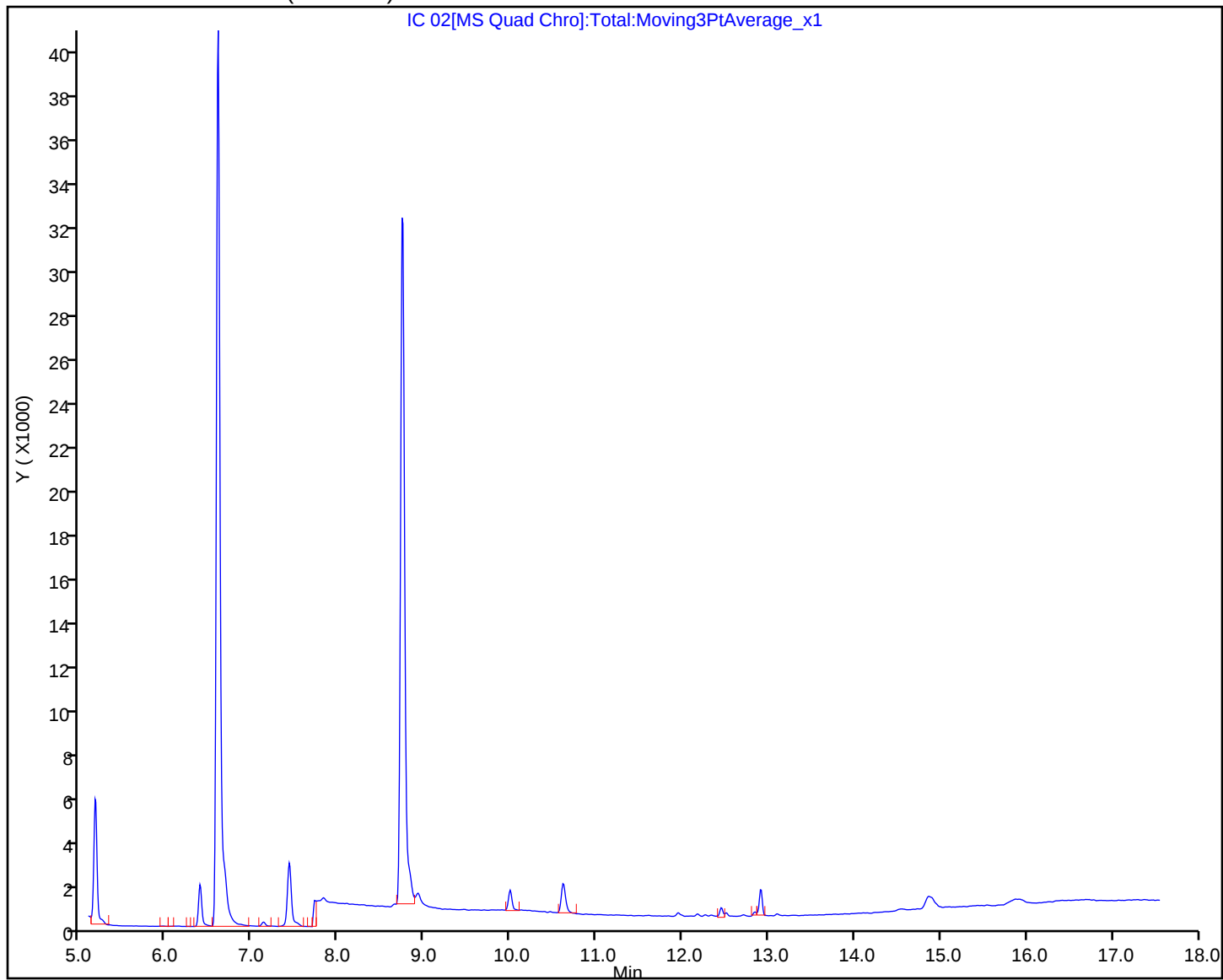
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 02.D

Injection Date: 03-Jun-2025 07:02:16

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/6-A

Client ID:

Operator ID: BC

ALS Bottle#: 5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

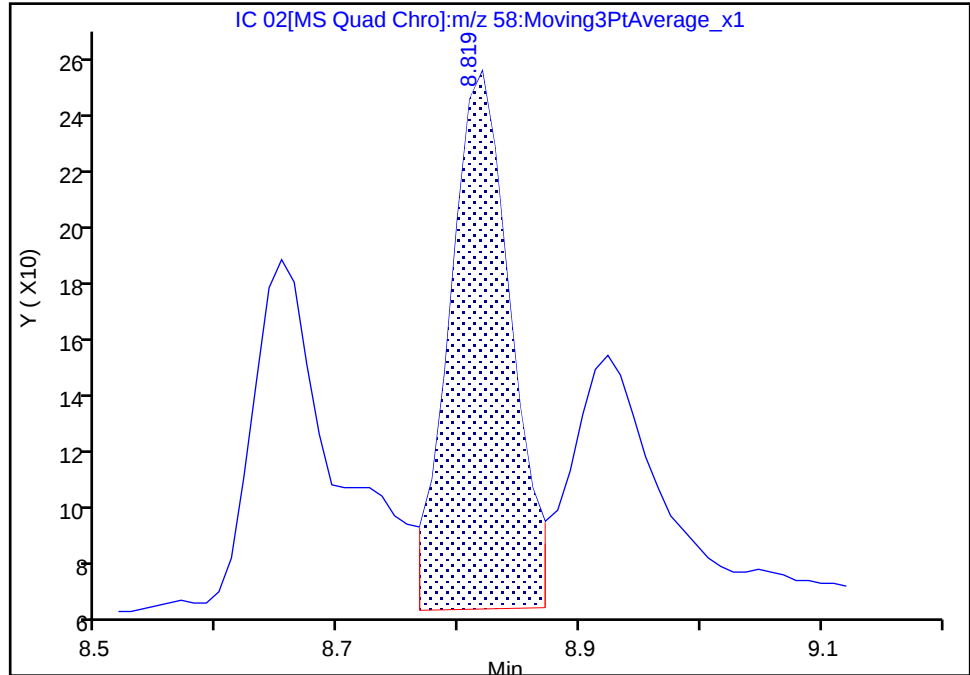
Detector: MS Quad

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

Signal: 2

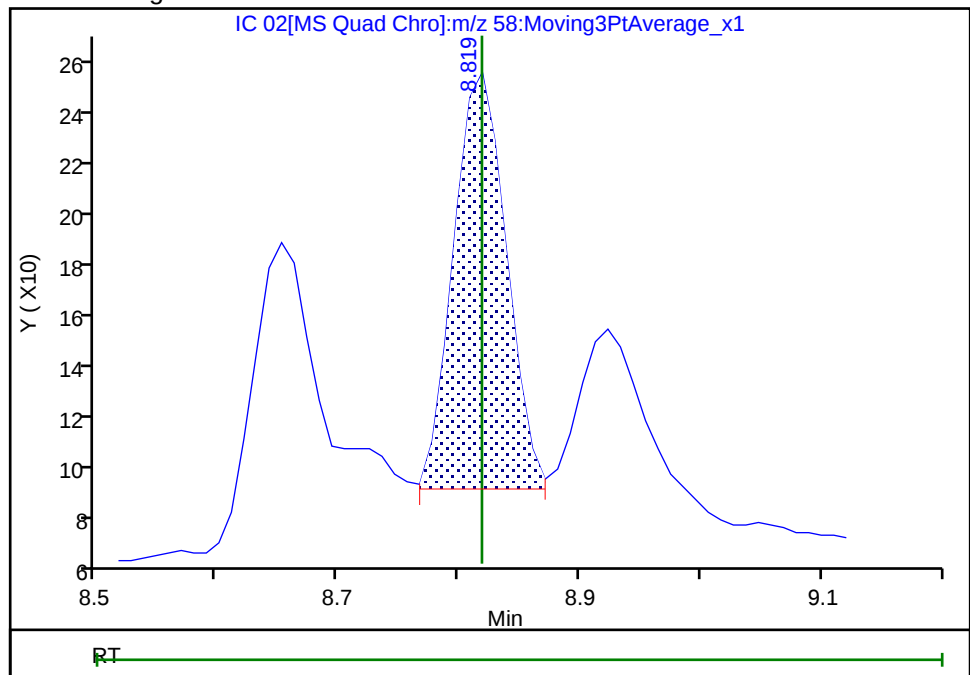
RT: 8.82
Area: 687
Amount: 40.123489
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 498
Amount: 9.473176
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:19:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 05.D
 Lims ID: IC 810-144020/7-A
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Jun-2025 07:24:27 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-006
 Misc. Info.: IC 810-144020/7-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:18 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:19:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.589	0.001	24	41563	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	98	57208	500.0	478.5	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	2680	25.0	23.9	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 05.D

Injection Date: 03-Jun-2025 07:24:27

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

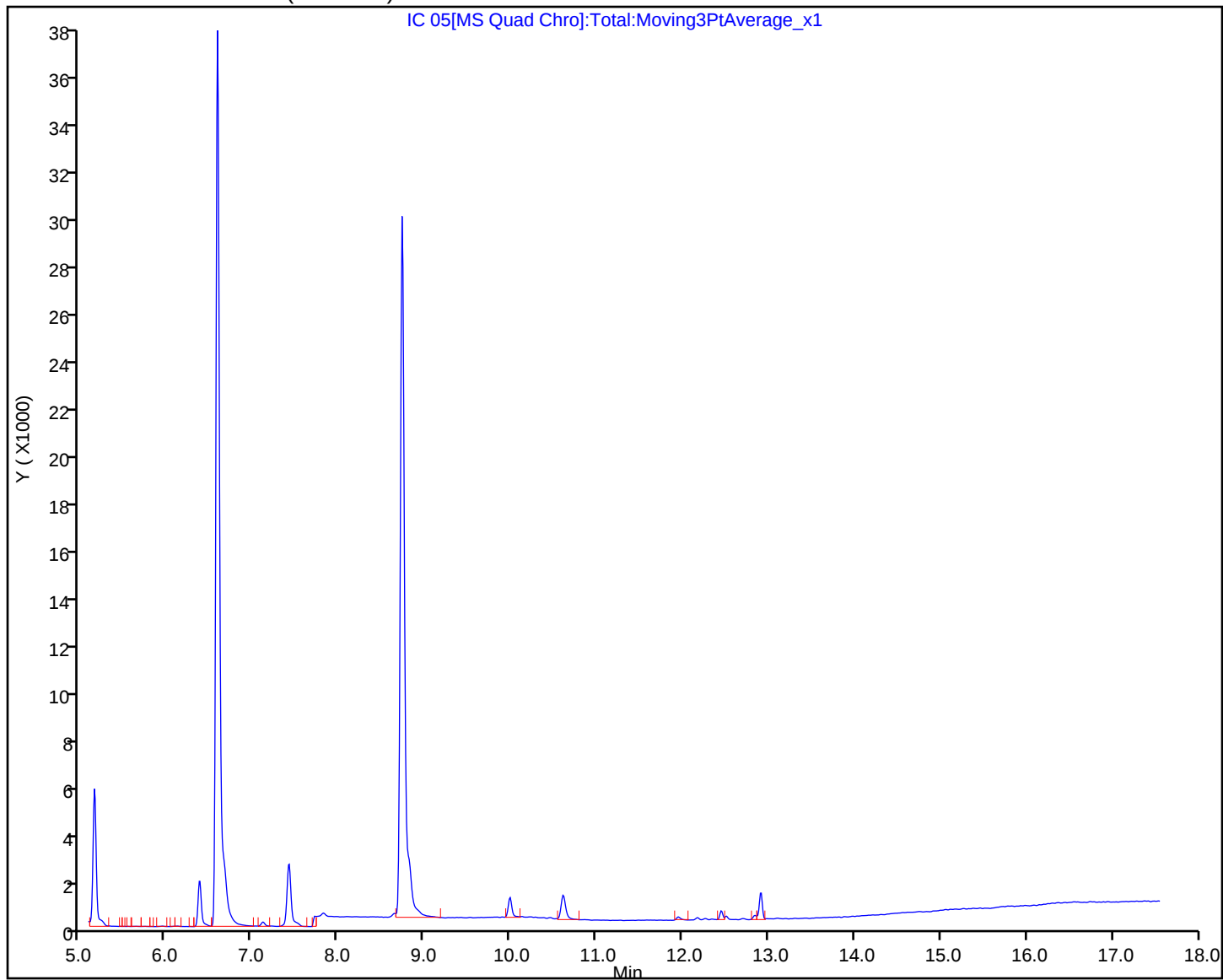
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 05.D

Injection Date: 03-Jun-2025 07:24:27

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

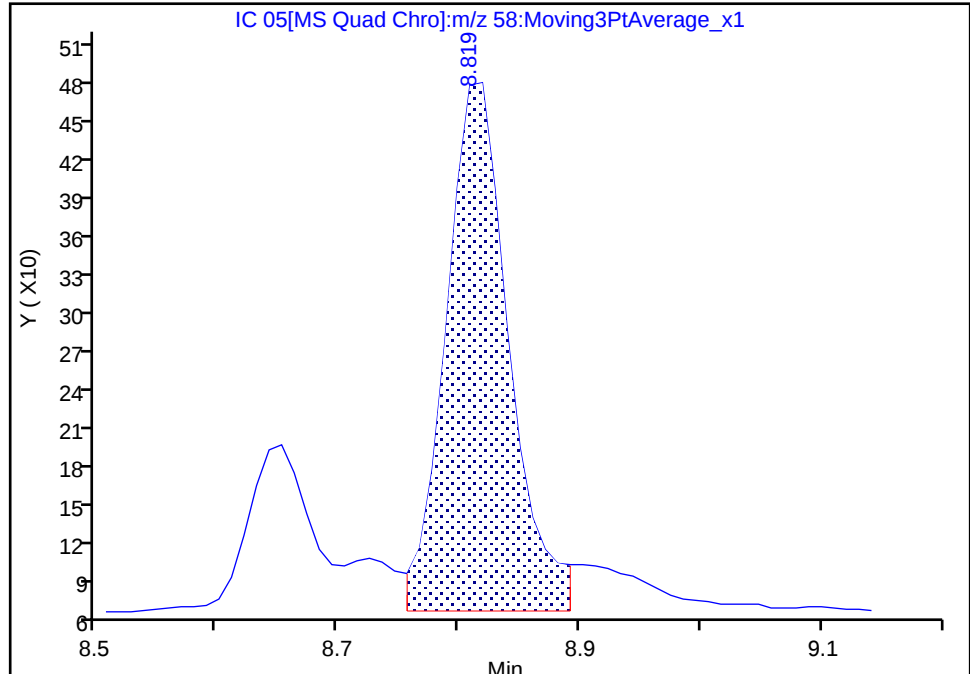
Detector: MS Quad

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

Signal: 2

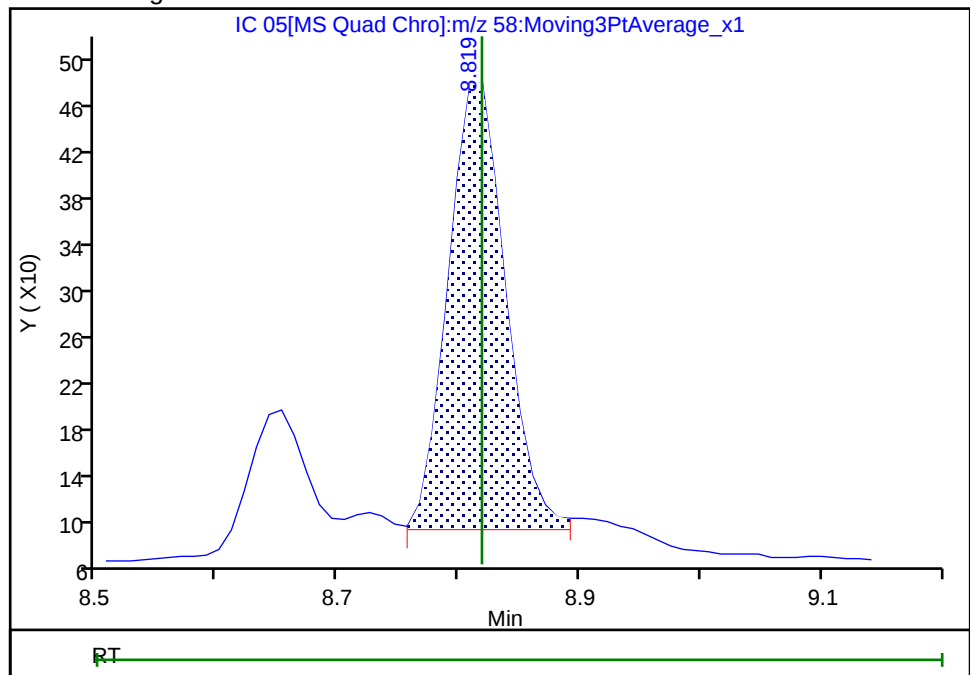
RT: 8.82
Area: 1519
Amount: 24.441781
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 1292
Amount: 23.903248
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:19:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 05.D

Injection Date: 03-Jun-2025 07:24:27

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

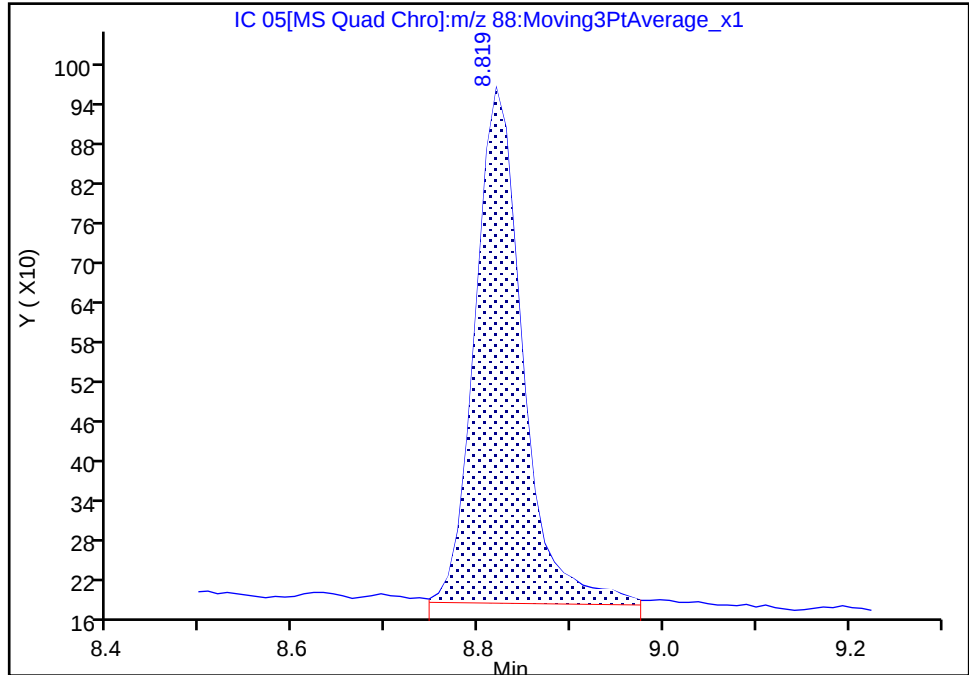
MS Quad

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

Signal: 1

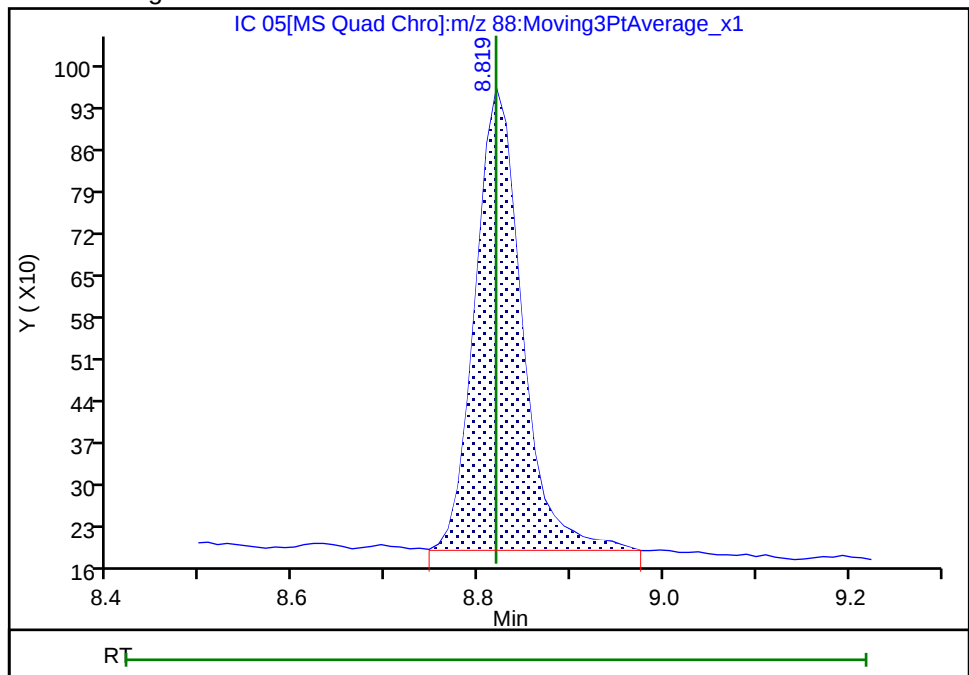
RT: 8.82
Area: 2774
Amount: 24.441781
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 2680
Amount: 23.903248
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:21:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 1.D
 Lims ID: IC 810-144020/8-A
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Jun-2025 07:46:43 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-007
 Misc. Info.: IC 810-144020/8-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:20 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:21:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.590	0.000	24	43439	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	60454	500.0	483.8	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	5950	50.0	50.6	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 1.D

Injection Date: 03-Jun-2025 07:46:43

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/8-A

Client ID:

Operator ID: BC

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

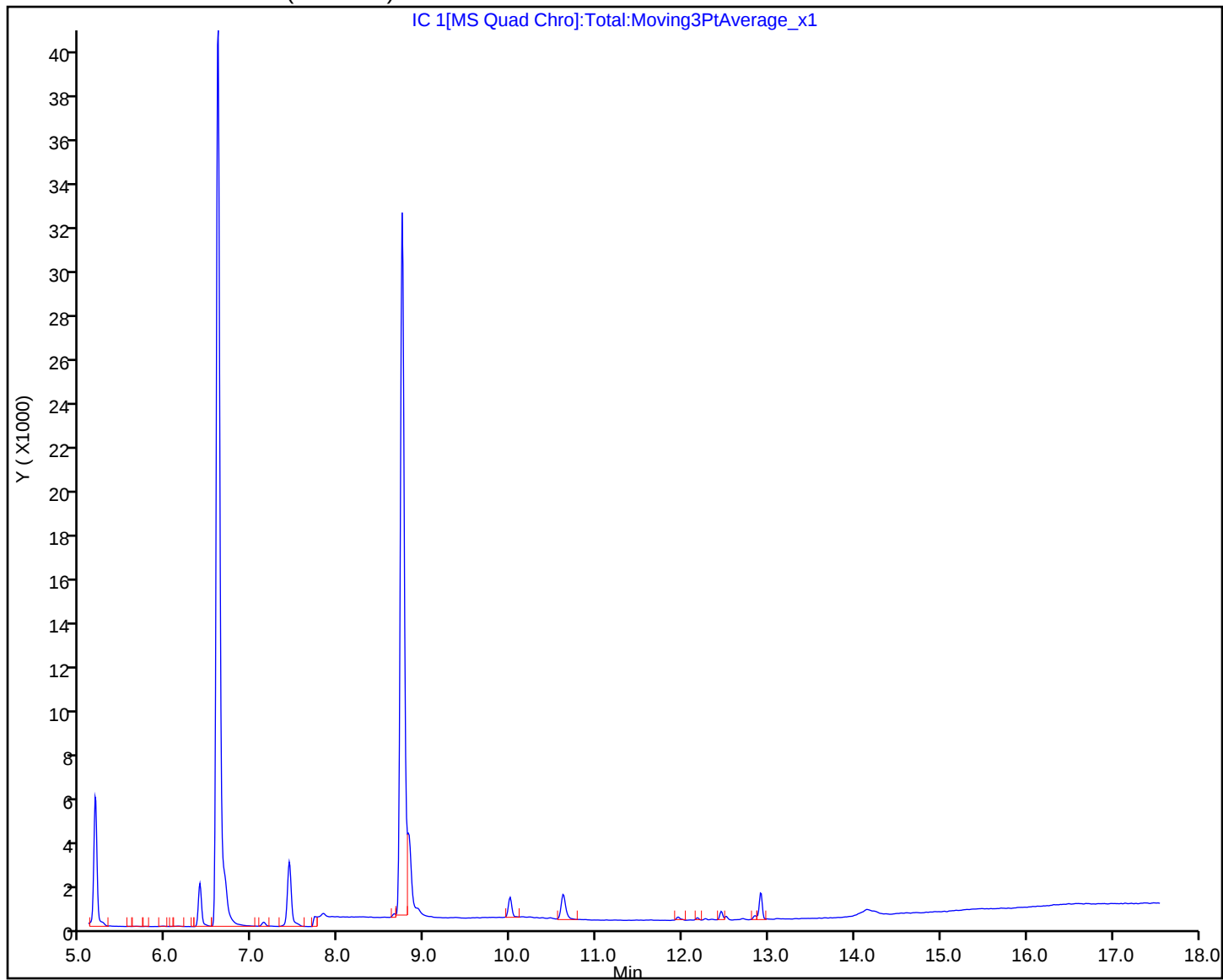
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

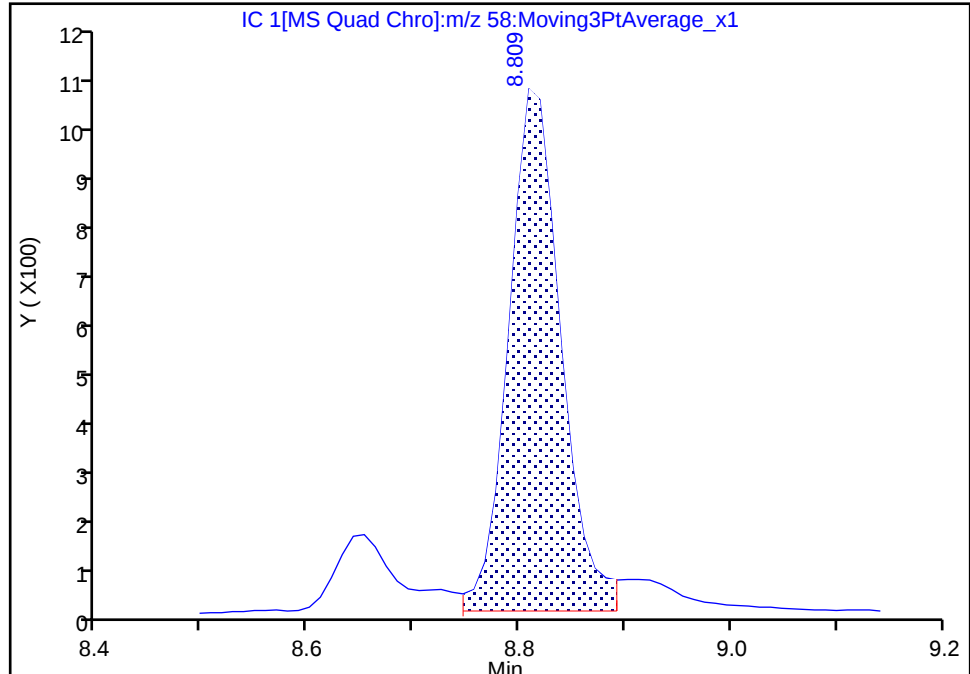
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 1.D
Injection Date: 03-Jun-2025 07:46:43 Instrument ID: GCMS-FE
Lims ID: IC 810-144020/8-A
Client ID:
Operator ID: BC ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector: MS Quad

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

Signal: 2

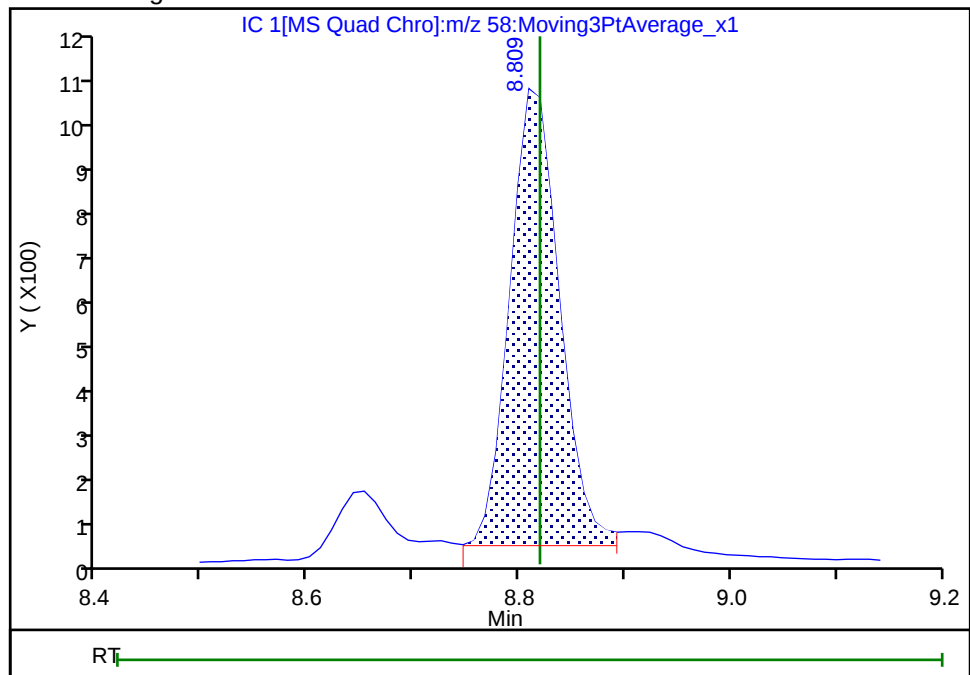
RT: 8.81
Area: 3263
Amount: 50.519485
Amount Units: ug/l

Processing Integration Results



RT: 8.81
Area: 2983
Amount: 50.570681
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:21:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 2.D
 Lims ID: IC 810-144020/9-A
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-Jun-2025 08:08:57 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-008
 Misc. Info.: IC 810-144020/9-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:22 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:21:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.590	0.000	22	43612	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.746	8.736	0.010	98	61044	500.0	486.6	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	11542	100.0	97.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 2.D

Injection Date: 03-Jun-2025 08:08:57

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/9-A

Client ID:

Operator ID: BC

ALS Bottle#: 8

Worklist Smp#: 8

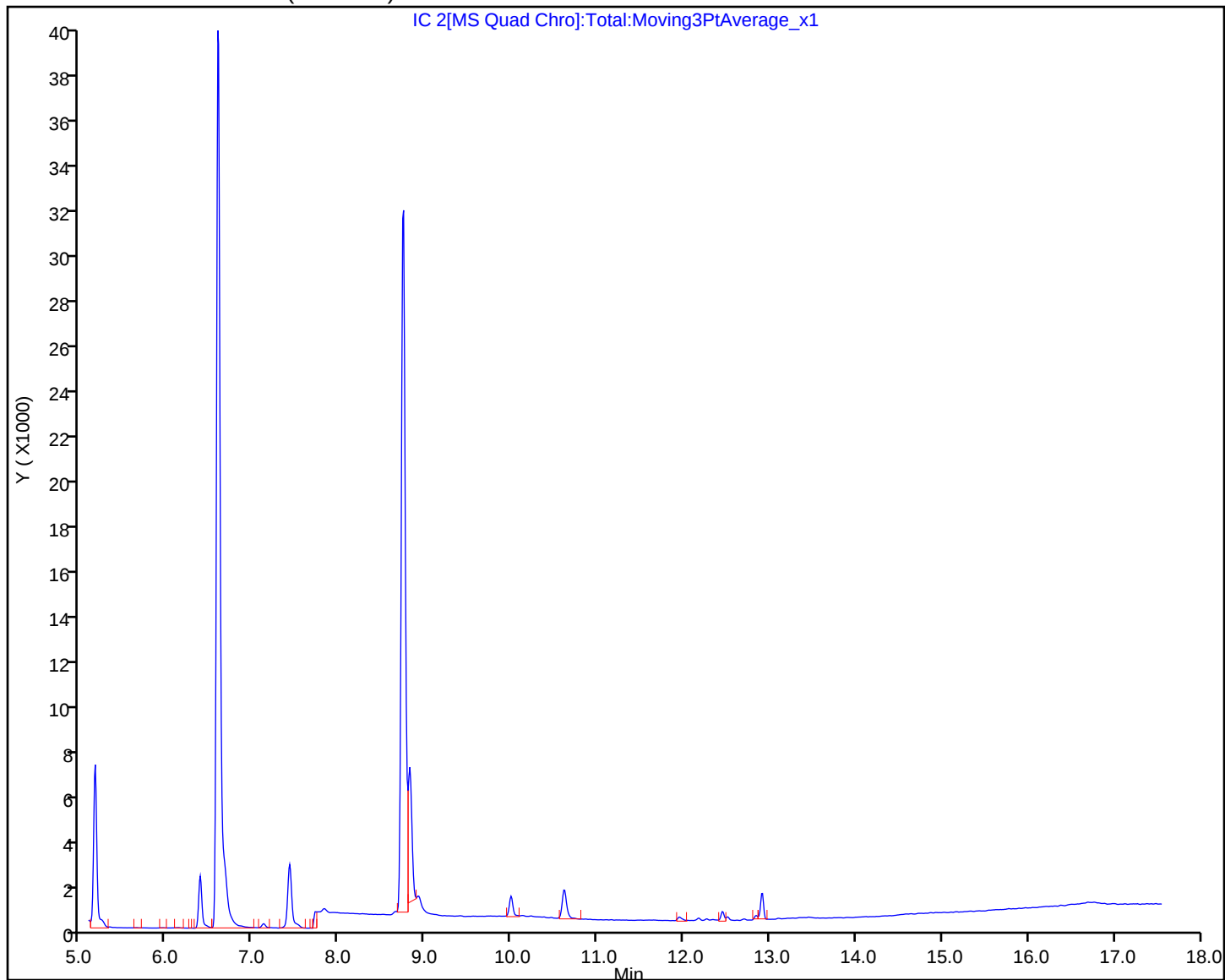
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

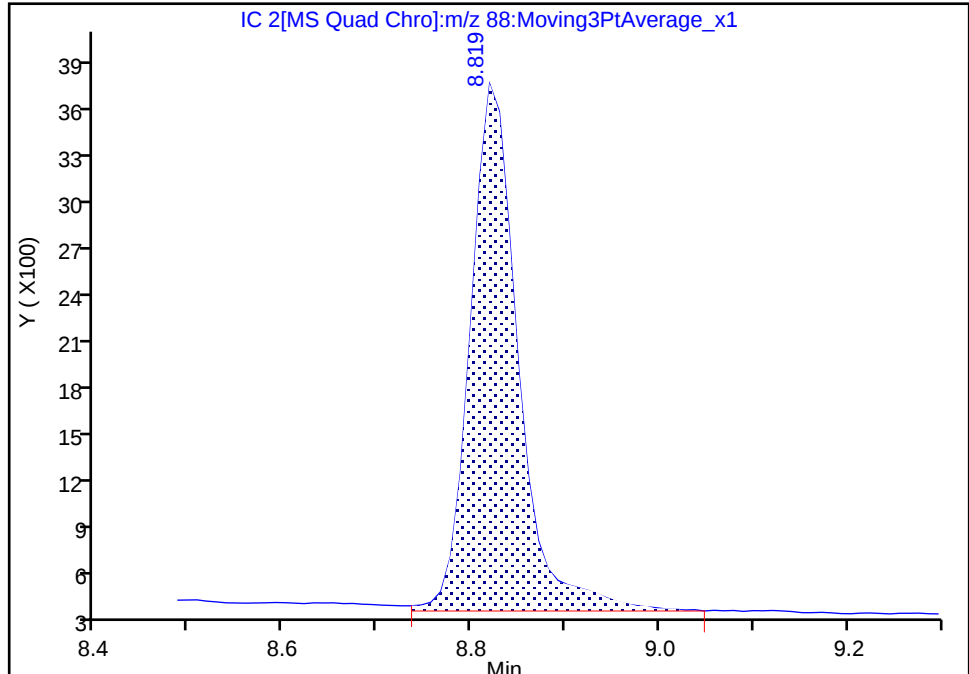
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 2.D
Injection Date: 03-Jun-2025 08:08:57 Instrument ID: GCMS-FE
Lims ID: IC 810-144020/9-A
Client ID:
Operator ID: BC ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

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

Signal: 1

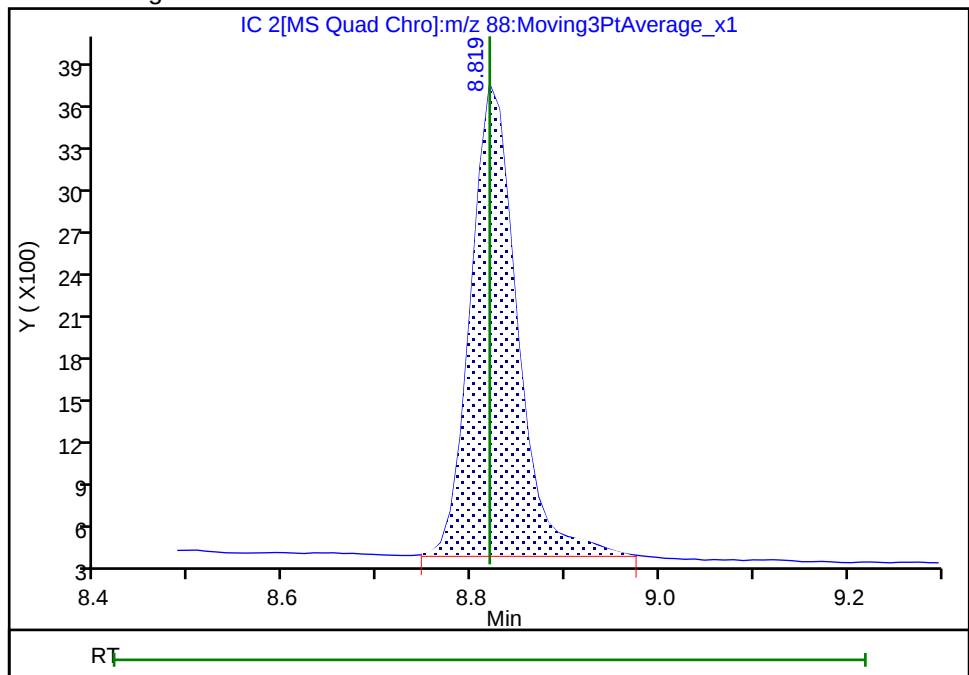
RT: 8.82
Area: 12010
Amount: 101.3436
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 11542
Amount: 97.538511
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:21:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 5.D
 Lims ID: IC 810-144020/10-A
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Jun-2025 08:30:56 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-009
 Misc. Info.: IC 810-144020/10-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:23 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:20:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.590	0.000	33	40878	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	56784	500.0	482.9	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	26078	250.0	234.9	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 5.D

Injection Date: 03-Jun-2025 08:30:56

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/10-A

Client ID:

Operator ID: BC

ALS Bottle#:

9

Worklist Smp#:

9

Injection Vol: 1.0 ul

Dil. Factor:

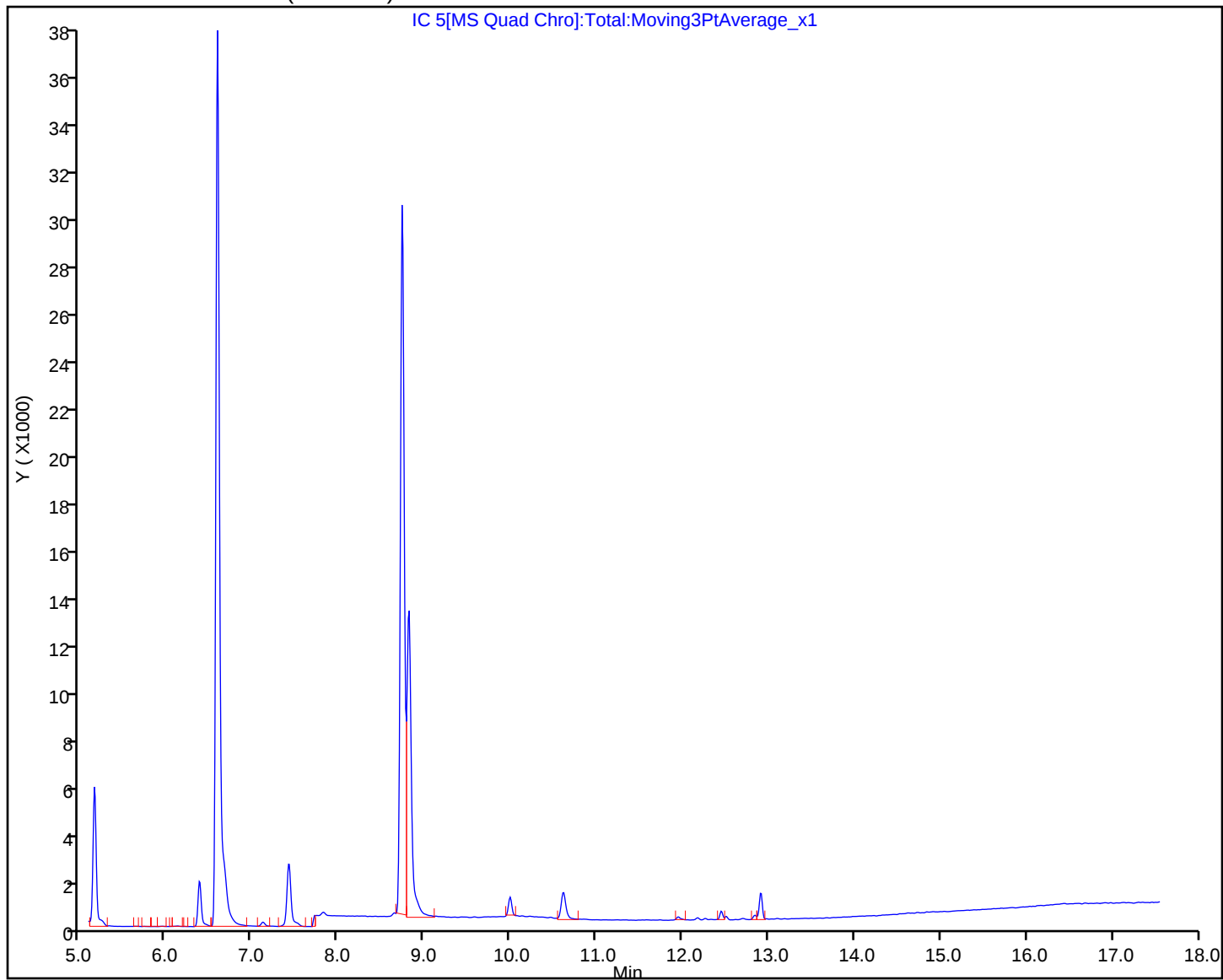
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 5.D

Injection Date: 03-Jun-2025 08:30:56

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/10-A

Client ID:

Operator ID: BC

ALS Bottle#:

9

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

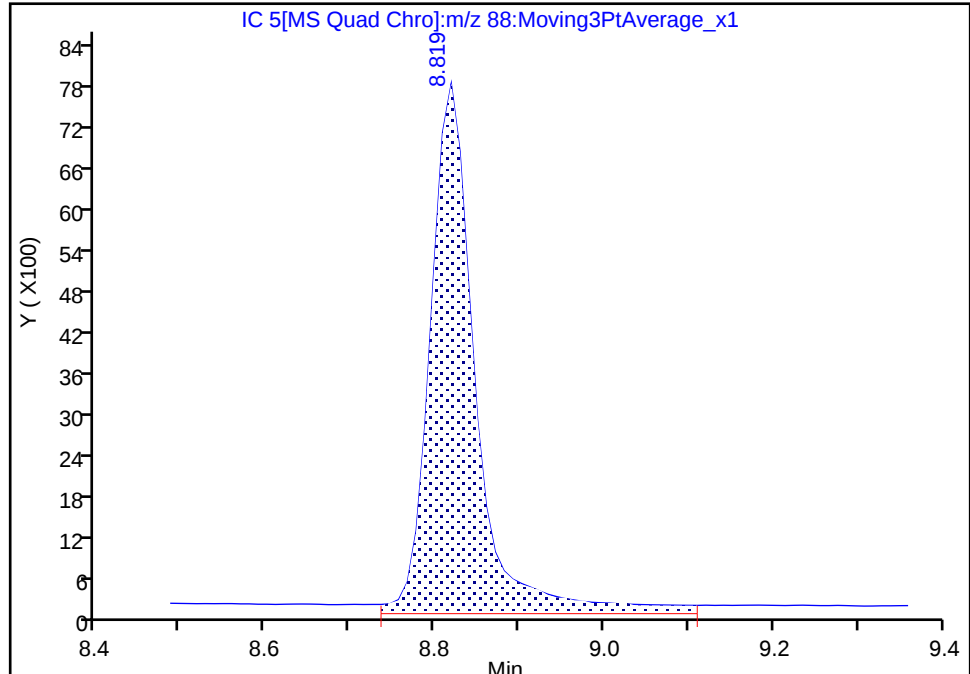
Detector: MS Quad

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

Signal: 1

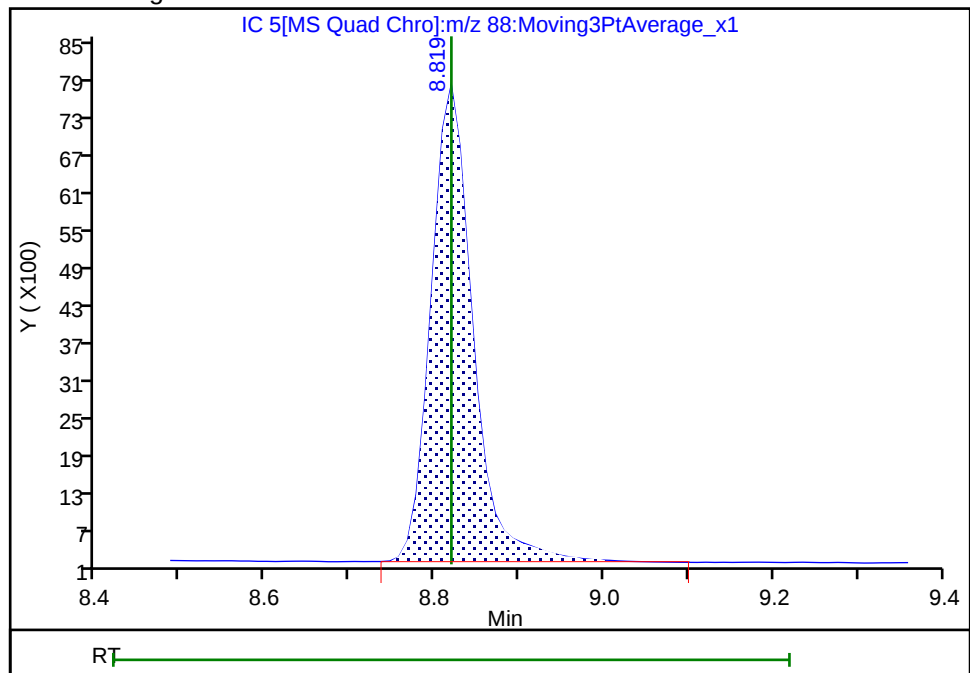
RT: 8.82
Area: 28800
Amount: 258.4066
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 26078
Amount: 234.8592
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:20:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 10.D
 Lims ID: IC 810-144020/11-A
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-Jun-2025 08:52:52 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-010
 Misc. Info.: IC 810-144020/11-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:25 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:20:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.598	6.590	0.008	24	43554	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.746	8.736	0.010	98	61009	500.0	486.9	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	57951	500.0	489.6	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 10.D

Injection Date: 03-Jun-2025 08:52:52

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/11-A

Client ID:

Operator ID: BC

ALS Bottle#: 10

Worklist Smp#: 10

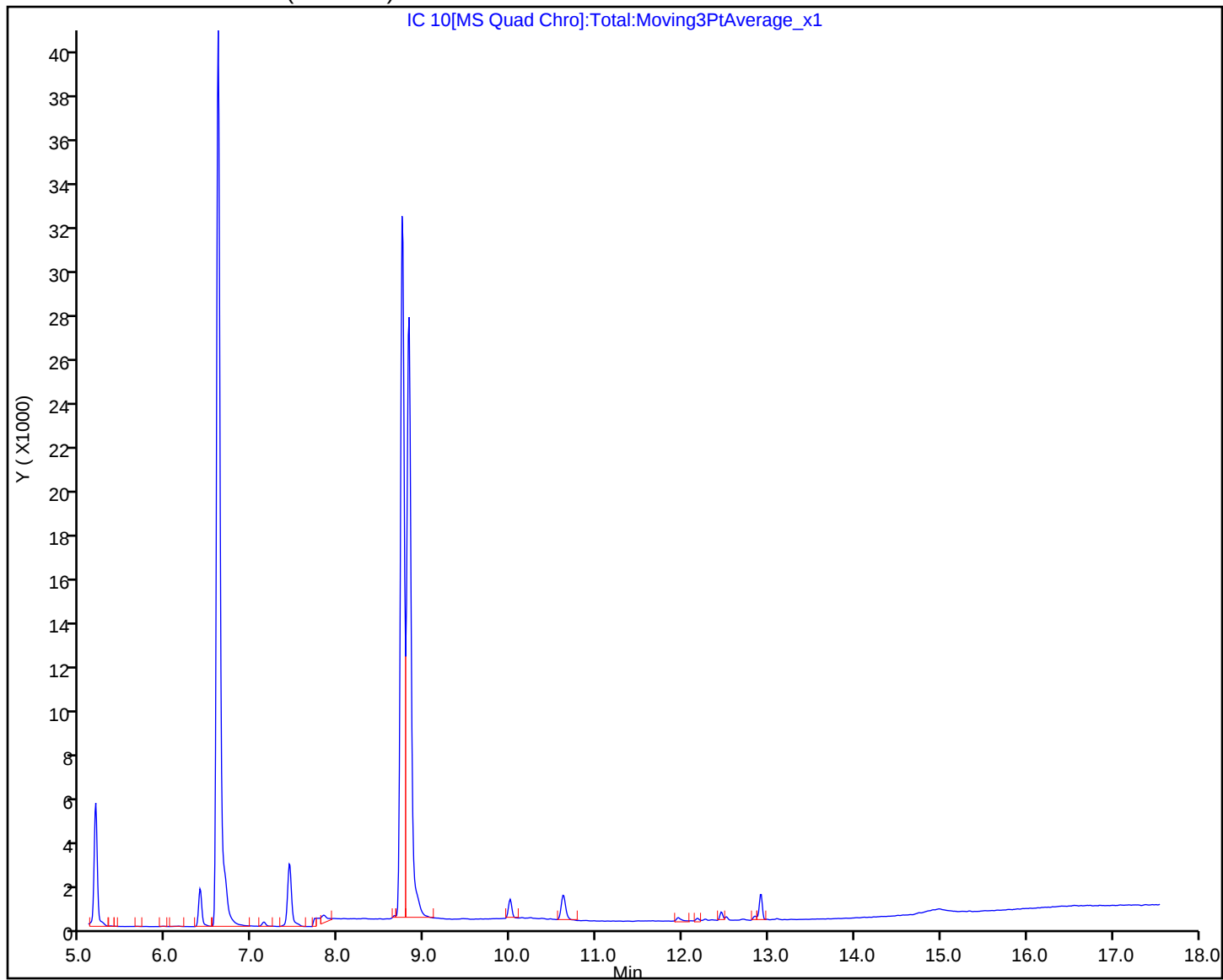
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 10.D

Injection Date: 03-Jun-2025 08:52:52

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/11-A

Client ID:

Operator ID: BC

ALS Bottle#:

10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

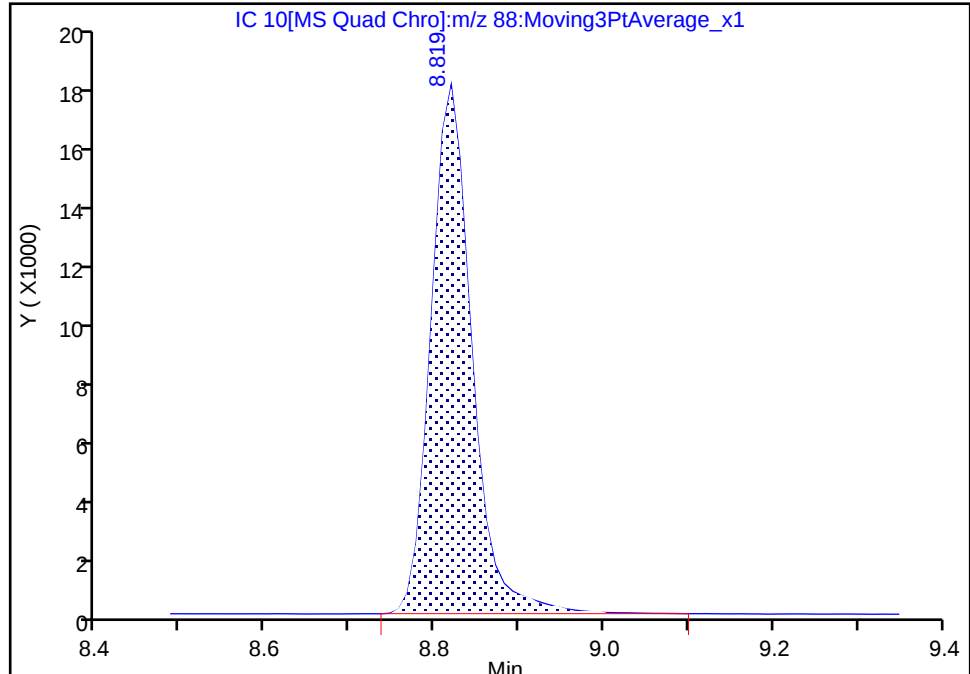
MS Quad

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

Signal: 1

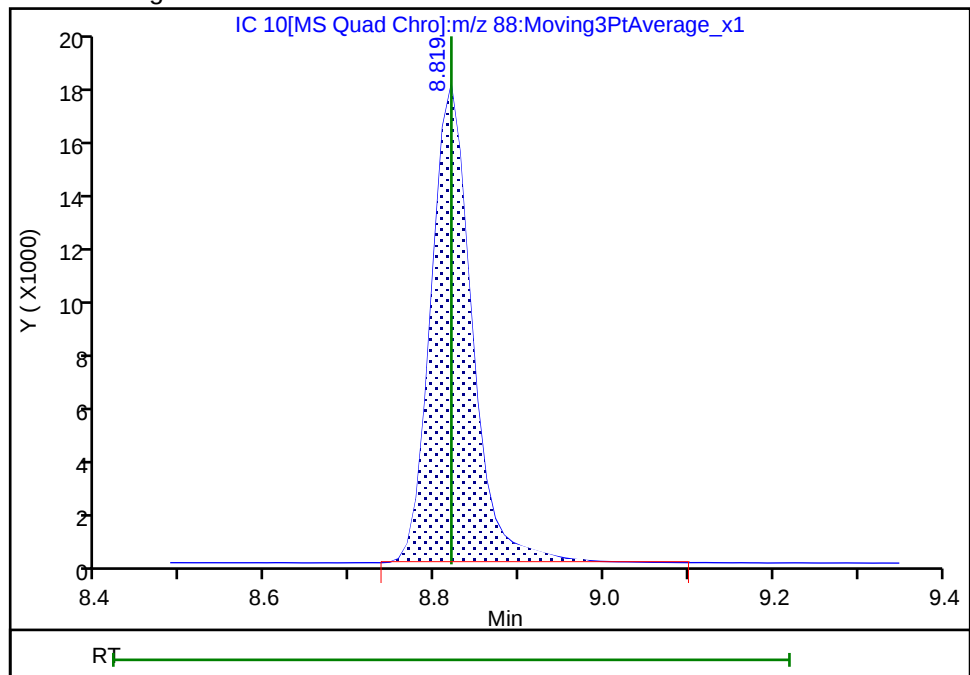
RT: 8.82
Area: 58198
Amount: 490.0102
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 57951
Amount: 489.6426
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:20:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 20.D
 Lims ID: ICISAV 810-144020/12-A
 Client ID:
 Sample Type: ICISAV Calib Level: 9
 Inject. Date: 03-Jun-2025 09:15:01 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-011
 Misc. Info.: ICISAV 810-144020/12-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:26 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.582	0.000	24	46285	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	98	68388	500.0	513.6	
11 1,4-Dioxane	88	8.809	8.809	0.000	78	124389	1000.0	988.8	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 20.D

Injection Date: 03-Jun-2025 09:15:01

Instrument ID: GCMS-FE

Lims ID: ICISAV 810-144020/12-A

Client ID:

Operator ID: BC

ALS Bottle#: 11

Worklist Smp#: 11

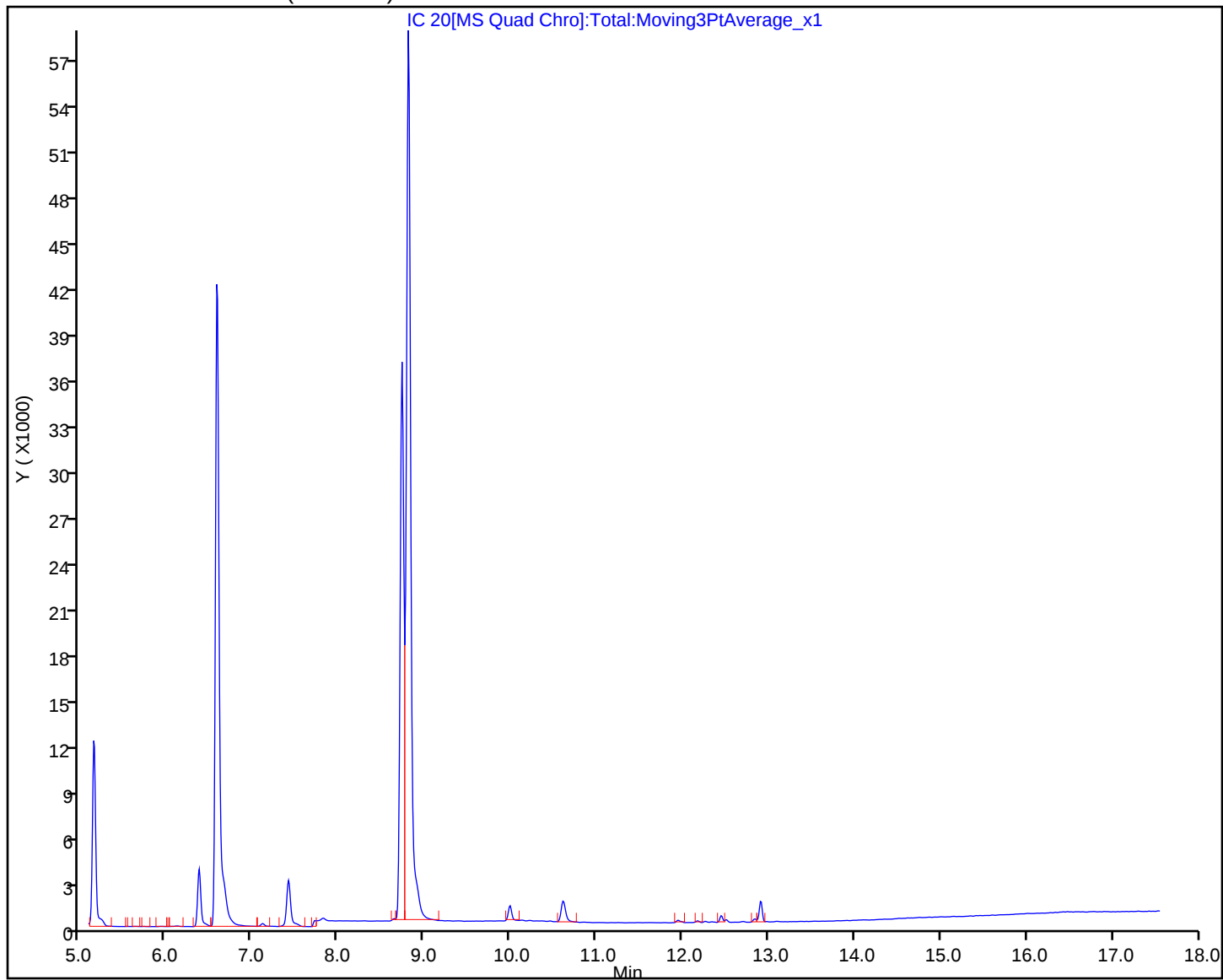
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250603-37809.b\IC 50.D
 Lims ID: IC 810-144020/13-A
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 03-Jun-2025 09:37:10 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-012
 Misc. Info.: IC 810-144020/13-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:27 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.582	0.008	24	41514	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	98	57621	500.0	482.5	
11 1,4-Dioxane	88	8.809	8.809	0.000	78	266542	2500.0	2362.0	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC 50.D

Injection Date: 03-Jun-2025 09:37:10

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/13-A

Client ID:

Operator ID: BC

ALS Bottle#: 12

Worklist Smp#: 12

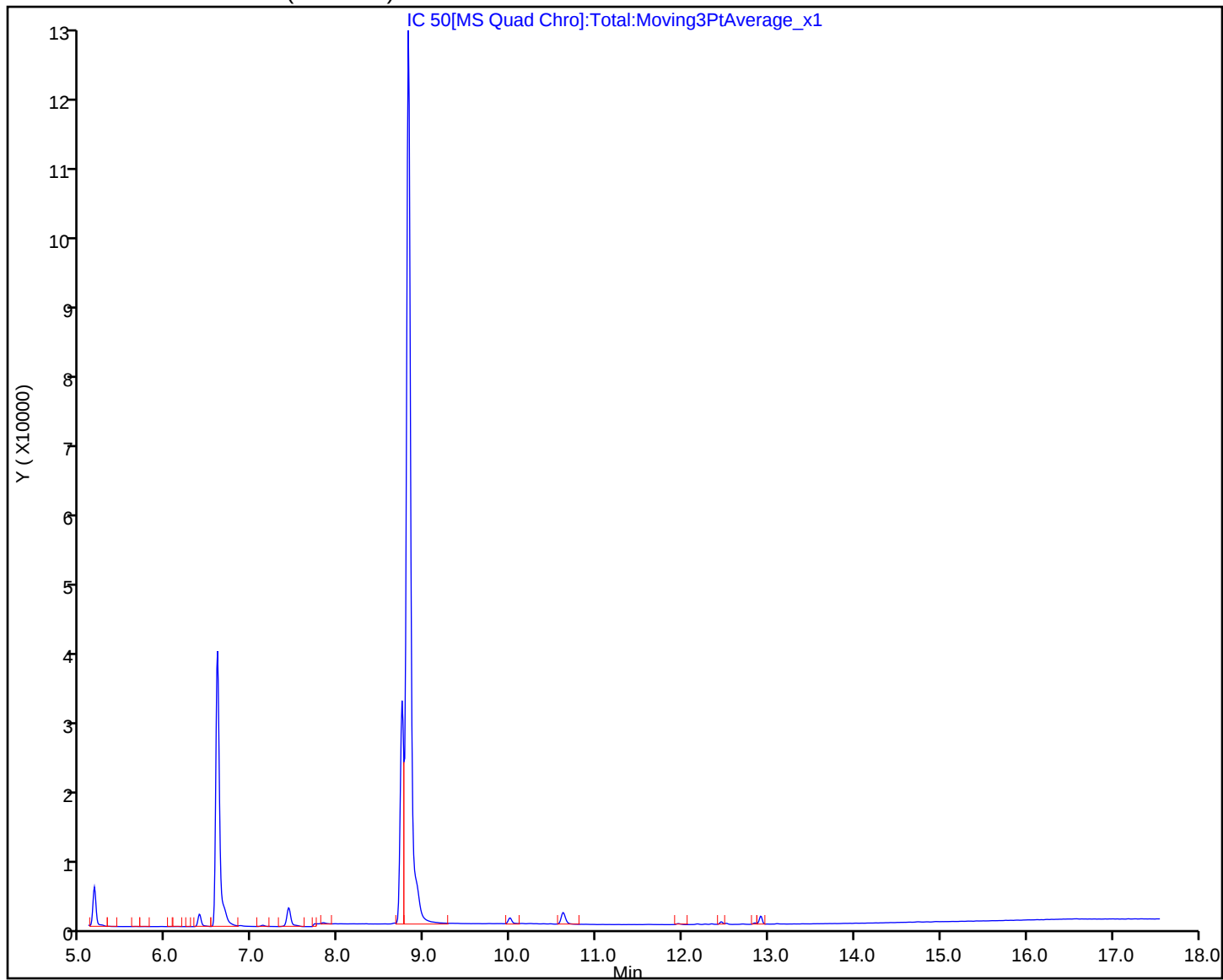
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250603-37809.b\IC100.D
 Lims ID: IC 810-144020/14-A
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 03-Jun-2025 09:59:17 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-013
 Misc. Info.: IC 810-144020/14-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 10:37:28 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 03-Jun-2025 10:19:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.566	6.582	-0.016	25	77241	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.726	8.736	-0.010	99	120059	500.0	540.3	
11 1,4-Dioxane	88	8.798	8.809	-0.011	77	1087074	5000.0	5177.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D

Injection Date: 03-Jun-2025 09:59:17

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/14-A

Client ID:

Operator ID: BC

ALS Bottle#: 13

Worklist Smp#: 13

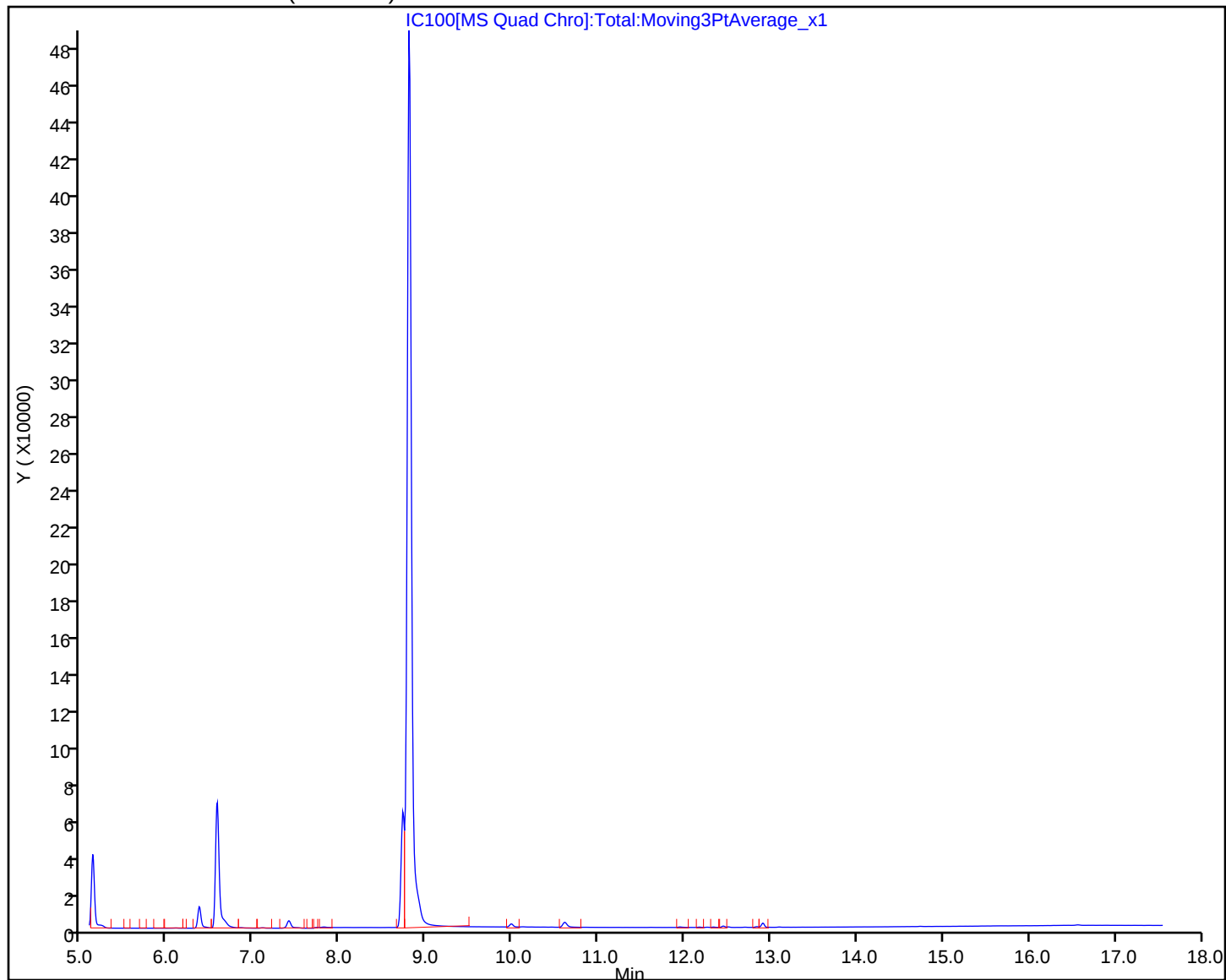
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D

Injection Date: 03-Jun-2025 09:59:17

Instrument ID: GCMS-FE

Lims ID: IC 810-144020/14-A

Client ID:

Operator ID: BC

ALS Bottle#:

13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

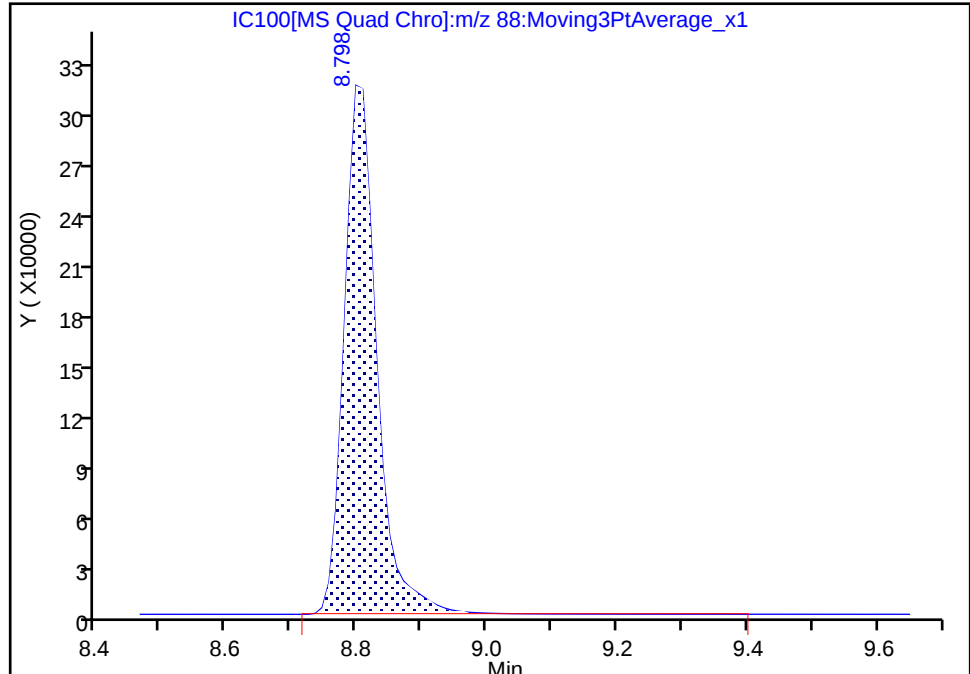
MS Quad

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

Signal: 1

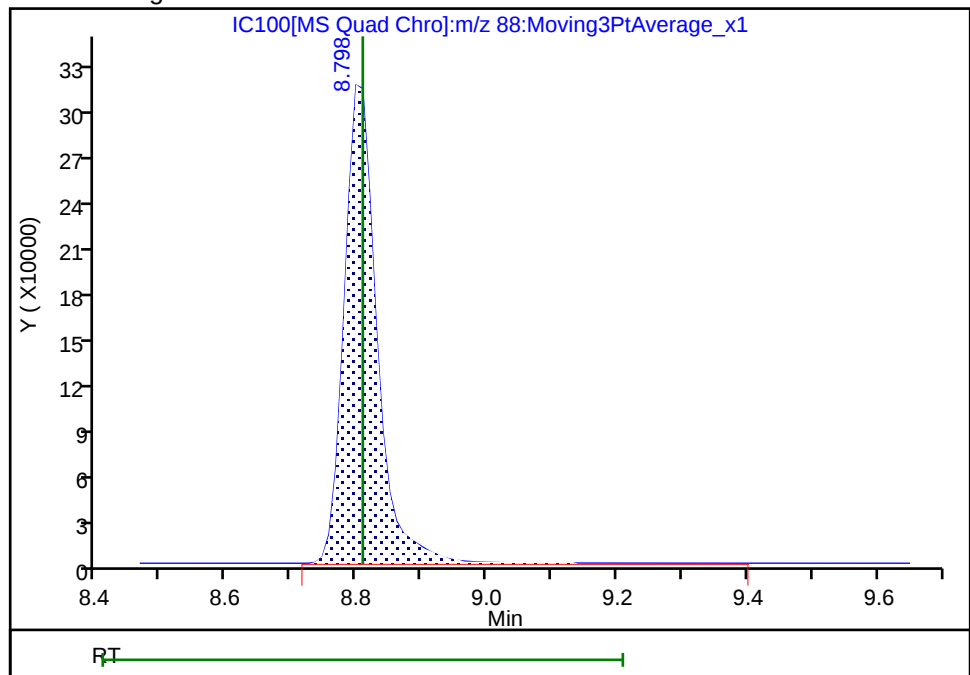
RT: 8.80
Area: 1088098
Amount: 5163.4752
Amount Units: ug/l

Processing Integration Results



RT: 8.80
Area: 1087074
Amount: 5177.3819
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 03-Jun-2025 10:19:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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

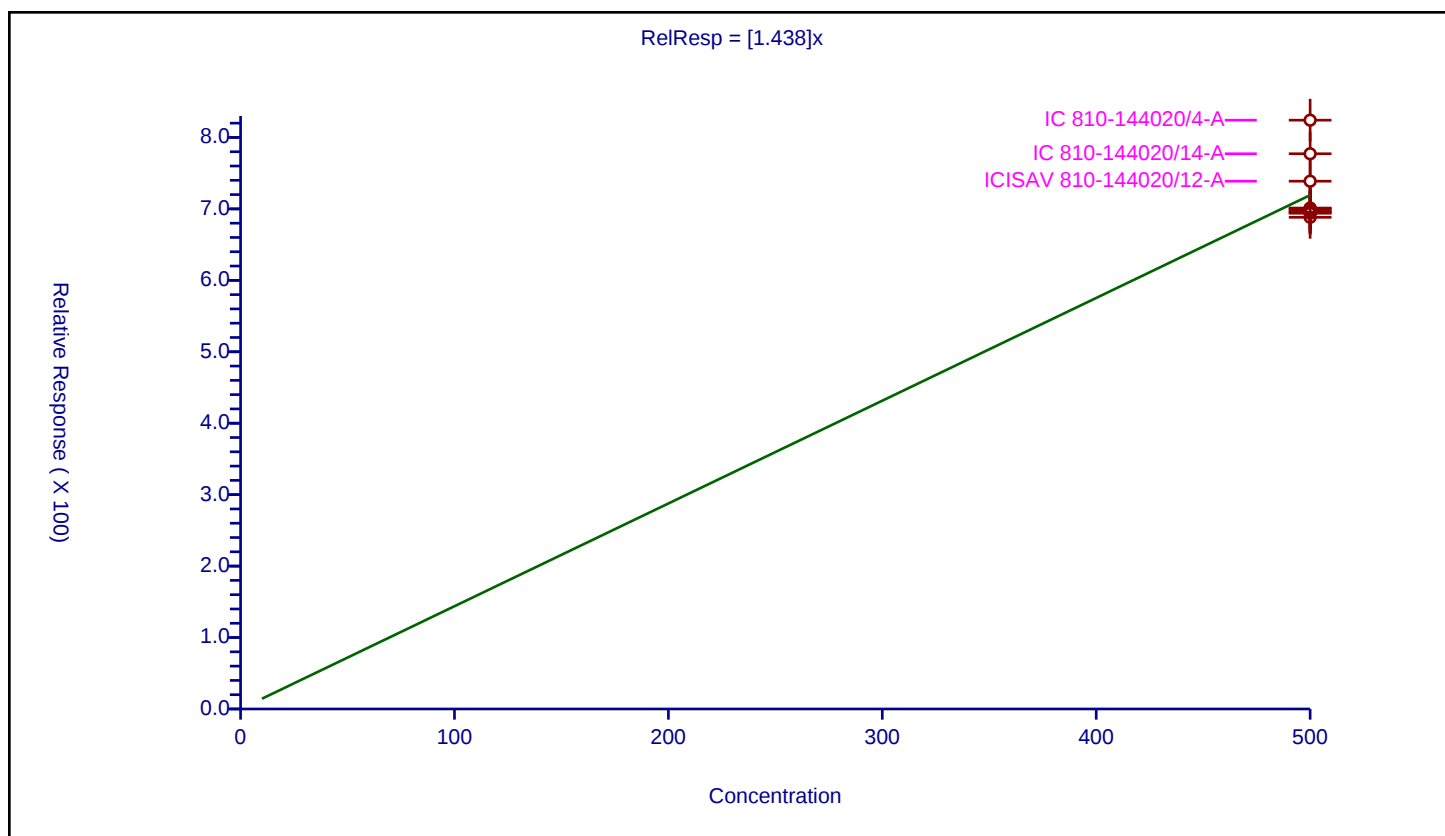
Curve Coefficients

Intercept: 0
Slope: 1.438

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-144020/4-A	500.0	824.185468	500.0	62674.0	1.648371	Y
2	IC 810-144020/5-A	500.0	701.19022	500.0	41841.0	1.40238	Y
3	IC 810-144020/6-A	500.0	696.754103	500.0	43994.0	1.393508	Y
4	IC 810-144020/7-A	500.0	688.208262	500.0	41563.0	1.376417	Y
5	IC 810-144020/8-A	500.0	695.849352	500.0	43439.0	1.391699	Y
6	IC 810-144020/9-A	500.0	699.853251	500.0	43612.0	1.399707	Y
7	IC 810-144020/10-A	500.0	694.554528	500.0	40878.0	1.389109	Y
8	IC 810-144020/11-A	500.0	700.383432	500.0	43554.0	1.400767	Y
9	ICISAV 810-144020/12-A	500.0	738.77066	500.0	46285.0	1.477541	Y
10	IC 810-144020/13-A	500.0	693.994797	500.0	41514.0	1.38799	Y
11	IC 810-144020/14-A	500.0	777.17145	500.0	77241.0	1.554343	Y



Calibration

/ 1,4-Dioxane

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

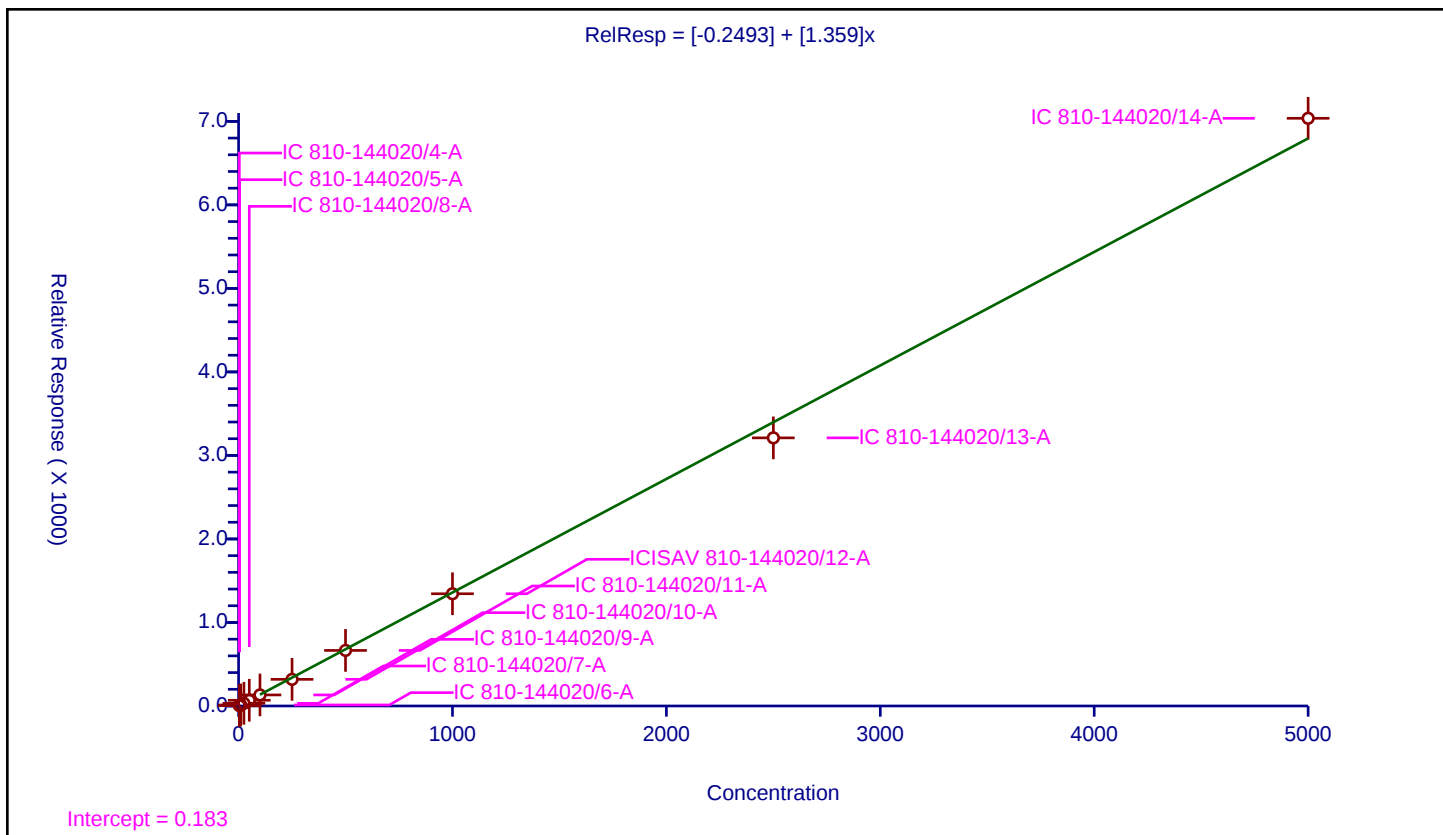
Curve Coefficients

Intercept: -0.2493
 Slope: 1.359

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-144020/4-A	3.5	5.520631	500.0	62674.0	1.577323	Y
2	IC 810-144020/5-A	5.0	6.608351	500.0	41841.0	1.32167	Y
3	IC 810-144020/6-A	10.0	12.626722	500.0	43994.0	1.262672	Y
4	IC 810-144020/7-A	25.0	32.240214	500.0	41563.0	1.289609	Y
5	IC 810-144020/8-A	50.0	68.486844	500.0	43439.0	1.369737	Y
6	IC 810-144020/9-A	100.0	132.325965	500.0	43612.0	1.32326	Y
7	IC 810-144020/10-A	250.0	318.973531	500.0	40878.0	1.275894	Y
8	IC 810-144020/11-A	500.0	665.277586	500.0	43554.0	1.330555	Y
9	ICISAV 810-144020/12-A	1000.0	1343.72907	500.0	46285.0	1.343729	Y
10	IC 810-144020/13-A	2500.0	3210.266416	500.0	41514.0	1.284107	Y
11	IC 810-144020/14-A	5000.0	7036.897503	500.0	77241.0	1.40738	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-150978-1
SDG No.: _____
Lab Sample ID: ICV 810-144020/15-A Calibration Date: 06/03/2025 10:43
Instrument ID: GCMS-FE Calib Start Date: 06/03/2025 06:18
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/03/2025 09:59
Lab File ID: ICV.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.456		107	100	107	80-120
1,4-Dioxane-d8 (Surr)	Ave	1.438	1.448		503	500	101	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\ICV.D
 Lims ID: ICV 810-144020/15-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 03-Jun-2025 10:43:08 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037809-014
 Misc. Info.: ICV 810-144020/15-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist:
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 04-Jun-2025 15:53:00 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JH8B

Date: 04-Jun-2025 15:53:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.589	0.001	24	50195	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.747	8.736	0.010	99	72700	500.0	503.5	
11 1,4-Dioxane	88	8.819	8.819	0.000	78	14618	100.0	107.3	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\ICV.D

Injection Date: 03-Jun-2025 10:43:08

Instrument ID: GCMS-FE

Lims ID: ICV 810-144020/15-A

Client ID:

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 14

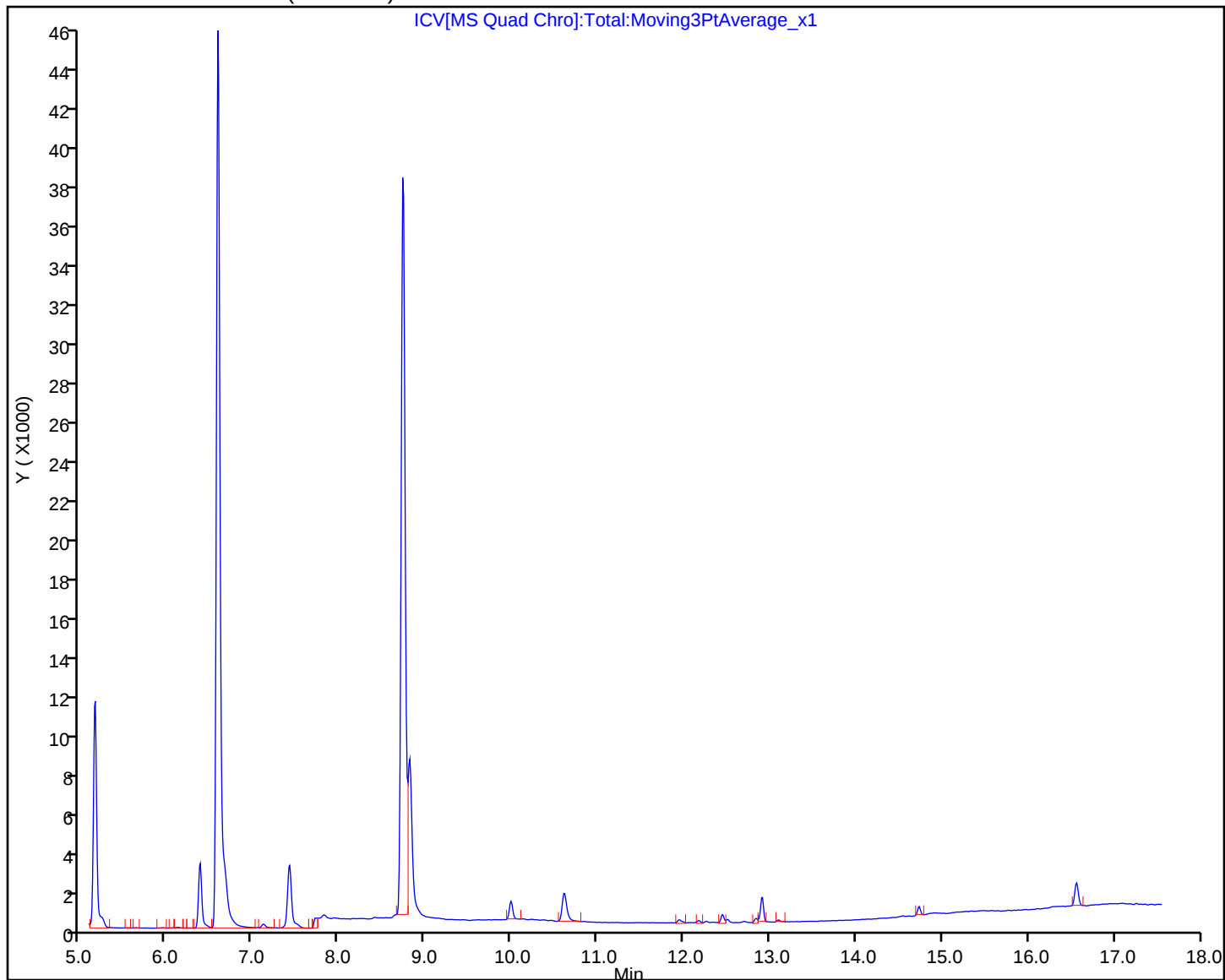
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\ICV.D

Injection Date: 03-Jun-2025 10:43:08

Instrument ID: GCMS-FE

Lims ID: ICV 810-144020/15-A

Client ID:

Operator ID: BC

ALS Bottle#:

14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

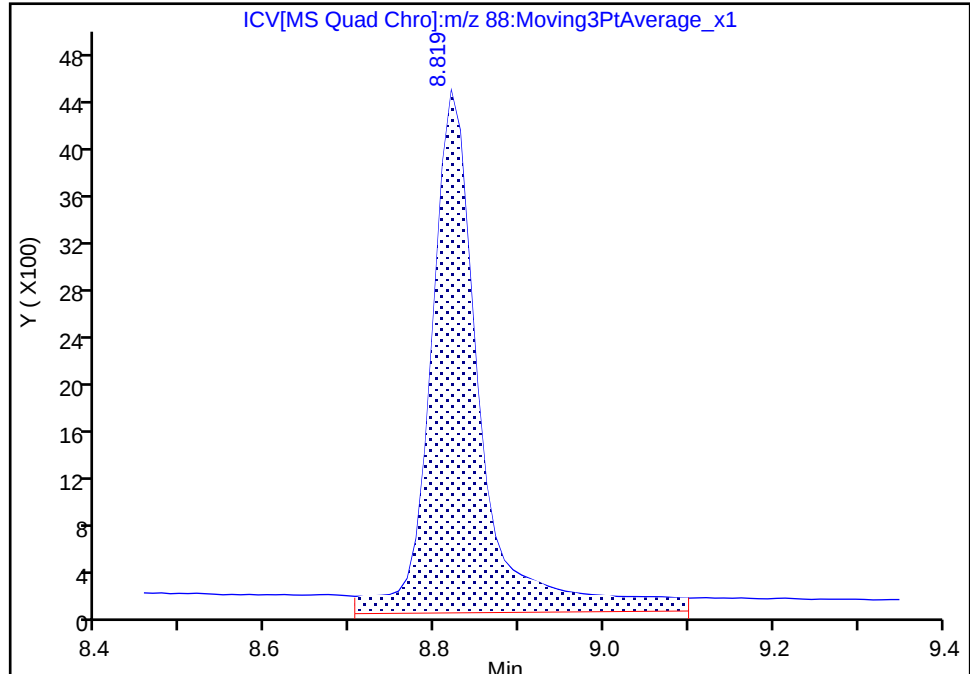
Detector: MS Quad

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

Signal: 1

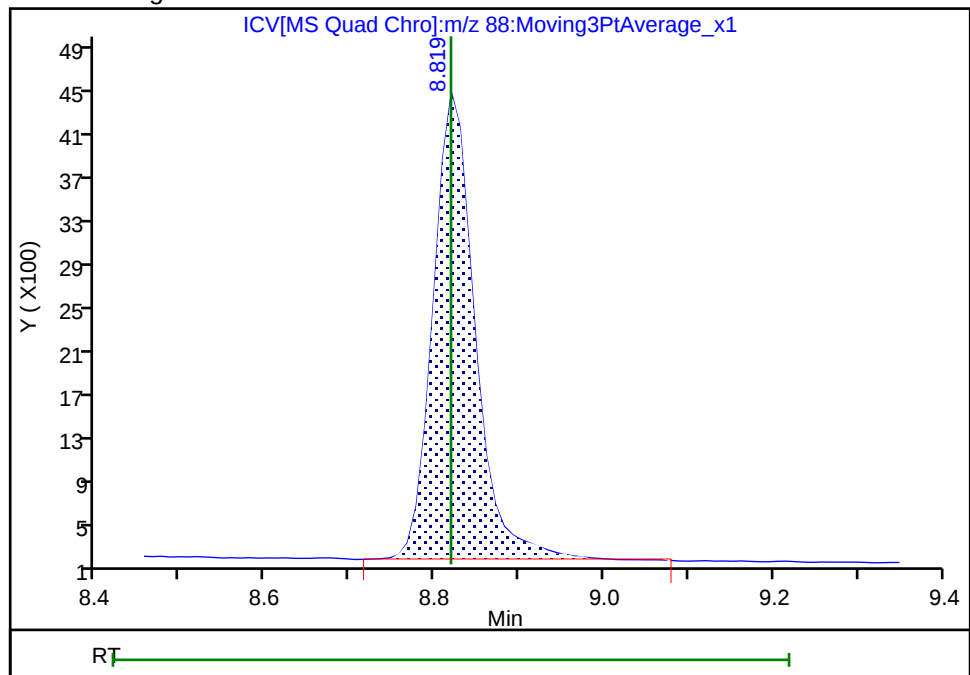
RT: 8.82
Area: 17937
Amount: 131.6372
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 14618
Amount: 107.3134
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 04-Jun-2025 15:52:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-150978-1
SDG No.: _____
Lab Sample ID: CCVLIS 810-147087/1- Calibration Date: 06/06/2025 16:06
Instrument ID: GCMS-FE Calib Start Date: 06/03/2025 06:18
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/03/2025 09:59
Lab File ID: CCVLIS.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.413		3.82	3.50	109	50-150
1,4-Dioxane-d8 (Surr)	Ave	1.438	1.037		361	500	72	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\CCVLIS.D
 Lims ID: CCVLIS 810-147087/1-A
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 06-Jun-2025 16:06:06 ALS Bottle#: 2 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037977-001
 Misc. Info.: CCVLIS 810-146876/1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1694

First Level Reviewer: JH8B

Date: 09-Jun-2025 05:44:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.582	0.000	22	41656	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	43205	500.0	360.5	
11 1,4-Dioxane	88	8.819	8.809	0.010	75	412	3.50	3.82	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\CCVLIS.D

Injection Date: 06-Jun-2025 16:06:06

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-147087/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

1

Injection Vol: 1.0 ul

Dil. Factor:

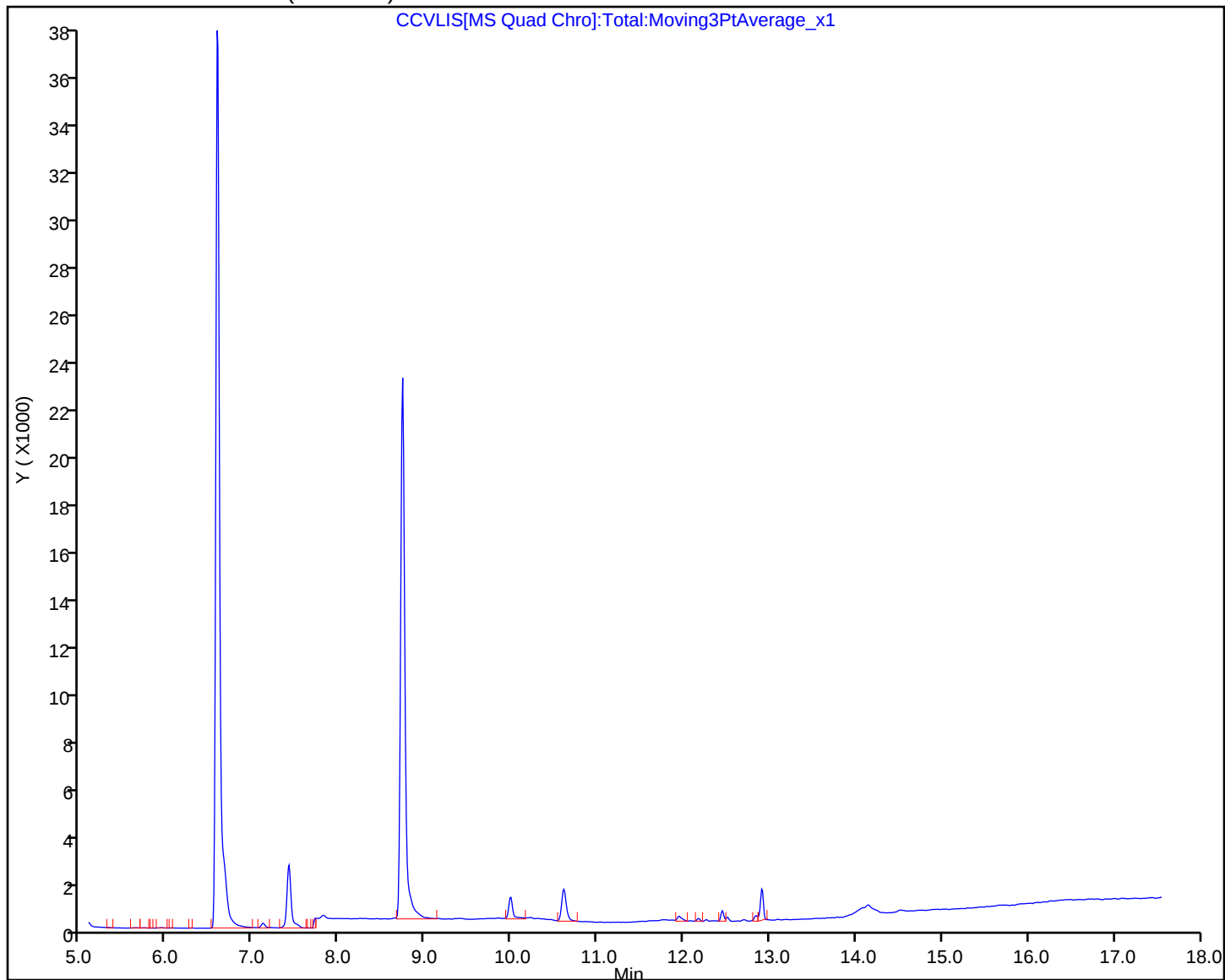
1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)



Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\CCVLIS.D

Injection Date: 06-Jun-2025 16:06:06

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-147087/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 522_GCMS-FE

Limit Group:

MSS - 522

Column: CP Select 624 MS (0.25 mm)

Detector

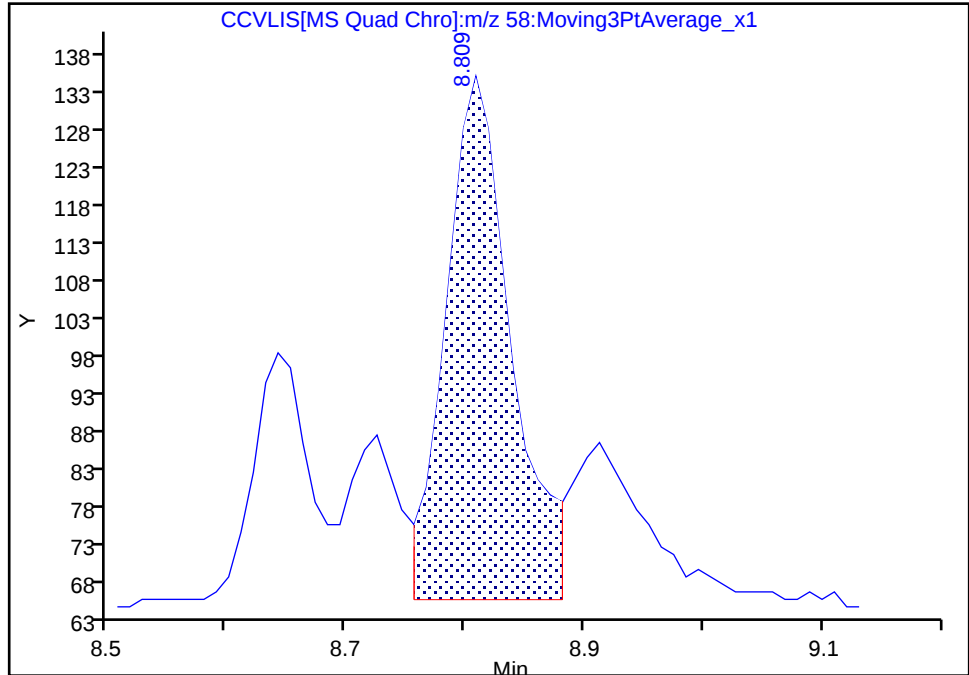
MS Quad

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

Signal: 2

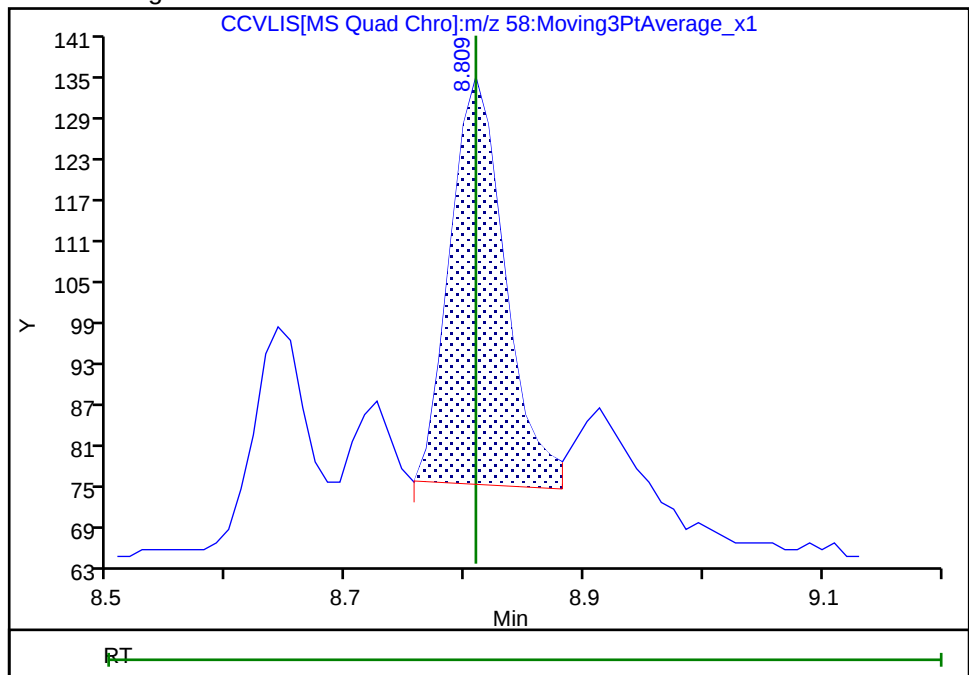
RT: 8.81
Area: 272
Amount: 9.976914
Amount Units: ug/l

Processing Integration Results



RT: 8.81
Area: 195
Amount: 3.821762
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 09-Jun-2025 05:44:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-150978-1
SDG No.: _____
Lab Sample ID: CCVIS 810-147087/2-A Calibration Date: 06/06/2025 21:16
Instrument ID: GCMS-FE Calib Start Date: 06/03/2025 06:18
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 06/03/2025 09:59
Lab File ID: CCVM.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		1.142		840	1000	84	70-130
1,4-Dioxane-d8 (Surr)	Ave	1.438	1.151		400	500	80	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\CCVM.D
 Lims ID: CCVIS 810-147087/2-A
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Jun-2025 21:16:32 ALS Bottle#: 15 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037977-014
 Misc. Info.: CCVIS 810-147087/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 09-Jun-2025 06:19:26 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1694

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.582	6.582	0.000	24	42411	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	99	48800	500.0	400.0	
11 1,4-Dioxane	88	8.809	8.809	0.000	78	96838	1000.0	840.1	

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\CCVM.D

Injection Date: 06-Jun-2025 21:16:32

Instrument ID: GCMS-FE

Lims ID: CCVIS 810-147087/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 15

Worklist Smp#: 14

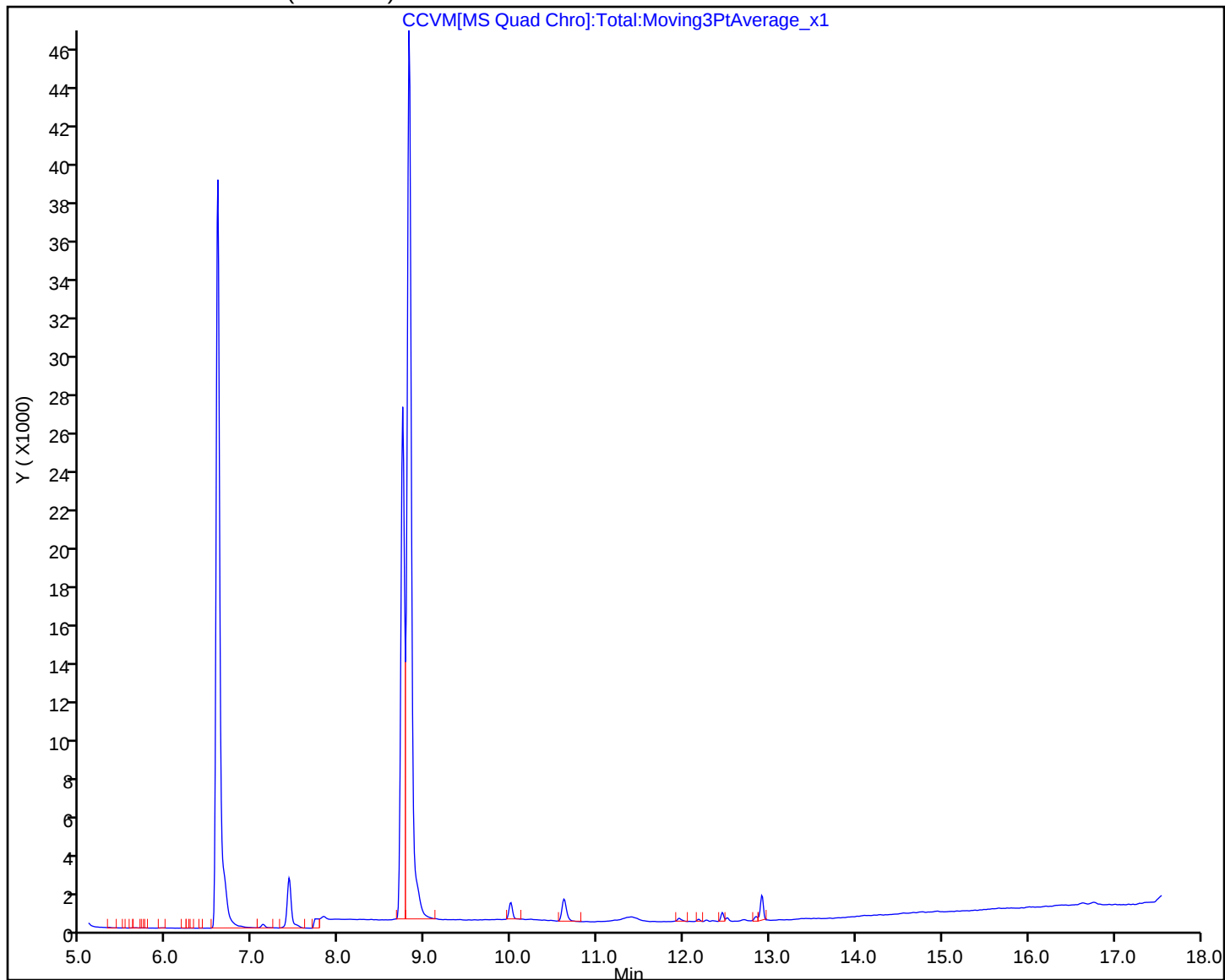
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250603-37809.b\BFB 2.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Jun-2025 06:04:27 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Sample Info: 810-0037809-002
Misc. Info.: BFB 2
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 04-Jun-2025 15:39:25 Calib Date: 03-Jun-2025 09:59:17
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: JH8B

Date: 04-Jun-2025 10:38:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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10 BFB

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

O-522BFBSUB_00021

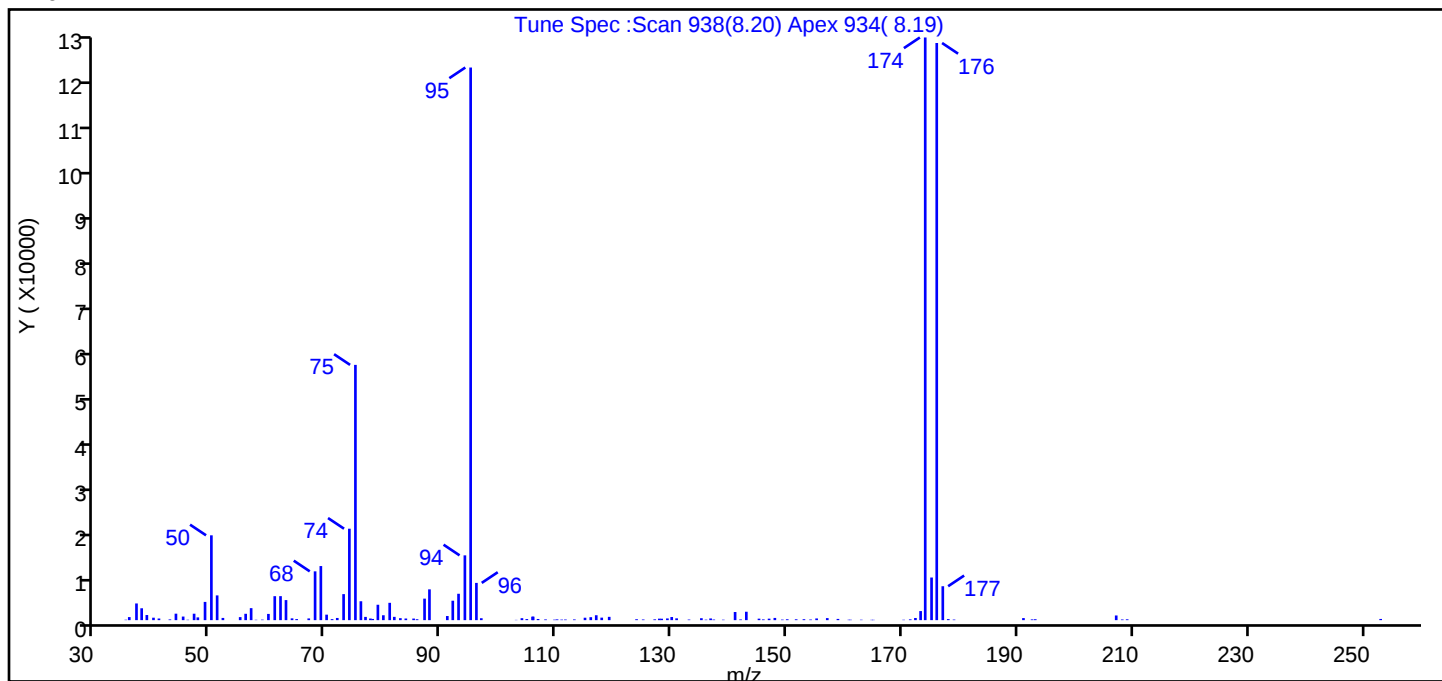
Amount Added: 1.00

Units: mL

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\BFB 2.D
Injection Date: 03-Jun-2025 06:04:27 Instrument ID: GCMS-FE
Lims ID: BFB
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Method: 522_GCMS-FE 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	15.4
75	30-80% of mass 95	46.2
96	5-9% of mass 95	6.7
173	<2% of mass 174	1.6 (1.6)
174	>50% of mass 95	105.4
175	5-9% of mass 174	7.7 (7.3)
176	>95% but <101% of mass 174	104.4 (99.1)
177	5-9% of mass 176	6.1 (5.9)

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\BFB 2.D\522_GCMS-FE.rsl\spectra.d
Injection Date: 03-Jun-2025 06:04:27
Spectrum: Tune Spec :Scan 938(8.20) Apex 934(8.19)
Base Peak: 173.95
Minimum % Base Peak: 0
Number of Points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	90	71.00	216	108.00	156	149.00	117
36.00	659	72.00	470	110.00	105	150.00	190
37.00	3599	73.00	5612	110.00	165	152.00	185
38.00	2561	74.00	19720	111.00	115	153.00	200
39.00	1103	75.00	55056	112.00	134	154.00	135
40.00	527	76.00	4075	113.00	155	155.00	366
41.00	351	77.00	700	115.00	522	157.00	440
43.00	160	78.00	351	116.00	638	159.00	264
44.00	1395	78.00	259	117.00	1059	161.00	92
45.00	774	79.00	3320	118.00	542	161.00	83
46.00	85	80.00	1055	119.00	711	163.00	92
47.00	1388	81.00	3736	124.00	197	165.00	68
48.00	594	82.00	710	125.00	142	165.00	69
49.00	3933	83.00	426	127.00	174	170.00	84
50.00	18296	84.00	352	128.00	321	171.00	171
51.00	5337	85.00	340	128.00	307	172.00	465
52.00	478	86.00	195	129.00	369	173.00	1956
55.00	654	87.00	4638	130.00	671	174.00	125672
56.00	1370	88.00	6641	131.00	387	175.00	9195
57.00	2588	91.00	889	133.00	130	176.00	124480
58.00	80	92.00	4190	135.00	416	177.00	7313
59.00	113	93.00	5690	136.00	106	178.00	223
60.00	1344	94.00	13975	137.00	364	179.00	124
61.00	5169	95.00	119192	137.00	127	191.00	444
62.00	5176	96.00	8034	139.00	95	192.00	160
63.00	4325	97.00	413	141.00	1755	193.00	195
64.00	386	103.00	57	142.00	151	207.00	1008
65.00	227	104.00	422	143.00	1813	208.00	143
67.00	369	105.00	230	145.00	319	209.00	179
68.00	10525	106.00	746	146.00	158	253.00	259
69.00	11666	106.00	749	147.00	320		
70.00	1182	107.00	250	148.00	478		

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\BFB 2.D

Injection Date: 03-Jun-2025 06:04:27

Instrument ID: GCMS-FE

Lims ID: BFB

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

2

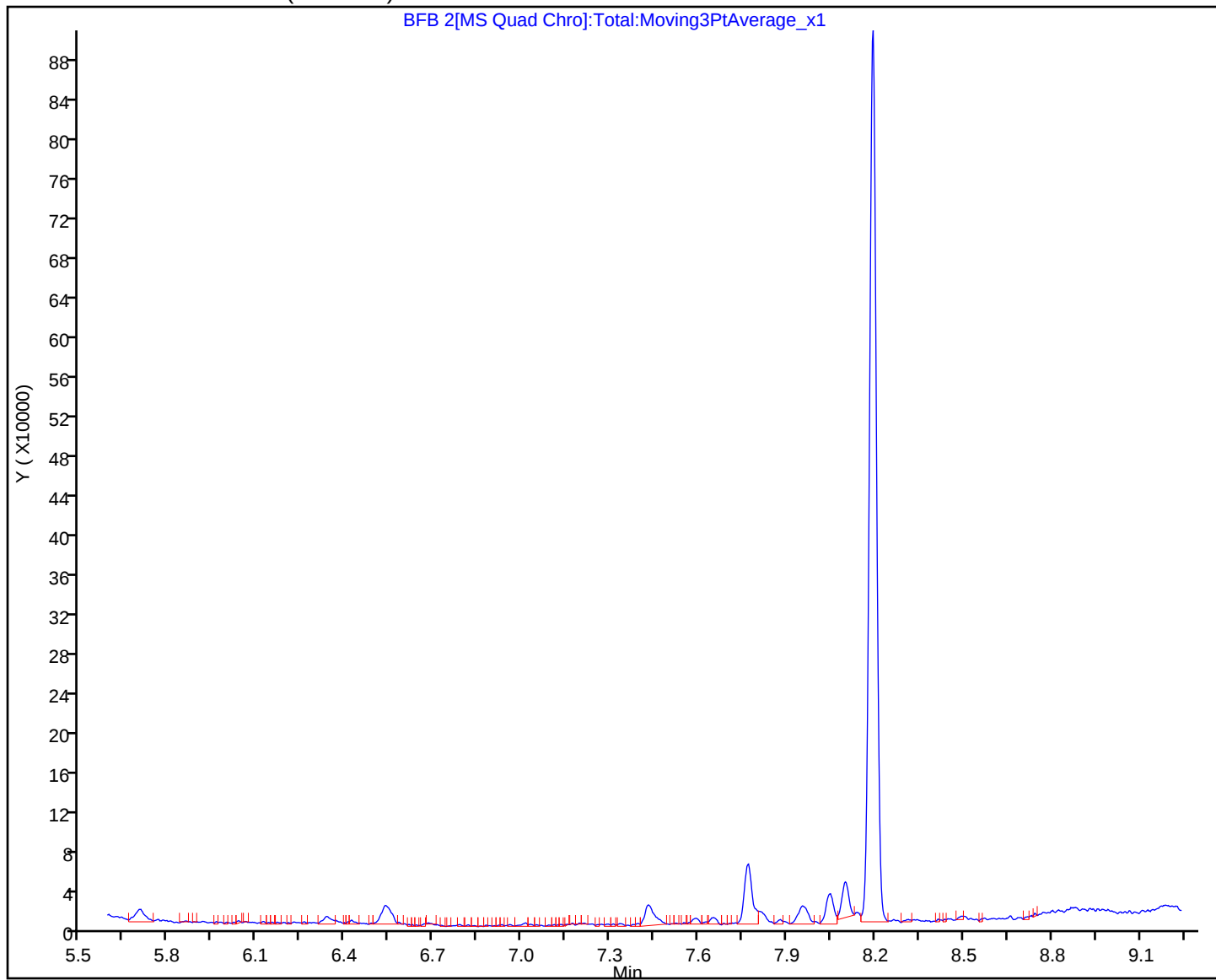
Injection Vol: 2.0 mL

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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 Bend Job No.: 810-150978-1
SDG No.:
Client Sample ID: Lab Sample ID: MBL 810-147036/1-A
Matrix: Drinking Water Lab File ID: MBL.D
Analysis Method: 522 Date Collected:
Extract. Method: 522 Date Extracted: 06/06/2025 08:34
Sample wt/vol: 100 (mL) Date Analyzed: 06/06/2025 16:50
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.: 147156 Units: ug/L
Preparation Batch No.: 147036 Instrument ID: GCMS-FE

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	82		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\MBL.D
 Lims ID: MBL 810-147036/1-A
 Client ID:
 Sample Type: MBL
 Inject. Date: 06-Jun-2025 16:50:34 ALS Bottle#: 3 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037977-002
 Misc. Info.: MBL 810-146839/1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1694

First Level Reviewer: JH8B

Date: 09-Jun-2025 05:47:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.582	0.008	24	39224	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.736	8.736	0.000	98	46172	500.0	409.2	
11 1,4-Dioxane	88		8.809					ND	MU
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\MBL.D

Injection Date: 06-Jun-2025 16:50:34

Instrument ID: GCMS-FE

Lims ID: MBL 810-147036/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 3

Worklist Smp#: 2

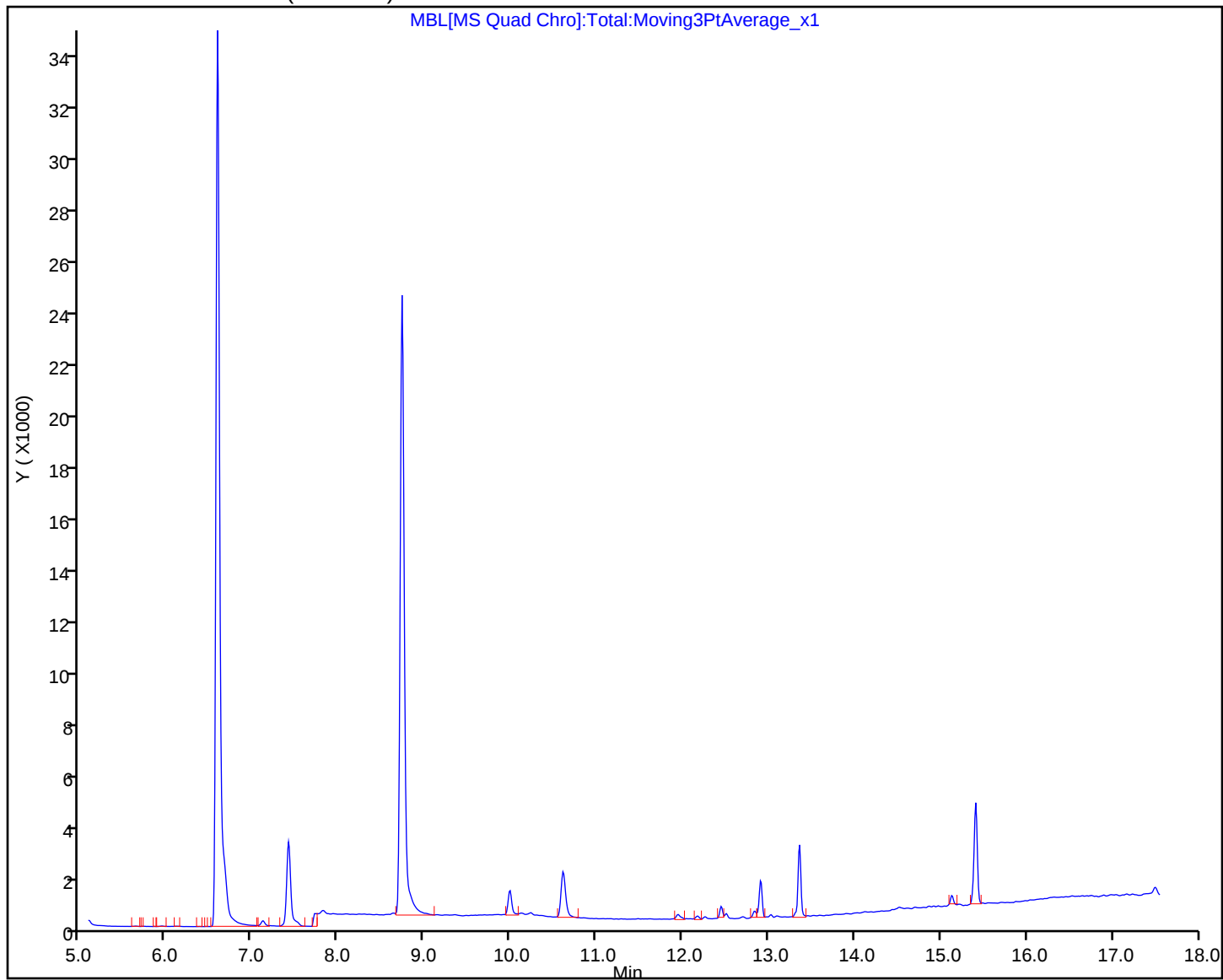
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250606-37977.b\MBL.D
Lims ID: MBL 810-147036/1-A
Client ID:
Sample Type: MBL
Inject. Date: 06-Jun-2025 16:50:34 ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0037977-002
Misc. Info.: MBL 810-146839/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1694

First Level Reviewer: JH8B

Date: 09-Jun-2025 05:47:26

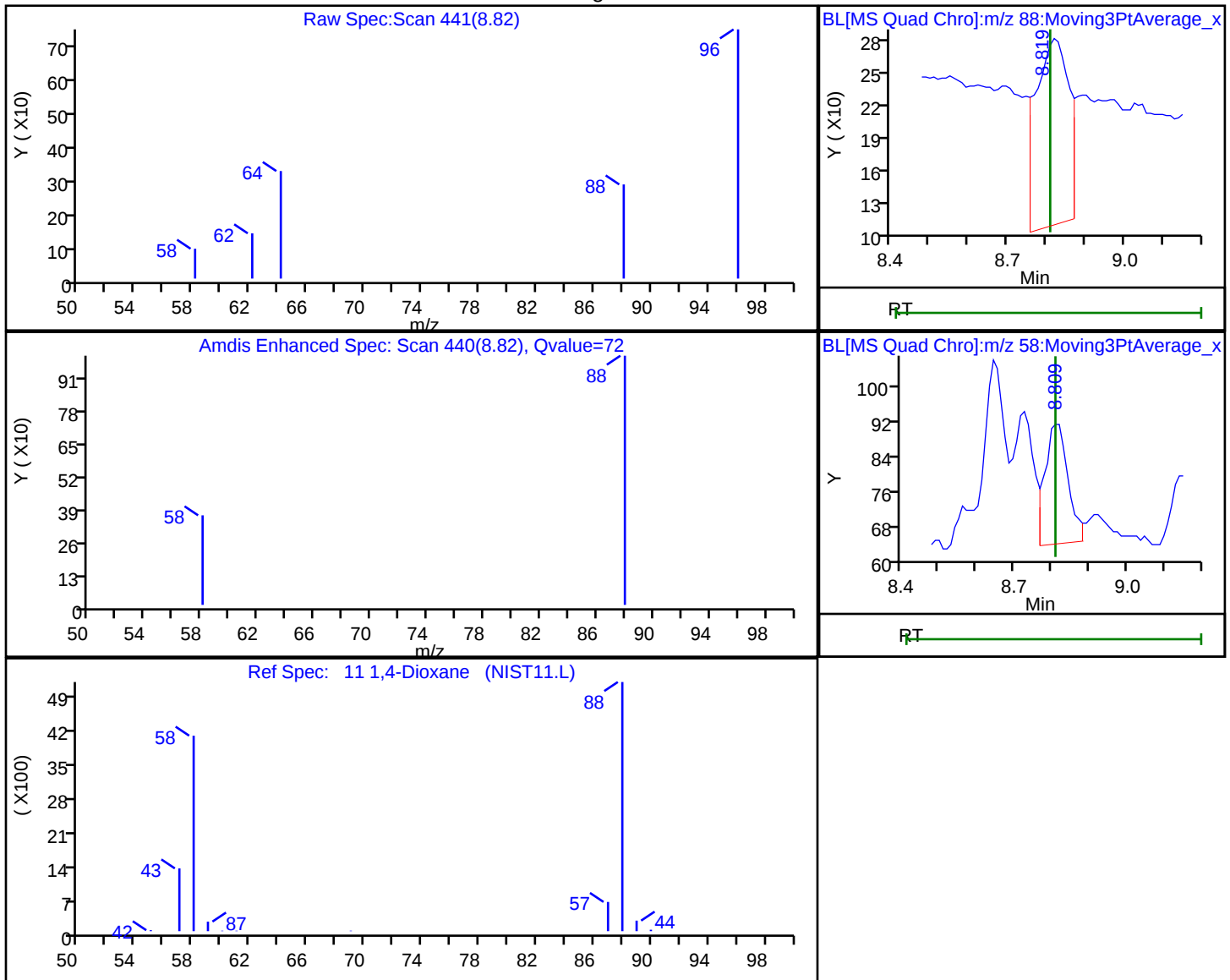
Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	409.2	81.84

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\MBL.D
Injection Date: 06-Jun-2025 16:50:34 Instrument ID: GCMS-FE
Lims ID: MBL 810-147036/1-A
Client ID:
Operator ID: BC ALS Bottle#: 3 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE 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
8.82	88.00	1012	9.674427
8.81	58.00	121	

Reviewer: JH8B, 09-Jun-2025 05:47:25 -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.: 810-150978-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LLCS 810-147036/2-A

Matrix: Drinking Water Lab File ID: LLCS.D

Analysis Method: 522 Date Collected: _____

Extract. Method: 522 Date Extracted: 06/06/2025 08:34

Sample wt/vol: 100 (mL) Date Analyzed: 06/06/2025 17:12

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.: 147156 Units: ug/L

Preparation Batch No.: 147036 Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.0828		0.070	0.062

CAS NO.	SURROGATE	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8 (Surr)	84		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\LLCS.D
 Lims ID: LLCS 810-147036/2-A
 Client ID:
 Sample Type: LLCS
 Inject. Date: 06-Jun-2025 17:12:37 ALS Bottle#: 4 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0037977-003
 Misc. Info.: LLCS 810-146839/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1694

First Level Reviewer: JH8B

Date: 09-Jun-2025 05:47:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.590	6.582	0.008	24	39530	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.746	8.736	0.010	99	47514	500.0	417.8	
11 1,4-Dioxane	88	8.819	8.809	0.010	76	425	3.50	4.14	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\LLCS.D

Injection Date: 06-Jun-2025 17:12:37

Instrument ID: GCMS-FE

Lims ID: LLCS 810-147036/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 3

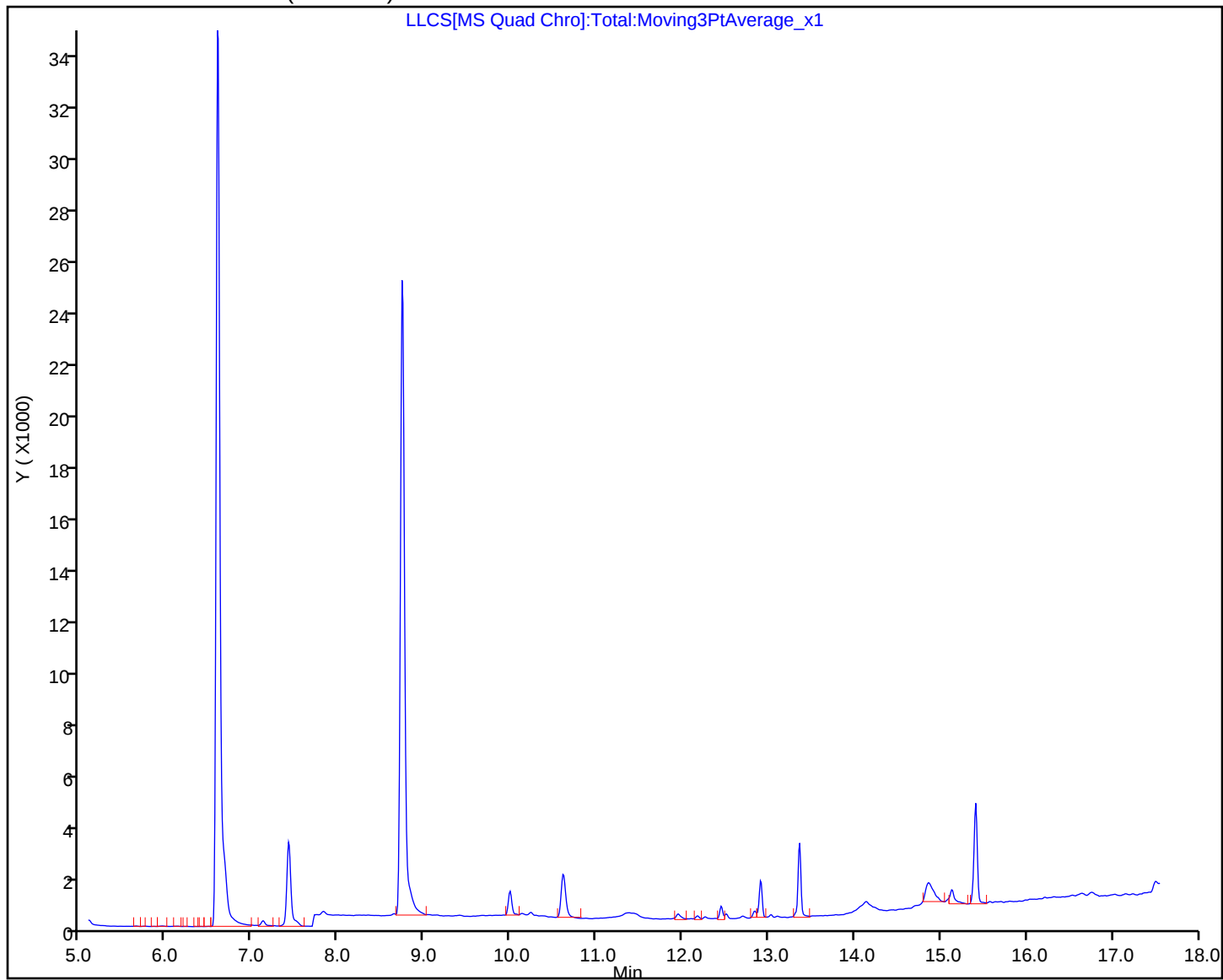
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

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-FE\20250606-37977.b\LLCS.D
Lims ID: LLCS 810-147036/2-A
Client ID:
Sample Type: LLCS
Inject. Date: 06-Jun-2025 17:12:37 ALS Bottle#: 4 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0037977-003
Misc. Info.: LLCS 810-146839/2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 09-Jun-2025 06:19:14 Calib Date: 03-Jun-2025 09:59:17
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250603-37809.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1694

First Level Reviewer: JH8B

Date: 09-Jun-2025 05:47:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	417.8	83.57

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250606-37977.b\LLCS.D

Injection Date: 06-Jun-2025 17:12:37

Instrument ID: GCMS-FE

Lims ID: LLCS 810-147036/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

4

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 522_GCMS-FE

Limit Group: MSS - 522

Column: CP Select 624 MS (0.25 mm)

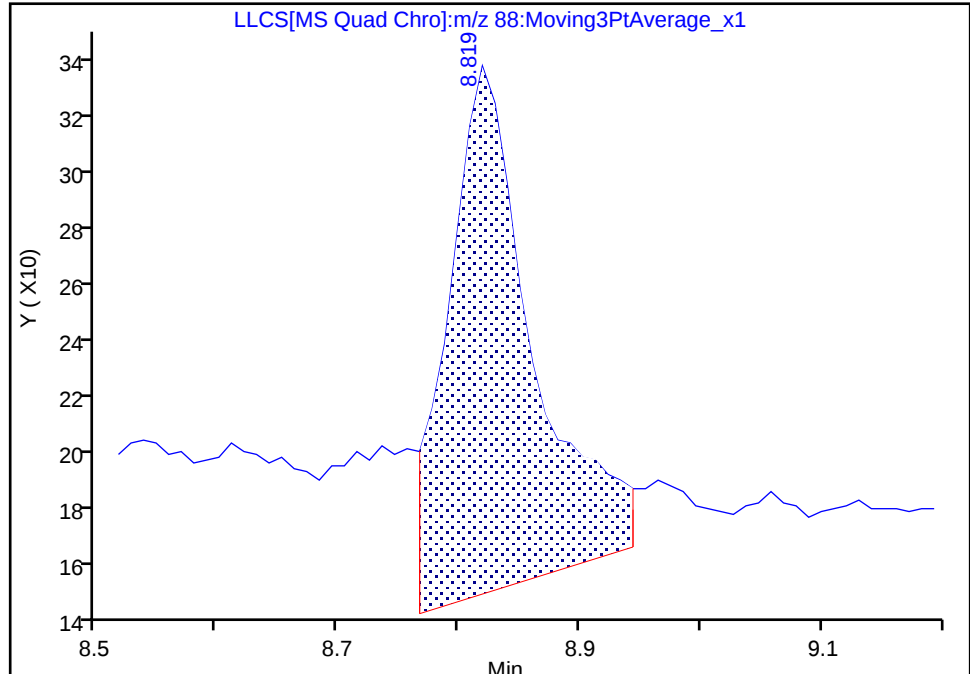
Detector: MS Quad

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

Signal: 1

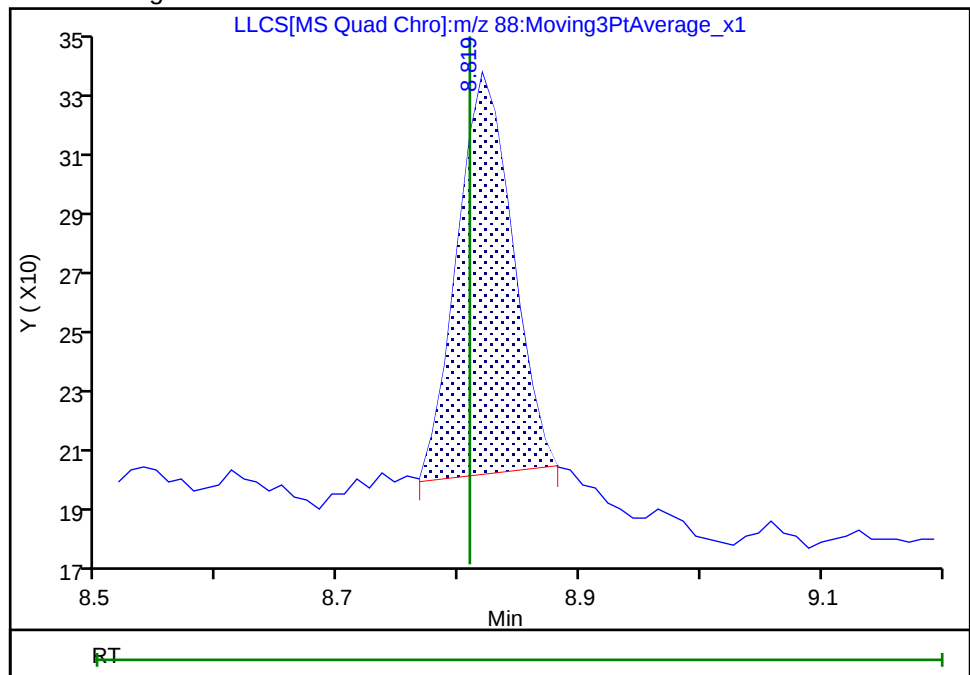
RT: 8.82
Area: 921
Amount: 8.754124
Amount Units: ug/l

Processing Integration Results



RT: 8.82
Area: 425
Amount: 4.138415
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 09-Jun-2025 05:47:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 06/03/2025 06:04

Analysis Batch Number: 146515

End Date: 06/04/2025 01:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 810-146515/2		06/03/2025 06:04	1	BFB 2.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/4-A		06/03/2025 06:18	1	IC 007.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/5-A		06/03/2025 06:40	1	IC 01.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/6-A		06/03/2025 07:02	1	IC 02.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/7-A		06/03/2025 07:24	1	IC 05.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/8-A		06/03/2025 07:46	1	IC 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/9-A		06/03/2025 08:08	1	IC 2.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/10-A		06/03/2025 08:30	1	IC 5.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/11-A		06/03/2025 08:52	1	IC 10.D	CPSelect 624 MS 0.25 (mm)
ICISAV 810-144020/12-A		06/03/2025 09:15	1	IC 20.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/13-A		06/03/2025 09:37	1	IC 50.D	CPSelect 624 MS 0.25 (mm)
IC 810-144020/14-A		06/03/2025 09:59	1	IC100.D	CPSelect 624 MS 0.25 (mm)
ICV 810-144020/15-A		06/03/2025 10:43	1	ICV.D	CPSelect 624 MS 0.25 (mm)
CCVLIS 810-146482/1-A		06/03/2025 11:05	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/03/2025 11:49	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/03/2025 12:11	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 12:33	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 12:55	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 13:17	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 13:39	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 14:01	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 14:23	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 14:45	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 15:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 15:30	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 15:52	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-146482/3-A		06/03/2025 16:14	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 16:36	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 16:58	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 17:20	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 17:42	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 06/03/2025 06:04

Analysis Batch Number: 146515

End Date: 06/04/2025 01:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (Client)		06/03/2025 18:04	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 18:26	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 18:48	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 19:10	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/03/2025 19:32	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/03/2025 19:54	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 20:16	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 20:38	1		CPSelect 624 MS 0.25 (mm)
CCV 810-146482/5-A		06/03/2025 21:00	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 21:22	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 21:44	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 22:06	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 22:28	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 22:50	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 23:12	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 23:34	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/03/2025 23:56	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/04/2025 00:18	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/04/2025 00:40	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-146482/3-A		06/04/2025 01:02	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend

Job No.: 810-150978-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 06/06/2025 16:06

Analysis Batch Number: 147156

End Date: 06/07/2025 02:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVLIS 810-147087/1-A		06/06/2025 16:06	1	CCVLIS.D	CPSelect 624 MS 0.25 (mm)
MBL 810-147036/1-A		06/06/2025 16:50	1	MBL.D	CPSelect 624 MS 0.25 (mm)
LLCS 810-147036/2-A		06/06/2025 17:12	1	LLCS.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 17:34	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 17:56	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 18:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 18:41	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 19:03	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 19:25	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 19:47	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 20:09	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 20:32	1		CPSelect 624 MS 0.25 (mm)
810-150978-1	VBP182-HYD-20250530	06/06/2025 20:54	1	810-150978-A-1-A.D	CPSelect 624 MS 0.25 (mm)
CCVIS 810-147087/2-A		06/06/2025 21:16	1	CCVM.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 21:38	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 22:00	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 22:23	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 22:45	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 23:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 23:29	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/06/2025 23:51	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/07/2025 00:13	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		06/07/2025 00:35	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/07/2025 00:57	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/07/2025 01:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		06/07/2025 01:41	1		CPSelect 624 MS 0.25 (mm)
CCV 810-147087/3-A		06/07/2025 02:03	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-150978-1

SDG No.: _____

Batch Number: 144020 Batch Start Date: 05/14/25 12:08 Batch Analyst: Piaskowski, MatthewBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00237	522-Sur-SS 00135	O-522 CalM 00017	O-522-CalH 00019
IC 810-144020/4		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-144020/5		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-144020/6		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-144020/7		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
IC 810-144020/8		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
IC 810-144020/9		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
IC 810-144020/10		522, 522			2 mL	2 mL	10 uL	10 uL		5 uL
IC 810-144020/11		522, 522			2 mL	2 mL	10 uL	10 uL		10 uL
ICISAV 810-144020/12		522, 522			2 mL	2 mL	10 uL	10 uL		20 uL
IC 810-144020/13		522, 522			2 mL	2 mL	10 uL	10 uL		50 uL
IC 810-144020/14		522, 522			2 mL	2 mL	10 uL	10 uL		100 uL
ICV 810-144020/15		522, 522			2 mL	2 mL	10 uL	10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522-QCS-Sub 00010	O522-CalL 00023				
IC 810-144020/4		522, 522				7 uL				
IC 810-144020/5		522, 522				10 uL				
IC 810-144020/6		522, 522				20 uL				
IC 810-144020/7		522, 522								
IC 810-144020/8		522, 522								
IC 810-144020/9		522, 522								
IC 810-144020/10		522, 522								
IC 810-144020/11		522, 522								
ICISAV 810-144020/12		522, 522								
IC 810-144020/13		522, 522								
IC 810-144020/14		522, 522								

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.: 810-150978-1

SDG No.: _____

Batch Number: 144020 Batch Start Date: 05/14/25 12:08 Batch Analyst: Piaskowski, MatthewBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O-522-QCS-Sub 00010	O522-CalL 00023				
ICV 810-144020/15		522, 522			20 uL					

Batch Notes	
MeCL2 ID	1937370
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.: 810-150978-1

SDG No.: _____

Batch Number: 146515 Batch Start Date: 06/03/25 06:04 Batch Analyst: Orpurt, KylaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	O-522BFBSUB 00021				
BFB 810-146515/2		522			2 mL	1 mL				
IC 810-144020/4-A		522			2 mL					
IC 810-144020/5-A		522			2 mL					
IC 810-144020/6-A		522			2 mL					
IC 810-144020/7-A		522			2 mL					
IC 810-144020/8-A		522			2 mL					
IC 810-144020/9-A		522			2 mL					
IC 810-144020/10-A		522			2 mL					
IC 810-144020/11-A		522			2 mL					
ICISAV 810-144020/12-A		522			2 mL					
IC 810-144020/13-A		522			2 mL					
IC 810-144020/14-A		522			2 mL					
ICV 810-144020/15-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.: 810-150978-1

SDG No.: _____

Batch Number: 147036 Batch Start Date: 06/06/25 08:34 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	522 IS SS 00241	522-Sur-SS 00138
MBL 810-147036/1		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LLCS 810-147036/2		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-150978-A-1	VBP182-HYD-2025 0530	522, 522	aking W	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	0522-CalL 00024	AnalysisCommen t				
MBL 810-147036/1		522, 522				X1				
LLCS 810-147036/2		522, 522			7 uL	X2				
810-150978-A-1	VBP182-HYD-2025 0530	522, 522	aking W	T		X2				

Batch Notes	
MeCL2 ID	1951793
Methanol ID	1971431
SPE Cartridge Lot ID	1874588
Sodium Sulfite ID	1456825
Na2SO4 ID	1947872
Sodium Bisulfate ID	660717
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.: 810-150978-1

SDG No.: _____

Batch Number: 147087 Batch Start Date: 06/06/25 12:46 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	522 IS SS 00241	522-Sur-SS 00138	O-522-CalH 00020	O522-CalL 00024
CCVLIS 810-147087/1		522, 522			2 mL	2 mL	10 uL	10 uL		7 uL
CCVIS 810-147087/2		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	

Batch Notes	
MeCL2 ID	1951793
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



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



810-150978 Chain of Custody

CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY :	Eurofins Eaton Analytical South Bend	ORDER ID :	Q2187	BILL TO:	CHEMTECH PO# : q2187
ADDRESS :	110 South Bend	PROJECT ID:	NWIRP Bethpage 112G08005-WE13	ADDRESS :	284, Sheffield Street
CITY:	South Bend State :IN ZIP :46617	PROJECT MANAGER	YAZMEEN	CITY:	Mountainside State : NJ ZIP : 07092
E-mail :	Nathan.Trowbridge@et.eurofinsus.	E-mail :	yazmeen.gomez@alliancetg.com	ATTENTION :	YAZMEE
PHONE :	574-233-4777	PHONE :	(908) 789 8900	FAX :	(908) 789 8922

Comment :

Report : Level 4

EDD : ADAPT

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
01	VBP182-HYD-20250530	Water	Wet Chem Group1	um thiosulfate(Na2S2	Cal	DATE	TIME	2	10
						05/30/2025	13:00:00		

Initial Temp: 19.0
Corrected Temp: 17.6 blue
IR Gun # 31

Ambient

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER:	DATETIME:	RECEIVED BY:	Conditions of bottles or Coolers at receipt:		
1.	6/3/25	1.	☐ Compliant	☐ Non Compliant	Cooler Temp
RELINQUISHED BY:	DATETIME:	RECEIVED BY:	Ice or Cooler?		
2.	06/04/2025	2. Peyton De			
RELINQUISHED BY:	DATETIME:	RECEIVED BY:	Shipment Complete:		
3.	09/9/25	3.	☐ OVERNIGHT	☐ OVERNIGHT	☐ YES ☐ NO

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-150978-1

Login Number: 150978

List Number: 1

Creator: Trowbridge, Peyton

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	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	