



ANALYTICAL REPORT

PREPARED FOR

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Chemtech Consulting Group Inc.
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Mountainside NJ 07092

Generated 10/1/2025 8:18 AM

JOB DESCRIPTION

1,4 Dioxane

JOB NUMBER

810-165116-1

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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Definitions/Glossary

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

Job ID: 810-165116-1

Glossary

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

Job Narrative
810-165116-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 9/24/2025 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS Semi VOA

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

Detection Summary

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

Job ID: 810-165116-1

Client Sample ID: VPB184-HYD-20250919

Lab Sample ID: 810-165116-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.14		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: 810-165116-1

Client Sample ID: VPB184-HYD-20250919

Lab Sample ID: 810-165116-1

Date Collected: 09/19/25 13:15

Matrix: Drinking Water

Date Received: 09/24/25 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.14		0.070	0.062	ug/L		09/26/25 09:14	09/26/25 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				09/26/25 09:14	09/26/25 22:36	1

Default Detection Limits

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

Job ID: 810-165116-1

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: 810-165116-1

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)							
810-165116-1	VPB184-HYD-20250919	90							
LLCS 810-162040/2-A	Lab Control Sample	90							
MBL 810-162040/1-A	Method Blank	100							

Surrogate Legend

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

QC Sample Results

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

Job ID: 810-165116-1

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

Lab Sample ID: MBL 810-162040/1-A
Matrix: Drinking Water
Analysis Batch: 162117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162040

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.062		0.070	0.062	ug/L		09/26/25 09:14	09/26/25 21:31	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130				09/26/25 09:14	09/26/25 21:31	1

Lab Sample ID: LLCS 810-162040/2-A
Matrix: Drinking Water
Analysis Batch: 162117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162040

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	0.0700	0.0960		ug/L		137	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	90		70 - 130				

QC Association Summary

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

Job ID: 810-165116-1

GC/MS Semi VOA

Prep Batch: 162040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165116-1	VPB184-HYD-20250919	Total/NA	Drinking Water	522	
MBL 810-162040/1-A	Method Blank	Total/NA	Drinking Water	522	
LLCS 810-162040/2-A	Lab Control Sample	Total/NA	Drinking Water	522	

Analysis Batch: 162117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-165116-1	VPB184-HYD-20250919	Total/NA	Drinking Water	522	162040
MBL 810-162040/1-A	Method Blank	Total/NA	Drinking Water	522	162040
LLCS 810-162040/2-A	Lab Control Sample	Total/NA	Drinking Water	522	162040

Lab Chronicle

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

Job ID: 810-165116-1

Client Sample ID: VPB184-HYD-20250919
Date Collected: 09/19/25 13:15
Date Received: 09/24/25 09:30

Lab Sample ID: 810-165116-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	522			162040	BAB	EA SB	09/26/25 09:14
Total/NA	Analysis	522		1	162117	KO	EA SB	09/26/25 22:36

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: 810-165116-1

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	06-30-26
Alaska	State	IN00035	06-30-26
Arizona	State	AZ0432	07-26-26
Arkansas (DW)	State	EPA IN00035	06-30-26
California	State	2920	06-30-26
Colorado	State	IN00035	02-28-26
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-26
Florida	NELAP	E87775	06-30-26
Georgia (DW)	State	929	06-30-26
Guam	State	24-012R	07-15-26
Hawaii	State	IN035	06-30-26
Idaho (DW)	State	IN00035	12-31-25
IL Dept. of Public Health (Micro)	State	17767	06-30-26
Illinois	NELAP	200001	09-30-26
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	06-30-26
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-26
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26
Nebraska	State	NE-OS-05-04	06-30-26
Nevada	State	NV-C24-00276	07-31-26
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-26
New Mexico	State	IN00035	06-30-26
New York	NELAP	11398	04-01-26

Accreditation/Certification Summary

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

Job ID: 810-165116-1

Laboratory: Eurofins Eaton Analytical South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	18700	07-31-26
North Dakota	State	R-035	06-30-26
Northern Mariana Islands (DW)	State	IN00035	06-30-26
Ohio	State	87775	06-30-26
Oklahoma	NELAP	D9508	12-31-25
Oregon	NELAP	4156	09-16-26
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-31-25
South Carolina	State	95005001	06-30-26
South Dakota (DW)	State	IN00035	12-31-25
Tennessee	State	TN02973	06-30-26
Texas	NELAP	T104704187	12-31-25
Texas	TCEQ Water Supply	TX207	06-30-26
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-26
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	08-31-26
Wisconsin (Micro)	State	10121	12-31-25
Wyoming	State	8TMS-L	06-30-26

Method Summary

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

Job ID: 810-165116-1

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: 810-165116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-165116-1	VPB184-HYD-20250919	Drinking Water	09/19/25 13:15	09/24/25 09:30	New Jersey

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-165116-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 162117Lab Sample ID: IC 810-161845/4-A

Client Sample ID: _____

Date Analyzed: 09/26/25 16:05Lab File ID: IC 007.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.71	Baseline	JH8B	09/29/25 08:19

Lab Sample ID: IC 810-161845/5-A

Client Sample ID: _____

Date Analyzed: 09/26/25 16:26Lab File ID: IC 01.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:19

Lab Sample ID: IC 810-161845/6-A

Client Sample ID: _____

Date Analyzed: 09/26/25 16:48Lab File ID: IC 02.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:19

Lab Sample ID: IC 810-161845/7-A

Client Sample ID: _____

Date Analyzed: 09/26/25 17:10Lab File ID: IC 05.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:19

Lab Sample ID: IC 810-161845/8-A

Client Sample ID: _____

Date Analyzed: 09/26/25 17:31Lab File ID: IC 1.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-165116-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 162117Lab Sample ID: IC 810-161845/9-A

Client Sample ID: _____

Date Analyzed: 09/26/25 17:53Lab File ID: IC 2.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:20

Lab Sample ID: ICISAV 810-161845/10-A

Client Sample ID: _____

Date Analyzed: 09/26/25 18:15Lab File ID: IC 5.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:20

Lab Sample ID: IC 810-161845/11-A

Client Sample ID: _____

Date Analyzed: 09/26/25 18:37Lab File ID: IC 10.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:20

Lab Sample ID: IC 810-161845/12-A

Client Sample ID: _____

Date Analyzed: 09/26/25 18:58Lab File ID: IC 20.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.71	Baseline	JH8B	09/29/25 08:21

Lab Sample ID: IC 810-161845/13-A

Client Sample ID: _____

Date Analyzed: 09/26/25 19:20Lab File ID: IC 50.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.70	Baseline	JH8B	09/29/25 08:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-165116-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 162117Lab Sample ID: IC 810-161845/14-A

Client Sample ID: _____

Date Analyzed: 09/26/25 19:42Lab File ID: IC100.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.71	Baseline	JH8B	09/29/25 08:21

Lab Sample ID: ICV 810-161845/15-A

Client Sample ID: _____

Date Analyzed: 09/26/25 20:25Lab File ID: ICV.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:21

Lab Sample ID: CCVLIS 810-162098/1-A

Client Sample ID: _____

Date Analyzed: 09/26/25 20:47Lab File ID: CCVL.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:21

Lab Sample ID: MBL 810-162040/1-A

Client Sample ID: _____

Date Analyzed: 09/26/25 21:31Lab 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	09/30/25 08:07

Lab Sample ID: LLCS 810-162040/2-A

Client Sample ID: _____

Date Analyzed: 09/26/25 21:52Lab File ID: LLCS.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.73	Baseline	JH8B	09/29/25 08:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Eaton Analytical South BendJob No.: 810-165116-1

SDG No.: _____

Instrument ID: GCMS-FEAnalysis Batch Number: 162117Lab Sample ID: 810-165116-1Client Sample ID: VPB184-HYD-20250919Date Analyzed: 09/26/25 22:36Lab File ID: 810-165116-A-1-A.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:23

Lab Sample ID: CCVIS 810-162098/2-A

Client Sample ID: _____

Date Analyzed: 09/27/25 01:51Lab File ID: CCVM.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.72	Baseline	JH8B	09/29/25 08:26

Lab Sample ID: CCV 810-162098/3-A

Client Sample ID: _____

Date Analyzed: 09/27/25 06:33Lab File ID: CCVH.DGC Column: CPSelect 624 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.71	Baseline	JH8B	09/29/25 08:31

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
522 IS SS 00259	10/10/25	09/25/25	MeCl2, Lot EJ007-US	2 mL	522-IS-Stock_00012	200 uL	Tetrahydrofuran-d8	100 ug/mL
.522-IS-Stock_00012	05/14/30		Absolute Standards Inc., Lot 051425		(Purchased Reagent)		Tetrahydrofuran-d8	1000 ug/mL
522-Sur-SS_00152	03/17/26	09/17/25	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00024	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00024	12/31/26	09/17/25		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_00154	03/25/26	09/25/25	Methanol, Lot 24G0262002	2 mL	522-SUR-Stock_00024	100 uL	1,4-Dioxane-d8 (Surr)	100 ug/mL
.522-SUR-Stock_00024	12/31/26	09/17/25		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-CalH_00026	01/31/26	09/06/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
.522 AnalyteST_00004	05/31/26	06/17/25	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_00012	03/02/26	09/02/25	Methanol, Lot 24G0262002	2 mL	522-QCS_00007	200 uL	1,4-Dioxane	100 ug/mL
.522-QCS_00007	10/21/32	07/29/25	Methanol, Lot NA	1 mL	522-QCS_00003	1 mL	1,4-Dioxane	1000 ug/mL
..522-QCS_00003	10/21/32		AccuStandard, Lot 222101299		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
O-522BFBSub_00027	12/02/25	09/02/25	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-CalL_00026	01/31/26	08/29/25	Methanol, Lot 23I0762004	2 mL	O-522-CalH_00024	20 uL	1,4-Dioxane	1 ug/mL
.O-522-CalH_00024	01/31/26	08/18/25	Methanol, Lot 23I0762004	2 mL	522 AnalyteST_00004	100 uL	1,4-Dioxane	100 ug/mL
..522 AnalyteST_00004	05/31/26	06/17/25	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	2,019.2 µg/mL	+/- 11.8498	µg/mL	Gravimetric	
	CAS # 123-91-1 (Lot SHBM5092)		+/- 43.2613	µg/mL	Unstressed	
	Purity 99%		+/- 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:

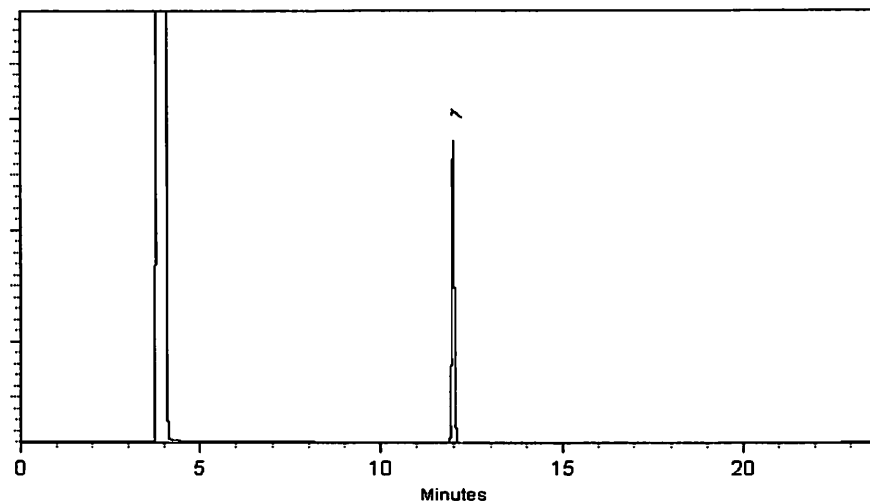
200°C

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-QCS_00003



CERTIFICATE OF ANALYSIS

Catalog No: APP-9-096-10X

Description: p-Dioxane

Lot: 222101299

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Oct 21, 2022

Expiration: Oct 21, 2032

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



Component	CAS #	Purity ³ %	Prepared Concentration ² (µg/mL)	Certified Analyte Concentration ¹ (µg/mL)
p-Dioxane	123-91-1	100.0	1005	1005

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

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

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

² All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

³ Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(TV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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:

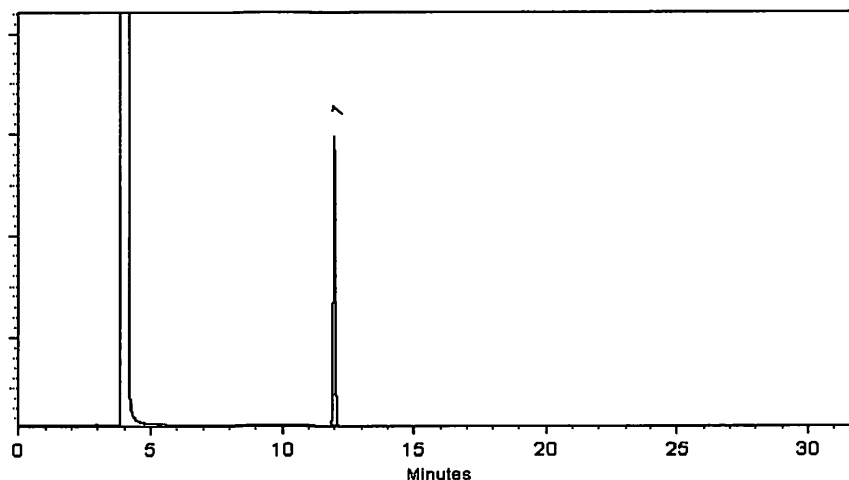
FID

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

C. 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:

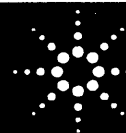
- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability 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/NCSS 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.

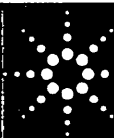
Intended Use:

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



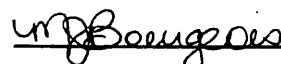
Agilent

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.: 810-165116-1

SDG No.: _____

Matrix: Drinking Water Level: Low

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

Client Sample ID	Lab Sample ID	DXE #
VPB184-HYD-20250919	810-165116-1	90
	LLCS 810-162040/2-A	90
	MBL 810-162040/1-A	100

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.: 810-165116-1
Bend

SDG No.:

Matrix: Drinking Water Level: Low Lab File ID: LLC.S.D

Lab ID: LLC.S 810-162040/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.0700	0.0960	137	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.: 810-165116-1
SDG No.:
Lab File ID: MBL.D
Lab Sample ID: MBL 810-162040/1-A
Matrix: Drinking Water
Date Extracted: 09/26/2025 09:14
Instrument ID: GCMS-FE
Date Analyzed: 09/26/2025 21:31
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LLCS 810-162040/2-A	LLCS.D	09/26/2025 21:52
VPB184-HYD-20250919	810-165116-1	810-165116-A-1-A.D	09/26/2025 22:36

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1

SDG No.:

Lab File ID: BFB 1.D BFB Injection Date: 09/26/2025

Instrument ID: GCMS-FE BFB Injection Time: 15:17

Analysis Batch No.: 162117

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	27.6
75	30.0 - 80.0 % of mass 95	60.6
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	1.1 (1.4) 1
174	>50.0 % of mass 95	75.1
175	5.0 - 9.0 % of mass 174	5.7 (7.6) 1
176	>95.0 but <101.0 % of mass 174	73.1 (97.2) 1
177	5.0 - 9.0 % of mass 176	4.4 (6.0) 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 810-161845/4-A	IC 007.D	09/26/2025	16:05
	IC 810-161845/5-A	IC 01.D	09/26/2025	16:26
	IC 810-161845/6-A	IC 02.D	09/26/2025	16:48
	IC 810-161845/7-A	IC 05.D	09/26/2025	17:10
	IC 810-161845/8-A	IC 1.D	09/26/2025	17:31
	IC 810-161845/9-A	IC 2.D	09/26/2025	17:53
	ICISAV 810-161845/10-A	IC 5.D	09/26/2025	18:15
	IC 810-161845/11-A	IC 10.D	09/26/2025	18:37
	IC 810-161845/12-A	IC 20.D	09/26/2025	18:58
	IC 810-161845/13-A	IC 50.D	09/26/2025	19:20
	IC 810-161845/14-A	IC100.D	09/26/2025	19:42
	ICV 810-161845/15-A	ICV.D	09/26/2025	20:25
	CCVLIS 810-162098/1-A	CCVL.D	09/26/2025	20:47
	MBL 810-162040/1-A	MBL.D	09/26/2025	21:31
	LLCS 810-162040/2-A	LLCS.D	09/26/2025	21:52
VPB184-HYD-20250919	810-165116-1	810-165116-A-	09/26/2025	22:36
	CCVIS 810-162098/2-A	CCVM.D	09/27/2025	1:51
	CCV 810-162098/3-A	CCVH.D	09/27/2025	6:33

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1
 SDG No.: _____
 Instrument ID: GCMS-FE Calibration Start Date: 09/26/2025 16:05
 GC Column: CPSelect 624 MS ID: 0.25 (mm) Calibration End Date: 09/26/2025 19:42
 Calibration ID: 17691

	THFd8					
	AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT	63658	6.49				
UPPER LIMIT	95487	6.99				
LOWER LIMIT	31829	5.99				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 810-161845/15-A		61591	6.50			
CCVLIS 810-162098/1-A		60626	6.50			
MBL 810-162040/1-A		55633	6.50			
LLCS 810-162040/2-A		59213	6.49			
810-165116-1	VPB184-HYD-20250919	63981	6.50			
CCVIS 810-162098/2-A		61548	6.49			
CCV 810-162098/3-A		63436	6.49			

THFd8 = Tetrahydrofuran-d8

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1
SDG No.: _____
Sample No.: CCVLIS 810-162098/1-A Date Analyzed: 09/26/2025 20:47
Instrument ID: GCMS-FE GC Column: CPSelect 624 MS ID: 0.25 (mm)
Lab File ID (Standard): CCVL.D Heated Purge: (Y/N) N
Calibration ID: 17691

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
Low Level 12/24 HOUR STD		60626	6.50				
UPPER LIMIT		78814	7.00				
LOWER LIMIT		42438	6.00				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MBL 810-162040/1-A		55633	6.50				
LLCS 810-162040/2-A		59213	6.49				
810-165116-1	VPB184-HYD-20250919	63981	6.50				
CCVIS 810-162098/2-A		61548	6.49				

THFd8 = Tetrahydrofuran-d8

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1
SDG No.: _____
Sample No.: CCVIS 810-162098/2-A Date Analyzed: 09/27/2025 01:51
Instrument ID: GCMS-FE GC Column: CPSelect 624 MS ID: 0.25 (mm)
Lab File ID (Standard): CCVM.D Heated Purge: (Y/N) N
Calibration ID: 17691

		THFd8					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		61548	6.49				
UPPER LIMIT		80012	6.99				
LOWER LIMIT		43084	5.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 810-162098/3-A		63436	6.49				

THFd8 = Tetrahydrofuran-d8

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

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Eaton Analytical South <u>Bend</u>	Job No.: <u>810-165116-1</u>
SDG No.: _____	
Client Sample ID: <u>VPB184-HYD-20250919</u>	Lab Sample ID: <u>810-165116-1</u>
Matrix: <u>Drinking Water</u>	Lab File ID: <u>810-165116-A-1-A.D</u>
Analysis Method: <u>522</u>	Date Collected: <u>09/19/2025 13:15</u>
Extract. Method: <u>522</u>	Date Extracted: <u>09/26/2025 09:14</u>
Sample wt/vol: <u>100 (mL)</u>	Date Analyzed: <u>09/26/2025 22:36</u>
Con. Extract Vol.: <u>2 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CPSelect 624 MS ID: 0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>162117</u>	Units: <u>ug/L</u>
Preparation Batch No.: <u>162040</u>	Instrument ID: <u>GCMS-FE</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.14		0.070	0.062

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

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\810-165116-A-1-A.D
 Lims ID: 810-165116-A-1-A
 Client ID: VPB184-HYD-20250919
 Sample Type: Client
 Inject. Date: 26-Sep-2025 22:36:06 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-019
 Misc. Info.: 810-165116-A-1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:59 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:23:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 5 Tetrahydrofuran-d8	46	6.495	6.488	0.007	26	63981	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.642	8.643	-0.001	96	39339	451.5	
11 1,4-Dioxane	88	8.715	8.715	0.000	80	590	7.16	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:32:02

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\810-165116-A-1-A.D

Injection Date: 26-Sep-2025 22:36:06

Instrument ID: GCMS-FE

Lims ID: 810-165116-A-1-A

Lab Sample ID: 810-165116-1

Client ID: VPB184-HYD-20250919

Operator ID: BC

ALS Bottle#: 19

Worklist Smp#: 19

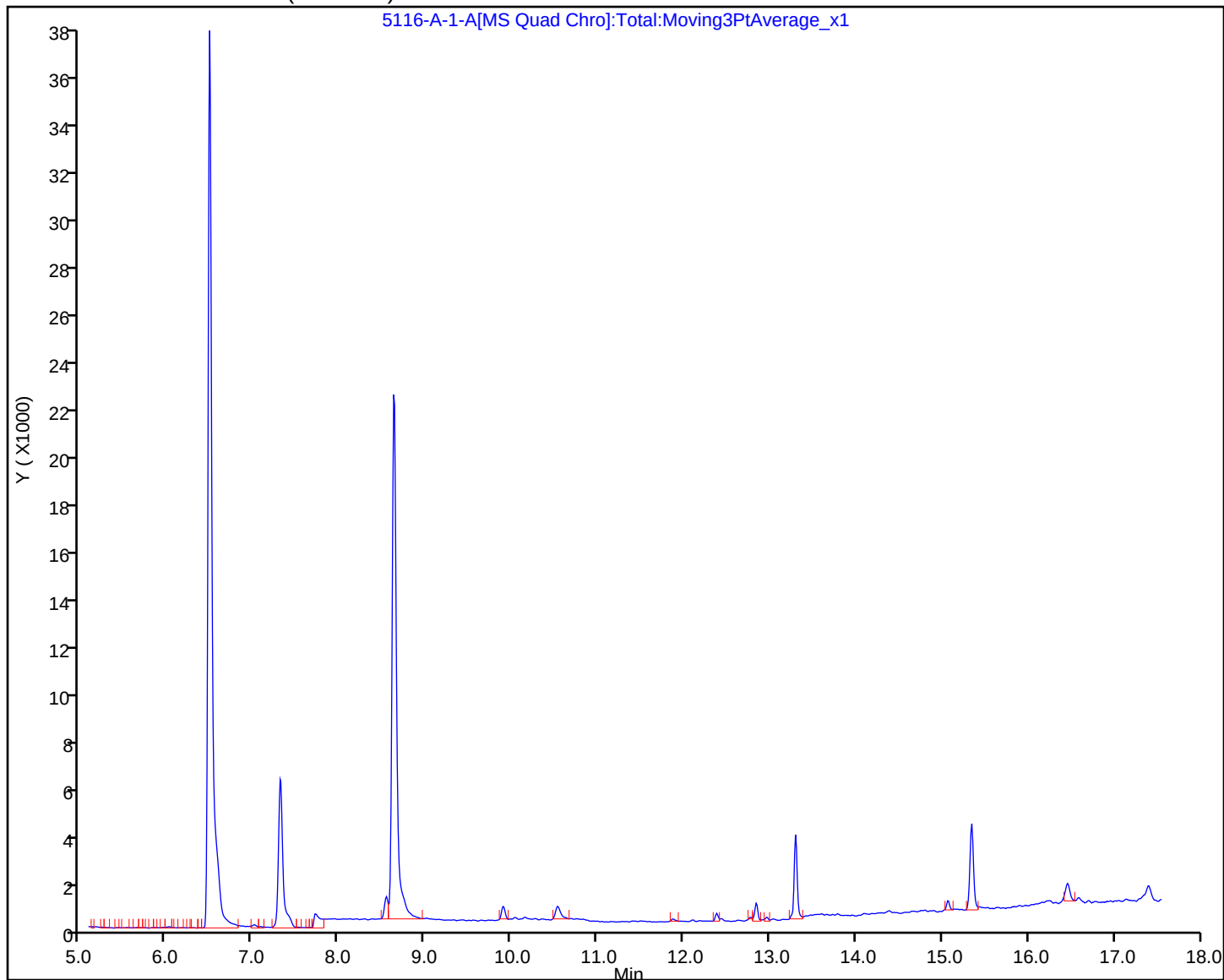
Injection Vol: 1.0 ul

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\20250926-41908.b\810-165116-A-1-A.D
Lims ID: 810-165116-A-1-A
Client ID: VPB184-HYD-20250919
Sample Type: Client
Inject. Date: 26-Sep-2025 22:36:06 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0041908-019
Misc. Info.: 810-165116-A-1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 29-Sep-2025 08:31:59 Calib Date: 26-Sep-2025 19:42:21
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:23:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	451.5	90.30

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\810-165116-A-1-A.D

Injection Date: 26-Sep-2025 22:36:06

Instrument ID: GCMS-FE

Lims ID: 810-165116-A-1-A

Lab Sample ID: 810-165116-1

Client ID: VPB184-HYD-20250919

Operator ID: BC

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 ul

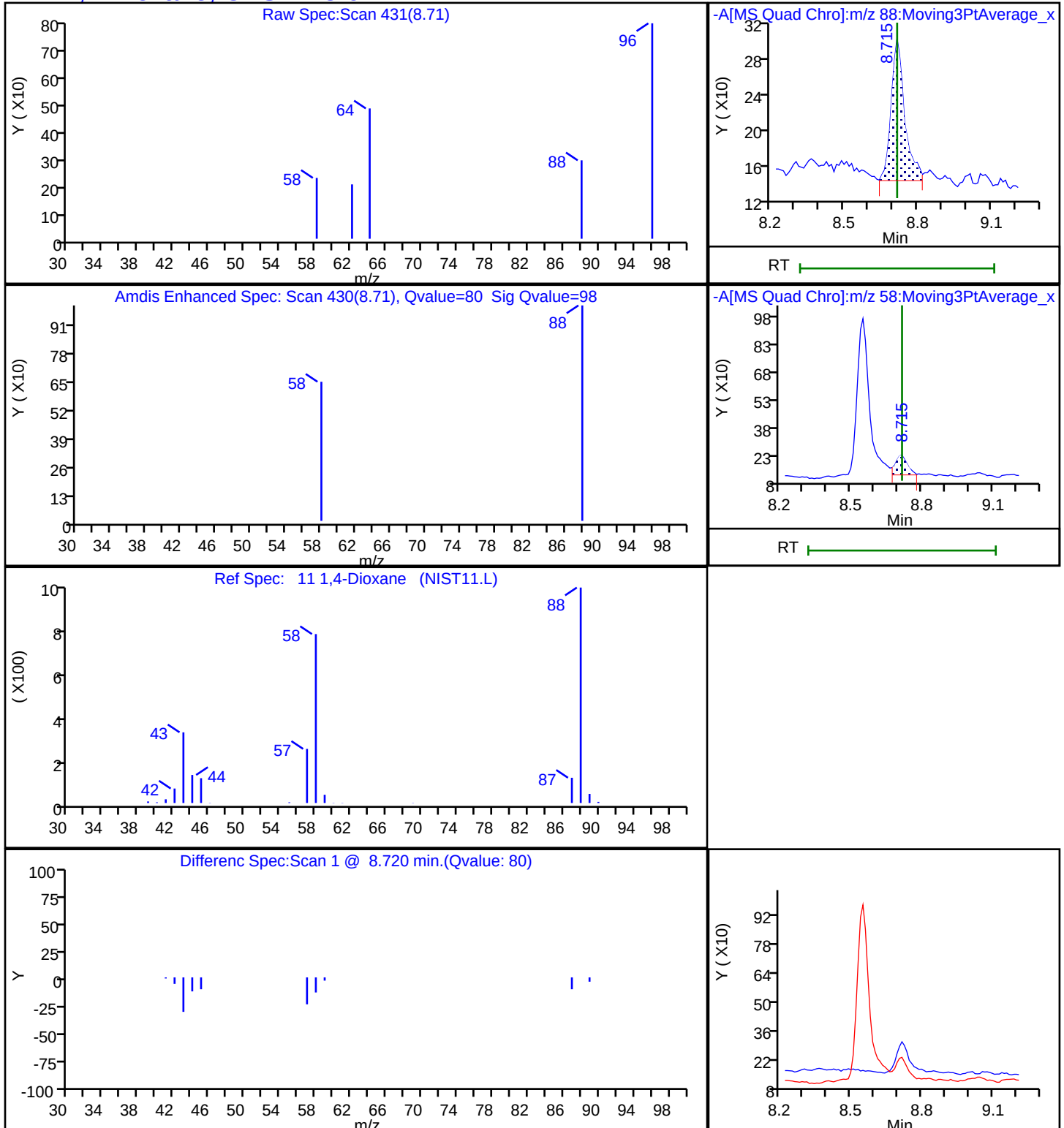
Dil. Factor: 1.0000

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

Eurofins Eaton Analytical South Bend

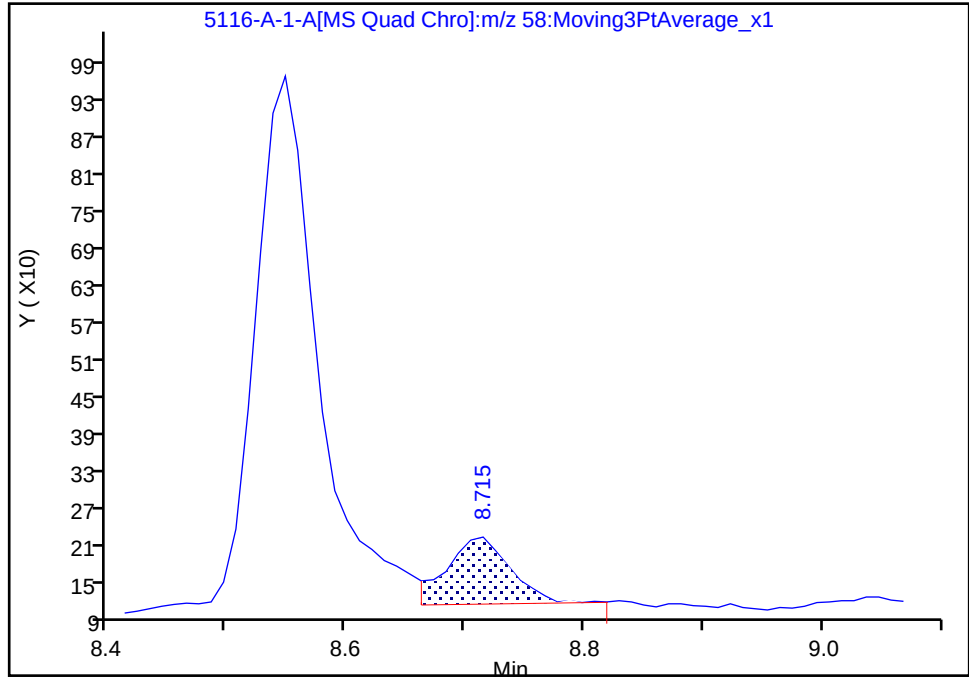
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\810-165116-A-1-A.D
Injection Date: 26-Sep-2025 22:36:06 Instrument ID: GCMS-FE
Lims ID: 810-165116-A-1-A Lab Sample ID: 810-165116-1
Client ID: VPB184-HYD-20250919
Operator ID: BC ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul 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

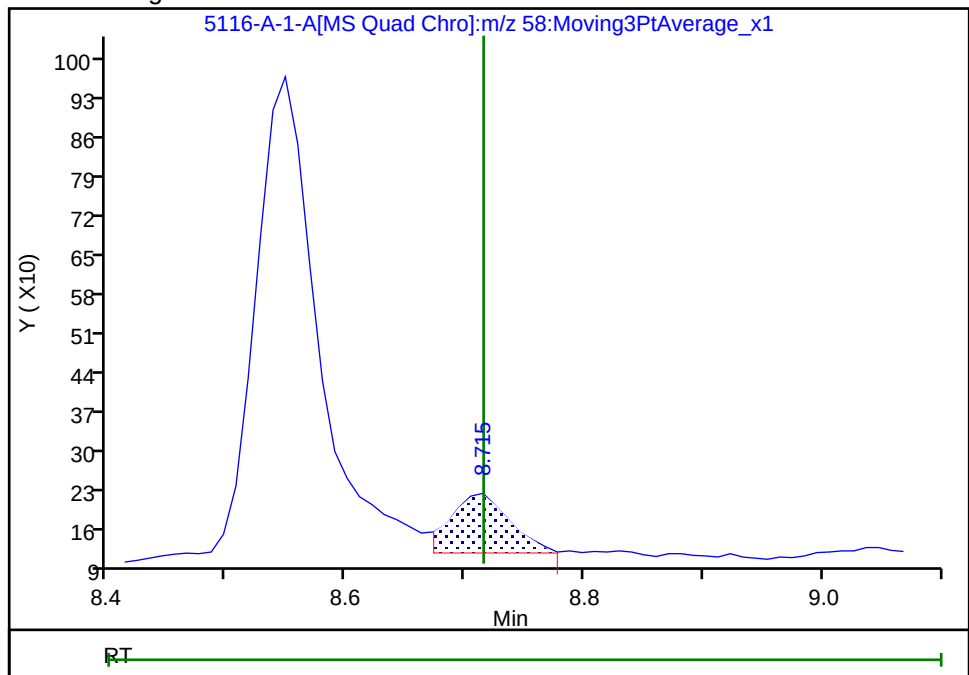
RT: 8.71
Area: 403
Amount: 6.735106
Amount Units: ug/l

Processing Integration Results



RT: 8.71
Area: 364
Amount: 7.164231
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:23:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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

Lab Name: Eurofins Eaton Analytical South Job No.: 810-165116-1 Analy Batch No.: 162117
Bend

SDG No.:

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

Calibration Start Date: 09/26/2025 16:05 Calibration End Date: 09/26/2025 19:42 Calibration ID: 17691

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC 007.D
Level 2	IC 810-161845/5-A	IC 01.D
Level 3	IC 810-161845/6-A	IC 02.D
Level 4	IC 810-161845/7-A	IC 05.D
Level 5	IC 810-161845/8-A	IC 1.D
Level 6	IC 810-161845/9-A	IC 2.D
Level 7	ICISAV 810-161845/10-A	IC 5.D
Level 8	IC 810-161845/11-A	IC 10.D
Level 9	IC 810-161845/12-A	IC 20.D
Level 10	IC 810-161845/13-A	IC 50.D
Level 11	IC 810-161845/14-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	0.7557 0.6650 0.7313	0.7204 0.6138	0.6490 0.7329	0.6387 0.7001	0.6556 0.7472	Lin1	-0.60 8	0.728 4				12.8					
1,4-Dioxane-d8 (Surr)	0.7174 0.6866 0.6668	0.6929 0.6144	0.6922 0.6782	0.6804 0.6713	0.6736 0.7160	Ave		0.680 9				4.1		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.: 810-165116-1 Analy Batch No.: 162117

SDG No.: _____

Instrument ID: GCMS-FE GC Column: CPSelect 6 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2025 16:05 Calibration End Date: 09/26/2025 19:42 Calibration ID: 17691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC 007.D
Level 2	IC 810-161845/5-A	IC 01.D
Level 3	IC 810-161845/6-A	IC 02.D
Level 4	IC 810-161845/7-A	IC 05.D
Level 5	IC 810-161845/8-A	IC 1.D
Level 6	IC 810-161845/9-A	IC 2.D
Level 7	ICISAV 810-161845/10-A	IC 5.D
Level 8	IC 810-161845/11-A	IC 10.D
Level 9	IC 810-161845/12-A	IC 20.D
Level 10	IC 810-161845/13-A	IC 50.D
Level 11	IC 810-161845/14-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	320 8678 484858	463 18325	798 46473	2144 89379	4361 230988	3.50 100 5000	5.00 250	10.0 500	25.0 1000	50.0 2500
1,4-Dioxane-d8 (Surr)	THFd8	Ave	43395 44797 44212	44532 36688	42556 43002	45677 42853	44812 44268	500 500 500	500 500	500 500	500 500	500 500

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1 Analy Batch No.: 162117

SDG No.: _____

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

Calibration Start Date: 09/26/2025 16:05 Calibration End Date: 09/26/2025 19:42 Calibration ID: 17691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 810-161845/4-A	IC 007.D
Level 2	IC 810-161845/5-A	IC 01.D
Level 3	IC 810-161845/6-A	IC 02.D
Level 4	IC 810-161845/7-A	IC 05.D
Level 5	IC 810-161845/8-A	IC 1.D
Level 6	IC 810-161845/9-A	IC 2.D
Level 7	ICISAV 810-161845/10-A	IC 5.D
Level 8	IC 810-161845/11-A	IC 10.D
Level 9	IC 810-161845/12-A	IC 20.D
Level 10	IC 810-161845/13-A	IC 50.D
Level 11	IC 810-161845/14-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	27.6	15.6	-2.6	-9.0	-8.3	-7.9	40	20	20	20	20	20
	-15.4	0.8	-3.8	2.6	0.4		20	20	20	20	20	

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 007.D
 Lims ID: IC 810-161845/4-A
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 26-Sep-2025 16:05:11 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-003
 Misc. Info.: IC 810-161845/4-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:26 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:19:15

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	6.488	6.487	0.001	27	60493	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	43395	500.0	526.8	
11 1,4-Dioxane	88	8.705	8.715	-0.010	83	320	3.50	4.47	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 007.D

Injection Date: 26-Sep-2025 16:05:11

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/4-A

Client ID:

Operator ID: BC

ALS Bottle#:

3

Worklist Smp#:

3

Injection Vol: 1.0 ul

Dil. Factor:

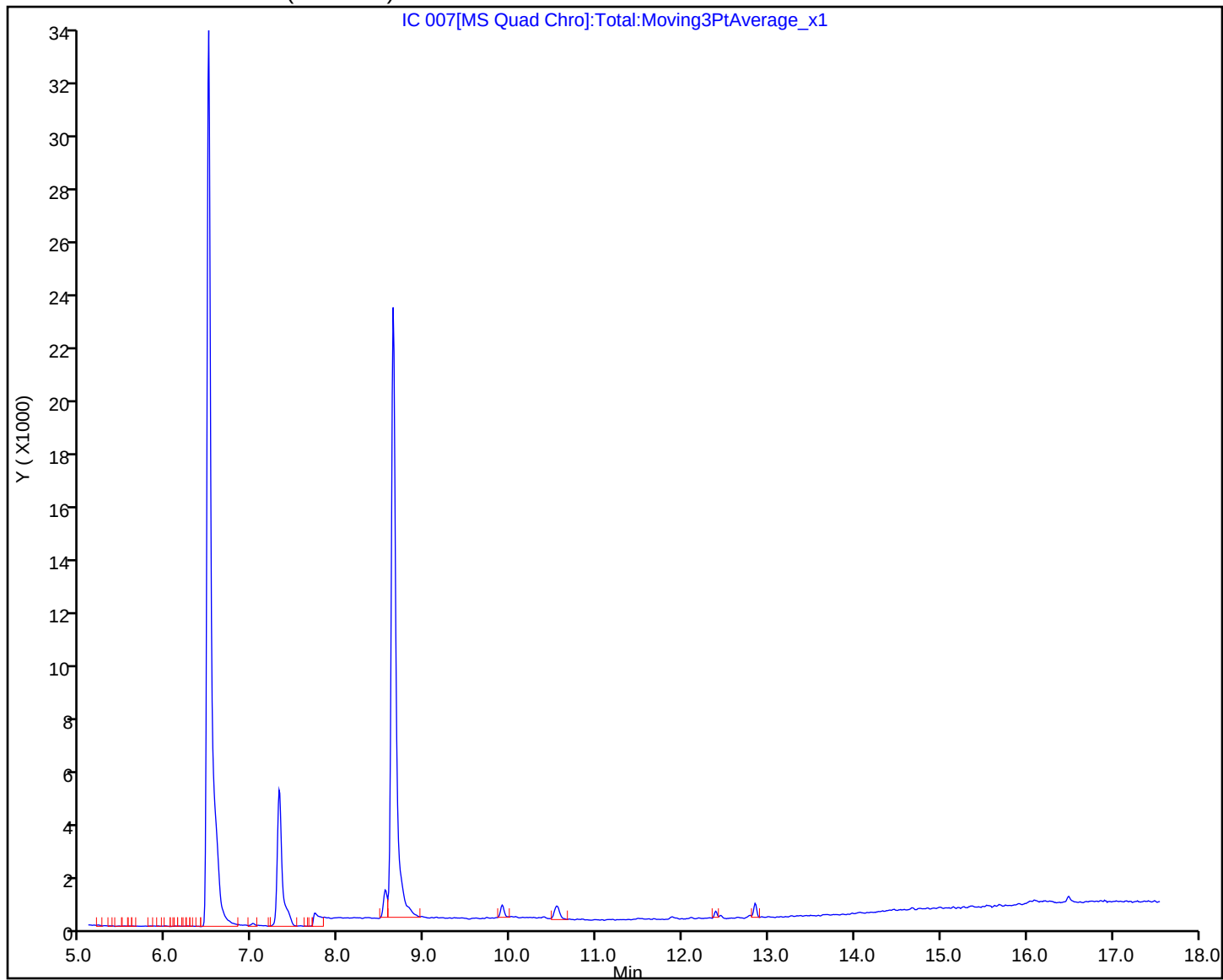
1.0000

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\20250926-41908.b\IC 007.D

Injection Date: 26-Sep-2025 16:05:11

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/4-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

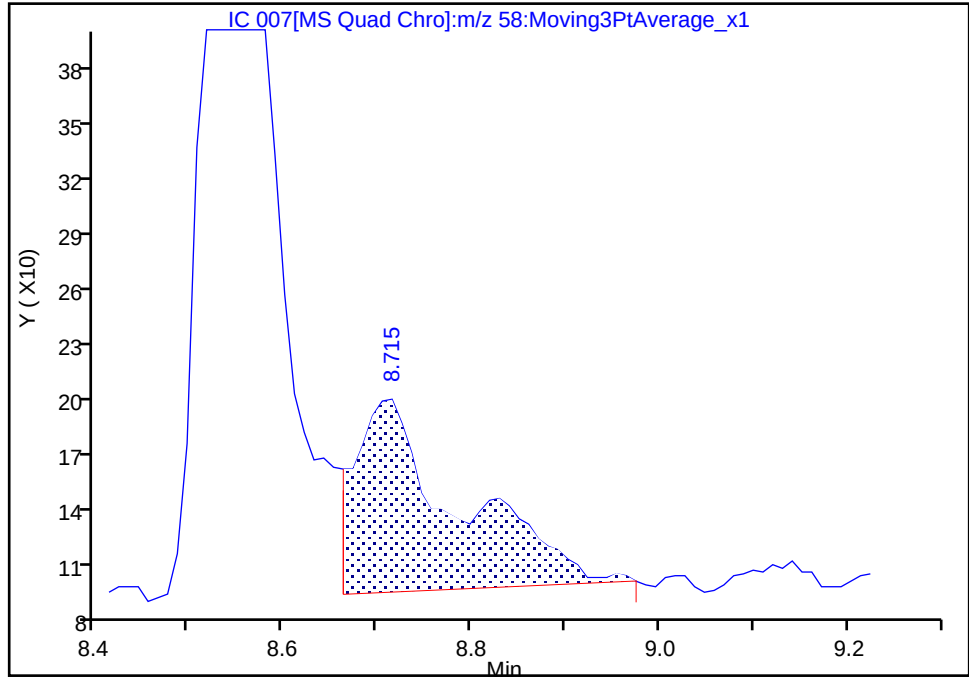
MS Quad

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

Signal: 2

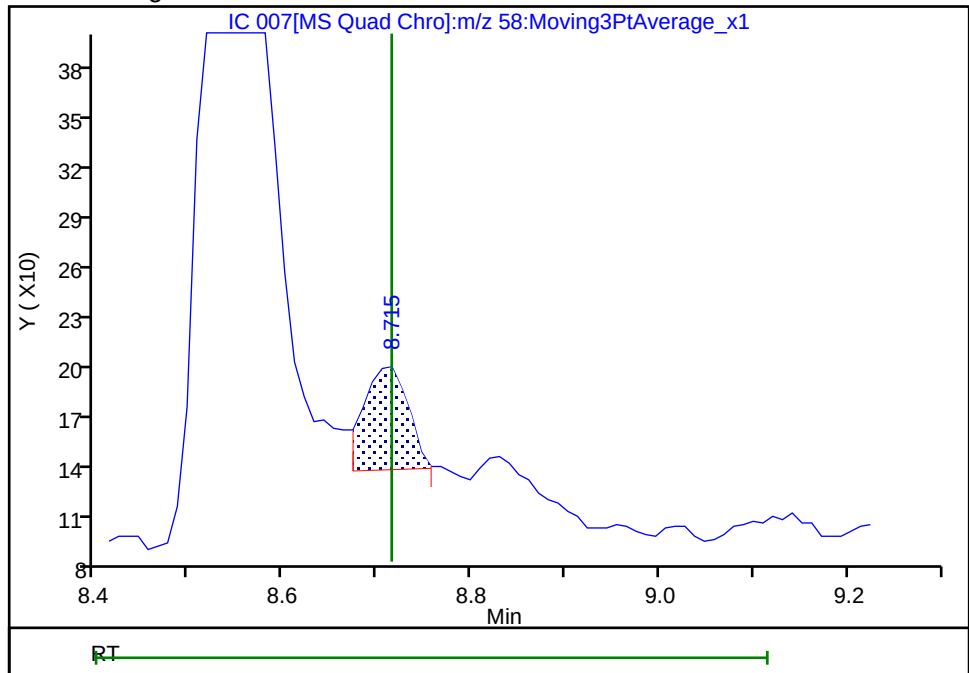
RT: 8.72
Area: 810
Amount: 4.676047
Amount Units: ug/l

Processing Integration Results



RT: 8.72
Area: 204
Amount: 4.465584
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:19:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 01.D
 Lims ID: IC 810-161845/5-A
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 26-Sep-2025 16:26:53 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-004
 Misc. Info.: IC 810-161845/5-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:26 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:19:28

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	6.488	6.487	0.001	27	64272	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	44532	500.0	508.8	
11 1,4-Dioxane	88	8.715	8.715	0.000	79	463	5.00	5.78	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:27

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 01.D

Injection Date: 26-Sep-2025 16:26:53

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/5-A

Client ID:

Operator ID: BC

ALS Bottle#: 4

Worklist Smp#: 4

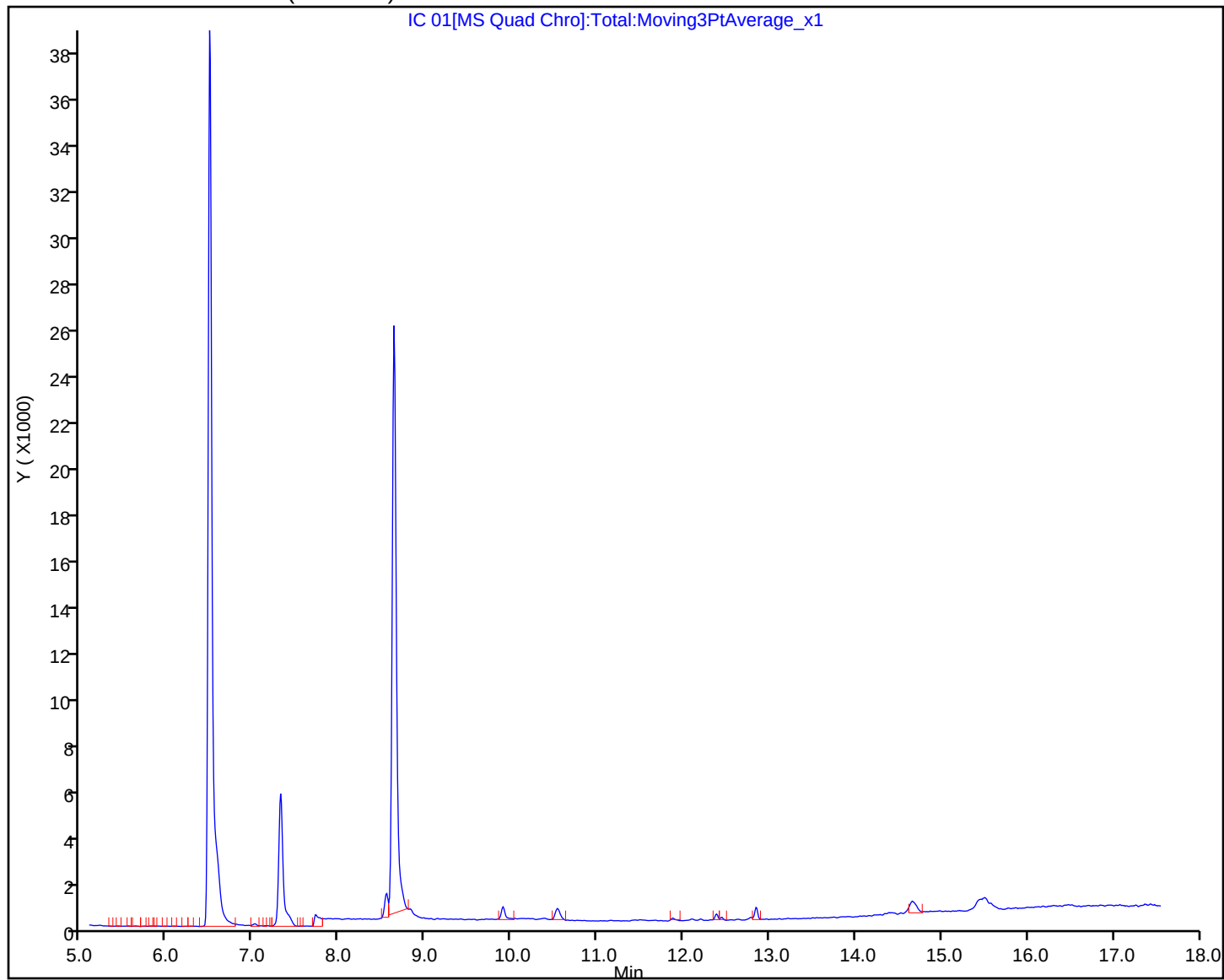
Injection Vol: 1.0 ul

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

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 01.D

Injection Date: 26-Sep-2025 16:26:53

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/5-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)

Detector

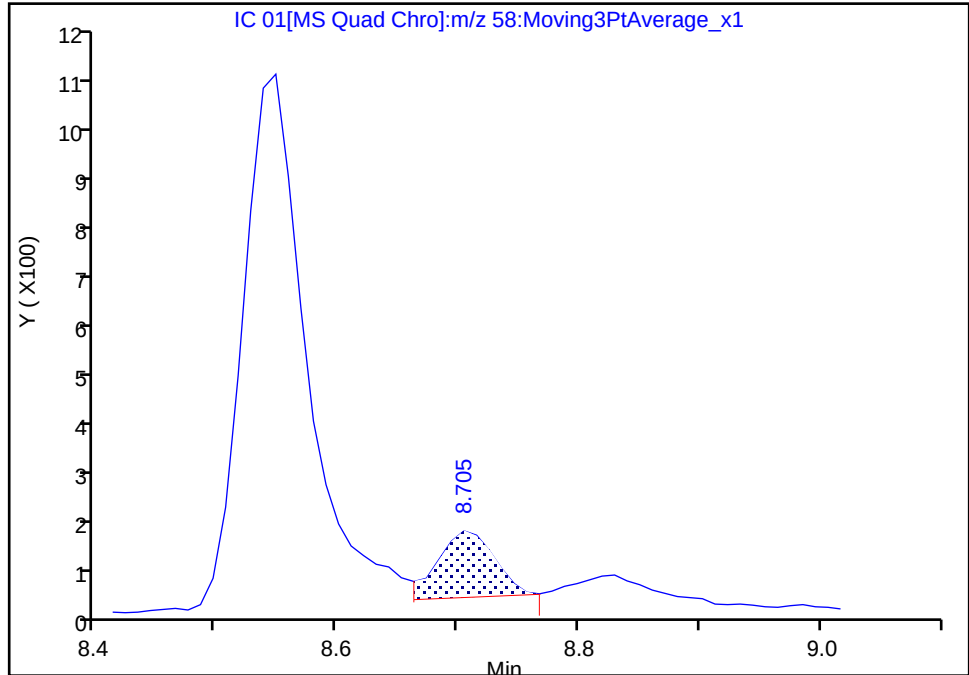
MS Quad

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

Signal: 2

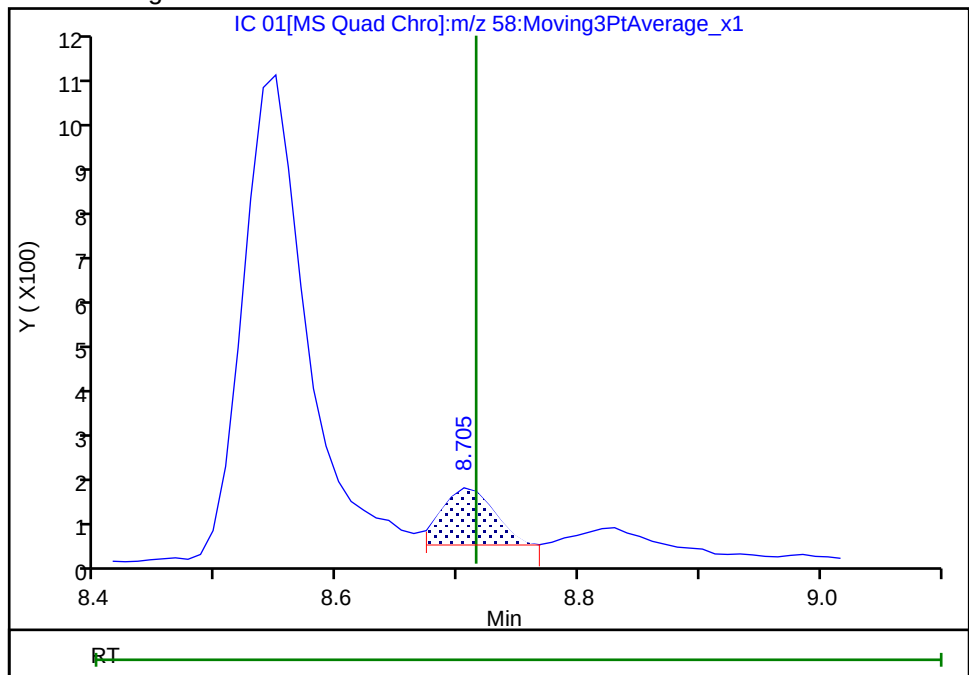
RT: 8.70
Area: 399
Amount: 5.627312
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 354
Amount: 5.779271
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:19:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 02.D
 Lims ID: IC 810-161845/6-A
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 26-Sep-2025 16:48:32 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-005
 Misc. Info.: IC 810-161845/6-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:27 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:19:42

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	6.488	6.487	0.001	26	61481	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	42556	500.0	508.3	
11 1,4-Dioxane	88	8.715	8.715	0.000	84	798	10.0	9.74	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:27

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 02.D

Injection Date: 26-Sep-2025 16:48:32

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/6-A

Client ID:

Operator ID: BC

ALS Bottle#: 5

Worklist Smp#: 5

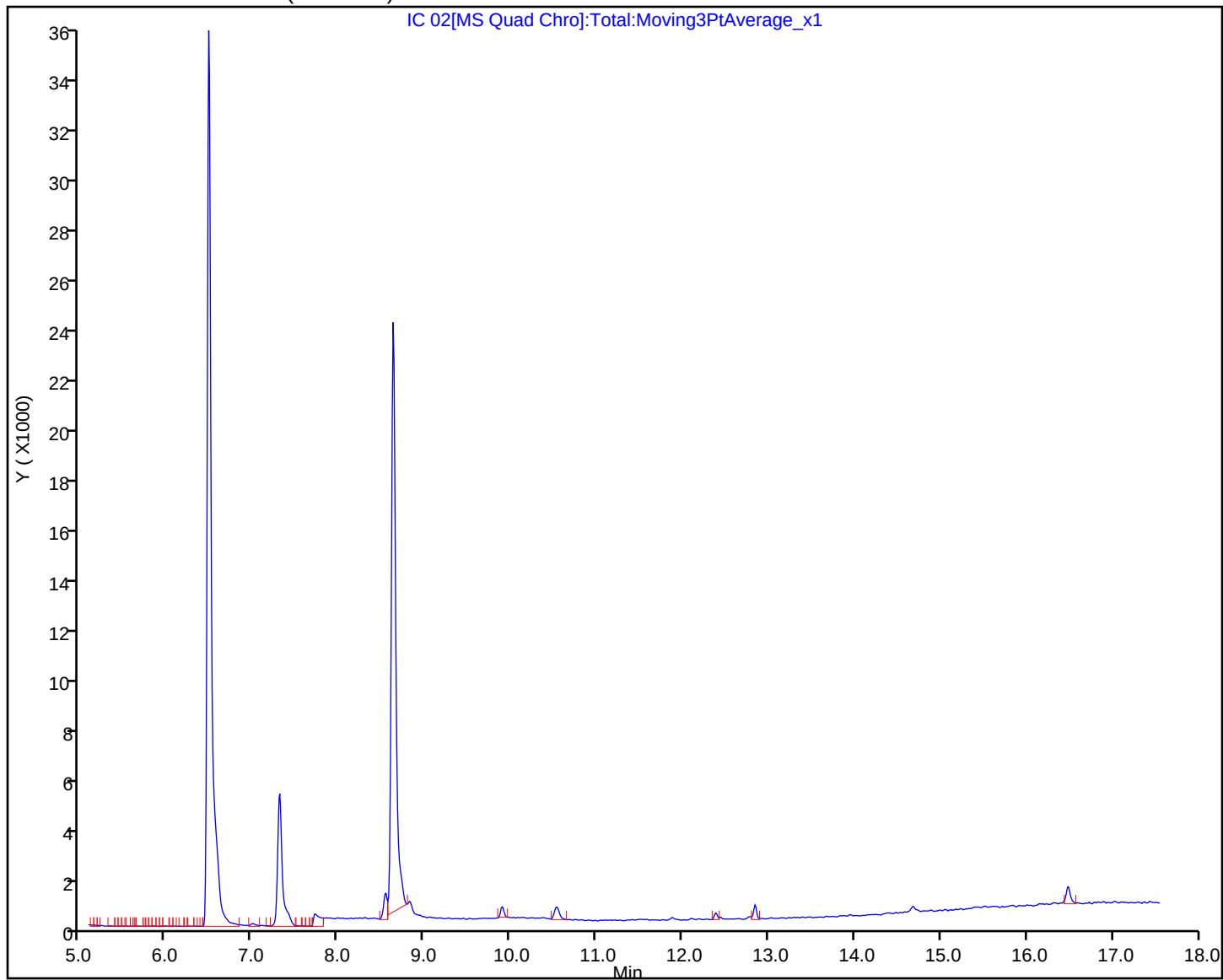
Injection Vol: 1.0 ul

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\20250926-41908.b\IC 02.D

Injection Date: 26-Sep-2025 16:48:32

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/6-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

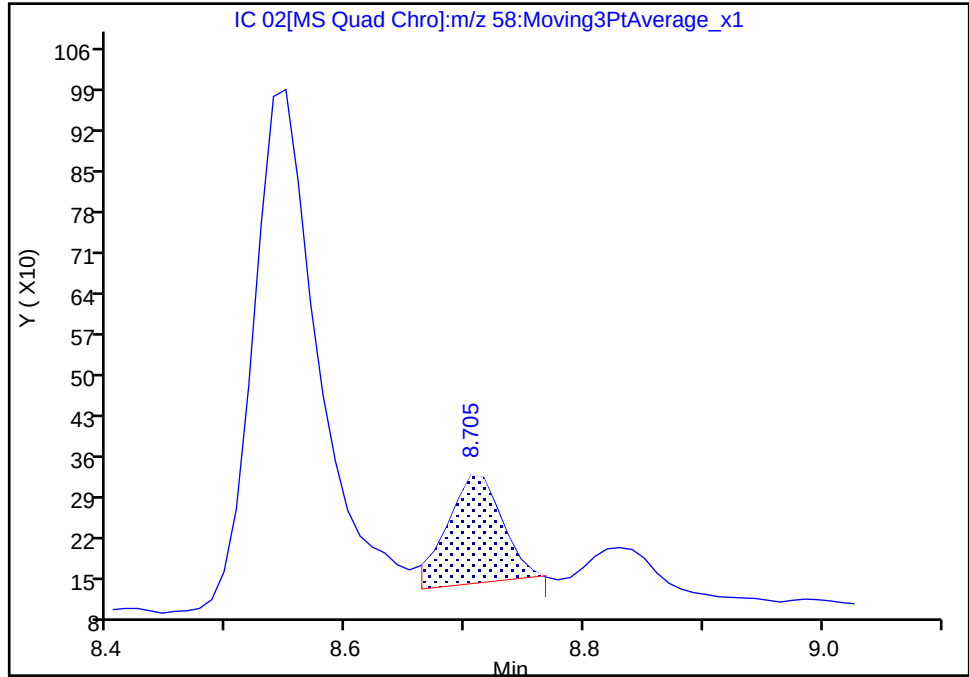
MS Quad

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

Signal: 2

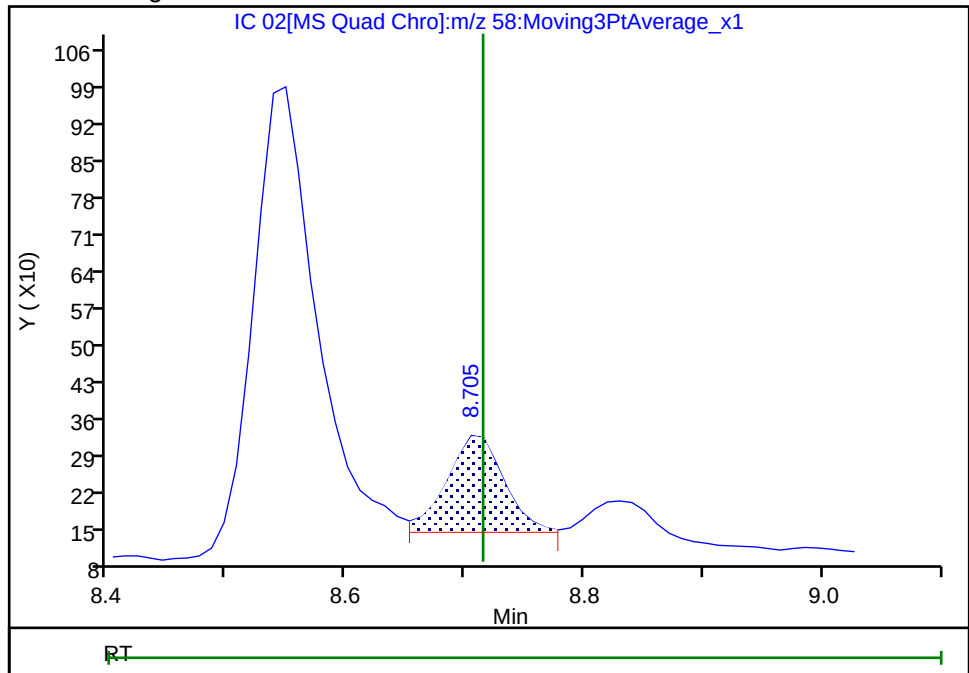
RT: 8.70
Area: 607
Amount: 12.965734
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 600
Amount: 9.743797
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:19:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 05.D
 Lims ID: IC 810-161845/7-A
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 26-Sep-2025 17:10:17 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-006
 Misc. Info.: IC 810-161845/7-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:28 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:19:57

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	6.495	6.487	0.008	26	67135	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	45677	500.0	499.6	
11 1,4-Dioxane	88	8.715	8.715	0.000	83	2144	25.0	22.8	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 05.D

Injection Date: 26-Sep-2025 17:10:17

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/7-A

Client ID:

Operator ID: BC

ALS Bottle#:

6

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

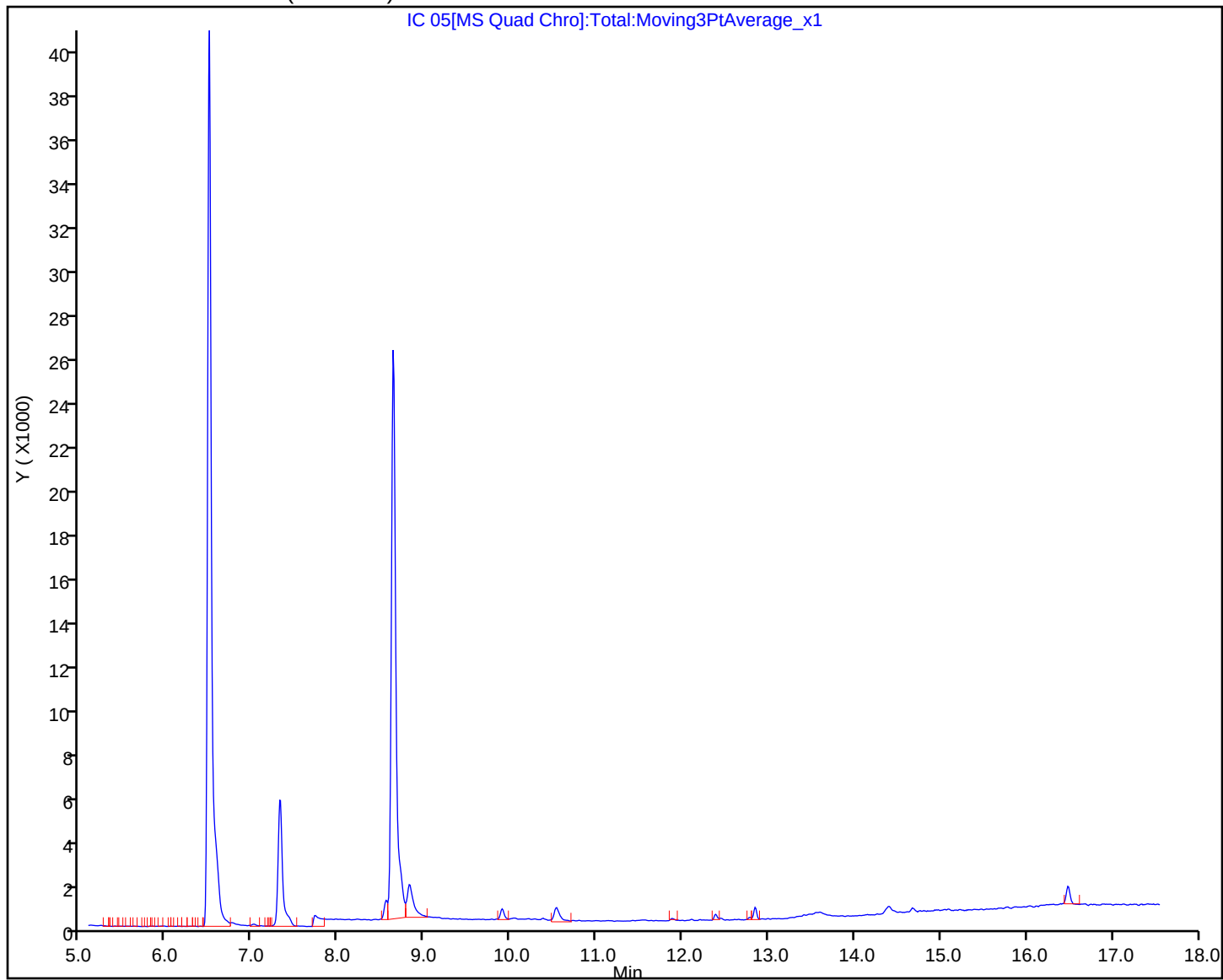
1.0000

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\20250926-41908.b\IC 05.D

Injection Date: 26-Sep-2025 17:10:17

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/7-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

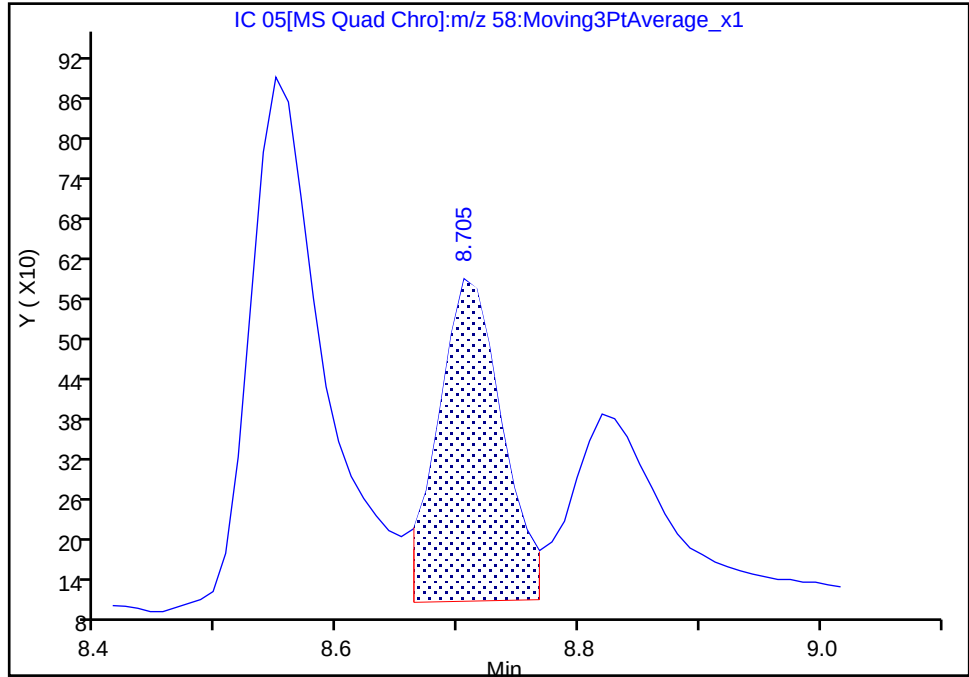
MS Quad

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

Signal: 2

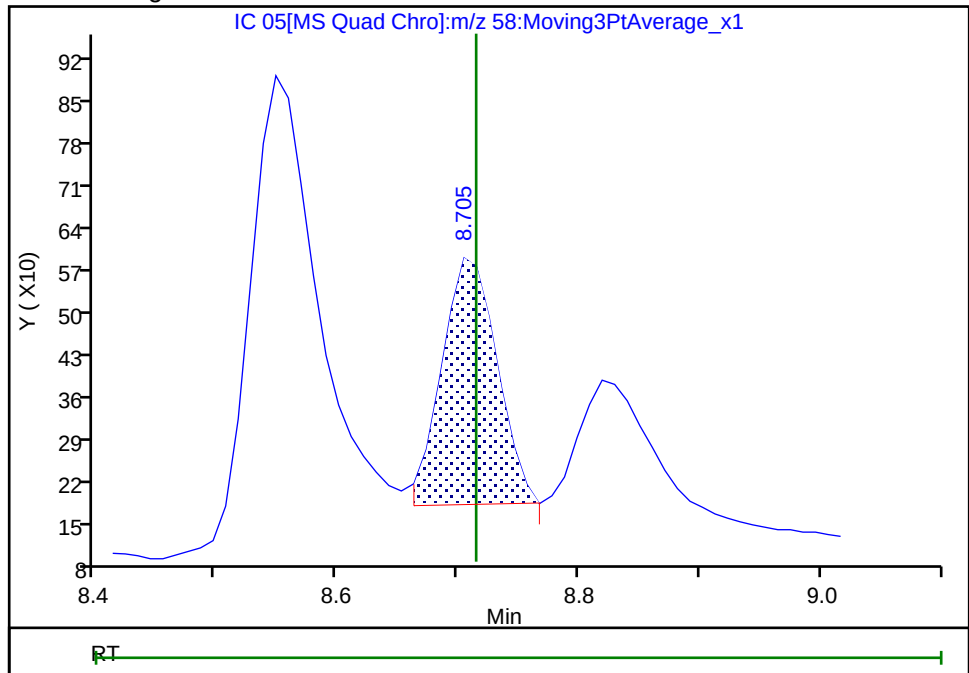
RT: 8.70
Area: 1812
Amount: 23.053114
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 1311
Amount: 22.755137
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:19:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 1.D
 Lims ID: IC 810-161845/8-A
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 26-Sep-2025 17:31:56 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-007
 Misc. Info.: IC 810-161845/8-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:29 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:20:13

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	6.487	6.487	0.000	26	66523	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	44812	500.0	494.7	
11 1,4-Dioxane	88	8.715	8.715	0.000	81	4361	50.0	45.8	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:29

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 1.D

Injection Date: 26-Sep-2025 17:31:56

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/8-A

Client ID:

Operator ID: BC

ALS Bottle#:

7

Worklist Smp#:

7

Injection Vol: 1.0 ul

Dil. Factor:

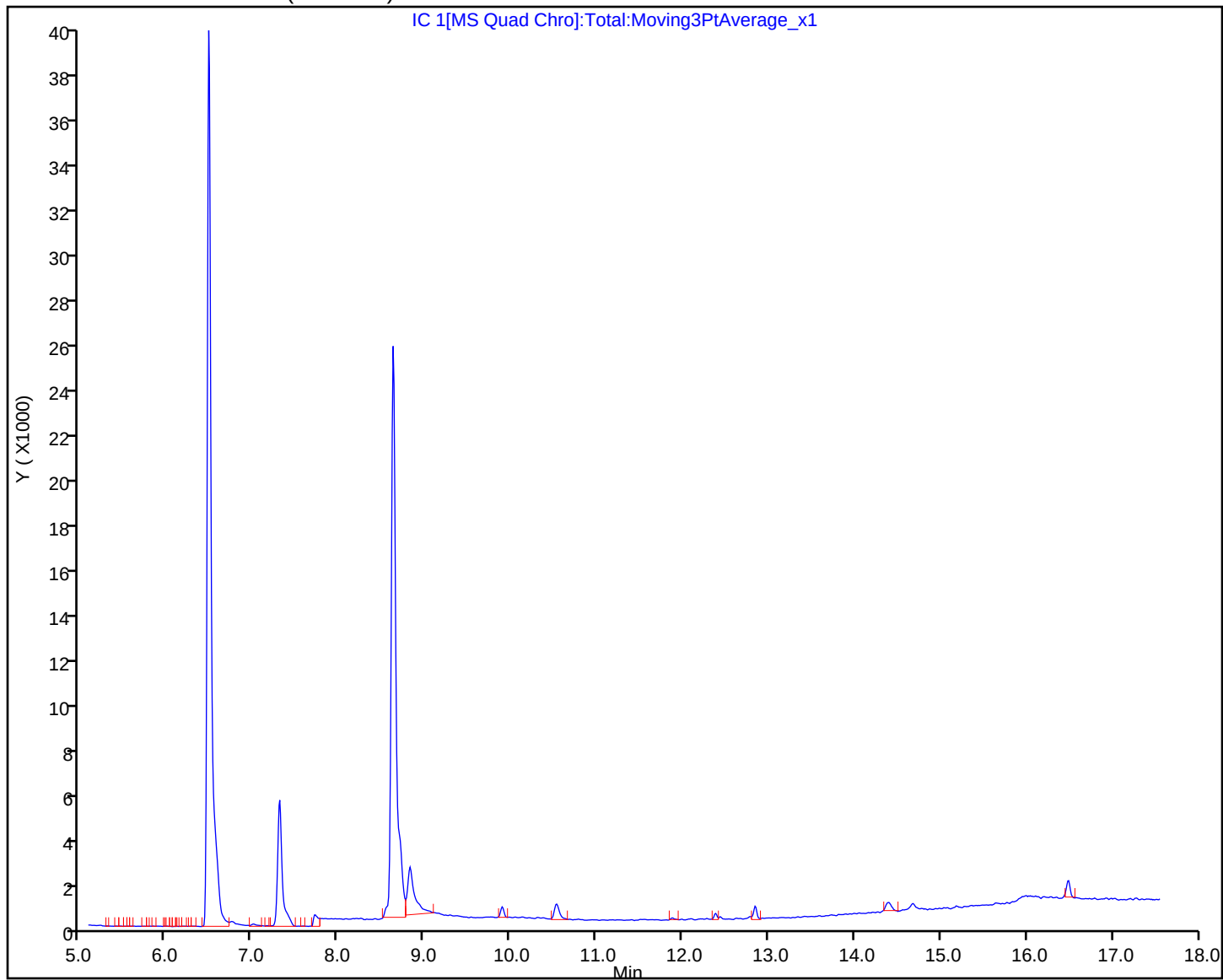
1.0000

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\20250926-41908.b\IC 1.D

Injection Date: 26-Sep-2025 17:31:56

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/8-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

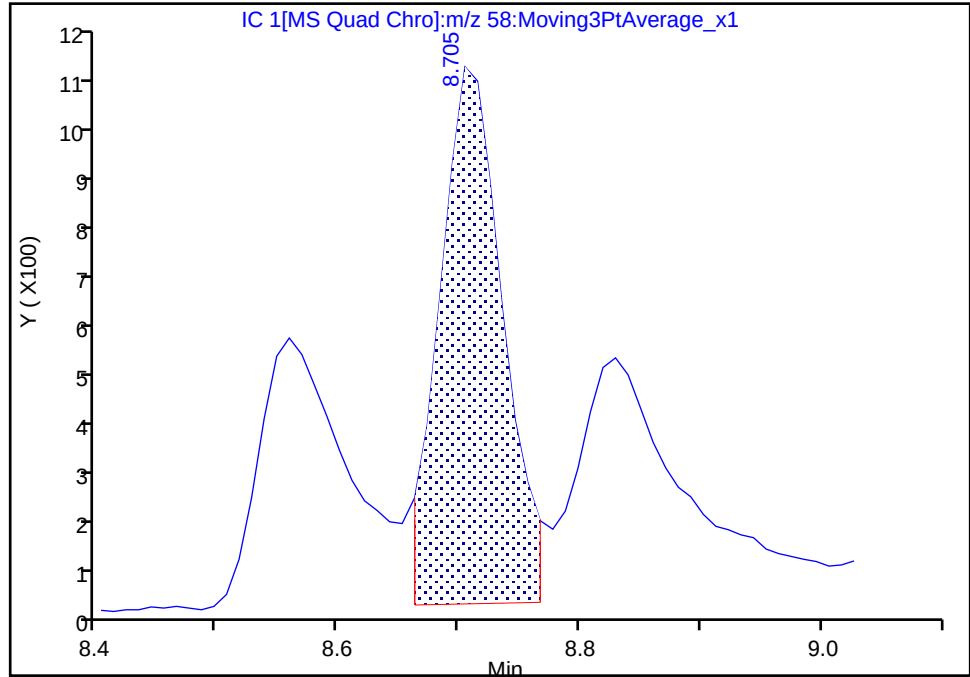
MS Quad

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

Signal: 2

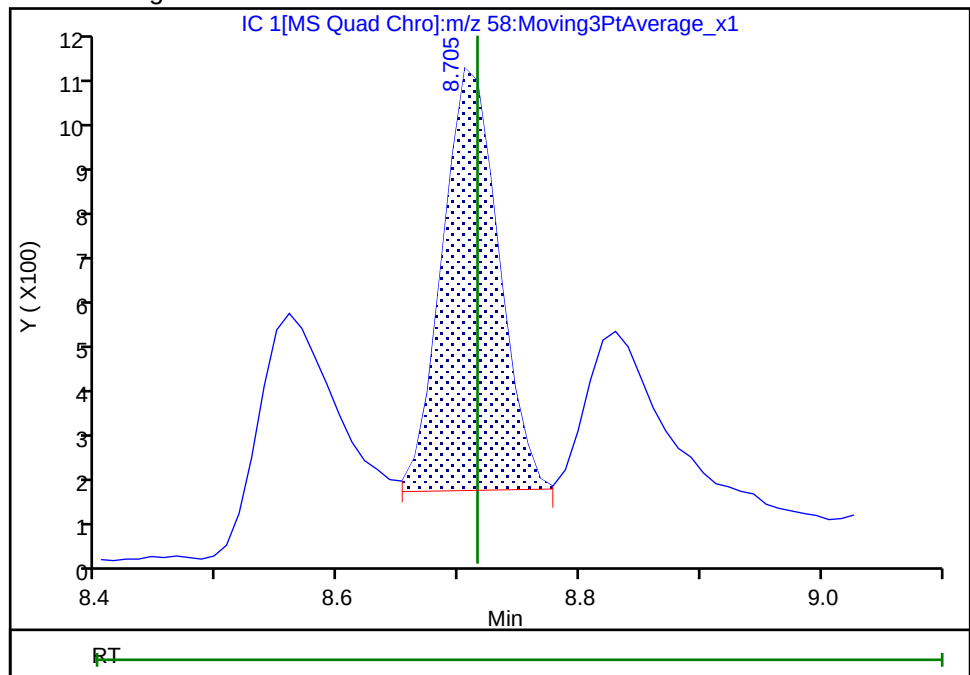
RT: 8.70
Area: 3511
Amount: 47.707274
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 2676
Amount: 45.832188
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:20:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 2.D
 Lims ID: IC 810-161845/9-A
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 26-Sep-2025 17:53:38 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-008
 Misc. Info.: IC 810-161845/9-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:29 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:20:26

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	6.480	6.487	-0.007	26	65246	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	44797	500.0	504.2	
11 1,4-Dioxane	88	8.715	8.715	0.000	82	8678	100.0	92.1	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:29

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 2.D

Injection Date: 26-Sep-2025 17:53:38

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/9-A

Client ID:

Operator ID: BC

ALS Bottle#: 8

Worklist Smp#: 8

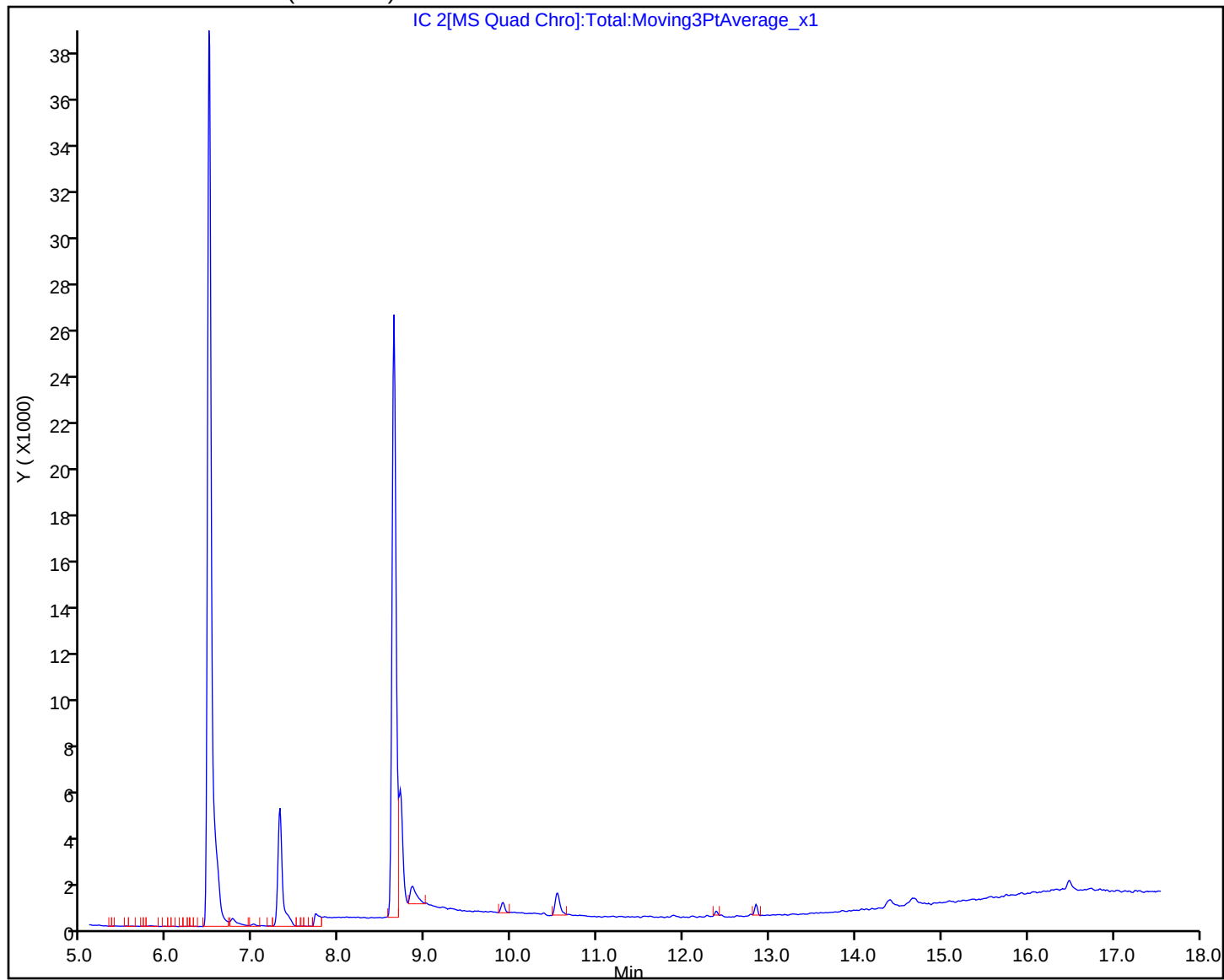
Injection Vol: 1.0 ul

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\20250926-41908.b\IC 2.D

Injection Date: 26-Sep-2025 17:53:38

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/9-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

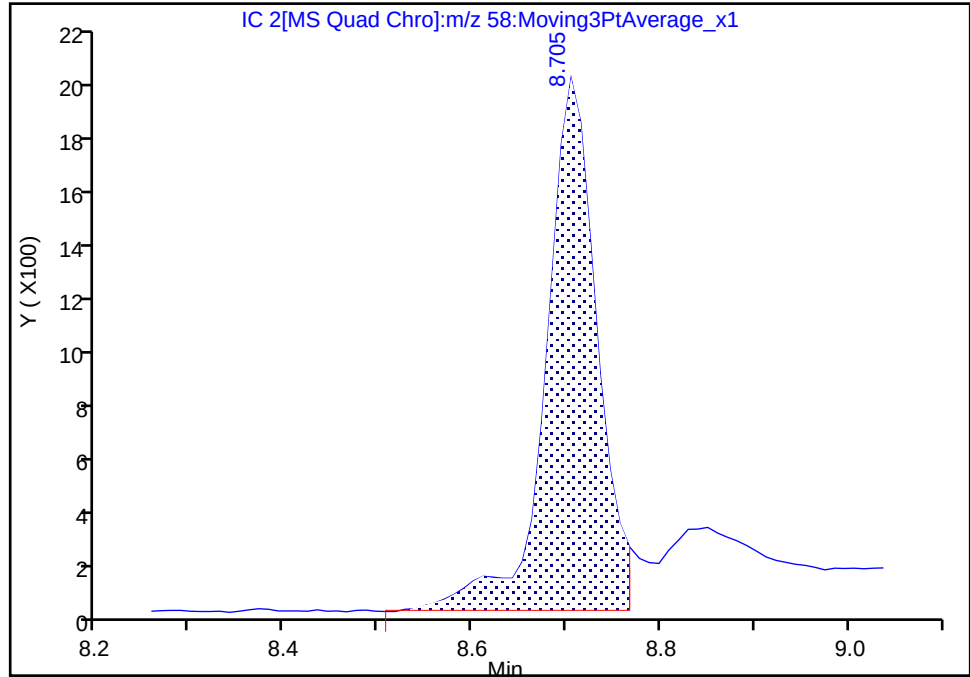
MS Quad

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

Signal: 2

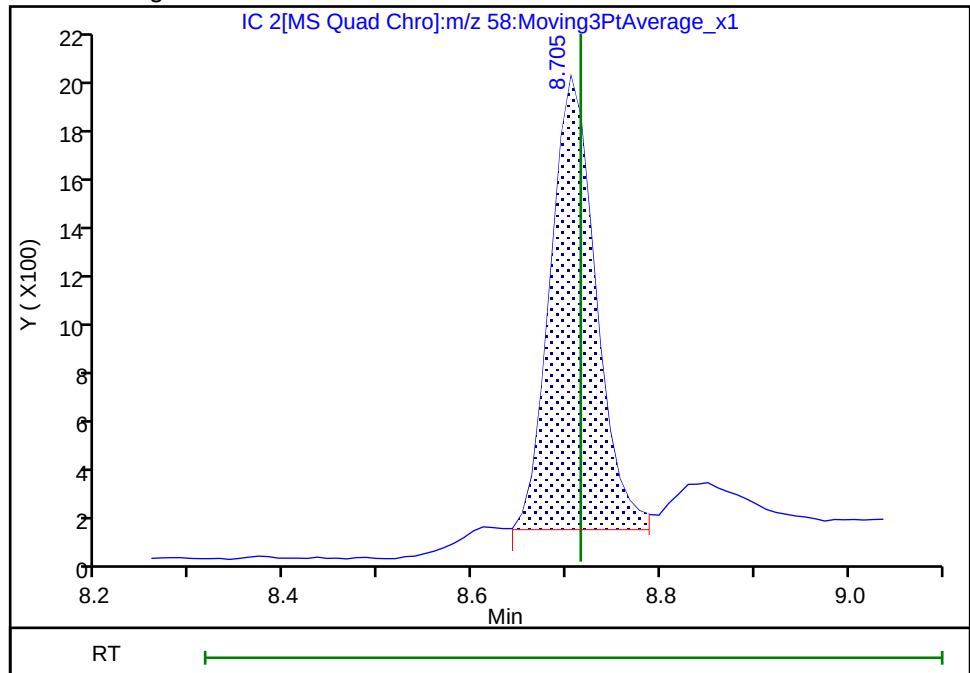
RT: 8.70
Area: 7344
Amount: 93.352416
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 6005
Amount: 92.128241
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:20:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 5.D
 Lims ID: ICISAV 810-161845/10-A
 Client ID:
 Sample Type: ICISAV Calib Level: 7
 Inject. Date: 26-Sep-2025 18:15:26 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-009
 Misc. Info.: ICISAV 810-161845/10-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:30 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:20:40

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	6.488	6.488	0.000	26	59709	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.643	8.643	0.000	97	36688	500.0	451.2	
11 1,4-Dioxane	88	8.715	8.715	0.000	84	18325	250.0	211.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:30

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 5.D

Injection Date: 26-Sep-2025 18:15:26

Instrument ID: GCMS-FE

Lims ID: ICISAV 810-161845/10-A

Client ID:

Operator ID: BC

ALS Bottle#: 9

Worklist Smp#: 9

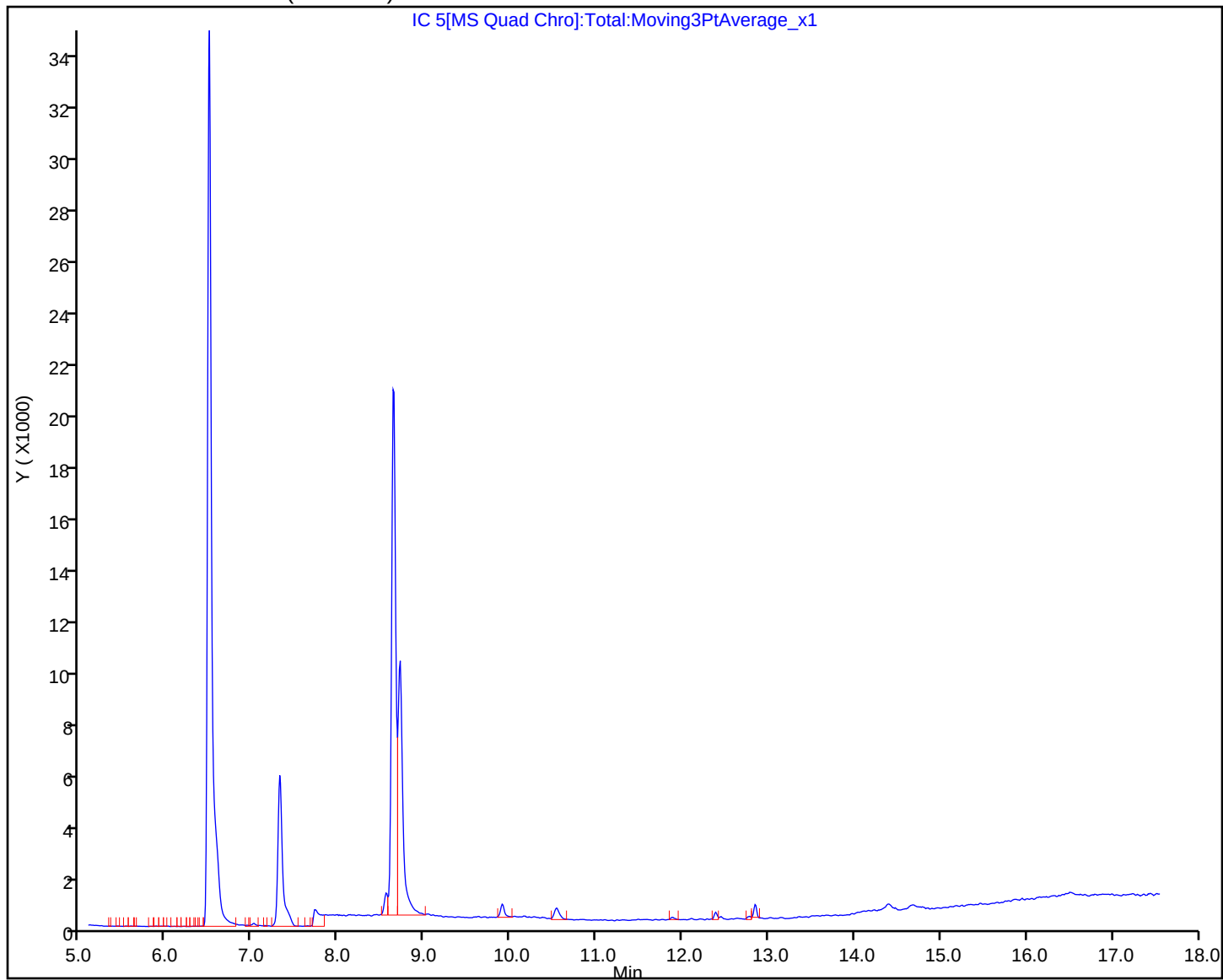
Injection Vol: 1.0 ul

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\20250926-41908.b\IC 5.D

Injection Date: 26-Sep-2025 18:15:26

Instrument ID: GCMS-FE

Lims ID: ICISAV 810-161845/10-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

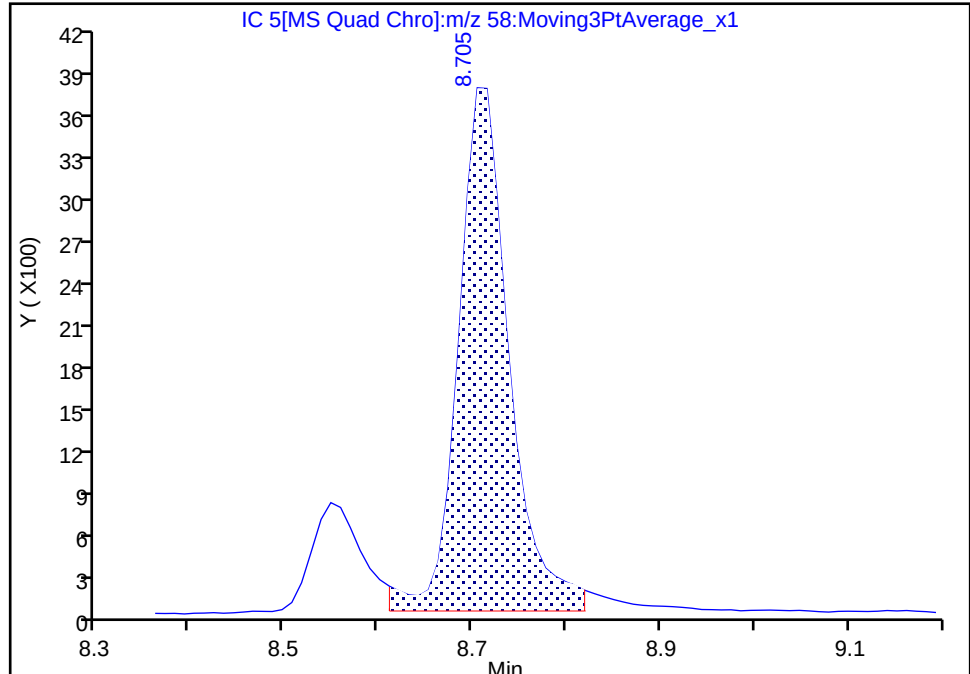
MS Quad

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

Signal: 2

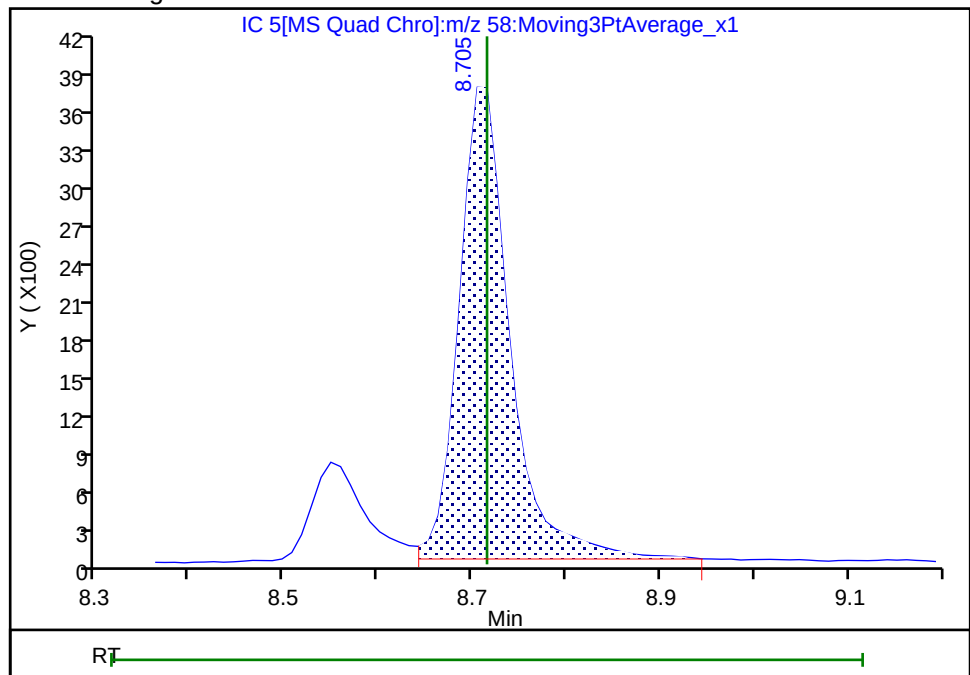
RT: 8.70
Area: 13948
Amount: 215.1448
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 13849
Amount: 211.4930
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:20:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 10.D
 Lims ID: IC 810-161845/11-A
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 26-Sep-2025 18:37:12 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-010
 Misc. Info.: IC 810-161845/11-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:31 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:20:56

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	6.488	6.488	0.000	26	63410	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.643	-0.011	95	43002	500.0	498.0	
11 1,4-Dioxane	88	8.715	8.715	0.000	83	46473	500.0	503.9	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:31

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 10.D

Injection Date: 26-Sep-2025 18:37:12

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/11-A

Client ID:

Operator ID: BC

ALS Bottle#: 10

Worklist Smp#: 10

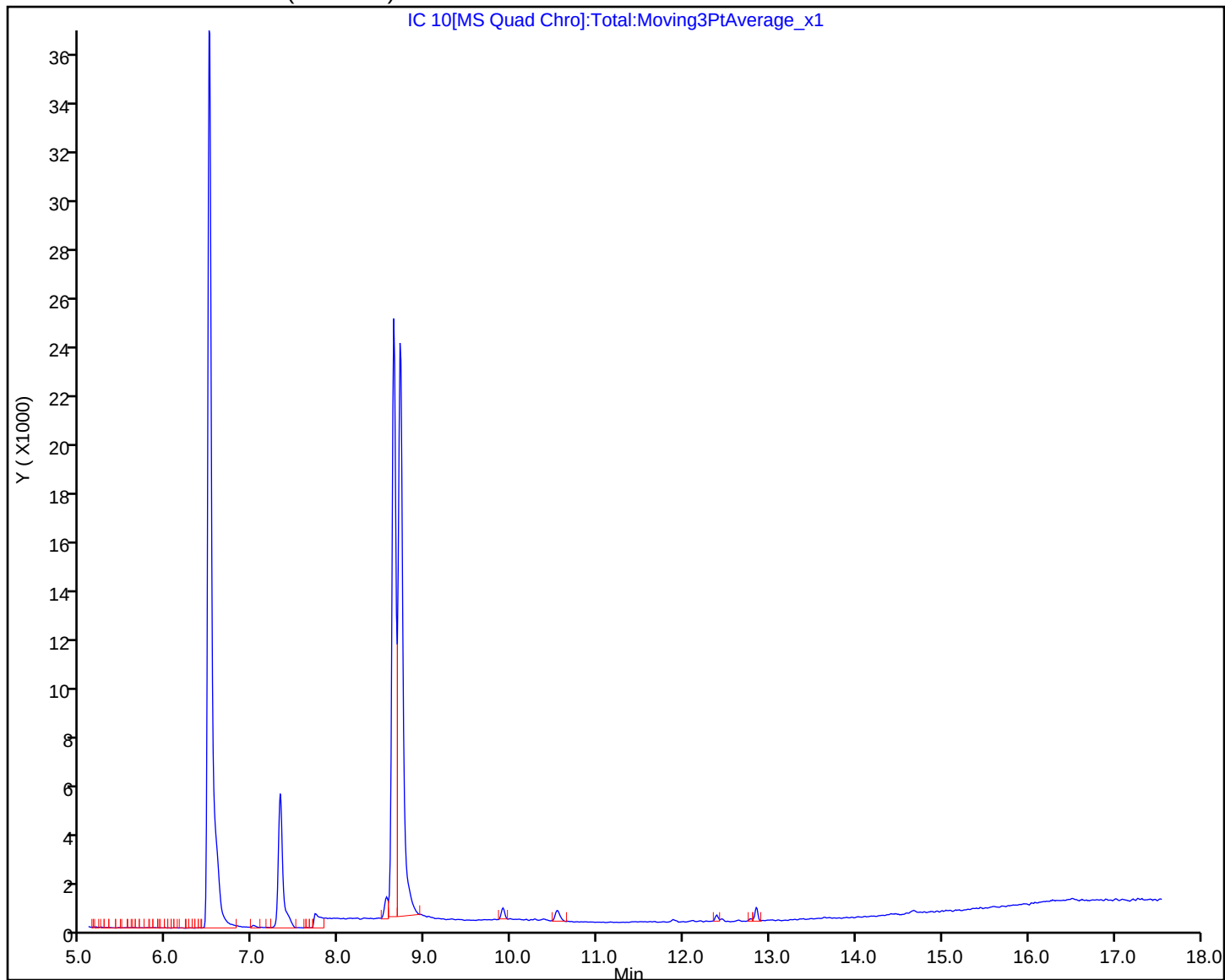
Injection Vol: 1.0 ul

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\20250926-41908.b\IC 10.D

Injection Date: 26-Sep-2025 18:37:12

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/11-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)

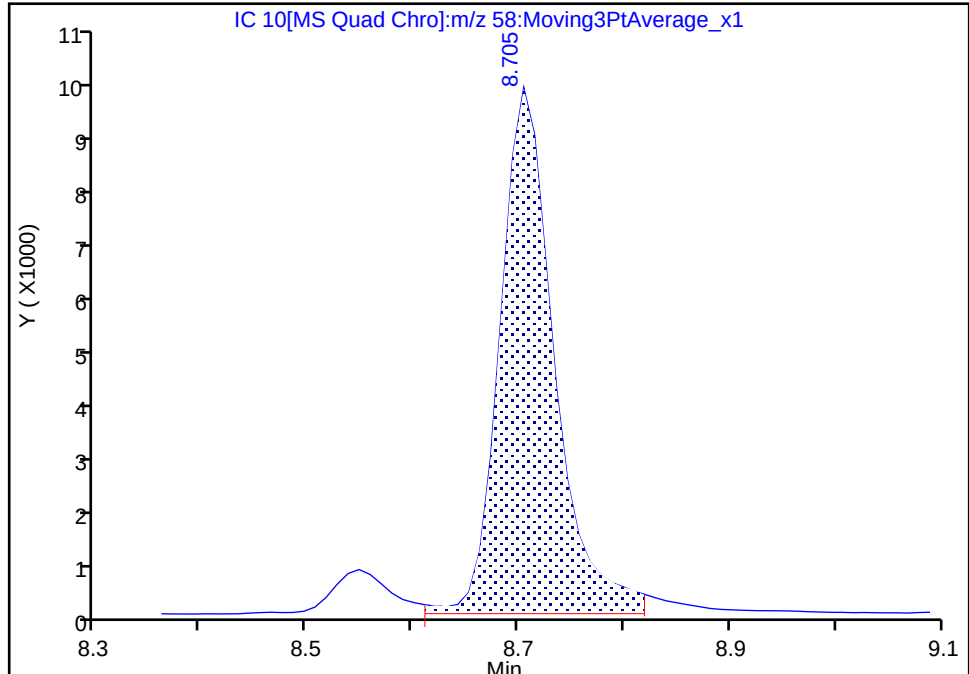
Detector: MS Quad

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

Signal: 2

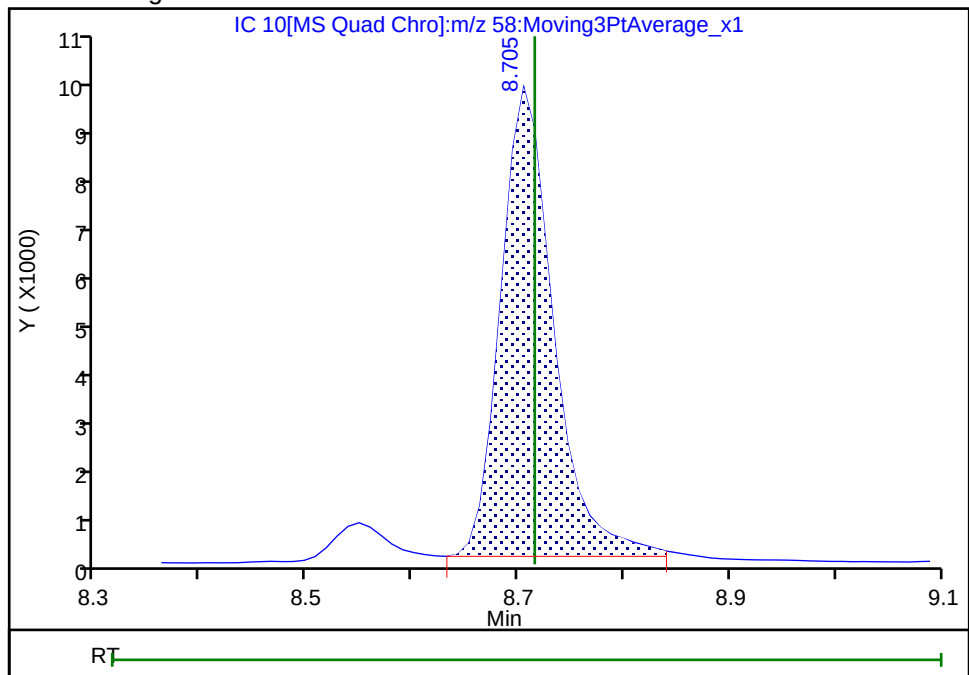
RT: 8.70
Area: 34634
Amount: 500.5470
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 33066
Amount: 503.8920
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:20:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 10.D

Injection Date: 26-Sep-2025 18:37:12

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/11-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

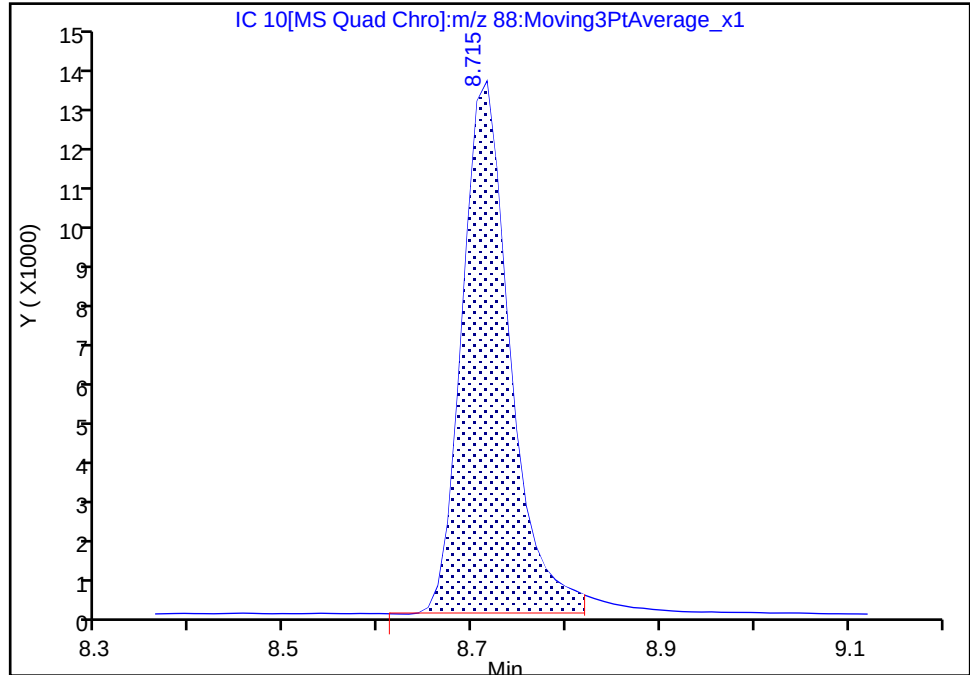
MS Quad

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

Signal: 1

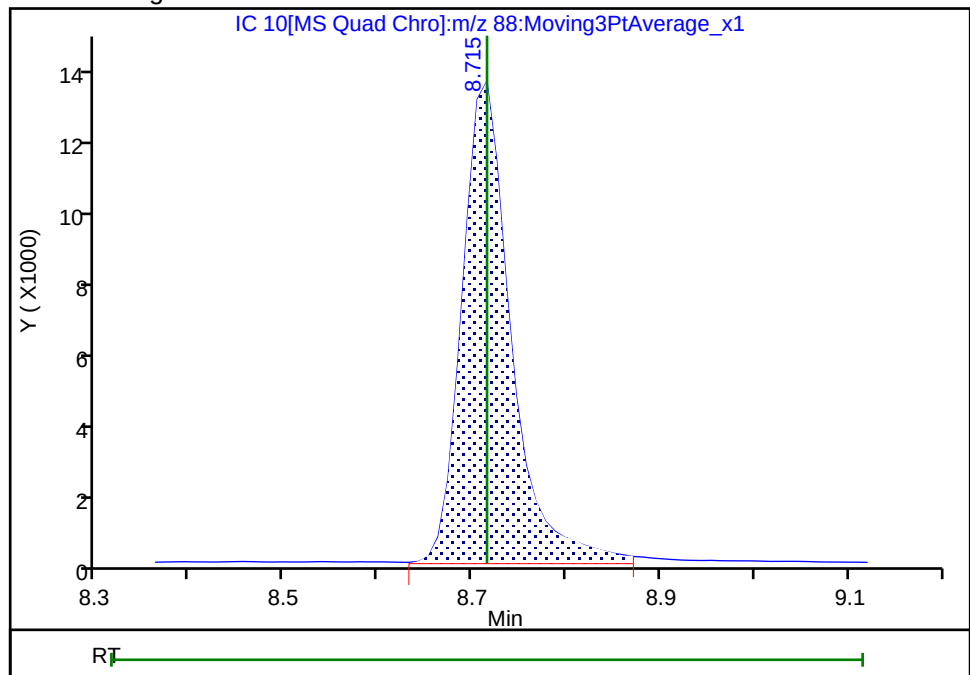
RT: 8.72
Area: 45359
Amount: 500.5470
Amount Units: ug/l

Processing Integration Results



RT: 8.72
Area: 46473
Amount: 503.8920
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:20:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 20.D
 Lims ID: IC 810-161845/12-A
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 26-Sep-2025 18:58:56 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-011
 Misc. Info.: IC 810-161845/12-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:32 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:21:08

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	6.488	6.488	0.000	26	63837	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.643	-0.011	95	42853	500.0	493.0	
11 1,4-Dioxane	88	8.705	8.715	-0.010	84	89379	1000.0	961.9	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:32

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 20.D

Injection Date: 26-Sep-2025 18:58:56

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/12-A

Client ID:

Operator ID: BC

ALS Bottle#: 11

Worklist Smp#: 11

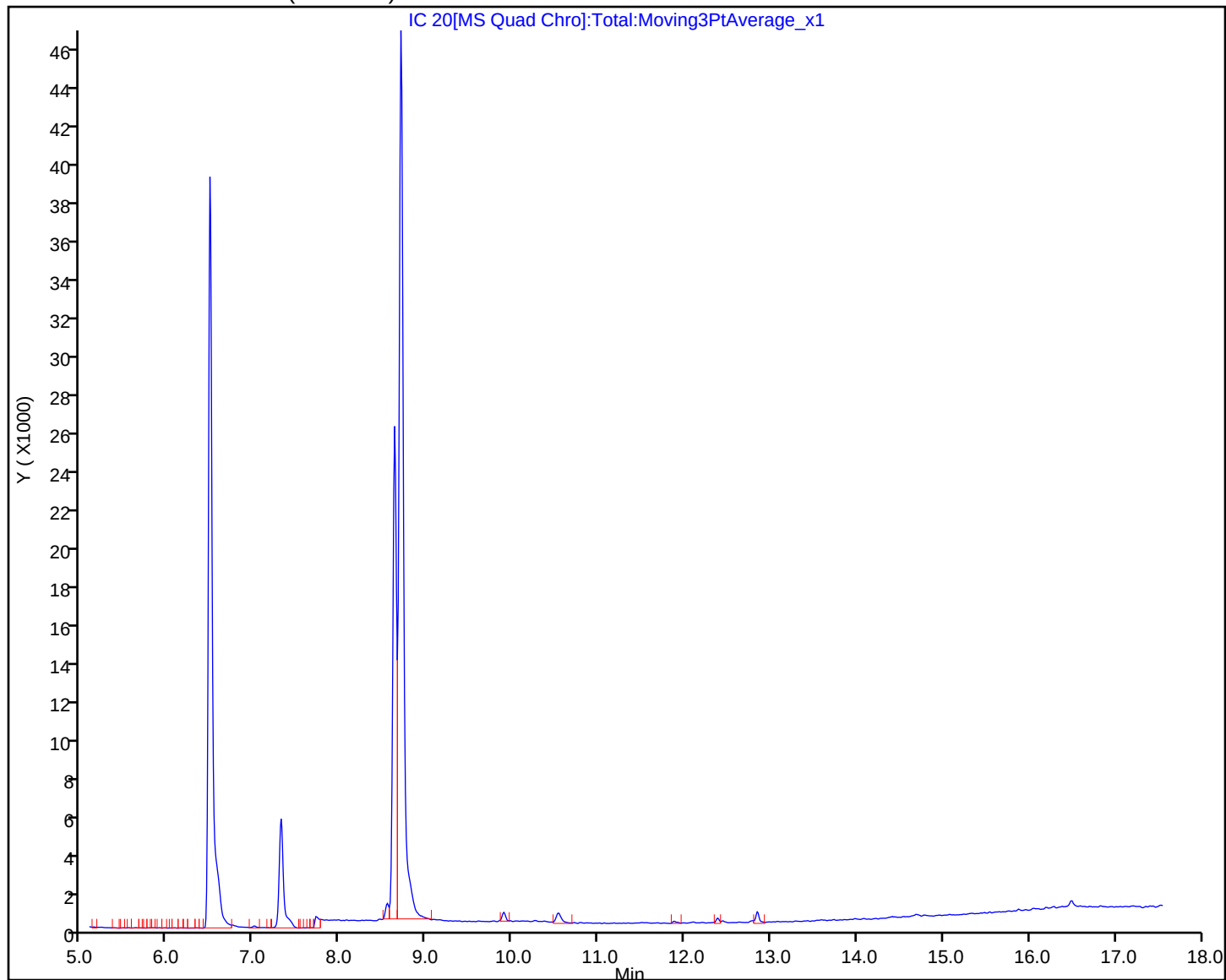
Injection Vol: 1.0 ul

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

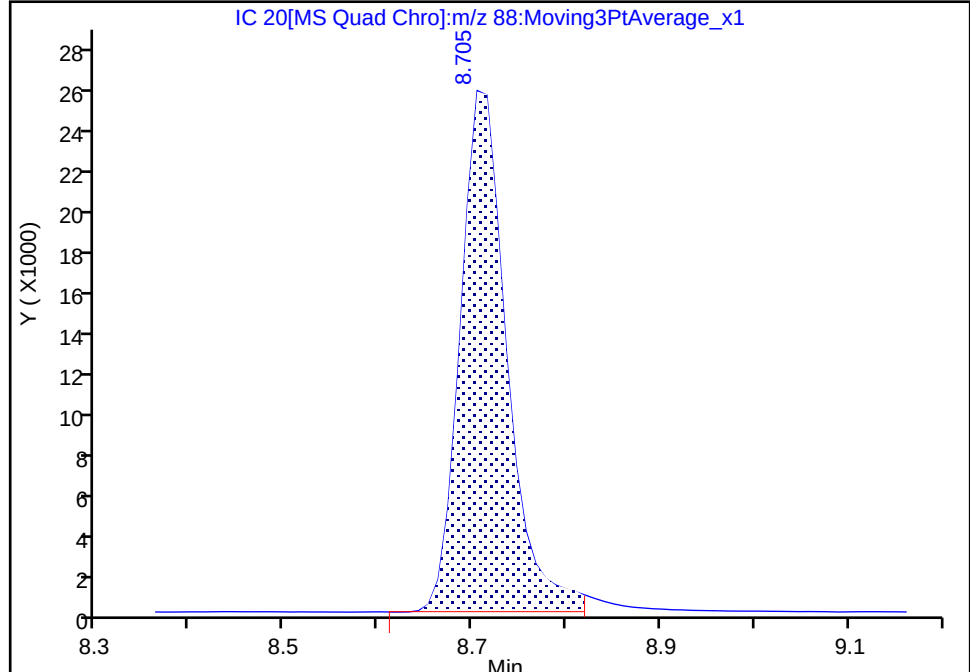
Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 20.D
Injection Date: 26-Sep-2025 18:58:56 Instrument ID: GCMS-FE
Lims ID: IC 810-161845/12-A
Client ID:
Operator ID: BC ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 522_GCMS-FE Limit Group: MSS - 522
Column: CP Select 624 MS (0.25 mm) Detector MS Quad

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

Signal: 1

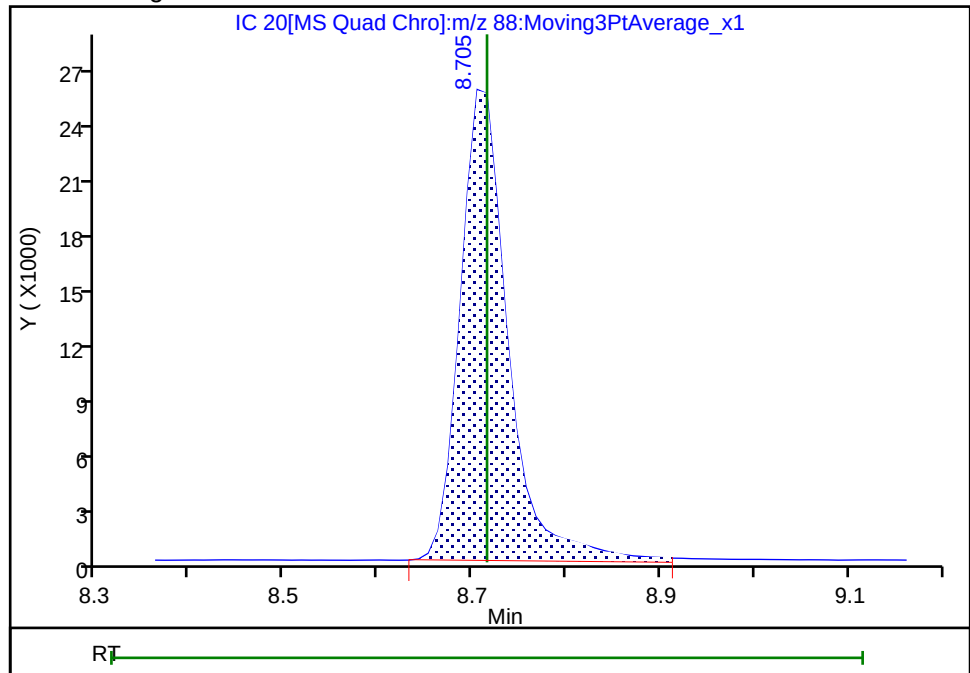
RT: 8.70
Area: 86908
Amount: 950.7839
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 89379
Amount: 961.8661
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:21:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 50.D
 Lims ID: IC 810-161845/13-A
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 26-Sep-2025 19:20:40 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-012
 Misc. Info.: IC 810-161845/13-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:32 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:21:18

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	6.487	6.488	-0.001	26	61830	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.643	-0.011	95	44268	500.0	525.8	
11 1,4-Dioxane	88	8.704	8.715	-0.011	84	230988	2500.0	2565.1	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:32

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 50.D

Injection Date: 26-Sep-2025 19:20:40

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/13-A

Client ID:

Operator ID: BC

ALS Bottle#: 12

Worklist Smp#: 12

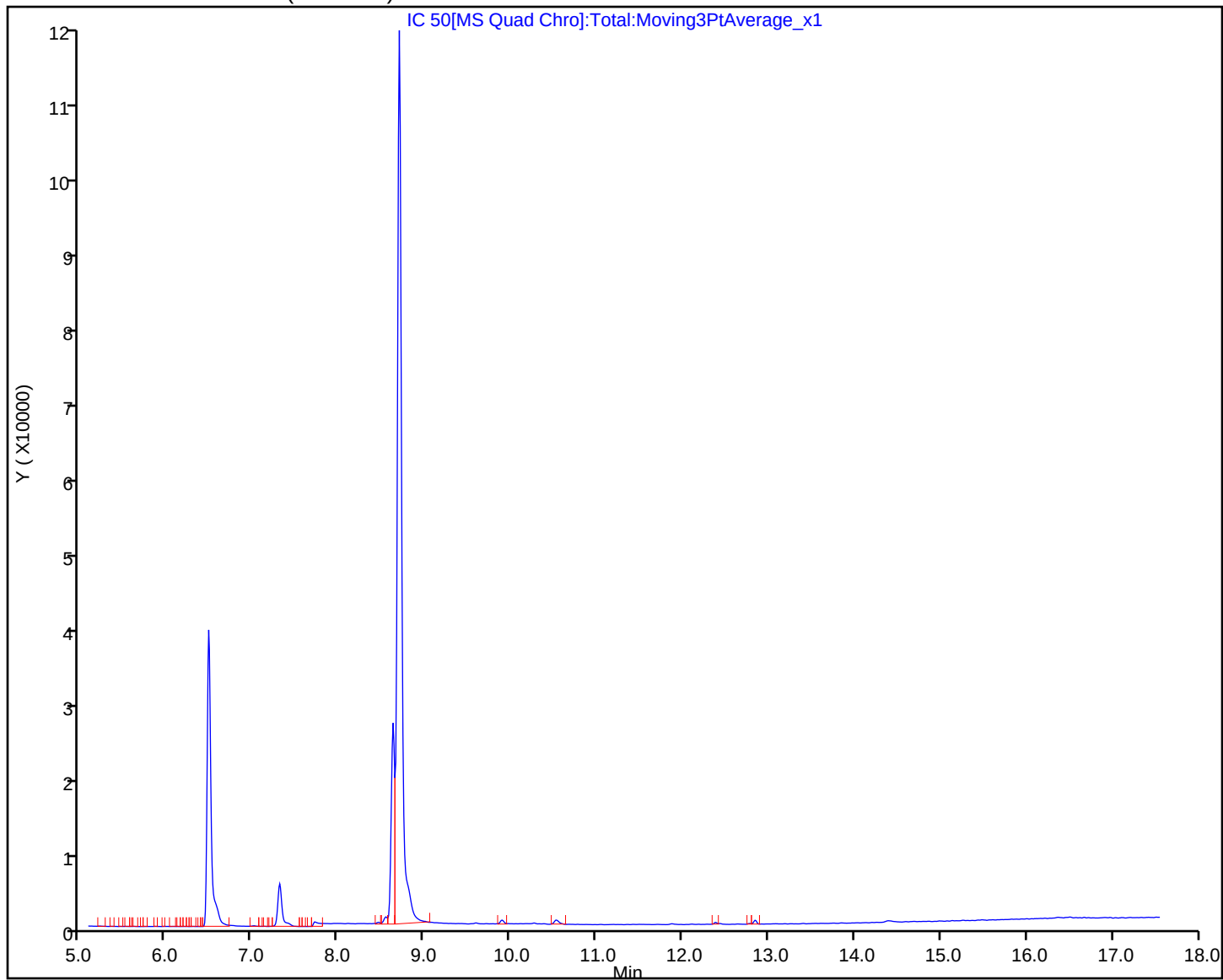
Injection Vol: 1.0 ul

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

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC 50.D

Injection Date: 26-Sep-2025 19:20:40

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/13-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)

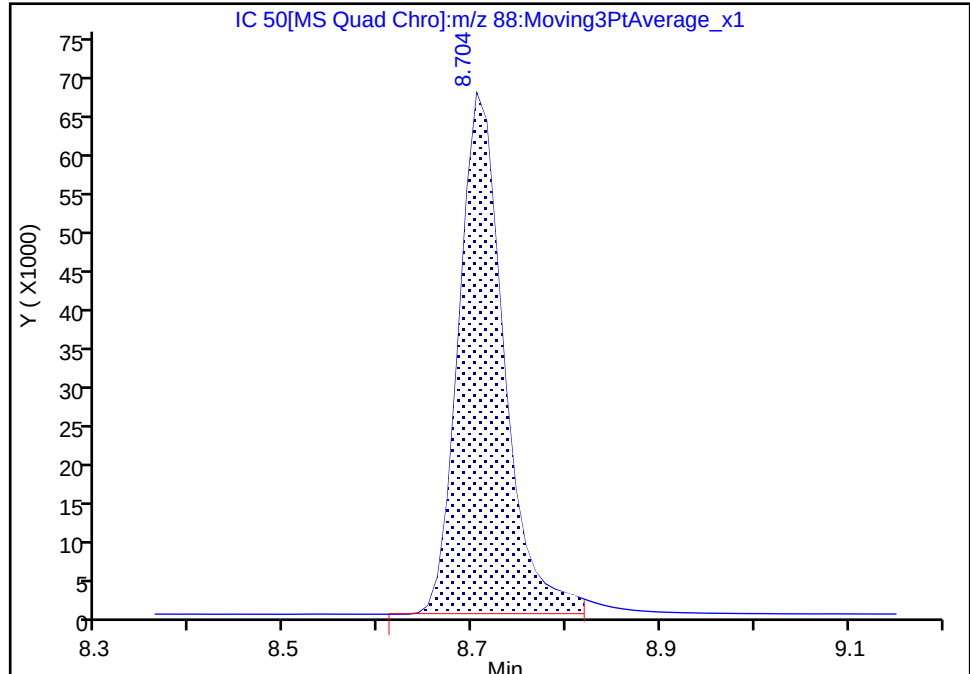
Detector MS Quad

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

Signal: 1

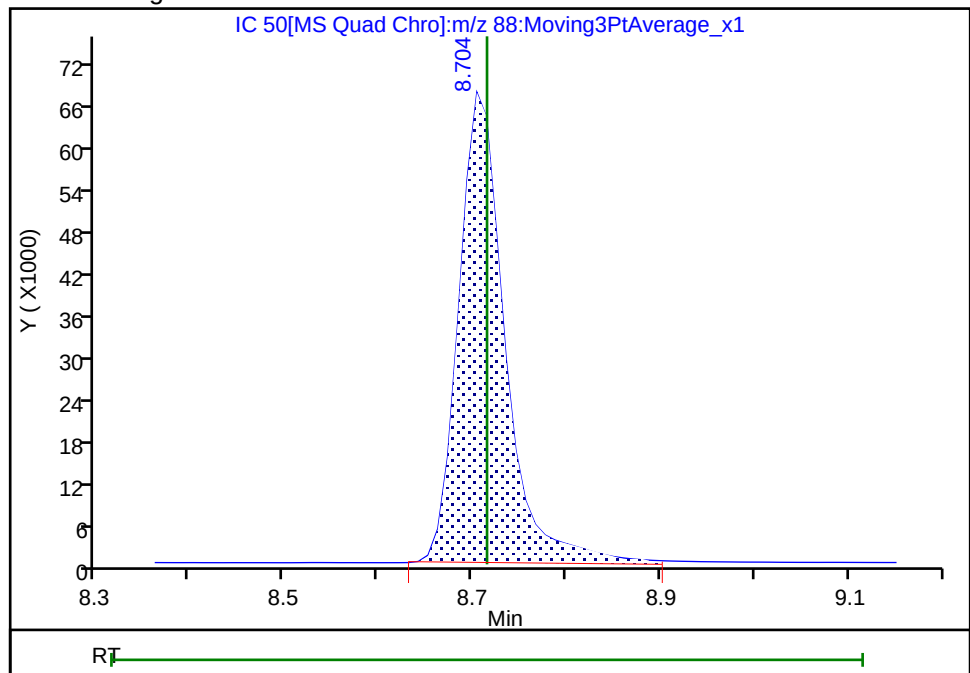
RT: 8.70
Area: 226396
Amount: 2548.7663
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 230988
Amount: 2565.1105
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:21:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Lims ID: IC 810-161845/14-A
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 26-Sep-2025 19:42:21 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-013
 Misc. Info.: IC 810-161845/14-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:33 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:21:32

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	6.488	6.488	0.000	26	66301	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.643	-0.011	95	44212	500.0	489.7	
11 1,4-Dioxane	88	8.705	8.715	-0.010	84	484858	5000.0	5020.4	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:33

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D

Injection Date: 26-Sep-2025 19:42:21

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/14-A

Client ID:

Operator ID: BC

ALS Bottle#: 13

Worklist Smp#: 13

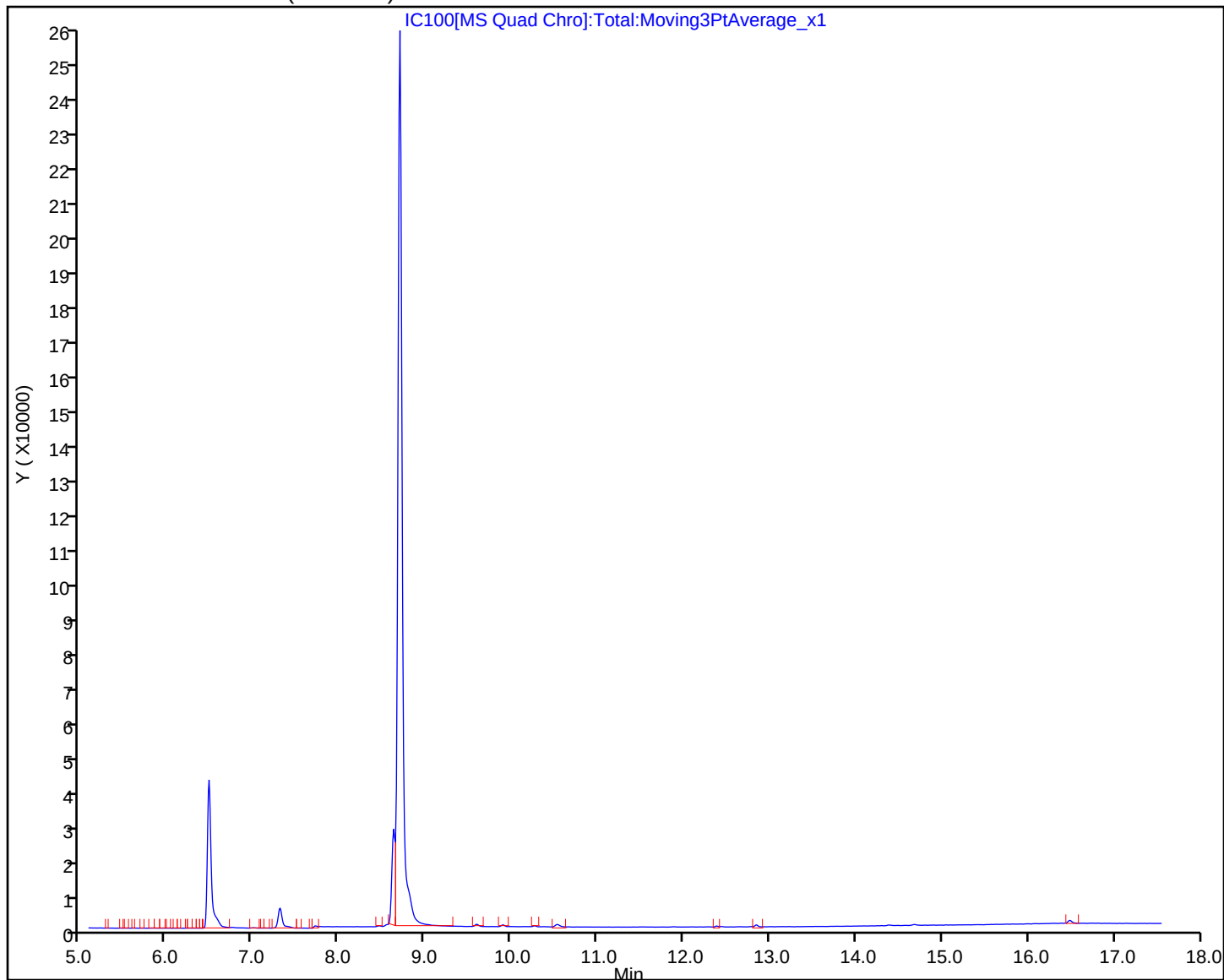
Injection Vol: 1.0 ul

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\20250926-41908.b\IC100.D

Injection Date: 26-Sep-2025 19:42:21

Instrument ID: GCMS-FE

Lims ID: IC 810-161845/14-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

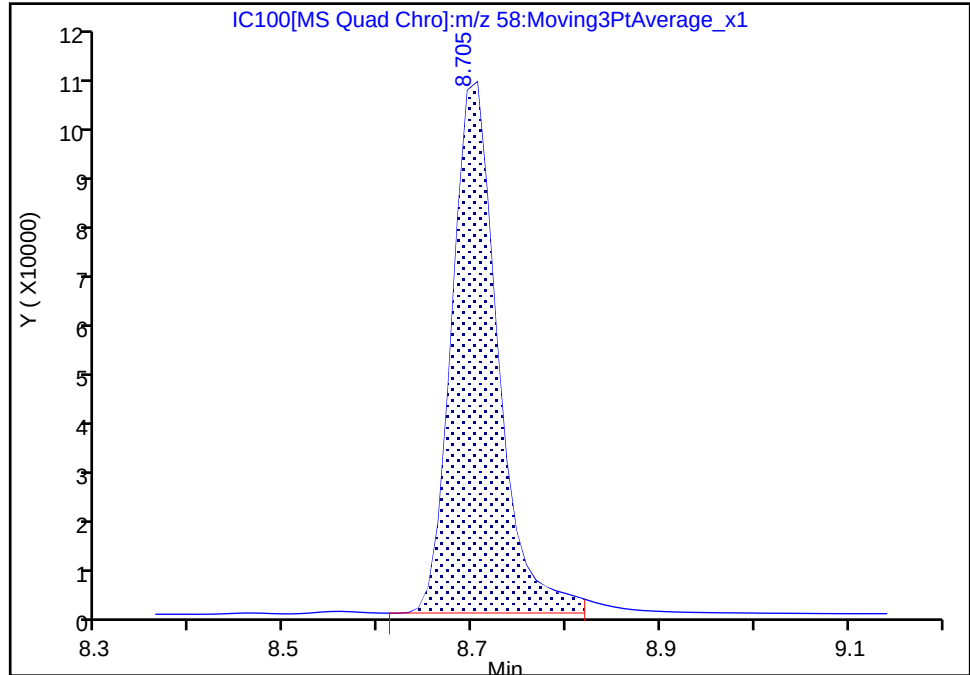
MS Quad

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

Signal: 2

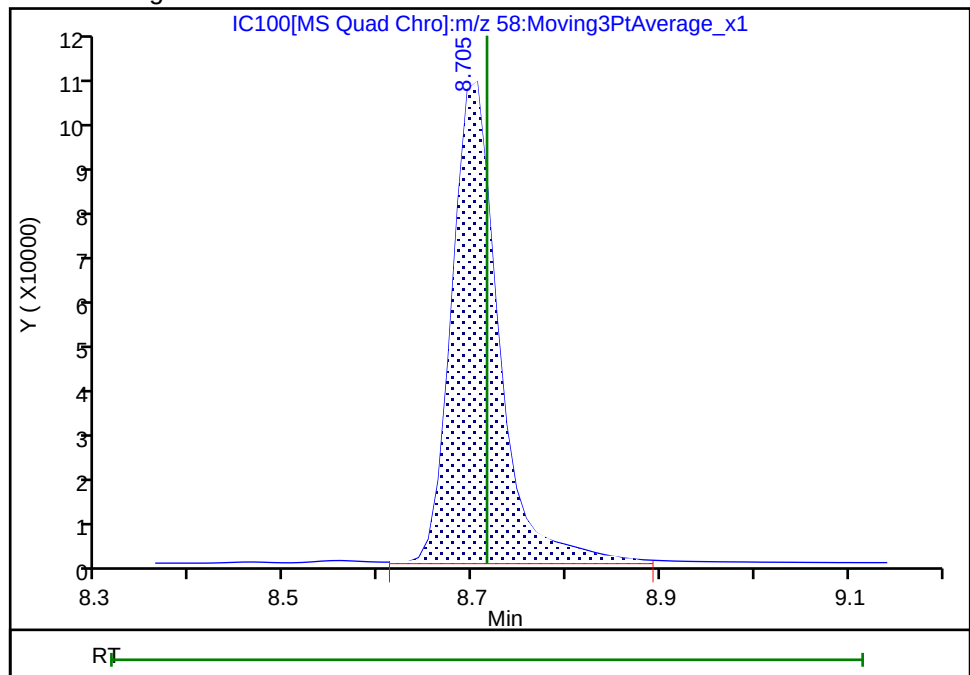
RT: 8.70
Area: 361663
Amount: 4985.0568
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 364541
Amount: 5020.4341
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:21:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Calibration

/ 1,4-Dioxane-d8 (Surr)

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

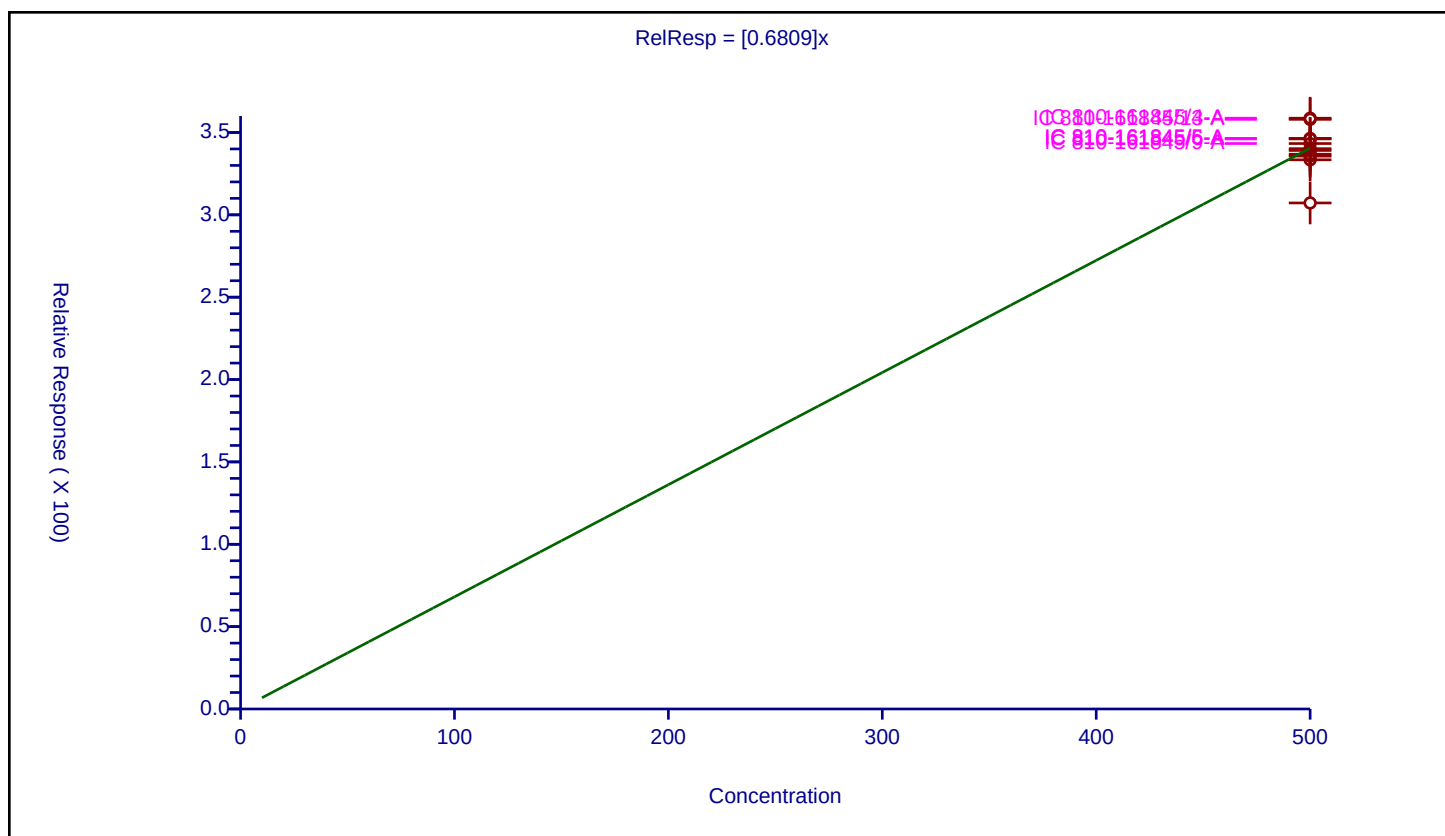
Curve Coefficients

Intercept: 0
Slope: 0.6809

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-161845/4-A	500.0	358.677864	500.0	60493.0	0.717356	Y
2	IC 810-161845/5-A	500.0	346.433906	500.0	64272.0	0.692868	Y
3	IC 810-161845/6-A	500.0	346.090662	500.0	61481.0	0.692181	Y
4	IC 810-161845/7-A	500.0	340.187682	500.0	67135.0	0.680375	Y
5	IC 810-161845/8-A	500.0	336.815838	500.0	66523.0	0.673632	Y
6	IC 810-161845/9-A	500.0	343.293075	500.0	65246.0	0.686586	Y
7	ICISAV 810-161845/10-A	500.0	307.223367	500.0	59709.0	0.614447	Y
8	IC 810-161845/11-A	500.0	339.07901	500.0	63410.0	0.678158	Y
9	IC 810-161845/12-A	500.0	335.643906	500.0	63837.0	0.671288	Y
10	IC 810-161845/13-A	500.0	357.981562	500.0	61830.0	0.715963	Y
11	IC 810-161845/14-A	500.0	333.418802	500.0	66301.0	0.666838	Y



Calibration

/ 1,4-Dioxane

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

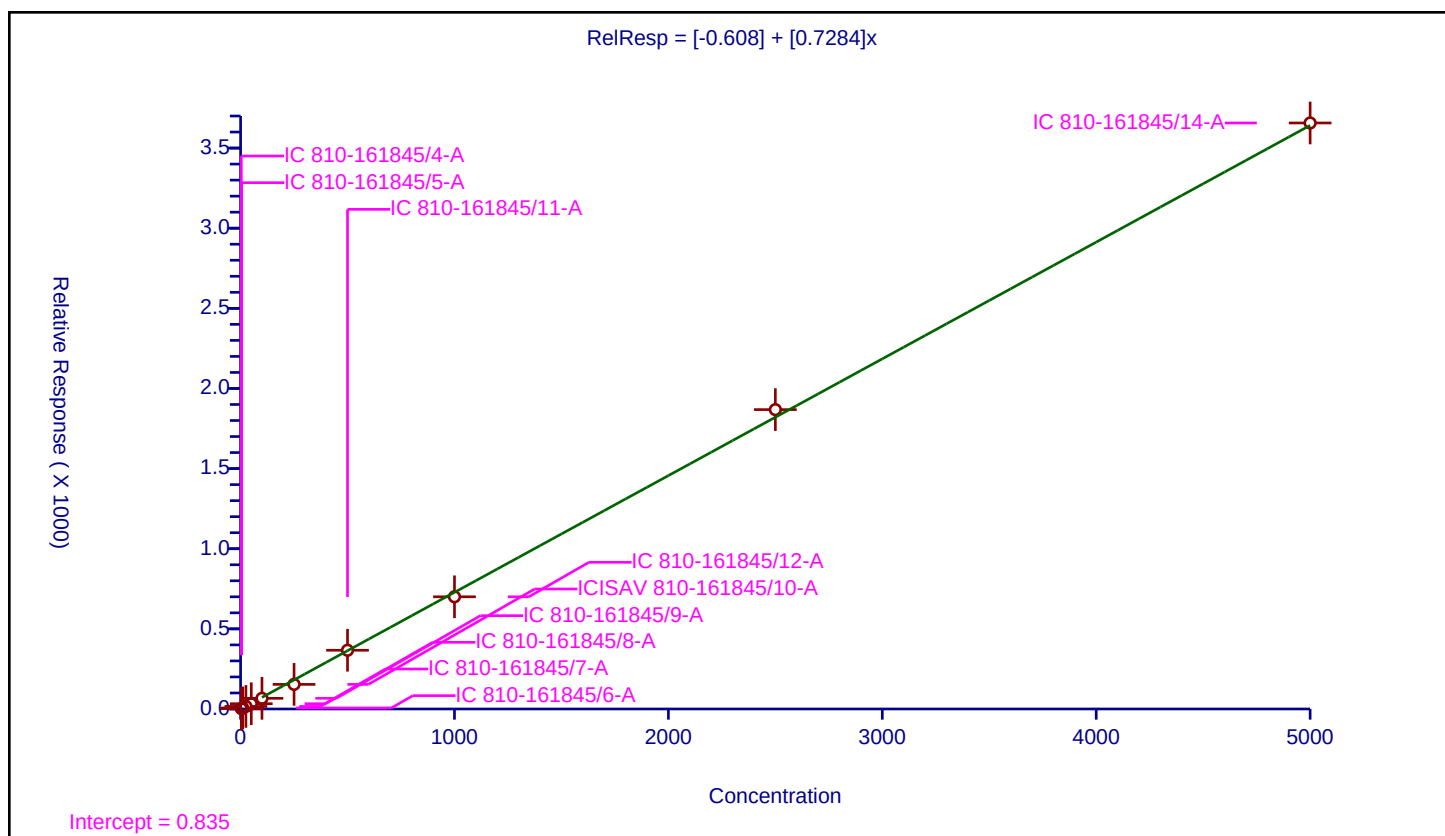
Curve Coefficients

Intercept: -0.608
Slope: 0.7284

Error Coefficients

Relative Standard Deviation: 12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 810-161845/4-A	3.5	2.644934	500.0	60493.0	0.755695	Y
2	IC 810-161845/5-A	5.0	3.60188	500.0	64272.0	0.720376	Y
3	IC 810-161845/6-A	10.0	6.48981	500.0	61481.0	0.648981	Y
4	IC 810-161845/7-A	25.0	15.967826	500.0	67135.0	0.638713	Y
5	IC 810-161845/8-A	50.0	32.778137	500.0	66523.0	0.655563	Y
6	IC 810-161845/9-A	100.0	66.502161	500.0	65246.0	0.665022	Y
7	ICISAV 810-161845/10-A	250.0	153.452578	500.0	59709.0	0.61381	Y
8	IC 810-161845/11-A	500.0	366.44851	500.0	63410.0	0.732897	Y
9	IC 810-161845/12-A	1000.0	700.056394	500.0	63837.0	0.700056	Y
10	IC 810-161845/13-A	2500.0	1867.92819	500.0	61830.0	0.747171	Y
11	IC 810-161845/14-A	5000.0	3656.490852	500.0	66301.0	0.731298	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1
SDG No.: _____
Lab Sample ID: ICV 810-161845/15-A Calibration Date: 09/26/2025 20:25
Instrument ID: GCMS-FE Calib Start Date: 09/26/2025 16:05
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 19:42
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		0.7946		274	250	109	80-120
1,4-Dioxane-d8 (Surr)	Ave	0.6809	0.7038		517	500	103	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\ICV.D
 Lims ID: ICV 810-161845/15-A
 Client ID:
 Sample Type: ICV
 Inject. Date: 26-Sep-2025 20:25:48 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-014
 Misc. Info.: ICV 810-161845/15-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist:
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:50 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:21:49

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	6.495	6.488	0.007	26	61591	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.642	8.643	-0.001	97	43350	500.0	516.9	
11 1,4-Dioxane	88	8.715	8.715	0.000	84	24471	250.0	273.5	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:59

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\ICV.D

Injection Date: 26-Sep-2025 20:25:48

Instrument ID: GCMS-FE

Lims ID: ICV 810-161845/15-A

Client ID:

Operator ID: BC

ALS Bottle#: 14

Worklist Smp#: 14

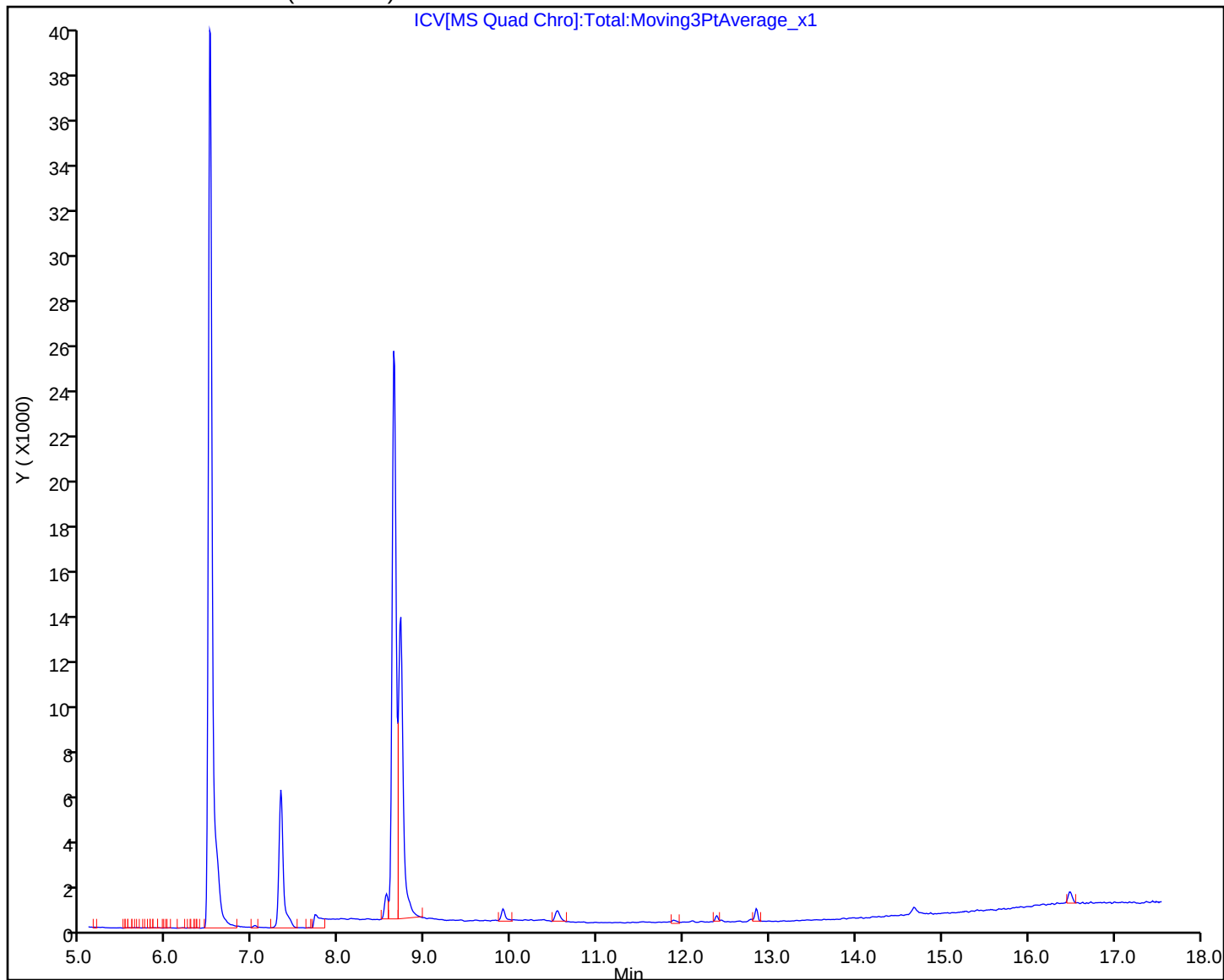
Injection Vol: 1.0 ul

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\20250926-41908.b\ICV.D

Injection Date: 26-Sep-2025 20:25:48

Instrument ID: GCMS-FE

Lims ID: ICV 810-161845/15-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)

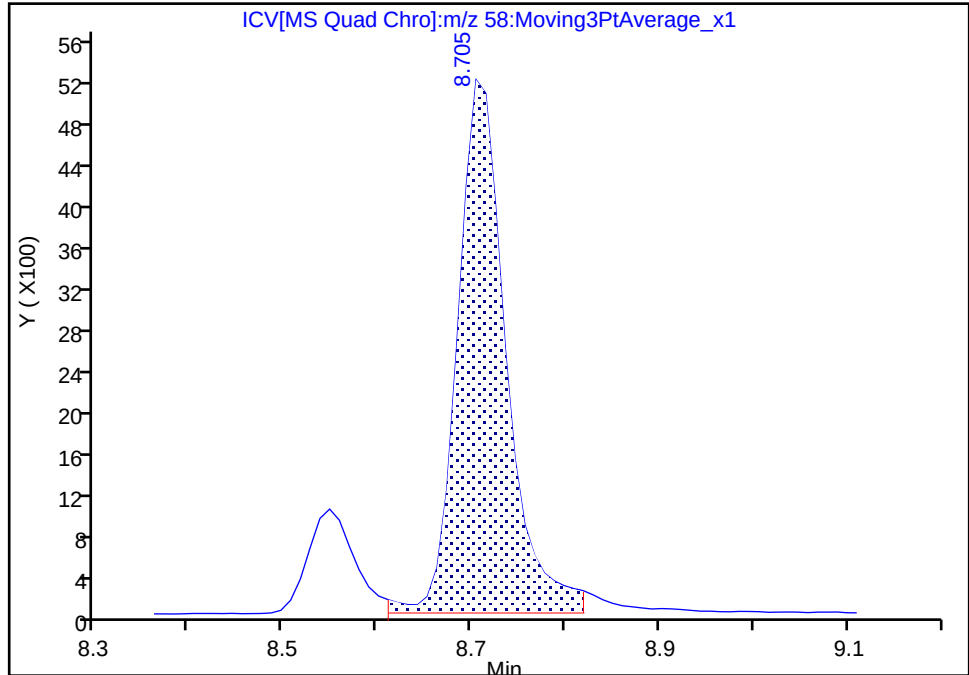
Detector: MS Quad

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

Signal: 2

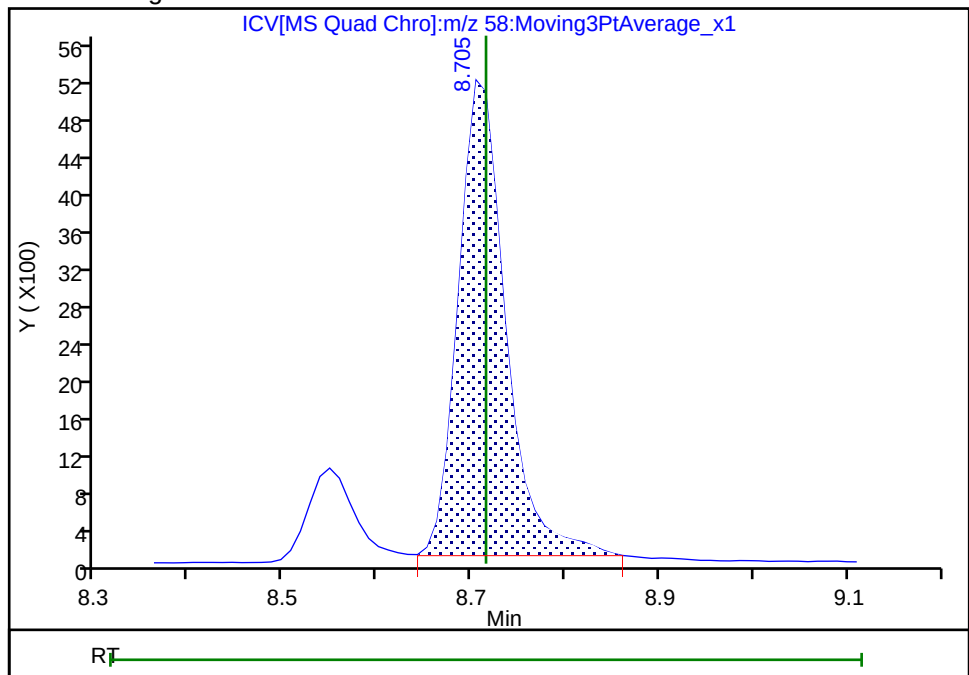
RT: 8.70
Area: 18473
Amount: 265.3139
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 17513
Amount: 273.5496
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:21:48 -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.: 810-165116-1
SDG No.: _____
Lab Sample ID: CCVLIS 810-162098/1- Calibration Date: 09/26/2025 20:47
Instrument ID: GCMS-FE Calib Start Date: 09/26/2025 16:05
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 19:42
Lab File ID: CCVL.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.7917		4.64	3.50	133	50-150
1,4-Dioxane-d8 (Surr)	Ave	0.6809	0.6967		512	500	102	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVL.D
 Lims ID: CCVLIS 810-162098/1-A
 Client ID:
 Sample Type: CCVLIS
 Inject. Date: 26-Sep-2025 20:47:32 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-015
 Misc. Info.: CCVLIS 810-162098/1-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:31:59 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:22:06

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	6.495	6.488	0.007	27	60626	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.642	8.643	-0.001	97	42241	500.0	511.7	
11 1,4-Dioxane	88	8.715	8.715	0.000	76	336	3.50	4.64	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:31:59

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVL.D

Injection Date: 26-Sep-2025 20:47:32

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-162098/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 15

Worklist Smp#: 15

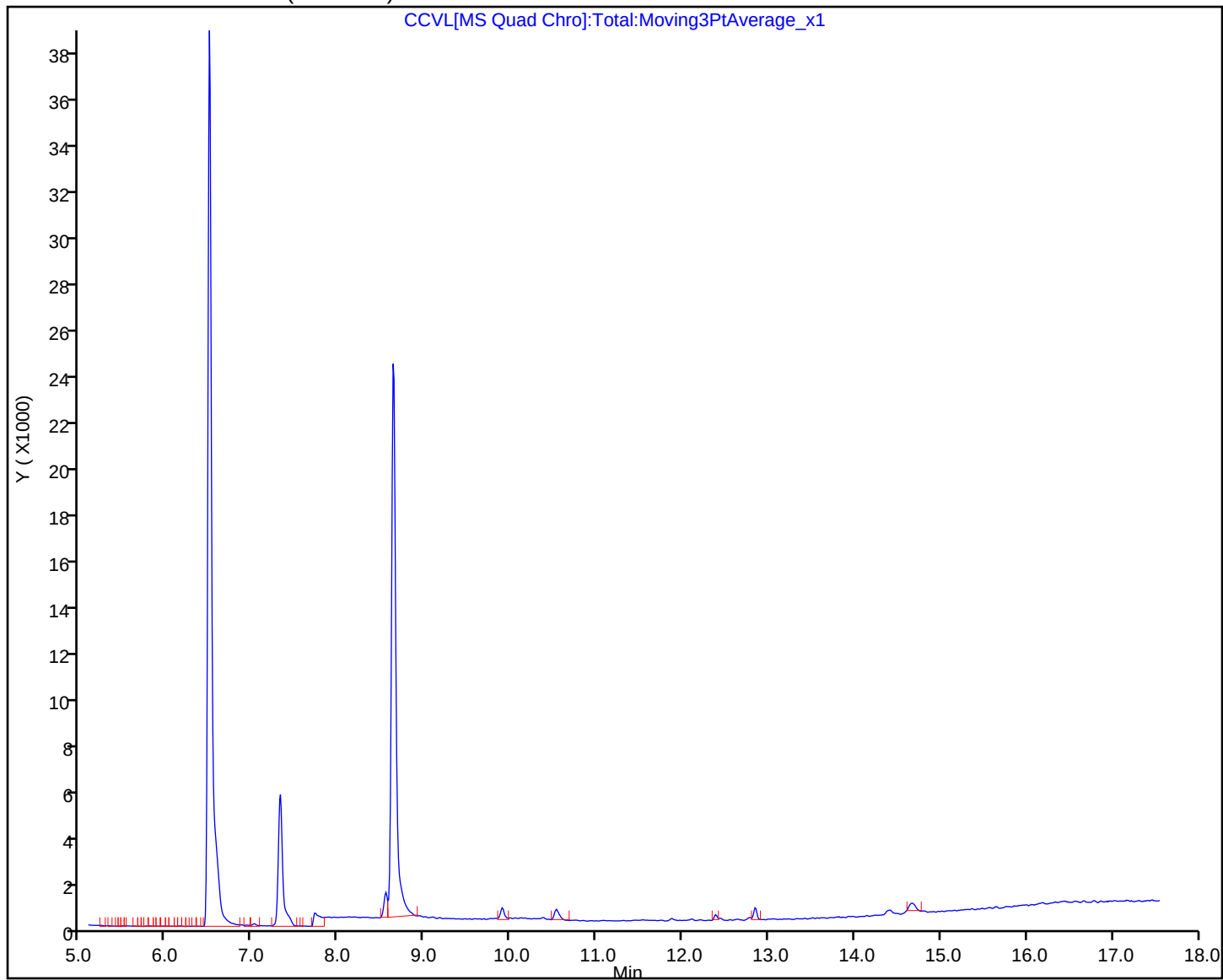
Injection Vol: 1.0 ul

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\20250926-41908.b\CCVL.D

Injection Date: 26-Sep-2025 20:47:32

Instrument ID: GCMS-FE

Lims ID: CCVLIS 810-162098/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

15

Worklist Smp#: 15

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

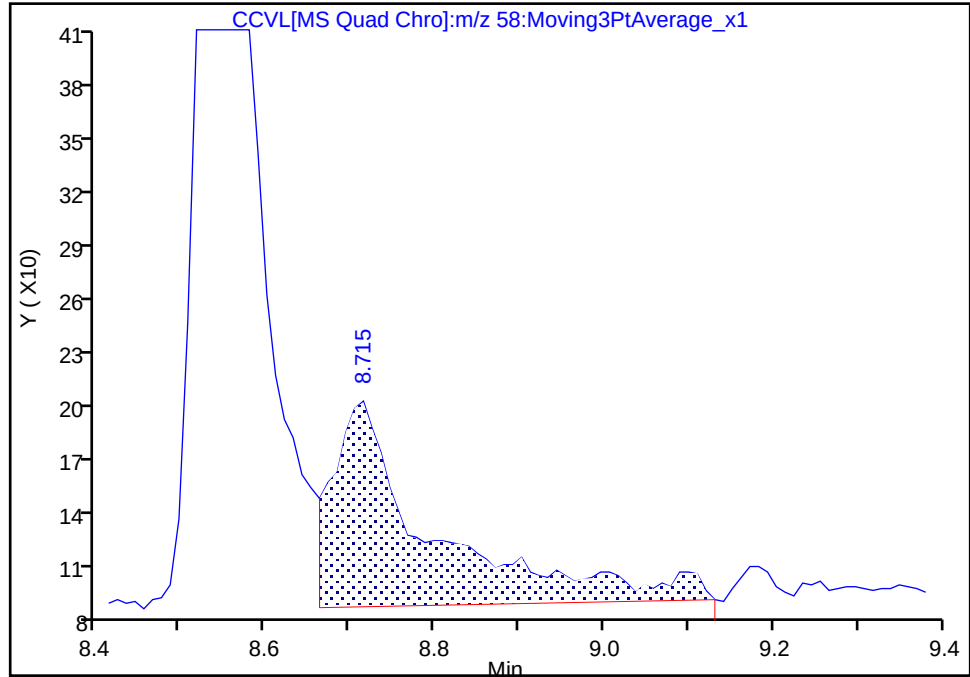
MS Quad

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

Signal: 2

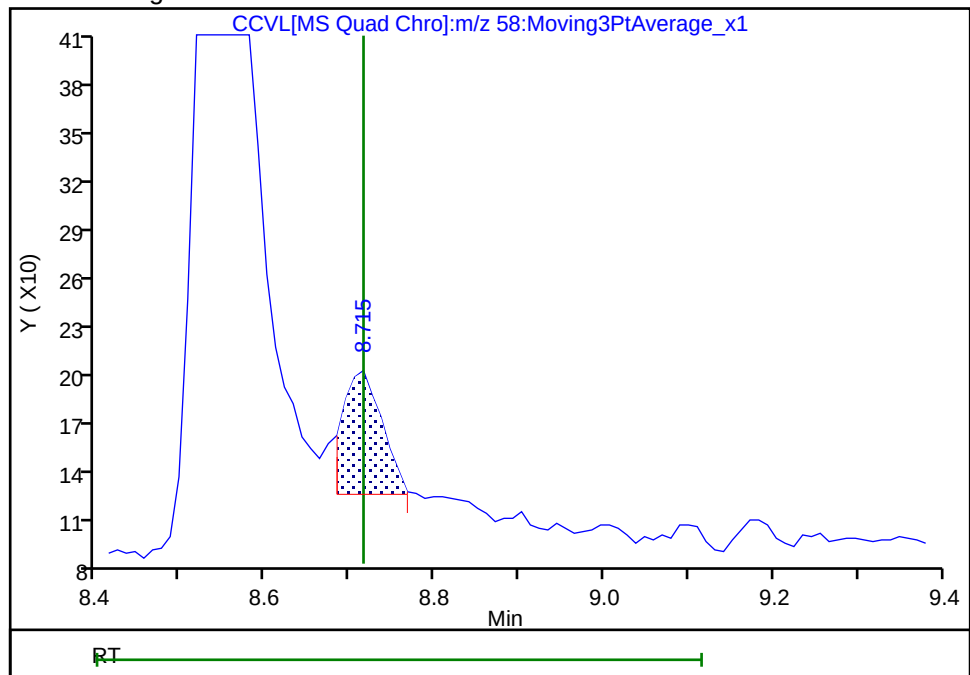
RT: 8.72
Area: 924
Amount: 7.876804
Amount Units: ug/l

Processing Integration Results



RT: 8.72
Area: 242
Amount: 4.638768
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:22:04 -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.: 810-165116-1
SDG No.: _____
Lab Sample ID: CCVIS 810-162098/2-A Calibration Date: 09/27/2025 01:51
Instrument ID: GCMS-FE Calib Start Date: 09/26/2025 16:05
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 19:42
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		0.6437		222	250	89	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.6809	0.7361		541	500	108	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVM.D
 Lims ID: CCVIS 810-162098/2-A
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Sep-2025 01:51:13 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-028
 Misc. Info.: CCVIS 810-162098/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:32:09 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:26:45

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	6.487	6.487	0.000	26	61548	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	45306	500.0	540.6	
11 1,4-Dioxane	88	8.715	8.715	0.000	84	19808	250.0	221.7	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:32:09

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVM.D

Injection Date: 27-Sep-2025 01:51:13

Instrument ID: GCMS-FE

Lims ID: CCVIS 810-162098/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 28

Worklist Smp#: 28

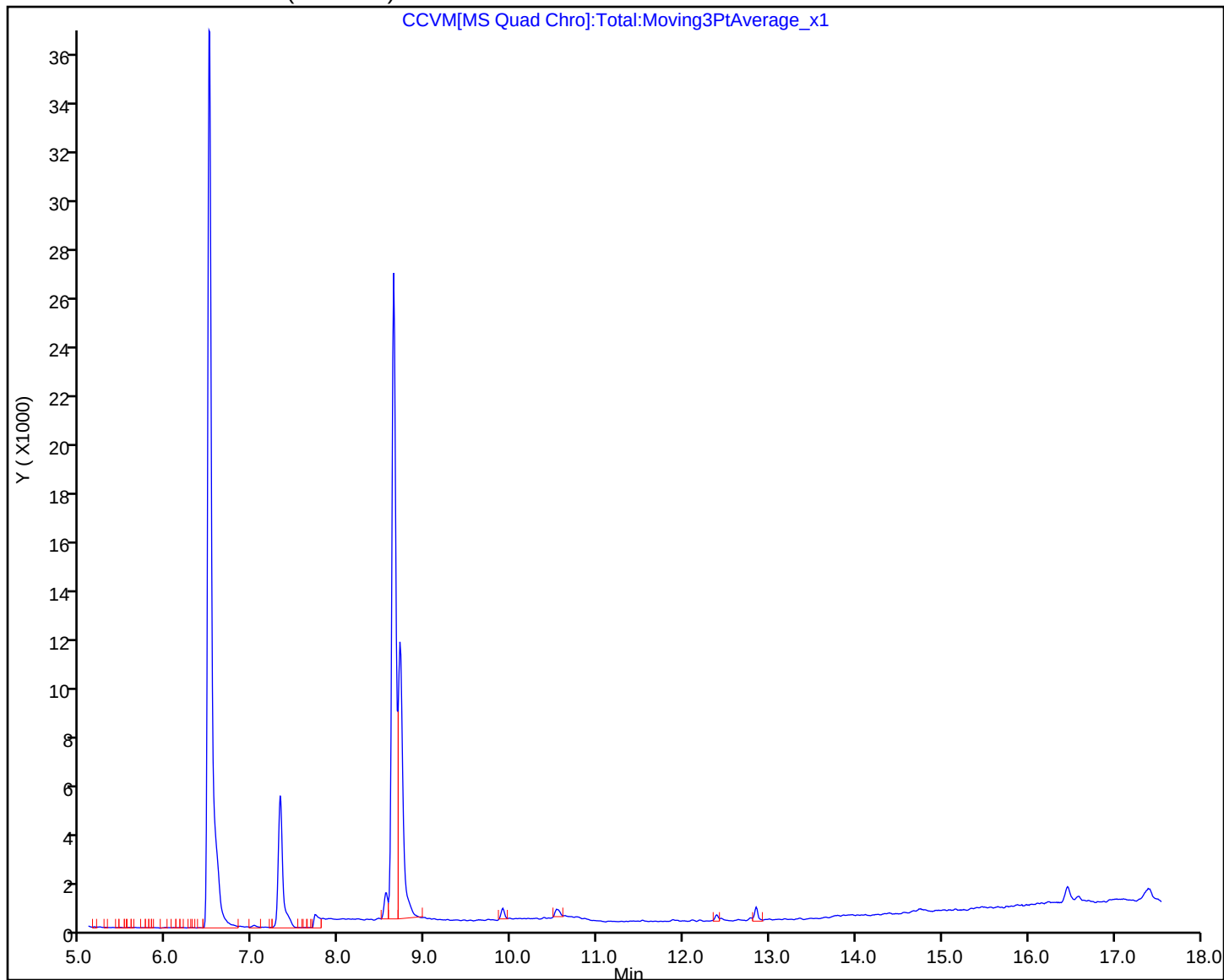
Injection Vol: 1.0 ul

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\20250926-41908.b\CCVM.D

Injection Date: 27-Sep-2025 01:51:13

Instrument ID: GCMS-FE

Lims ID: CCVIS 810-162098/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

28

Worklist Smp#:

28

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

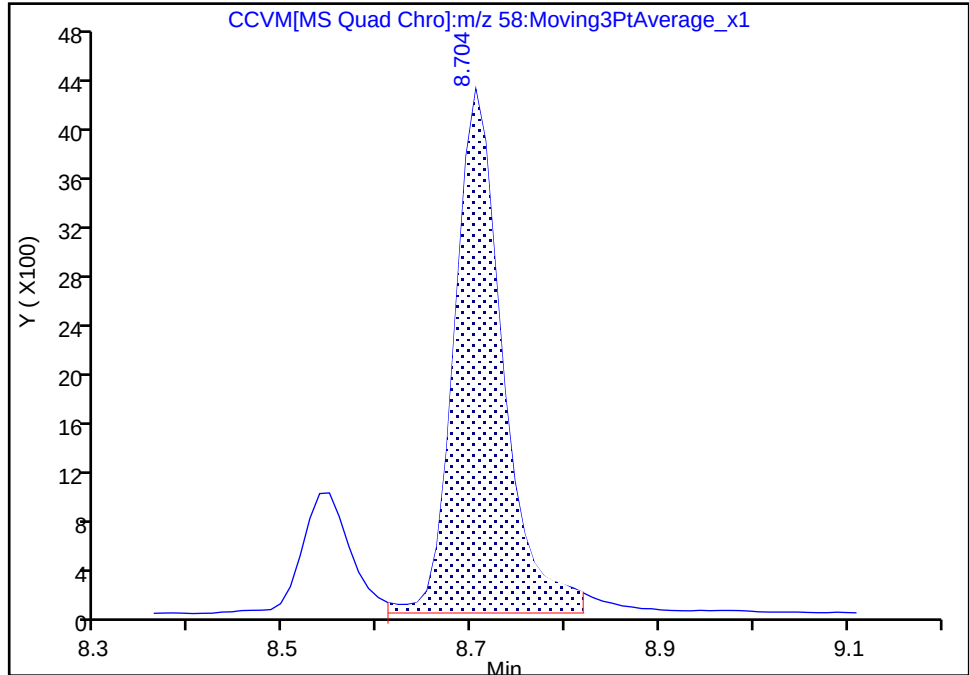
MS Quad

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

Signal: 2

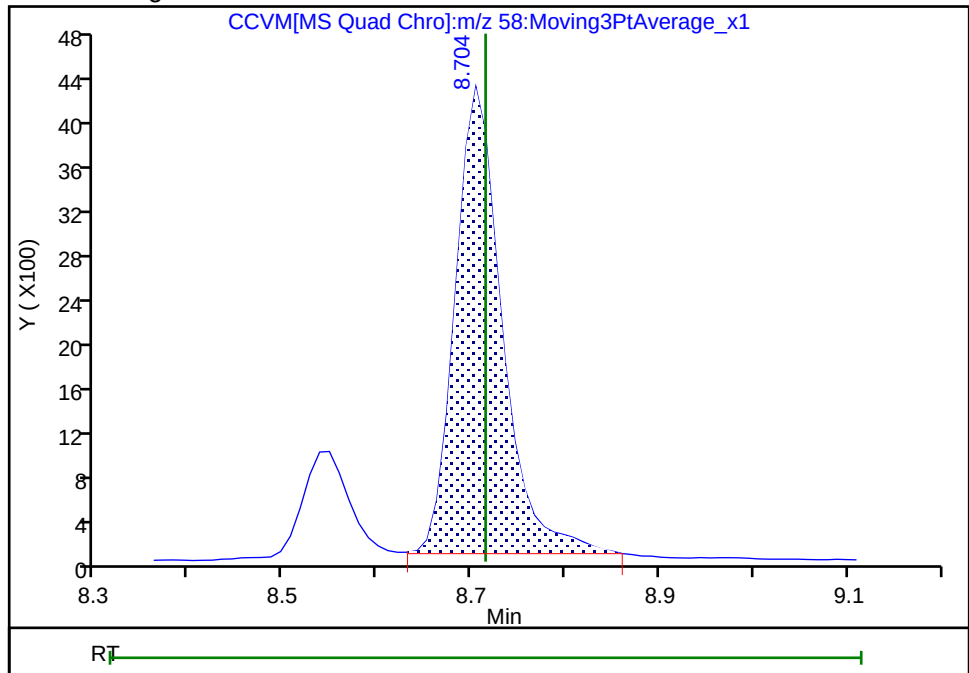
RT: 8.70
Area: 15205
Amount: 218.1911
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 14445
Amount: 221.7375
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:26:43 -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.: 810-165116-1
SDG No.: _____
Lab Sample ID: CCV 810-162098/3-A Calibration Date: 09/27/2025 06:33
Instrument ID: GCMS-FE Calib Start Date: 09/26/2025 16:05
GC Column: CPSelect 624 MS ID: 0.25 (mm) Calib End Date: 09/26/2025 19:42
Lab File ID: CCVH.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
1,4-Dioxane	Lin1		0.6644		2280	2500	91	70-130
1,4-Dioxane-d8 (Surr)	Ave	0.6809	0.7056		518	500	104	70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVH.D
 Lims ID: CCV 810-162098/3-A
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Sep-2025 06:33:08 ALS Bottle#: 41 Worklist Smp#: 41
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-041
 Misc. Info.: CCV 810-162098/3-A
 Operator ID: BC Instrument ID: GCMS-FE
 Sublist: chrom-522_GCMS-FE*sub1
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:32:18 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:31:13

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	6.487	6.487	0.000	27	63436	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.632	8.632	0.000	95	44761	500.0	518.2	
11 1,4-Dioxane	88	8.705	8.715	-0.010	84	210728	2500.0	2281.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:32:18

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\CCVH.D

Injection Date: 27-Sep-2025 06:33:08

Instrument ID: GCMS-FE

Lims ID: CCV 810-162098/3-A

Client ID:

Operator ID: BC

ALS Bottle#: 41

Worklist Smp#: 41

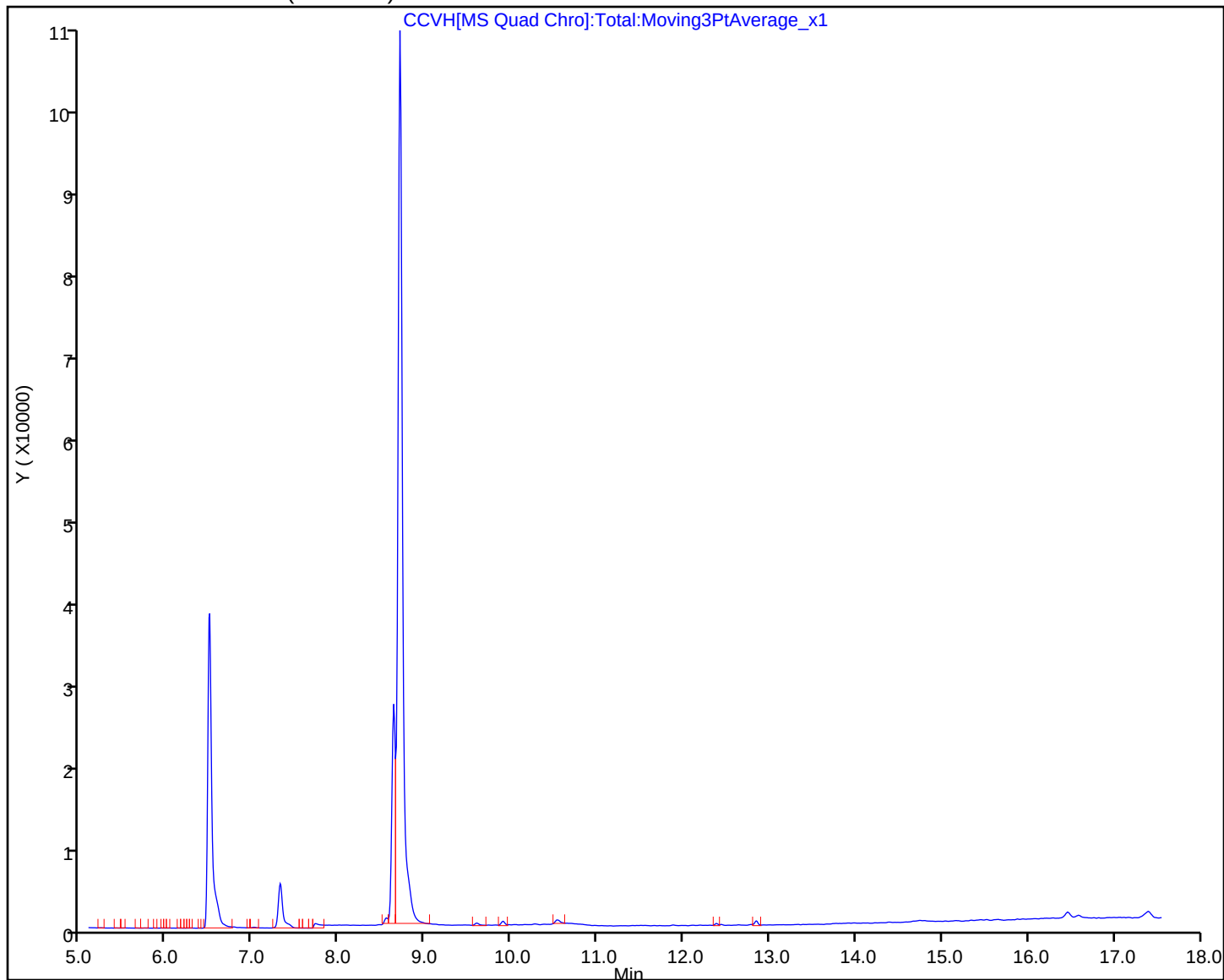
Injection Vol: 1.0 ul

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\20250926-41908.b\CCVH.D

Injection Date: 27-Sep-2025 06:33:08

Instrument ID: GCMS-FE

Lims ID: CCV 810-162098/3-A

Client ID:

Operator ID: BC

ALS Bottle#:

41

Worklist Smp#:

41

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

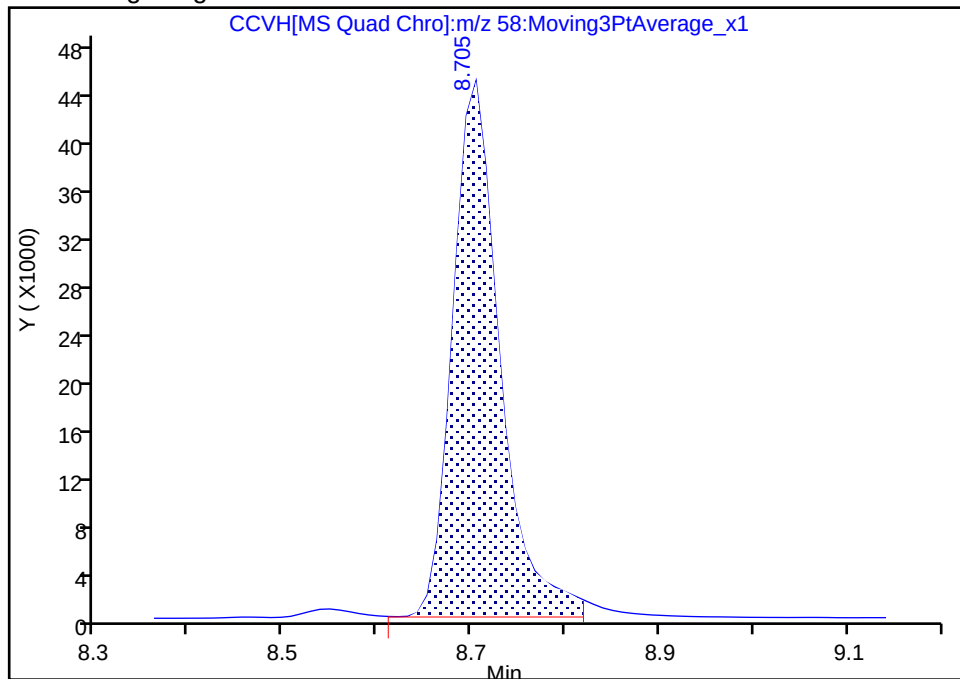
MS Quad

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

Signal: 2

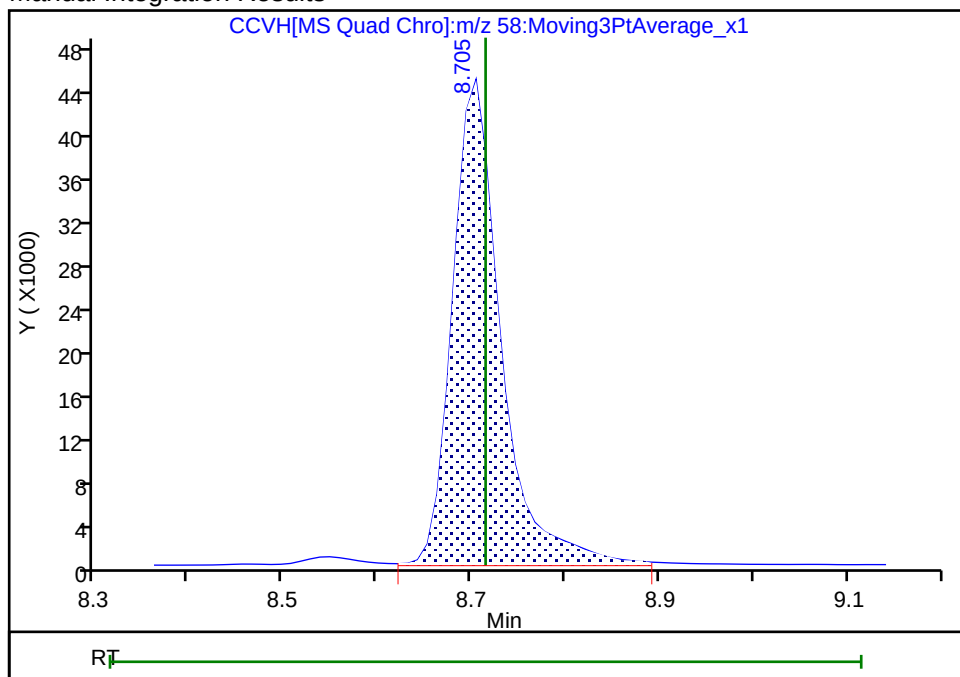
RT: 8.70
Area: 157483
Amount: 2233.4602
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 159115
Amount: 2280.9721
Amount Units: ug/l

Manual Integration Results



Reviewer: JH8B, 29-Sep-2025 08:31:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\BFB 1.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Sep-2025 15:17:02 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 2.0 mL Dil. Factor: 1.0000
Sample Info: 810-0041908-001
Misc. Info.: BFB 1
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed

Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 29-Sep-2025 08:31:50 Calib Date: 26-Sep-2025 19:42:21
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D

Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:18:40

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

Processing Flags

Reagents:

O-522BFBSUB_00027

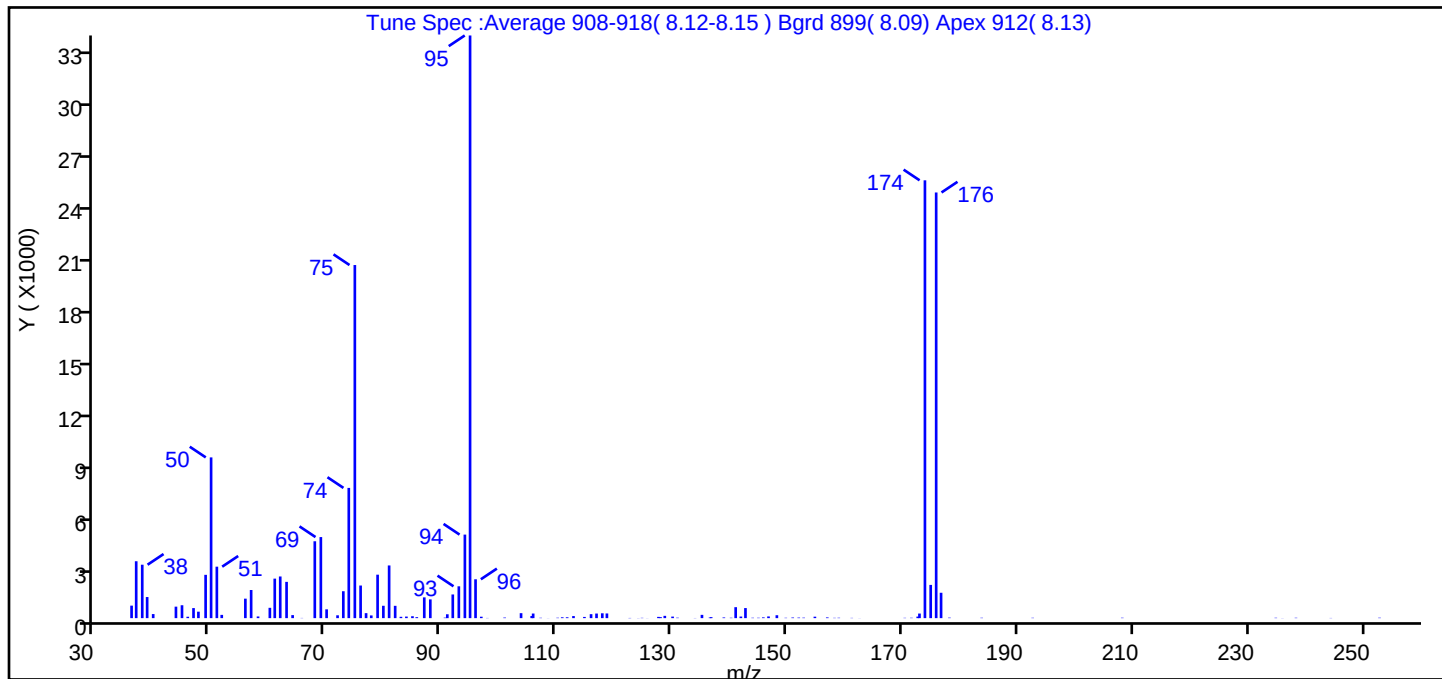
Amount Added: 1.00

Units: mL

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\BFB 1.D
Injection Date: 26-Sep-2025 15:17:02 Instrument ID: GCMS-FE
Lims ID: BFB
Client ID:
Operator ID: BC ALS Bottle#: 2 Worklist Smp#: 1
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	27.6
75	30-80% of mass 95	60.6
96	5-9% of mass 95	6.7
173	<2% of mass 174	1.1 (1.4)
174	>50% of mass 95	75.1
175	5-9% of mass 174	5.7 (7.6)
176	>95% but <101% of mass 174	73.1 (97.2)
177	5-9% of mass 176	4.4 (6.0)

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\BFB 1.D\522_GCMS-FE.rslt\spectra.d
Injection Date: 26-Sep-2025 15:17:02
Spectrum: Tune Spec :Average 908-918(8.12-8.15) Bgrd 899(8.09) Apex 912(8.13)
Base Peak: 94.95
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	724	76.00	1888	112.00	50	148.00	169
37.00	3294	77.00	289	113.00	120	150.00	21
38.00	3093	78.00	157	115.00	70	151.00	36
39.00	1222	79.00	2516	116.00	230	152.00	32
40.00	236	80.00	716	117.00	266	153.00	28
44.00	665	81.00	3050	118.00	281	155.00	84
45.00	747	82.00	713	119.00	271	157.00	42
46.00	81	83.00	78	123.00	5	158.00	18
47.00	582	84.00	91	123.00	12	159.00	23
48.00	374	85.00	110	124.00	7	161.00	15
49.00	2507	86.00	57	125.00	18	163.00	5
50.00	9305	87.00	1202	126.00	5	170.00	18
51.00	2979	88.00	1086	128.00	73	172.00	22
52.00	189	91.00	30	128.00	58	173.00	90
56.00	1128	91.00	224	129.00	133	173.00	266
57.00	1629	92.00	1371	130.00	90	174.00	25344
58.00	97	93.00	1843	131.00	26	175.00	1924
60.00	598	94.00	4836	134.00	9	176.00	24640
61.00	2287	95.00	33728	135.00	190	177.00	1469
62.00	2412	96.00	2250	137.00	36	178.00	29
63.00	2100	97.00	83	137.00	57	184.00	22
64.00	176	98.00	11	139.00	40	193.00	21
66.00	12	101.00	33	140.00	23	208.00	24
68.00	4450	104.00	288	141.00	635	235.00	22
69.00	4693	106.00	125	142.00	92	236.00	6
70.00	510	106.00	267	143.00	583	238.00	22
72.00	165	107.00	21	144.00	23	244.00	11
73.00	1558	108.00	5	145.00	23	253.00	25
74.00	7539	110.00	24	146.00	44		
75.00	20440	111.00	49	147.00	99		

Report Date: 29-Sep-2025 08:31:51

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\BFB 1.D

Injection Date: 26-Sep-2025 15:17:02

Instrument ID: GCMS-FE

Lims ID: BFB

Client ID:

Operator ID: BC

ALS Bottle#:

2

Worklist Smp#:

1

Injection Vol: 2.0 mL

Dil. Factor:

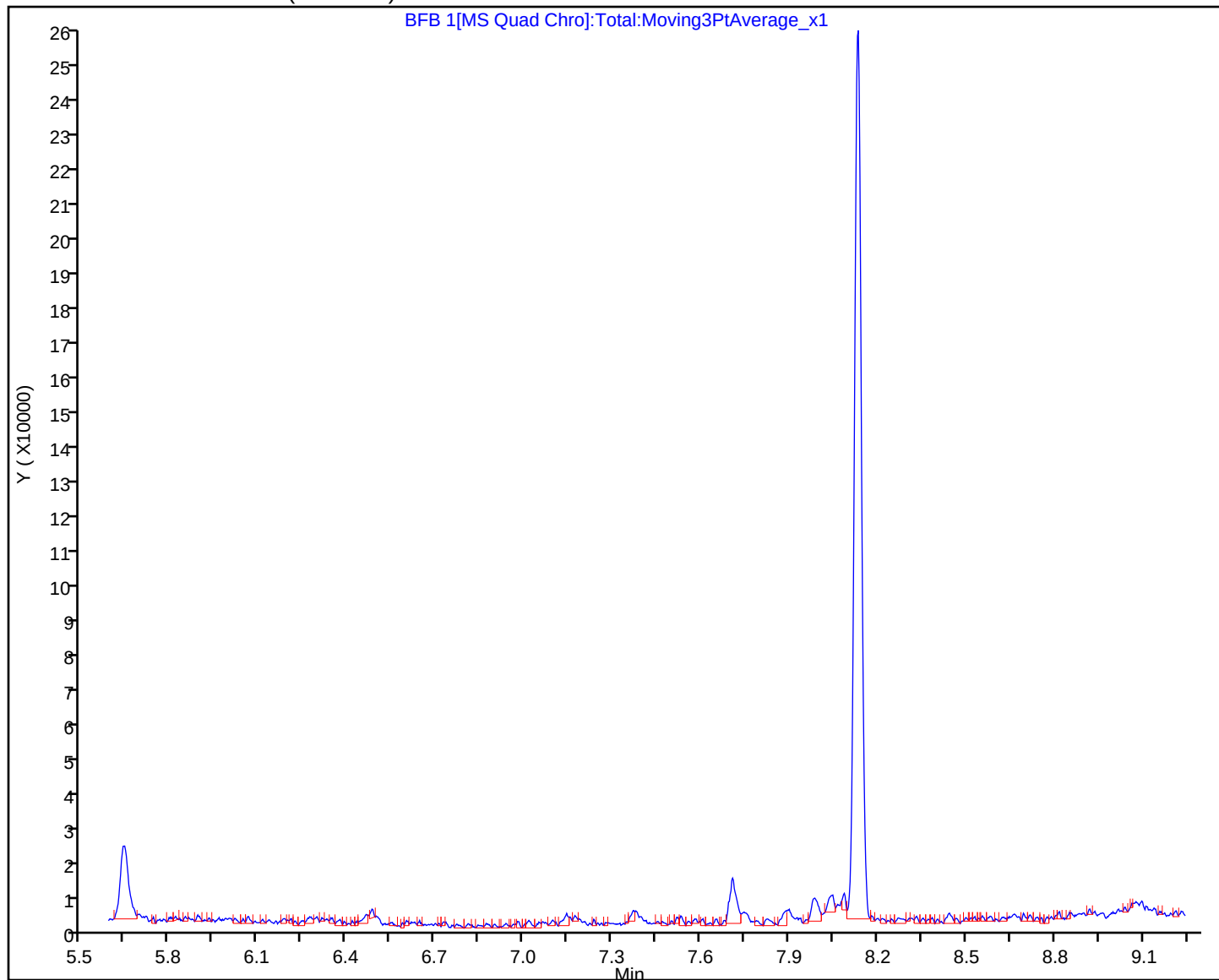
1.0000

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.: 810-165116-1
SDG No.:
Client Sample ID: Lab Sample ID: MBL 810-162040/1-A
Matrix: Drinking Water Lab File ID: MBL.D
Analysis Method: 522 Date Collected:
Extract. Method: 522 Date Extracted: 09/26/2025 09:14
Sample wt/vol: 100 (mL) Date Analyzed: 09/26/2025 21:31
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.: 162117 Units: ug/L
Preparation Batch No.: 162040 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)	100		70-130

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\MBL.D
Lims ID: MBL 810-162040/1-A
Client ID:
Sample Type: MBL
Inject. Date: 26-Sep-2025 21:31:01 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0041908-016
Misc. Info.: MBL 810-162040/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 30-Sep-2025 08:07:54 Calib Date: 26-Sep-2025 19:42:21
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: JH8B

Date: 30-Sep-2025 08:07:54

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	6.495	6.487	0.008	26	55633	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.643	8.632	0.011	97	37832	500.0	499.4	
11 1,4-Dioxane	88		8.715					ND	MU
10 BFB									

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Report Date: 30-Sep-2025 08:08:00

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\MBL.D

Injection Date: 26-Sep-2025 21:31:01

Instrument ID: GCMS-FE

Lims ID: MBL 810-162040/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 16

Worklist Smp#: 16

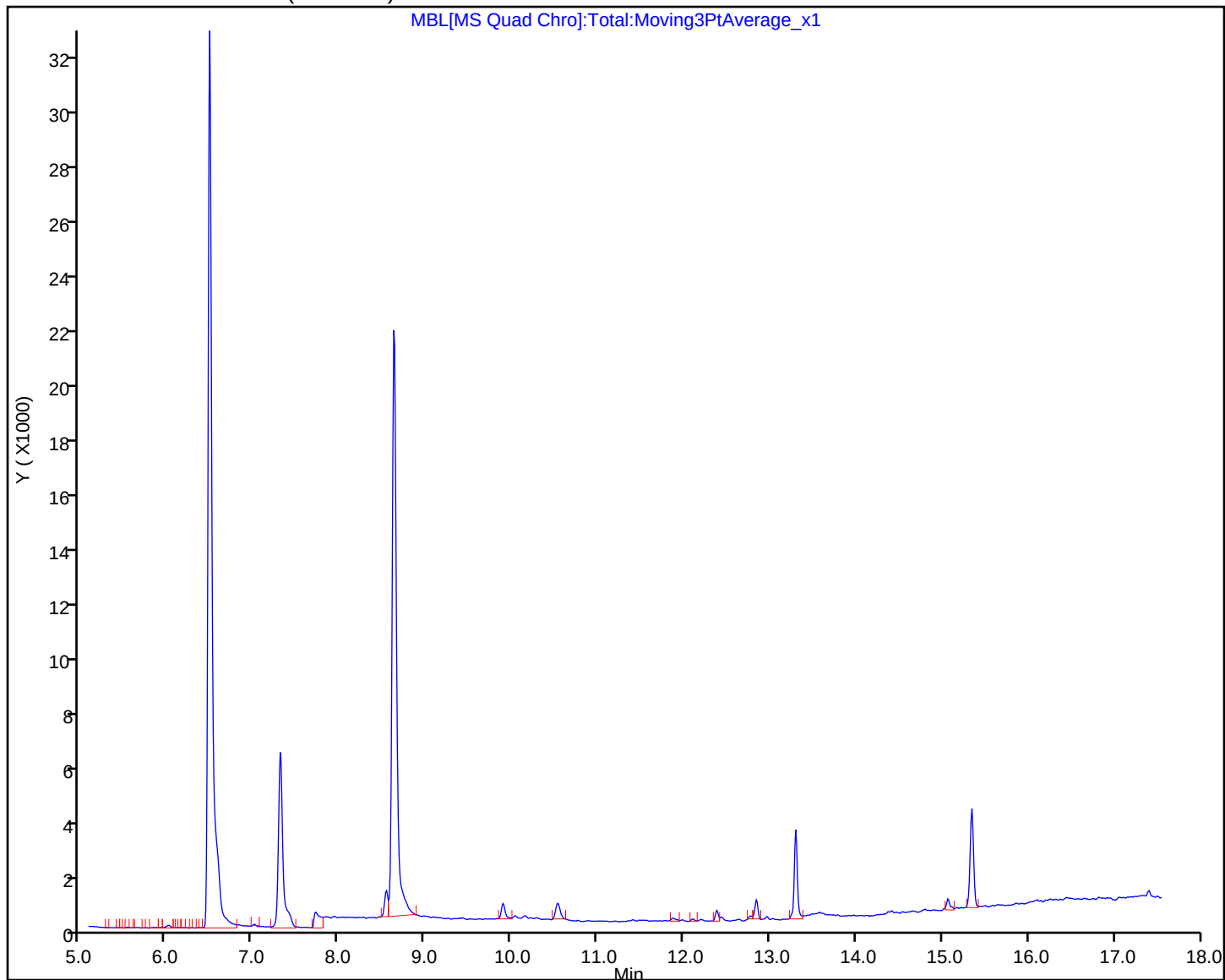
Injection Vol: 1.0 ul

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\20250926-41908.b\MBL.D
Lims ID: MBL 810-162040/1-A
Client ID:
Sample Type: MBL
Inject. Date: 26-Sep-2025 21:31:01 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0041908-016
Misc. Info.: MBL 810-162040/1-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 30-Sep-2025 08:07:54 Calib Date: 26-Sep-2025 19:42:21
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: JH8B

Date: 30-Sep-2025 08:07:54

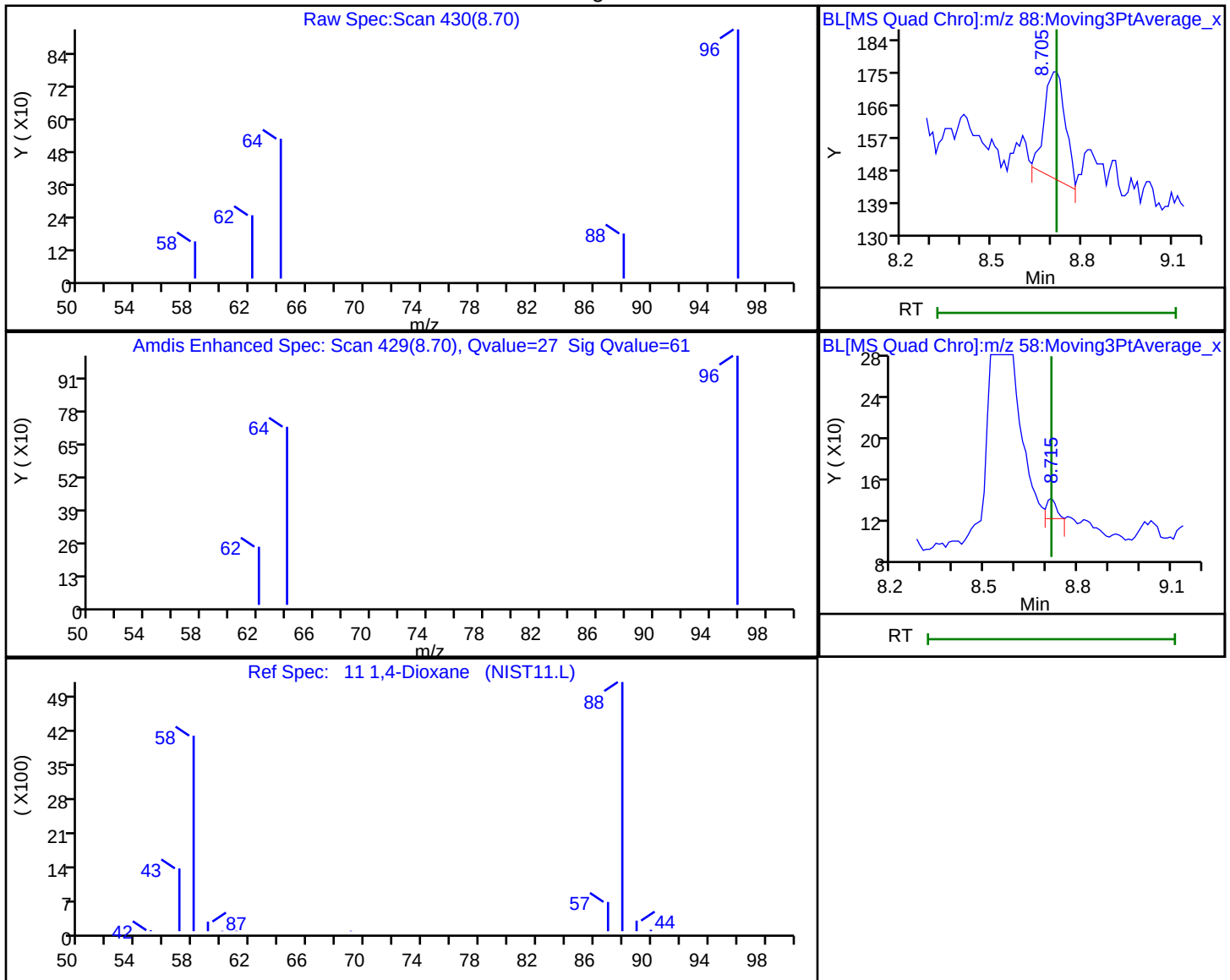
Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	499.4	99.87

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\MBL.D
Injection Date: 26-Sep-2025 21:31:01 Instrument ID: GCMS-FE
Lims ID: MBL 810-162040/1-A
Client ID:
Operator ID: BC ALS Bottle#: 16 Worklist Smp#: 16
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
8.70	88.00	147	2.648316
8.72	58.00	44	

Reviewer: JH8B, 30-Sep-2025 08:07:49 -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.: 810-165116-1
SDG No.:	
Client Sample ID:	Lab Sample ID: LLCS 810-162040/2-A
Matrix: Drinking Water	Lab File ID: LLCS.D
Analysis Method: 522	Date Collected:
Extract. Method: 522	Date Extracted: 09/26/2025 09:14
Sample wt/vol: 100 (mL)	Date Analyzed: 09/26/2025 21:52
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.: 162117	Units: ug/L
Preparation Batch No.: 162040	Instrument ID: GCMS-FE

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.0960		0.070	0.062

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

Eurofins Eaton Analytical South Bend
Target Compound Quantitation Report

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\LLCS.D
 Lims ID: LLCS 810-162040/2-A
 Client ID:
 Sample Type: LLCS
 Inject. Date: 26-Sep-2025 21:52:41 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 810-0041908-017
 Misc. Info.: LLCS 810-162040/2-A
 Operator ID: BC Instrument ID: GCMS-FE
 Raw Data: Smoothed
 Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
 Limit Group: MSS - 522
 Last Update: 29-Sep-2025 08:32:18 Calib Date: 26-Sep-2025 19:42:21
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
 Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
 Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:22:50

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	6.487	6.487	0.000	27	59213	500.0	500.0	
\$ 9 1,4-Dioxane-d8 (Surr)	96	8.642	8.632	0.010	96	36249	500.0	449.5	
11 1,4-Dioxane	88	8.726	8.715	0.011	84	342	3.50	4.80	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 29-Sep-2025 08:33:07

Chrom Revision: 2.3 13-Aug-2025 14:00:00

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\LLCS.D

Injection Date: 26-Sep-2025 21:52:41

Instrument ID: GCMS-FE

Lims ID: LLCS 810-162040/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 17

Worklist Smp#: 17

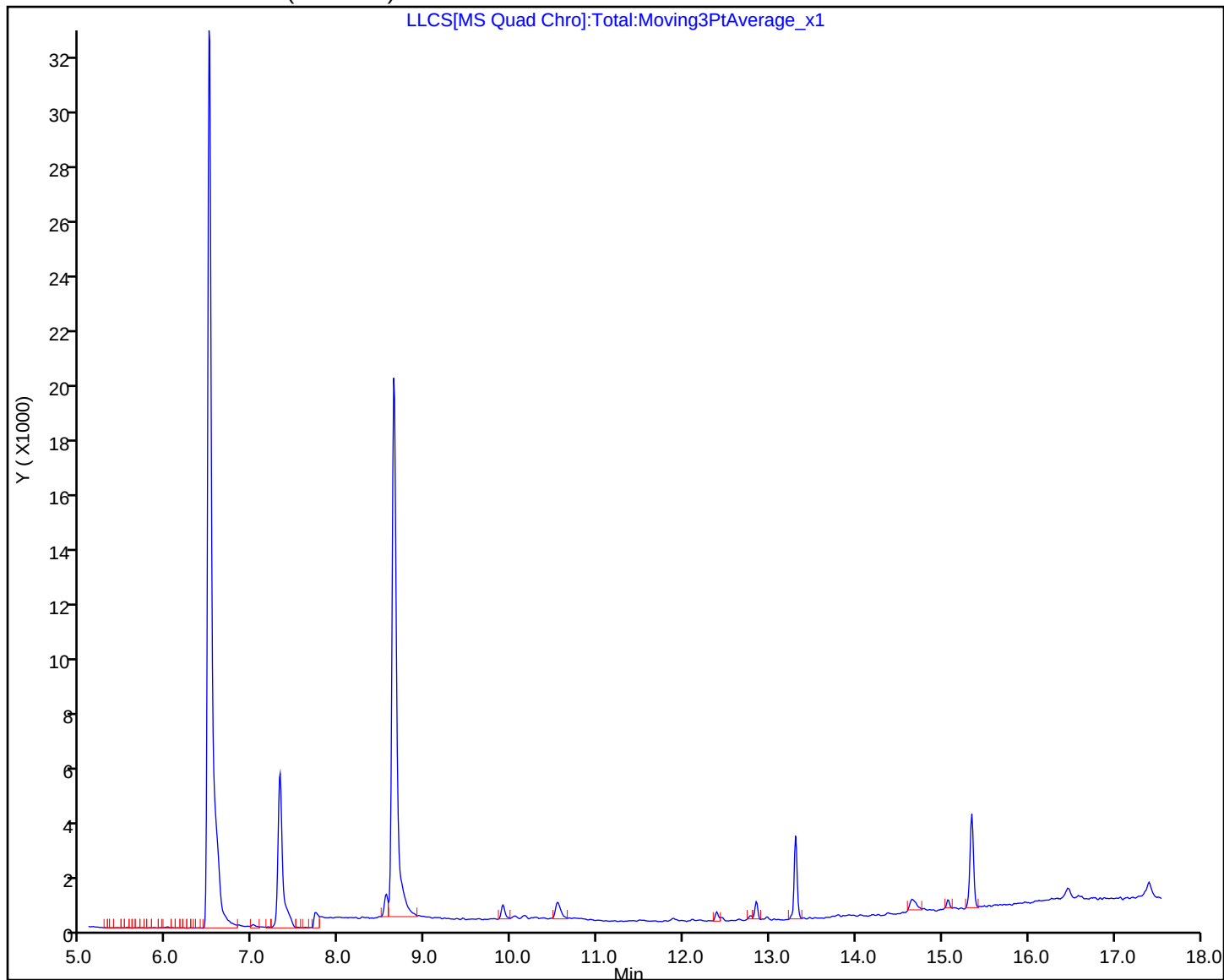
Injection Vol: 1.0 ul

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\20250926-41908.b\LLCS.D
Lims ID: LLCS 810-162040/2-A
Client ID:
Sample Type: LLCS
Inject. Date: 26-Sep-2025 21:52:41 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 810-0041908-017
Misc. Info.: LLCS 810-162040/2-A
Operator ID: BC Instrument ID: GCMS-FE
Raw Data: Smoothed
Method: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\522_GCMS-FE.m
Limit Group: MSS - 522
Last Update: 29-Sep-2025 08:32:18 Calib Date: 26-Sep-2025 19:42:21
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\IC100.D
Column 1 : CP Select 624 MS (0.25 mm) Det: MS Quad
Process Host: CTX1719

First Level Reviewer: JH8B

Date: 29-Sep-2025 08:22:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,4-Dioxane-d8 (Surr)	500.0	449.5	89.91

Eurofins Eaton Analytical South Bend

Data File: \\ChromFS\Southbend\ChromData\GCMS-FE\20250926-41908.b\LLCS.D

Injection Date: 26-Sep-2025 21:52:41

Instrument ID: GCMS-FE

Lims ID: LLCS 810-162040/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

17

Worklist Smp#: 17

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

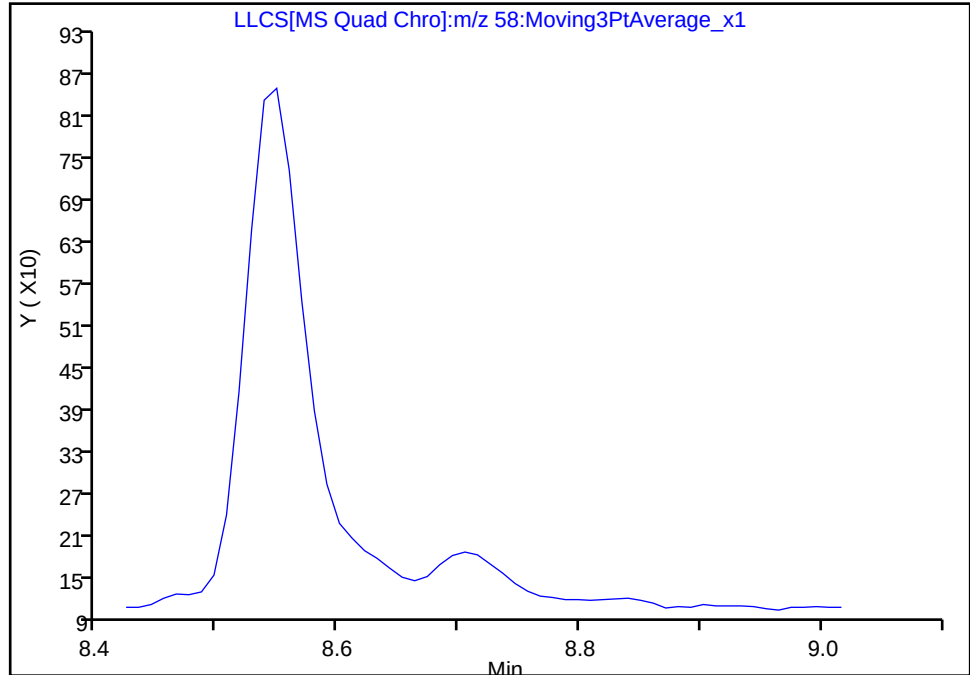
11 1,4-Dioxane, CAS: 123-91-1

Signal: 2

Not Detected

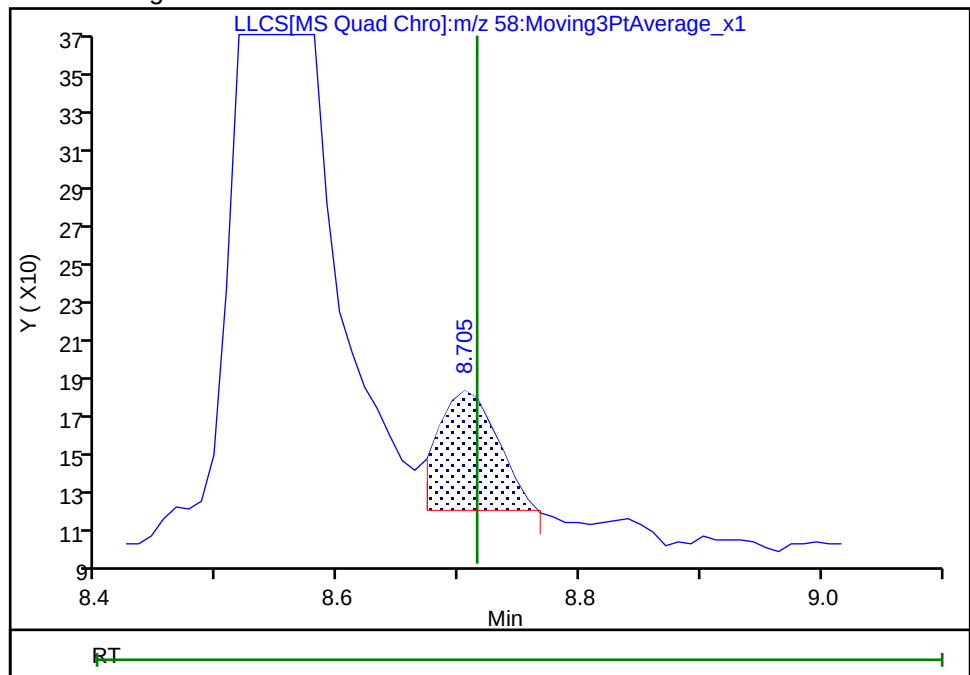
Expected RT: 8.71

Processing Integration Results



Manual Integration Results

RT: 8.70
Area: 216
Amount: 4.799097
Amount Units: ug/l



Reviewer: JH8B, 29-Sep-2025 08:22:48 -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.: 810-165116-1

SDG No.:

Instrument ID: GCMS-FE

Start Date: 09/26/2025 15:17

Analysis Batch Number: 162117

End Date: 09/27/2025 06:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 810-162117/1		09/26/2025 15:17	1	BFB 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/4-A		09/26/2025 16:05	1	IC 007.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/5-A		09/26/2025 16:26	1	IC 01.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/6-A		09/26/2025 16:48	1	IC 02.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/7-A		09/26/2025 17:10	1	IC 05.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/8-A		09/26/2025 17:31	1	IC 1.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/9-A		09/26/2025 17:53	1	IC 2.D	CPSelect 624 MS 0.25 (mm)
ICISAV 810-161845/10-A		09/26/2025 18:15	1	IC 5.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/11-A		09/26/2025 18:37	1	IC 10.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/12-A		09/26/2025 18:58	1	IC 20.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/13-A		09/26/2025 19:20	1	IC 50.D	CPSelect 624 MS 0.25 (mm)
IC 810-161845/14-A		09/26/2025 19:42	1	IC100.D	CPSelect 624 MS 0.25 (mm)
ICV 810-161845/15-A		09/26/2025 20:25	1	ICV.D	CPSelect 624 MS 0.25 (mm)
CCVLIS 810-162098/1-A		09/26/2025 20:47	1	CCVL.D	CPSelect 624 MS 0.25 (mm)
MBL 810-162040/1-A		09/26/2025 21:31	1	MBL.D	CPSelect 624 MS 0.25 (mm)
LLCS 810-162040/2-A		09/26/2025 21:52	1	LLCS.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 22:14	1		CPSelect 624 MS 0.25 (mm)
810-165116-1	VPB184-HYD-20250919	09/26/2025 22:36	1	810-165116-A-1-A.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 22:57	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 23:19	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/26/2025 23:41	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 00:02	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 00:24	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 00:46	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 01:07	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 01:29	1		CPSelect 624 MS 0.25 (mm)
CCVIS 810-162098/2-A		09/27/2025 01:51	1	CCVM.D	CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 02:12	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 02:34	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 02:56	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 03:18	1		CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Eaton Analytical South Bend Job No.: 810-165116-1

SDG No.: _____

Instrument ID: GCMS-FE Start Date: 09/26/2025 15:17Analysis Batch Number: 162117 End Date: 09/27/2025 06:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (Client)		09/27/2025 03:39	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 04:01	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 04:23	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 04:44	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 05:06	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		09/27/2025 05:28	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (QC)		09/27/2025 05:49	1		CPSelect 624 MS 0.25 (mm)
ZZZZZ (Client)		09/27/2025 06:11	1		CPSelect 624 MS 0.25 (mm)
CCV 810-162098/3-A		09/27/2025 06:33	1	CCVH.D	CPSelect 624 MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Eaton Analytical Sout Job No.: 810-165116-1

SDG No.: _____

Batch Number: 161845 Batch Start Date: 09/25/25 11:12 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 00259	522-Sur-SS 00152	O-522-CalH 00026	O-522-QCS-Sub 00012
IC 810-161845/4		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/5		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/6		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/7		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/8		522, 522			2 mL	2 mL	10 uL	10 uL		
IC 810-161845/9		522, 522			2 mL	2 mL	10 uL	10 uL		
ICISAV 810-161845/10		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
IC 810-161845/11		522, 522			2 mL	2 mL	10 uL	10 uL	10 uL	
IC 810-161845/12		522, 522			2 mL	2 mL	10 uL	10 uL	20 uL	
IC 810-161845/13		522, 522			2 mL	2 mL	10 uL	10 uL	50 uL	
IC 810-161845/14		522, 522			2 mL	2 mL	10 uL	10 uL	100 uL	
ICV 810-161845/15		522, 522			2 mL	2 mL	10 uL	10 uL		5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O522-CalL 00026					
IC 810-161845/4		522, 522			7 uL					
IC 810-161845/5		522, 522			10 uL					
IC 810-161845/6		522, 522			20 uL					
IC 810-161845/7		522, 522			50 uL					
IC 810-161845/8		522, 522			100 uL					
IC 810-161845/9		522, 522			200 uL					
ICISAV 810-161845/10		522, 522								
IC 810-161845/11		522, 522								
IC 810-161845/12		522, 522								
IC 810-161845/13		522, 522								
IC 810-161845/14		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.: 810-165116-1

SDG No.: _____

Batch Number: 161845 Batch Start Date: 09/25/25 11:12 Batch Analyst: Arriaga Banda, BrisaBatch Method: 522 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	0522-Call 00026					
ICV 810-161845/15		522, 522								

Batch Notes	
MeCL2 ID	2007272
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.: 810-165116-1

SDG No.: _____

Batch Number: 162040 Batch Start Date: 09/26/25 09:14 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 00259	522-Sur-SS 00154
MBL 810-162040/1		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
LLCS 810-162040/2		522, 522			100 g	0 g	100 mL	2 mL	10 uL	10 uL
810-165116-A-1	VPB184-HYD-2025 0919	522, 522	inking W&	T	100 g	0 g	100 mL	2 mL	10 uL	10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O522-CalL 00026	AnalysisCommen t				
MBL 810-162040/1		522, 522				X1				
LLCS 810-162040/2		522, 522			7 uL	X2				
810-165116-A-1	VPB184-HYD-2025 0919	522, 522	inking W&	T		X6				

Batch Notes	
MeCL2 ID	2007272
Methanol ID	2152768
SPE Cartridge Lot ID	403134312A
Sodium Sulfite ID	1456825
Na2SO4 ID	2127314
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.: 810-165116-1

SDG No.: _____

Batch Number: 162098 Batch Start Date: 09/26/25 13:03 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 00259	522-Sur-SS 00154	O-522-CalH 00026	O522-CalL 00026
CCVLIS 810-162098/1		522, 522			2 mL	2 mL	10 uL	10 uL		7 uL
CCVIS 810-162098/2		522, 522			2 mL	2 mL	10 uL	10 uL	5 uL	
CCV 810-162098/3		522, 522			2 mL	2 mL	10 uL	10 uL	50 uL	

Batch Notes	
MeCL2 ID	2007272
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



CHAIN OF CUSTODY RECORD

Sub Lab INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY :	Eurofins Eaton Analytical South Bend	ORDER ID :	Q3166	BILL TO:	CHEMTECH PO# : Q3166
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@alliantcg.com	ATTENTION :	YAZMEE
PHONE :	574-233-4777	PHONE :	(908) 789 8900	FAX :	(908) 789 8922

810-165116 COC

EDD : ADAPT **Report : Level 4** **Comment :** DoD---wet Chem Group1 = 1,4-Dioxane by 522

ID	CLIENT SAMPLE IDENTIFICATION	SAMPLE MATRIX	ANALYSIS	Preservative	Method	SAMPLE COLLECTION		# OF BOTTLES	TAT DAYS
01	VPB184-HYD-20250919	Water	Wet Chem Group1	um thiosulfate(Na2S2	522(sub)	DATE	TIME	2	10
						09/19/2025	13:15:00		

Initial Temp: 21.4
Corrected Temp: 17.6
IR Gun # 8210

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGES POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER:	DATE/TIME: 9/23/25	RECEIVED BY:	1.	Conditions of bottles or Coolers at receipt:	☐ Compliant ☐ Non Compliant
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	2.		Cooler Temp Ice or Cooler?
RELINQUISHED BY:	DATE/TIME: 09-24-2025	RECEIVED BY:	3. <i>[Signature]</i>	Page 1 of 1	Shipment Complete: ☐ YES ☐ NO

2430 0930 - gm 09-24-2025
EPA 503

Login Sample Receipt Checklist

Client: Chemtech Consulting Group Inc.

Job Number: 810-165116-1

Login Number: 165116

List Number: 1

Creator: Moore, Gary

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	