



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy

AECOM

1001 Bishop Street

Honolulu HI 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-120929-1

Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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 Environment Testing Northwest, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-120929-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-120929-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/07/2022; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.3° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples ADIT6-DU04A-SON02MI-22DEC (580-120929-1), ADIT6-DU04B-SON02MI-22DEC (580-120929-2), ADIT6-IDW-SON02MI-22DEC (580-120929-3), ADIT6-IDW-SOFD02MI-22DEC (580-120929-4) and ADIT6-IDW-SOFT02MI-22DEC (580-120929-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015C DAI. The samples were leached on 12/15/2022 and analyzed on 12/15/2022 and 12/16/2022.

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

PERCENT SOLIDS

Samples ADIT6-DU04A-SON02MI-22DEC (580-120929-1), ADIT6-DU04B-SON02MI-22DEC (580-120929-2), ADIT6-IDW-SON02MI-22DEC (580-120929-3), ADIT6-IDW-SOFD02MI-22DEC (580-120929-4) and ADIT6-IDW-SOFT02MI-22DEC (580-120929-5) were analyzed for percent solids in accordance with ASTM D2216. The samples were analyzed on 12/13/2022.

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

Detection Summary

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

☐ No Detections.

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

☐ No Detections.

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

☐ No Detections.

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

☐ No Detections.

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Seattle

Client Sample Results

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 80.8

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.9	U M	6.3	0.78	mg/Kg	☼		12/15/22 22:09	1

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 82.7

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.8	U	6.0	0.75	mg/Kg	☼		12/15/22 22:31	1

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 84.2

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.7	U M	5.7	0.71	mg/Kg	☼		12/15/22 22:54	1

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 83.8

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.8	U	6.0	0.75	mg/Kg	☼		12/15/22 23:17	1

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 85.2

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.6	U	5.5	0.68	mg/Kg	☼		12/16/22 22:46	1

Default Detection Limits

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble

Leach: DI Leach

Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	0.62	mg/Kg

QC Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-120929-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-755329/1-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.5	U	4.9	0.61	mg/Kg			12/15/22 19:53	1

Lab Sample ID: LCS 680-755329/2-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	19.2	19.1		mg/Kg		100	50 - 150

Lab Sample ID: LCSD 680-755329/3-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	19.8	20.6		mg/Kg		104	50 - 150	7	50

Lab Sample ID: 580-120929-5 MS
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	1.6	U M	11.5	9.93		mg/Kg	☼	86	50 - 150

Lab Sample ID: 580-120929-5 MSD
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	11.4	14.0		mg/Kg	☼	123	50 - 150	34	50

Lab Sample ID: 580-120929-5 DU
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	1.7	U M	mg/Kg	☼	NC	

Lab Sample ID: 580-120929-5 TRL
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	TRL Result	TRL Qualifier	Unit	D	RSD	RSD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	1.7	U M	mg/Kg	☼	NC	

QC Association Summary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-120929-1

GC Semi VOA

Analysis Batch: 755296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-120929-1	ADIT6-DU04A-SON02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-2	ADIT6-DU04B-SON02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-3	ADIT6-IDW-SON02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-4	ADIT6-IDW-SOFD02MI-22DEC	Soluble	Solid	8015C GLY	755329
MB 680-755329/1-A	Method Blank	Soluble	Solid	8015C GLY	755329
LCS 680-755329/2-A	Lab Control Sample	Soluble	Solid	8015C GLY	755329
LCSD 680-755329/3-A	Lab Control Sample Dup	Soluble	Solid	8015C GLY	755329
580-120929-5 MS	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-5 MSD	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-5 DU	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	8015C GLY	755329
580-120929-5 TRL	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	8015C GLY	755329

Leach Batch: 755329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-120929-1	ADIT6-DU04A-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-2	ADIT6-DU04B-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-3	ADIT6-IDW-SON02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-4	ADIT6-IDW-SOFD02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-5	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	DI Leach	
MB 680-755329/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 680-755329/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 680-755329/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
580-120929-5 MS	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-5 MSD	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-5 DU	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	DI Leach	
580-120929-5 TRL	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	DI Leach	

Analysis Batch: 755535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-120929-5	ADIT6-IDW-SOFT02MI-22DEC	Soluble	Solid	8015C GLY	755329

General Chemistry

Analysis Batch: 754793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-120929-1	ADIT6-DU04A-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-120929-2	ADIT6-DU04B-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-120929-3	ADIT6-IDW-SON02MI-22DEC	Total/NA	Solid	Moisture	
580-120929-4	ADIT6-IDW-SOFD02MI-22DEC	Total/NA	Solid	Moisture	
580-120929-5	ADIT6-IDW-SOFT02MI-22DEC	Total/NA	Solid	Moisture	

Lab Chronicle

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-120929-1

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Date Collected: 12/03/22 13:00

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Date Collected: 12/03/22 13:00

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-1

Matrix: Solid

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:09

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Date Collected: 12/03/22 13:00

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Date Collected: 12/03/22 13:00

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-2

Matrix: Solid

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:31

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Date Collected: 12/03/22 12:25

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Date Collected: 12/03/22 12:25

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-3

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:54

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Date Collected: 12/03/22 12:25

Date Received: 12/07/22 09:45

Lab Sample ID: 580-120929-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Eurofins Seattle

Lab Chronicle

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 23:17

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 22:46

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2463	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Solid	2-(2-Butoxyethoxy)ethanol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method	Method Description	Protocol	Laboratory
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV
Moisture	Percent Moisture	EPA	EET SAV
DI Leach	Deionized Water Leaching Procedure	ASTM	EET SAV

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-120929-1	ADIT6-DU04A-SON02MI-22DEC	Solid	12/03/22 13:00	12/07/22 09:45
580-120929-2	ADIT6-DU04B-SON02MI-22DEC	Solid	12/03/22 13:00	12/07/22 09:45
580-120929-3	ADIT6-IDW-SON02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45
580-120929-4	ADIT6-IDW-SOFD02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45
580-120929-5	ADIT6-IDW-SOFT02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 755296Lab Sample ID: IC 680-755296/7 Client Sample ID: _____Date Analyzed: 12/15/22 13:40 Lab File ID: 22GL15007.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:33
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:33
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:27

Lab Sample ID: IC 680-755296/8 Client Sample ID: _____Date Analyzed: 12/15/22 14:03 Lab File ID: 22GL15008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/9 Client Sample ID: _____Date Analyzed: 12/15/22 14:26 Lab File ID: 22GL15009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: ICIS 680-755296/10 Client Sample ID: _____Date Analyzed: 12/15/22 14:48 Lab File ID: 22GL15010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.83	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
2-(2-Butoxyethoxy)ethanol	9.49	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 755296Lab Sample ID: IC 680-755296/11 Client Sample ID: _____Date Analyzed: 12/15/22 15:11 Lab File ID: 22GL15011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.84	Baseline Smoothing	SWK1	12/15/22 18:31
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:31
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:28

Lab Sample ID: IC 680-755296/12 Client Sample ID: _____Date Analyzed: 12/15/22 15:34 Lab File ID: 22GL15012.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	7.82	Baseline Smoothing	SWK1	12/15/22 18:29
Ethylene glycol	8.22	Baseline Smoothing	SWK1	12/15/22 18:29
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

Lab Sample ID: ICV 680-755296/13 CCV Client Sample ID: _____Date Analyzed: 12/15/22 15:56 Lab File ID: 22GL15013.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	11.16	Baseline Smoothing	SWK1	12/15/22 18:29

Lab Sample ID: 580-120929-1 Client Sample ID: ADIT6-DU04A-SON02MI-22DECDate Analyzed: 12/15/22 22:09 Lab File ID: 22GL15029.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol	9.50	Baseline Smoothing	SWK1	12/16/22 10:46

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 755296Lab Sample ID: 580-120929-3 Client Sample ID: ADIT6-IDW-SON02MI-22DECDate Analyzed: 12/15/22 22:54 Lab File ID: 22GL15031.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol	9.50	Baseline Smoothing	SWK1	12/16/22 10:46

Lab Sample ID: 580-120929-5 DU Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC DUDate Analyzed: 12/16/22 00:02 Lab File ID: 22GL15034.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol	9.50	Split Peak	SWK1	12/16/22 10:47

Lab Sample ID: 580-120929-5 TRL Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC TRLDate Analyzed: 12/16/22 00:25 Lab File ID: 22GL15035.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol	9.50	Baseline Smoothing	SWK1	12/16/22 10:48

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00047	02/07/23		o2si, Lot 480919		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL
SG_GLY_ISTD_00099	04/25/23		Agilent, Lot 0006670821		(Purchased Reagent)		n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00056	05/04/23		o2si, Lot 454407		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL

Reagent

SG_Gly_CAL_00047



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Chemical Testing Lab
Cert. No. 3031.01



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

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Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04	480919	≤ -10 °C	P/T Methanol		2-May-2024

Description:

ISO 17034 -Custom Volatiles Mix, 105-12, 2000 & 4,000 mg/L, 1 mL

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HPLC-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.6	311.9.2P	1986 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2P	2008 ± 100 mg/L
propyl cellosolve	2807-30-9	99.9	1570.7.2P	1980 ± 100 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2P	2014 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1P	1968 ± 99 mg/L
di(ethylene glycol)	111-46-6	99.5	309.7.2P	1994 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.2.1.1P	1974 ± 110 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1P	1991 ± 110 mg/L
1,2-propanediol	57-55-6	99.5	306.9.3P	1998 ± 100 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1P	3959 ± 200 mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

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Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: ≤ -10 °C

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, $k = 2$, u_c = the combined uncertainty

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{its}}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:




Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

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Certificate of Analysis

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Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:

Brian Stokes

Brian Stokes

3 -May-2022

Production Chemist I

Certified By:

Tyler Sherman

Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

7290B Investment Drive • North Charleston, SC 29418
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Released By:

Susan Mathews

Susan Mathews

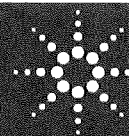
14 -Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00099

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Custom Standard

Lot Number: 0006670821

Product Number: CUS-6046

Lot Issue Date: 14-Mar-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 30-Apr-2024

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded	Uncertainty		
n-heptanol	5024	±	25 µg/mL	000111-70-6	RM04540

Matrix: methanol (methyl alcohol)

Description:

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

Traceability:

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

Homogeneity:

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

Instructions for Use:

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

Safety:

Refer to the Safety Data Sheet on www.agilent.com 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.

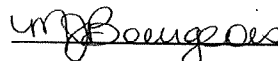
ISO 17034



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/
GSD-QA-015.1



ISO 17025 Cert
No. AT-1937

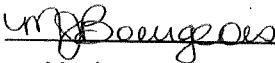
ISO 17034



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

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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

SG_GlyICV_00056



ISO/IEC 17025 Accredited
Chemical Testing Lab
Cert. No. 3031.01



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

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Catalog No.	Lot No.	Storage	Solvent	Date Received	Exp. Date
G34-120070-04-SS	454407	≤ -10 °C	P/T Methanol		1-Jul-2023

Description:

ISO 17034 -Custom Volatiles Mix,105-12, Second Source, 2000 & 4,000 mg/L, 1 mL

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HPLC-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-butoxyethanol	111-76-2	99.5	311.7.1.1S	1994 ± 100 mg/L
diethylene glycol butyl ether	112-34-5	99.8	2323.7.2.1S	1992 ± 100 mg/L
2-propoxyethanol	2807-30-9	99.5	1570.7.1S	1998 ± 110 mg/L
dipropylene glycol monomethyl ether	34590-94-8	99.7	2333.7.2.1S	1998 ± 100 mg/L
ethylene glycol	107-21-1	100	307.201.1.1S	2016 ± 100 mg/L
di(ethylene glycol)	111-46-6	99.9	309.7.1.1S	1998 ± 100 mg/L
tri(ethylene glycol)	112-27-6	99.9	310.7.3.1S	2010 ± 100 mg/L
4-Hydroxy-4-methyl-2-pentanone	123-42-2	98	2334.286.1.1S	2003 ± 110 mg/L
1,2-propanediol	57-55-6	99.6	306.370.1.1S	2004 ± 110 mg/L
tetraethylene glycol	112-60-7	98	3754.7.1.1S	4049 ± 200 mg/L

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

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Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

This standard was prepared gravimetrically using balances calibrated with National Institute of Standards and Technology (NIST) traceable weights (NIST Test Numbers 822/273070-06, 822/275141-07, 822/278993-10). Only calibrated Class A volumetric glassware and/or calibrated syringes were used to prepare this standard. Raw materials may have been checked for stoichiometry and purity prior to use. This standard has been analyzed against an independent source.

Packaging and Storage:

The solution should be stored according to the following storage requirements: $\leq -10^{\circ}\text{C}$

Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

Only Class A glassware and/or calibrated syringes are used in the manufacture and quality control of standards. All glassware is calibrated using NIST traceable weights.

Weights and Balance Calibration:

Weights used to perform daily checks on balances are calibrated annually by the State of South Carolina Department of Agriculture Metrology Laboratory and are traceable to NIST. Balances are checked daily in accordance to procedure O2-LB-G-002. Balances are calibrated annually by an ISO/IEC 17025:2017 accredited metrology service.

Homogeneity:

Homogeneity has been established in accordance with internal procedure O2-QS-011 and has a maximum uncertainty of 0.1%. This is consistent with the intended use of this CRM. The homogeneity of this product has been confirmed by procedures consistent with ISO/IEC 17025:2017 and ISO 17034:2016. The homogeneity of this CRM is valid for sample sub-sizes that the end user can quantitatively reproduce.

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:

$u = k u_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, $k = 2$, u_c = the combined uncertainty

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{sls}}^2)^{1/2}$ where u_i are the individual uncertainty components for manufacturing, transportation, homogeneity, and shelf life. While no significant uncertainty was detected in the replicates, a minimum contribution to

Manufactured By:

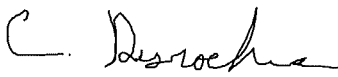


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

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Certificate of Analysis

Page 3 of 3

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

uncertainty was added for homogeneity and long term stability as described in ISO Guide 35:2017.

Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 1-Jul-2023

Quality Standard Documentation:

- ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration" - Chemical Testing - Accredited A2LA Certificate Number 3031.01
- ISO 17034:2016 "General Requirements for the Competence of Reference Material Producers" - Reference Material Production - Accredited A2LA Certificate Number 3031.02

Manufactured By:

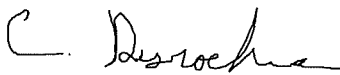


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:



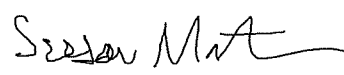
Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

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Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

Method 8015C – DAI Glycols

Glycols –Direct Injection (GC/FID) –
Method 8015C

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15018.D
Lab ID: LCS 680-755329/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	19.2	19.1	100	50-150	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15019.D
Lab ID: LCSD 680-755329/3-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	19.8	20.6	104	7	50	50-150	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15036.D
Lab ID: 580-120929-5 MS Client ID: ADIT6-IDW-SOFT02MI-22DEC MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	11.5	1.6 U	9.93	86	50-150	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15037.D
Lab ID: 580-120929-5 MSD Client ID: ADIT6-IDW-SOFT02MI-22DEC MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	11.4	14.0	123	34	50	50-150	

Column to be used to flag recovery and RPD values

GC SEMI VOA DUPLICATE SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15034.DLab ID: 580-120929-5 DU Client ID: ADIT6-IDW-SOFT02MI-22DEC DU

COMPOUND	SAMPLE CONCENTRATION (mg/Kg)	DUPLICATE CONCENTRATION (mg/Kg)	%RPD	%RPD LIMIT	#
2-(2-Butoxyethoxy)ethanol	1.6 U	1.7 U	NC		

Column to be used to flag %RPD values

8015C GLY

GC SEMI VOA TRIPLICATE SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Matrix: Solid (Soluble) Level: Low Lab File ID: 22GL15035.D
Lab ID: 580-120929-5 TRL Client ID: ADIT6-IDW-SOFT02MI-22DEC TRL

COMPOUND	SAMPLE CONC. (mg/Kg)	DUPLICATE CONC. (mg/Kg)	TRIPLICATE CONC. (mg/Kg)	%RSD	%RSD LIMIT	#
2-(2-Butoxyethoxy)ethanol	1.6 U	1.7 U	1.7 U	NC		

Column to be used to flag %RSD
8015C GLY

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: MB 680-755329/1-A
 Matrix: Solid (Soluble) Date Extracted: _____
 Lab File ID: (1) 22GL15023.D Lab File ID: (2) _____
 Date Analyzed: (1) 12/15/2022 19:53 Date Analyzed: (2) _____
 Instrument ID: (1) CVGG2 Instrument ID: (2) _____
 GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-755329/2-A	12/15/2022 18:00	
	LCSD 680-755329/3-A	12/15/2022 18:23	
ADIT6-DU04A-SON02MI-22DEC	580-120929-1	12/15/2022 22:09	
ADIT6-DU04B-SON02MI-22DEC	580-120929-2	12/15/2022 22:31	
ADIT6-IDW-SON02MI-22DEC	580-120929-3	12/15/2022 22:54	
ADIT6-IDW-SOFD02MI-22DEC	580-120929-4	12/15/2022 23:17	
ADIT6-IDW-SOFT02MI-22DEC DU	580-120929-5 DU	12/16/2022 00:02	
ADIT6-IDW-SOFT02MI-22DEC TRL	580-120929-5 TRL	12/16/2022 00:25	
ADIT6-IDW-SOFT02MI-22DEC MS	580-120929-5 MS	12/16/2022 00:47	
ADIT6-IDW-SOFT02MI-22DEC MSD	580-120929-5 MSD	12/16/2022 01:10	
ADIT6-IDW-SOFT02MI-22DEC	580-120929-5	12/16/2022 22:46	

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

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Sample No.: ICIS 680-755296/10 Date Analyzed: 12/15/2022 14:48
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): 22GL15010.D Heated Purge: (Y/N) N
 Calibration ID: 88697

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		6443842	5.71				
UPPER LIMIT		12887684	6.21				
LOWER LIMIT		3221921	5.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-755296/13 CCV		7820966	5.71				
LCS 680-755329/2-A		8721019	5.72				
LCSD 680-755329/3-A		8007250	5.72				
MB 680-755329/1-A		7640672	5.72				
580-120929-1	ADIT6-DU04A-SON02MI-2 2DEC	8091996	5.73				
580-120929-2	ADIT6-DU04B-SON02MI-2 2DEC	7708022	5.73				
580-120929-3	ADIT6-IDW-SON02MI-22D EC	4124578	5.73				
580-120929-4	ADIT6-IDW-SOFD02MI-22 DEC	9176720	5.73				
580-120929-5 DU	ADIT6-IDW-SOFT02MI-22 DEC DU	7325072	5.73				
580-120929-5 TRL	ADIT6-IDW-SOFT02MI-22 DEC TRL	7137311	5.73				
580-120929-5 MS	ADIT6-IDW-SOFT02MI-22 DEC MS	8747357	5.73				
580-120929-5 MSD	ADIT6-IDW-SOFT02MI-22 DEC MSD	8143198	5.73				
CCV 680-755296/39		7322966	5.73				

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% 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 SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-DU04A-SON02MI-22DEC Lab Sample ID: 580-120929-1
Matrix: Solid (Soluble) Lab File ID: 22GL15029.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 13:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 22:09
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 19.2 % Solids: 80.8 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.9	U M	6.3	1.9	0.78

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15029.D
 Lims ID: 580-120929-B-1-A
 Client ID: ADIT6-DU04A-SON02MI-22DEC
 Sample Type: Client
 Inject. Date: 15-Dec-2022 22:09:23 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-029
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

First Level Reviewer: SWK1

Date: 16-Dec-2022 10:46:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.729 5.732 -0.003 8091996 50.0

8 2-(2-Butoxyethoxy)ethanol

7Ma

9.499 9.501 -0.002 6770 0.0843 7Ma

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15029.D

Injection Date: 15-Dec-2022 22:09:23

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-1-A

Lab Sample ID: 680-120929-1

Worklist Smp#: 29

Client ID: ADIT6-DU04A-SON02MI-22DEC

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

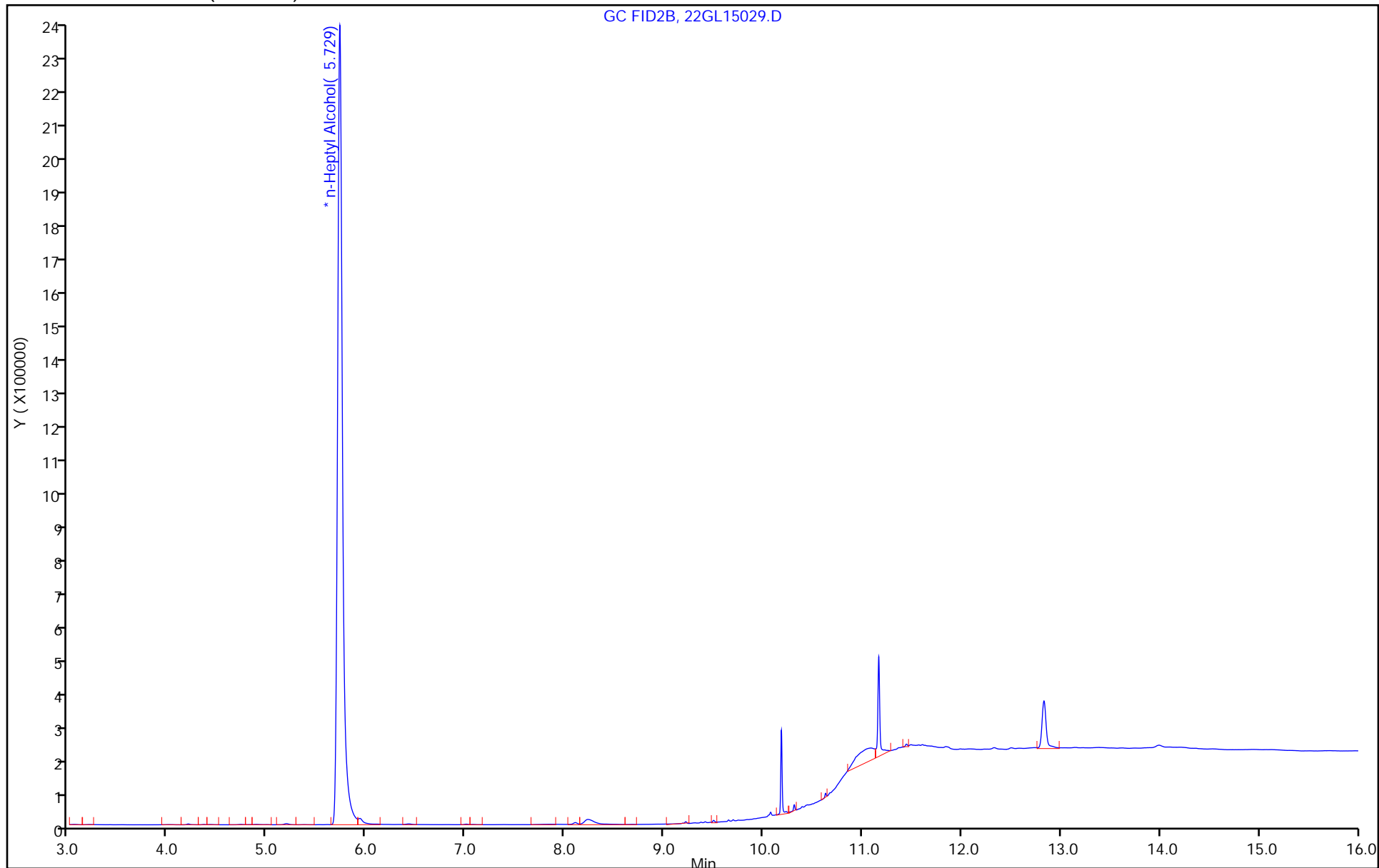
ALS Bottle#: 29

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL15029.D



Eurofins Savannah

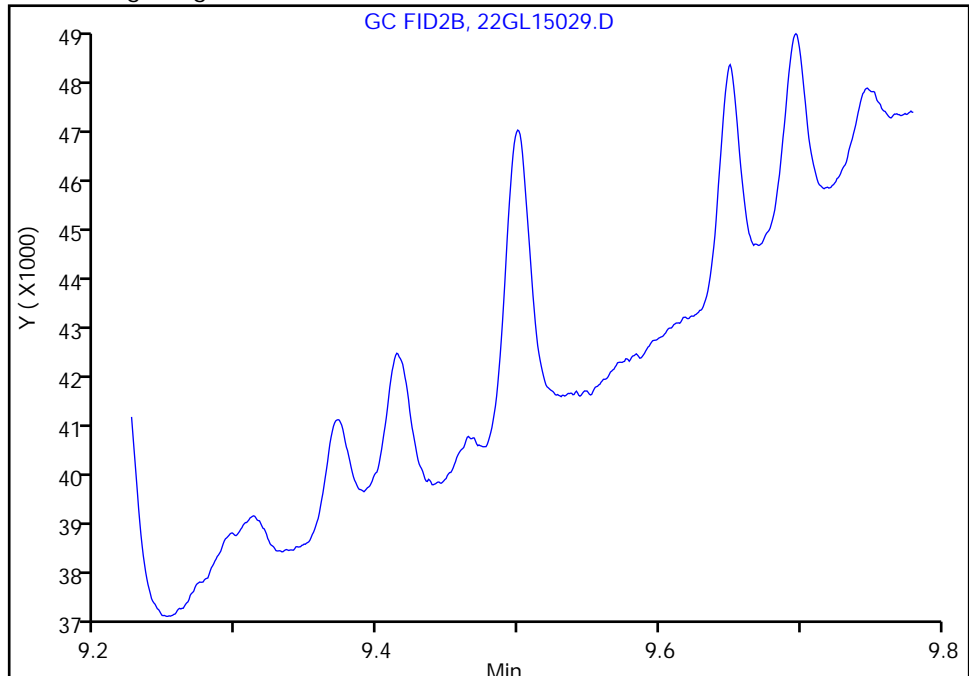
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15029.D
Injection Date: 15-Dec-2022 22:09:23 Instrument ID: CVGG2
Lims ID: 580-120929-B-1-A Lab Sample ID: 680-120929-1
Client ID: ADIT6-DU04A-SON02MI-22DEC
Operator ID: ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

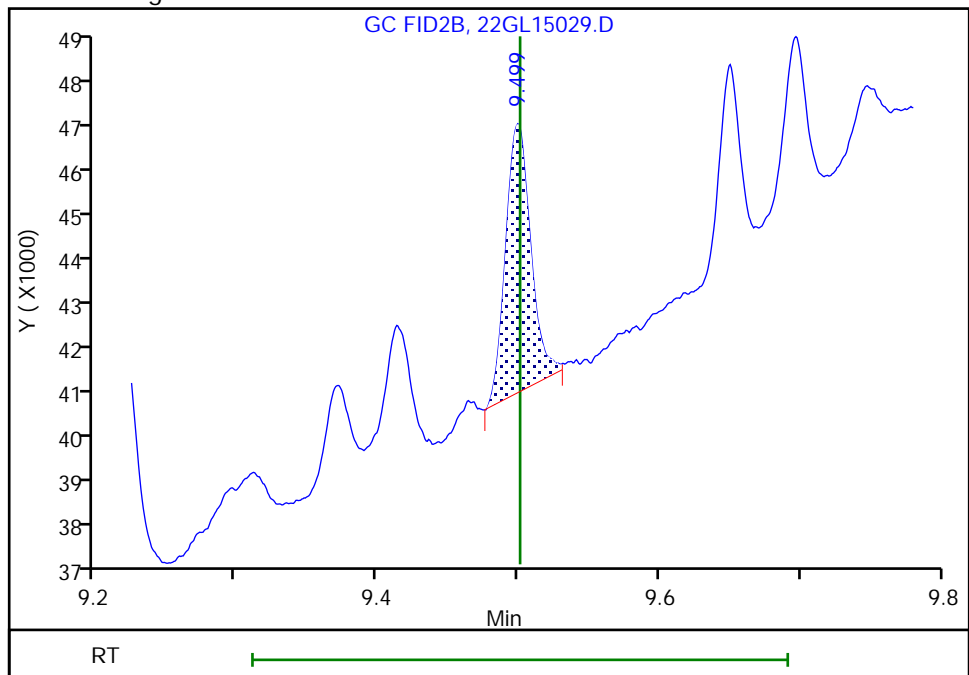
Not Detected
Expected RT: 9.50

Processing Integration Results



RT: 9.50
Area: 6770
Amount: 0.084284
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 16-Dec-2022 10:46:23

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-DU04B-SON02MI-22DEC Lab Sample ID: 580-120929-2
Matrix: Solid (Soluble) Lab File ID: 22GL15030.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 13:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 22:31
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 17.3 % Solids: 82.7 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.8	U	6.0	1.8	0.75

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15030.D
Lims ID: 580-120929-B-2-A
Client ID: ADIT6-DU04B-SON02MI-22DEC
Sample Type: Client
Inject. Date: 15-Dec-2022 22:31:55 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-030
Operator ID: Instrument ID: CVGG2
Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1602

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.730 5.732 -0.002 7708022 50.0

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15030.D

Injection Date: 15-Dec-2022 22:31:55

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-2-A

Lab Sample ID: 680-120929-2

Worklist Smp#: 30

Client ID: ADIT6-DU04B-SON02MI-22DEC

Injection Vol: 1.0 ul

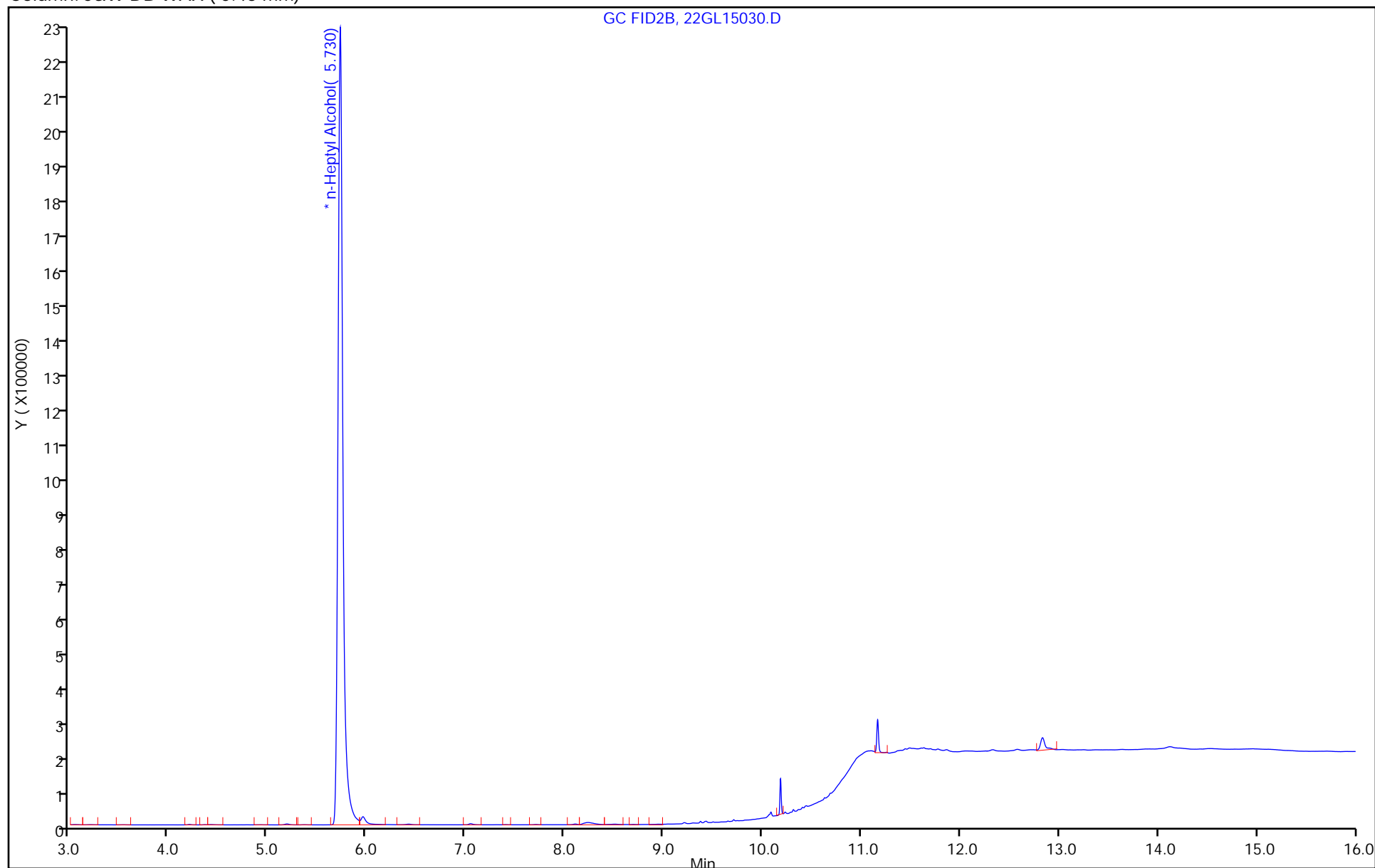
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SON02MI-22DEC Lab Sample ID: 580-120929-3
Matrix: Solid (Soluble) Lab File ID: 22GL15031.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 22:54
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 15.8 % Solids: 84.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.7	U M	5.7	1.7	0.71

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15031.D
 Lims ID: 580-120929-B-3-A
 Client ID: ADIT6-IDW-SON02MI-22DEC
 Sample Type: Client
 Inject. Date: 15-Dec-2022 22:54:34 ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-031
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

First Level Reviewer: SWK1

Date: 16-Dec-2022 10:46:40

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.727 5.732 -0.005 4124578 50.0

8 2-(2-Butoxyethoxy)ethanol 7Ma

9.501 9.501 0.000 7936 0.1938 7Ma

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15031.D

Injection Date: 15-Dec-2022 22:54:34

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-3-A

Lab Sample ID: 680-120929-3

Worklist Smp#: 31

Client ID: ADIT6-IDW-SON02MI-22DEC

Injection Vol: 1.0 ul

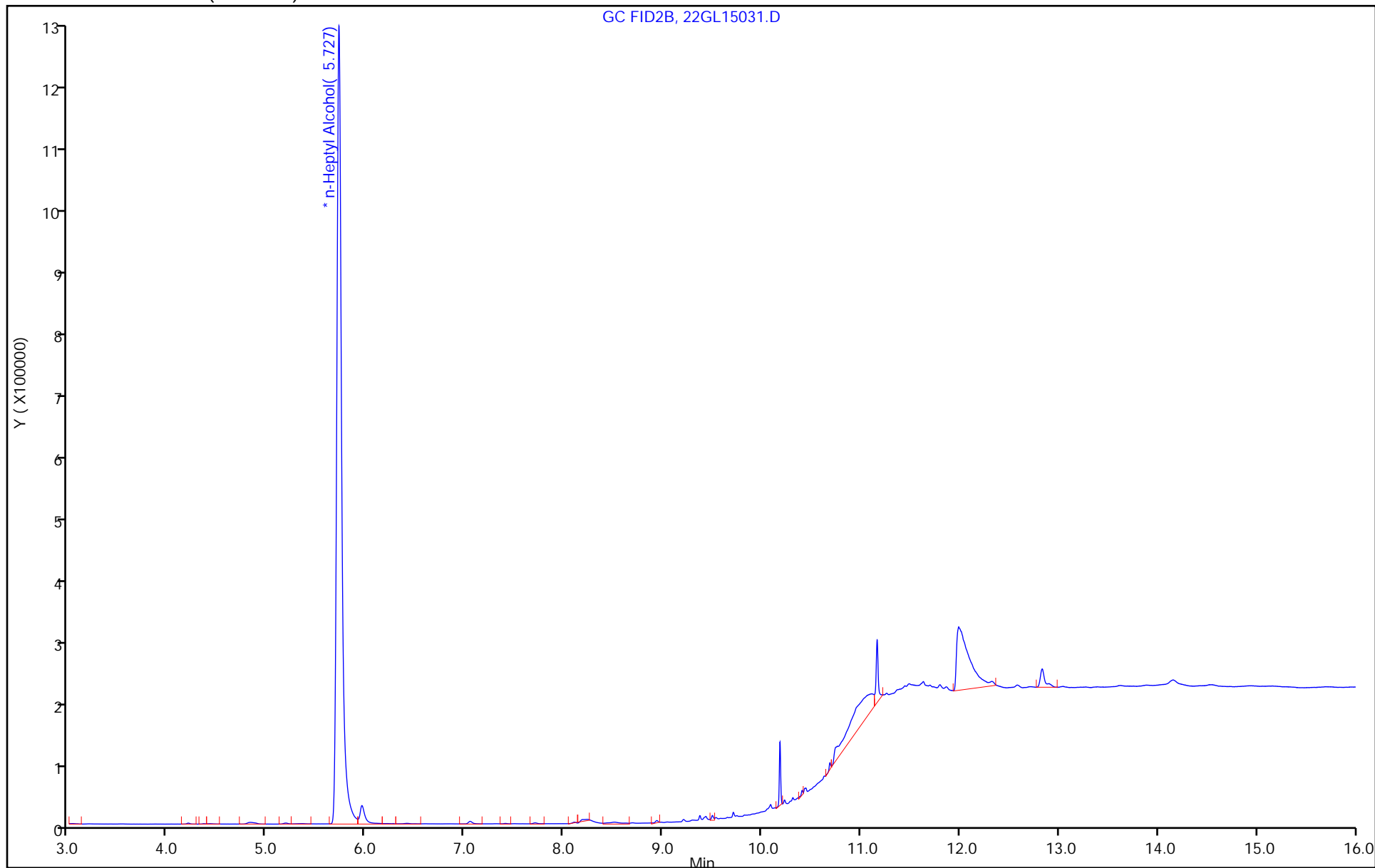
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

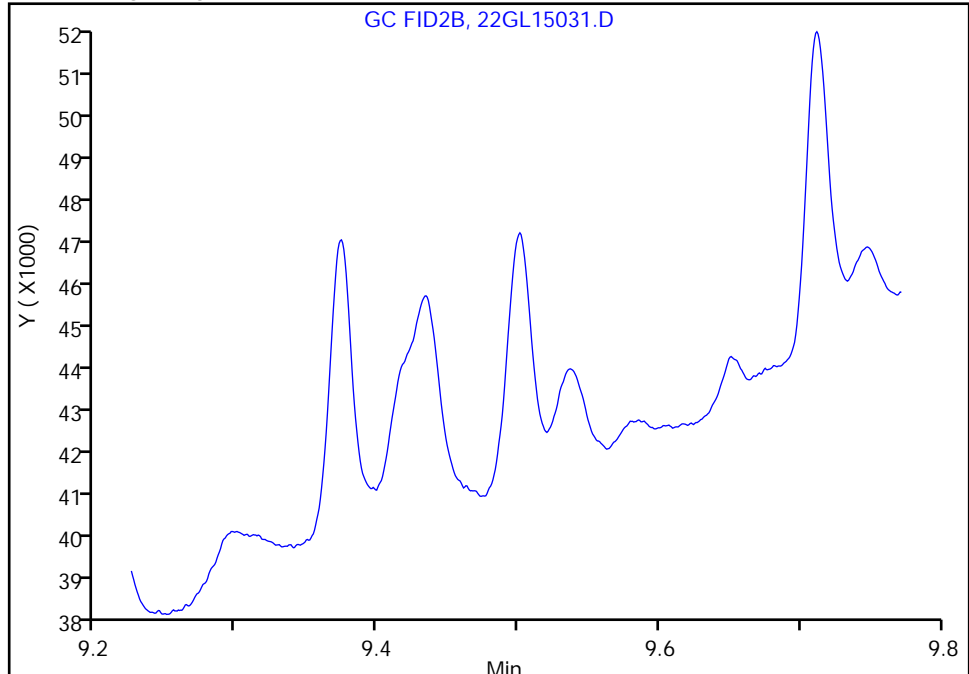
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15031.D
Injection Date: 15-Dec-2022 22:54:34 Instrument ID: CVGG2
Lims ID: 580-120929-B-3-A Lab Sample ID: 680-120929-3
Client ID: ADIT6-IDW-SON02MI-22DEC
Operator ID: ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

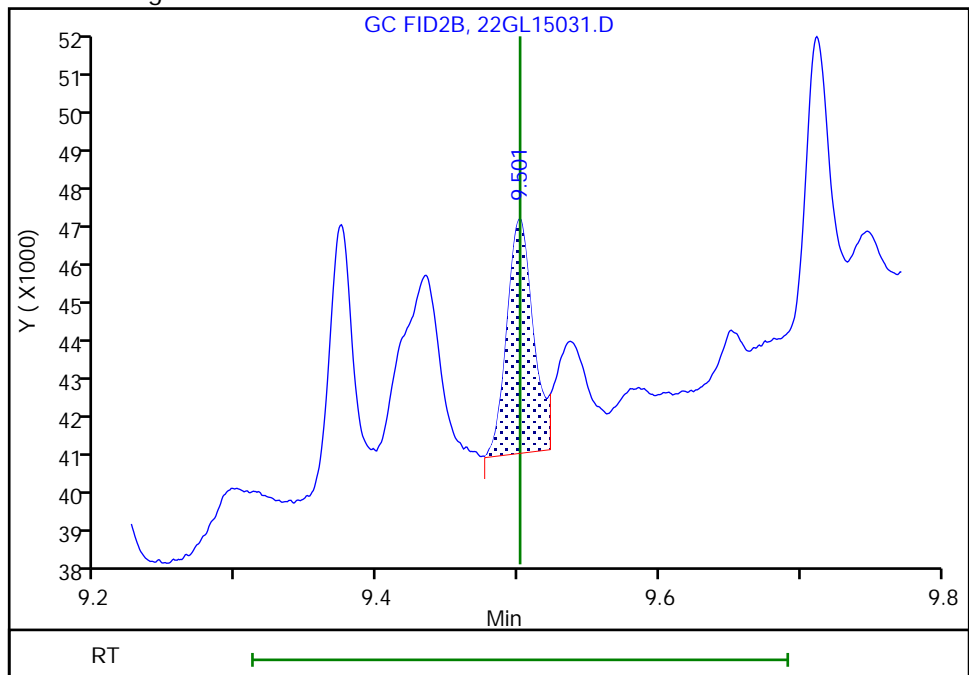
Not Detected
Expected RT: 9.50

Processing Integration Results



RT: 9.50
Area: 7936
Amount: 0.193835
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 16-Dec-2022 10:46:39

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC Lab Sample ID: 580-120929-4
Matrix: Solid (Soluble) Lab File ID: 22GL15032.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 23:17
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 16.2 % Solids: 83.8 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.8	U	6.0	1.8	0.75

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15032.D
 Lims ID: 580-120929-B-4-A
 Client ID: ADIT6-IDW-SOFD02MI-22DEC
 Sample Type: Client
 Inject. Date: 15-Dec-2022 23:17:07 ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-032
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.729 5.732 -0.003 9176720 50.0

8 2-(2-Butoxyethoxy)ethanol 7

9.500 9.501 -0.001 14010 0.1538 7

LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15032.D

Injection Date: 15-Dec-2022 23:17:07

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-4-A

Lab Sample ID: 680-120929-4

Worklist Smp#: 32

Client ID: ADIT6-IDW-SOFD02MI-22DEC

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

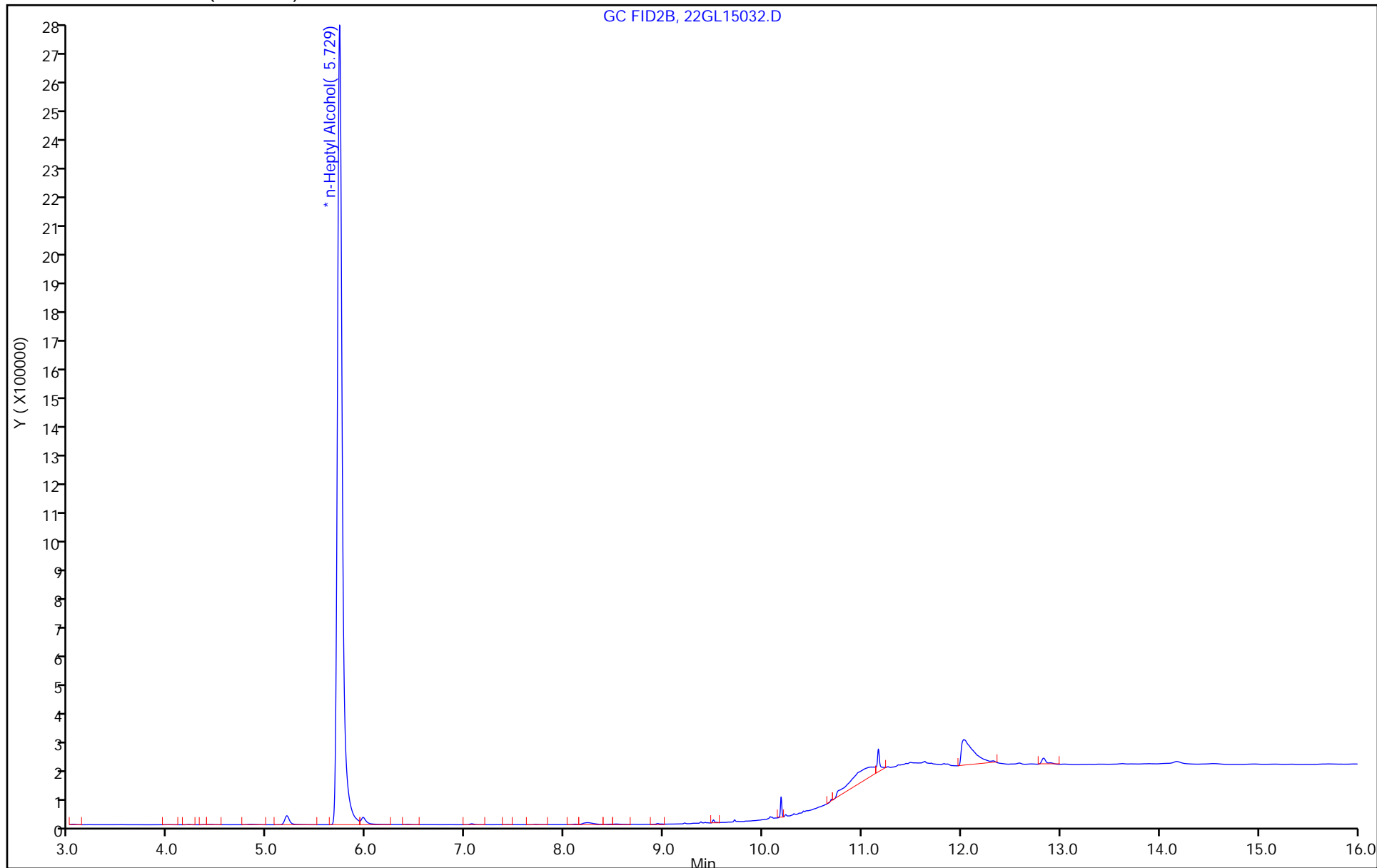
ALS Bottle#: 32

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL15032.D



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC Lab Sample ID: 580-120929-5
Matrix: Solid (Soluble) Lab File ID: 22GL16019.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 22:46
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 14.8 % Solids: 85.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755535 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.6	U	5.5	1.6	0.68

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16019.D
 Lims ID: 580-120929-B-5-A
 Client ID: ADIT6-IDW-SOFT02MI-22DEC
 Sample Type: Client
 Inject. Date: 16-Dec-2022 22:46:33 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082779-019
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 17-Dec-2022 10:58:31 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1633

First Level Reviewer: SWK1

Date: 17-Dec-2022 10:57:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.745	5.738	0.007	8130907	50.0
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QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00099	Amount Added: 10.00	Units: uL	Run Reagent
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Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16019.D

Injection Date: 16-Dec-2022 22:46:33

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-5-A

Lab Sample ID: 680-120929-5

Worklist Smp#: 19

Client ID: ADIT6-IDW-SOFT02MI-22DEC

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

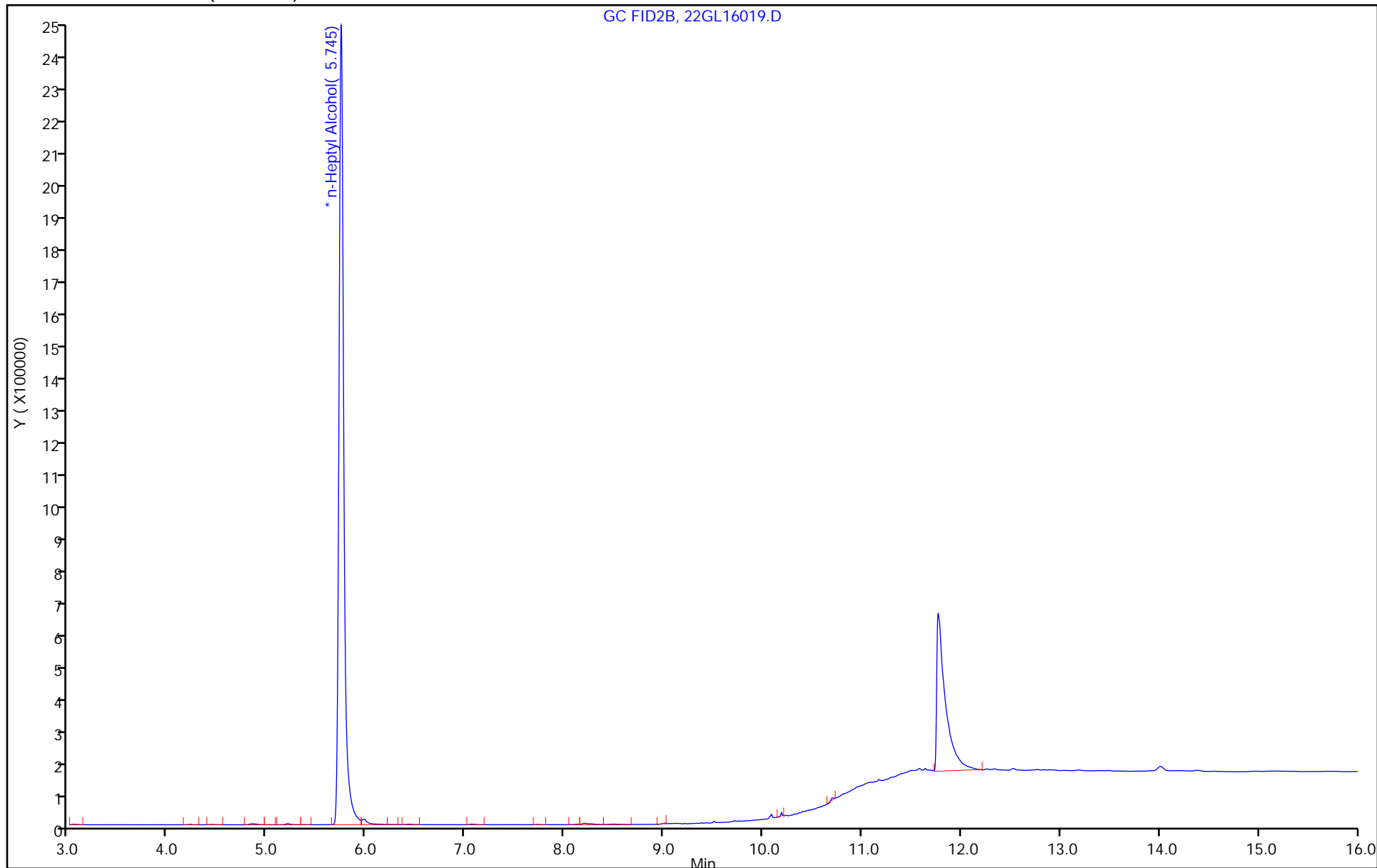
ALS Bottle#: 19

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL16019.D



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

Lab Name: Eurofins Savannah Job No.: 580-120929-1 Analy Batch No.: 755296
SDG No.: _____
Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	0.5816 0.4737	0.5568	0.5171	0.4615	0.5207	Ave		0.518 6				8.9		20.0			
4-Hydroxy-4-methyl-2-pentanone	0.6069 0.4985	0.5826	0.5431	0.4794	0.5476	Ave		0.543 0				8.9		20.0			
2-Butoxyethanol	0.6374 0.5121	0.6038	0.5557	0.4918	0.5613	Ave		0.560 4				9.7		20.0			
Dipropylene Glycol Methyl Ether	0.0431 0.0367	0.0396	0.0435	0.0351	0.0416	Ave		0.039 9				8.6		20.0			
Propylene glycol	0.3771 ++++	0.3055	0.3662	0.3077	0.3466	Ave		0.340 6				9.7		20.0			
Ethylene glycol	0.3909 ++++	0.3167	0.3413	0.2928	0.3158	Ave		0.331 5				11.3		20.0			
2-(2-Butoxyethoxy)ethanol	0.5666 0.4465	0.5278	0.4873	0.4391	0.5106	Ave		0.496 3				9.9		20.0			
2,2'-Oxybisethanol	0.3586 0.2979	0.3343	0.3201	0.2784	0.3203	Ave		0.318 3				8.8		20.0			
Triethylene Glycol	0.4069 0.2998	0.3723	0.3329	0.2783	0.3204	Lin2	0.593 1	0.296 3							0.9940		0.9900
Tetraethylene Glycol	0.3889 0.3018	0.3481	0.3168	0.2619	0.3191	Lin2	1.018 4	0.289 5							0.9920		0.9900

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 SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Savannah Job No.: 580-120929-1 Analy Batch No.: 755296

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethanol, 2-propoxy	nHPA	Ave	416727 7053688	791260	1332867	2587988	6285698	5.00 100	10.0	20.0	50.0	80.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	434849 7423255	827949	1399741	2688287	6609451	5.00 100	10.0	20.0	50.0	80.0
2-Butoxyethanol	nHPA	Ave	456743 7626714	858121	1432260	2757997	6774865	5.00 100	10.0	20.0	50.0	80.0
Dipropylene Glycol Methyl Ether	nHPA	Ave	30872 546715	56303	112172	196877	502049	5.00 100	10.0	20.0	50.0	80.0
Propylene glycol	nHPA	Ave	270235 +++++	434131	943990	1725397	4183063	5.00 +++++	10.0	20.0	50.0	80.0
Ethylene glycol	nHPA	Ave	280066 +++++	450038	879839	1642095	3811895	5.00 +++++	10.0	20.0	50.0	80.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	405977 6649122	750029	1256158	2462169	6163303	5.00 100	10.0	20.0	50.0	80.0
2,2'-Oxybisethanol	nHPA	Ave	256938 4436367	475084	824970	1561212	3866081	5.00 100	10.0	20.0	50.0	80.0
Triethylene Glycol	nHPA	Lin2	291568 4464024	529150	858022	1560681	3867921	5.00 100	10.0	20.0	50.0	80.0
Tetraethylene Glycol	nHPA	Lin2	557362 8988059	989281	1633146	2937100	7703370	10.0 200	20.0	40.0	100	160

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: Eurofins Savannah Job No.: 580-120929-1 Analy Batch No.: 755296

SDG No.: _____

Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2022 13:40 Calibration End Date: 12/15/2022 15:34 Calibration ID: 88697

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-755296/12	22GL15012.D
Level 2	IC 680-755296/11	22GL15011.D
Level 3	ICIS 680-755296/10	22GL15010.D
Level 4	IC 680-755296/9	22GL15009.D
Level 5	IC 680-755296/8	22GL15008.D
Level 6	IC 680-755296/7	22GL15007.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
Ethanol, 2-propoxy	12.2	7.4	-0.3	-11.0	0.4	-8.7	20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	11.8	7.3	0.0	-11.7	0.8	-8.2	20	20	20	20	20	20
2-Butoxyethanol	13.8	7.8	-0.8	-12.2	0.2	-8.6	20	20	20	20	20	20
Dipropylene Glycol Methyl Ether	7.9	-0.8	9.0	-12.1	4.1	-8.1	20	20	20	20	20	20
Propylene glycol	10.7	-10.3	7.5	-9.7	1.7	++++	20	20	20	20	20	
Ethylene glycol	17.9	-4.5	3.0	-11.7	-4.7	++++	20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	14.2	6.3	-1.8	-11.5	2.9	-10.0	20	20	20	20	20	20
2,2'-Oxybisethanol	12.7	5.0	0.6	-12.5	0.6	-6.4	20	20	20	20	20	20
Triethylene Glycol	-2.7	5.6	2.3	-10.1	5.6	-0.8	20	20	20	20	20	20
Tetraethylene Glycol	-0.8	2.7	0.7	-13.0	8.0	2.5	20	20	20	20	20	20

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Dec-2022 13:40:52 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SK9U

Date: 15-Dec-2022 17:24:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	3.984	3.983	0.001	7053688	100.0	91.3	
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	7423255	100.0	91.8	
3 2-Butoxyethanol	5.175	5.175	0.000	7626714	100.0	91.4	
* 4 n-Heptyl Alcohol	5.708	5.708	0.000	7445839	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	6.827	6.831	-0.004	546715	100.0	91.9	
6 Propylene glycol	7.822	7.827	-0.005	3624516	100.0	71.5	M
7 Ethylene glycol	8.217	8.218	-0.001	3043727	100.0	61.7	M
8 2-(2-Butoxyethoxy)ethanol	9.493	9.491	0.002	6649122	100.0	90.0	
9 2,2'-Oxybisethanol	10.178	10.176	0.002	4436367	100.0	93.6	
10 Triethylene Glycol	11.159	11.159	0.000	4464024	100.0	99.2	M
11 Tetraethylene Glycol	12.824	12.821	0.003	8988059	200.0	205.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047

Amount Added: 50.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D

Injection Date: 15-Dec-2022 13:40:52

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

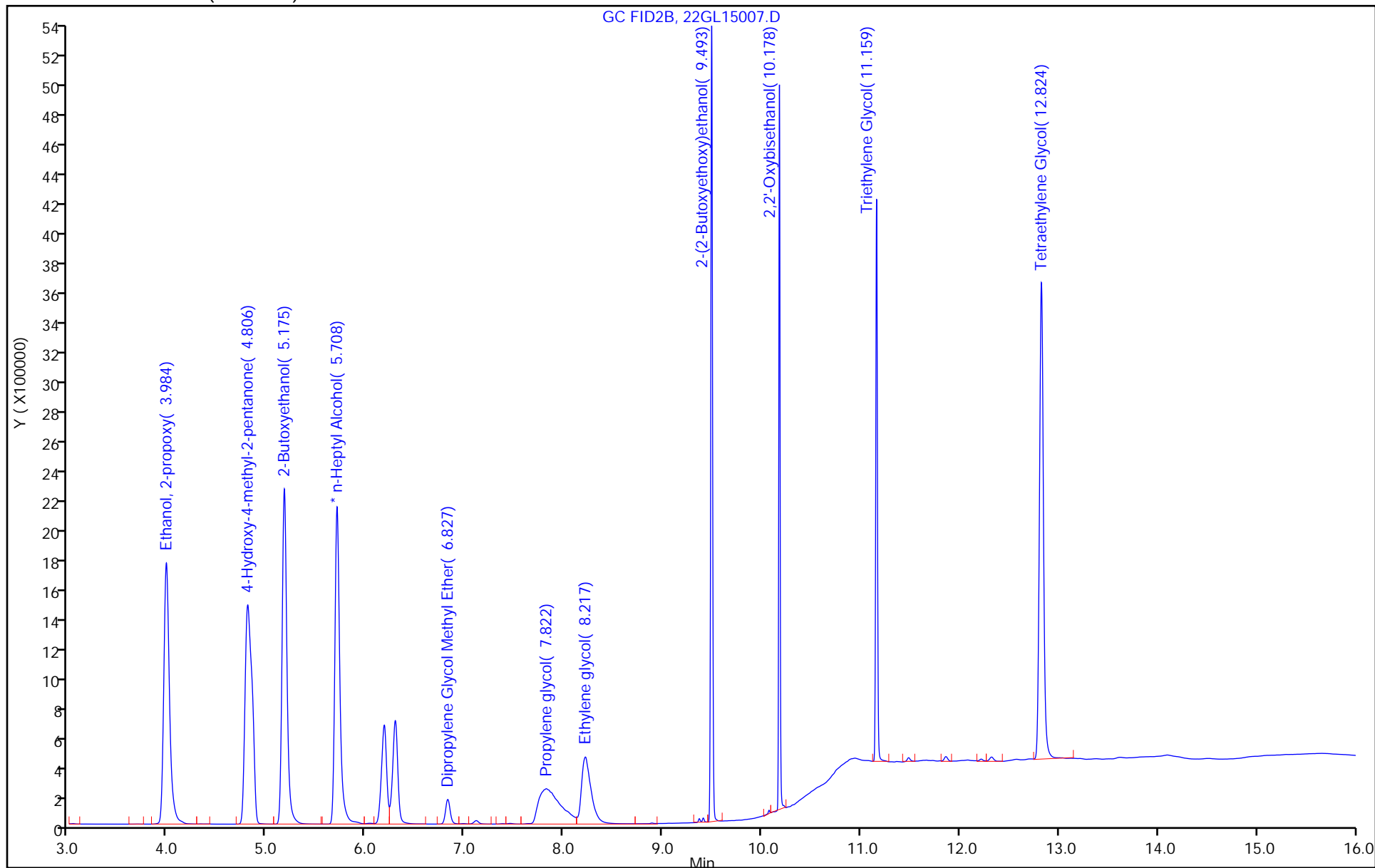
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

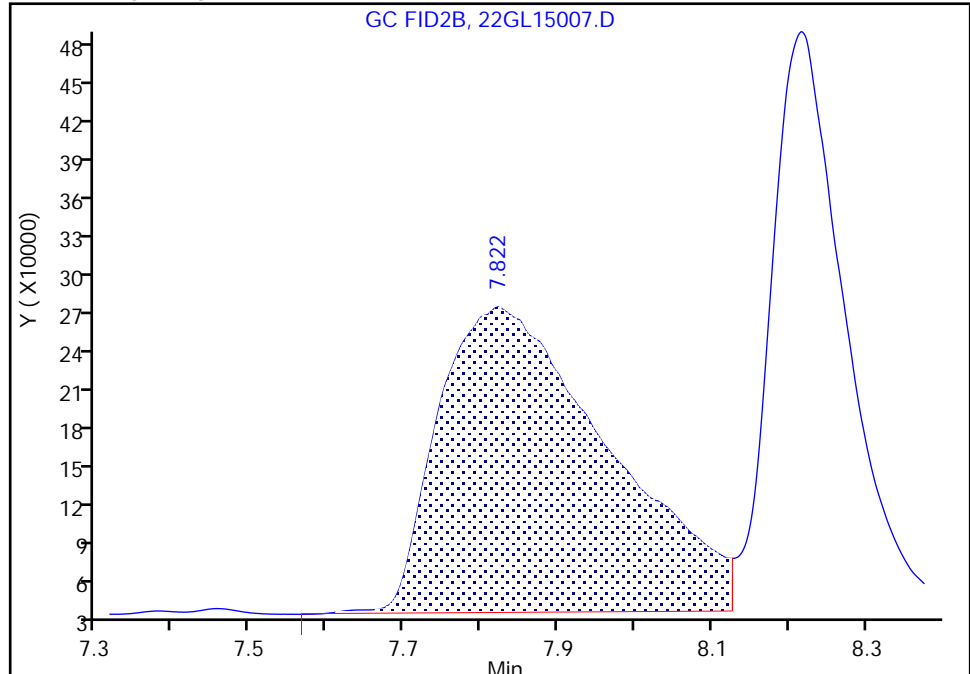
ALS Bottle#: 7 Worklist Smp#: 7
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

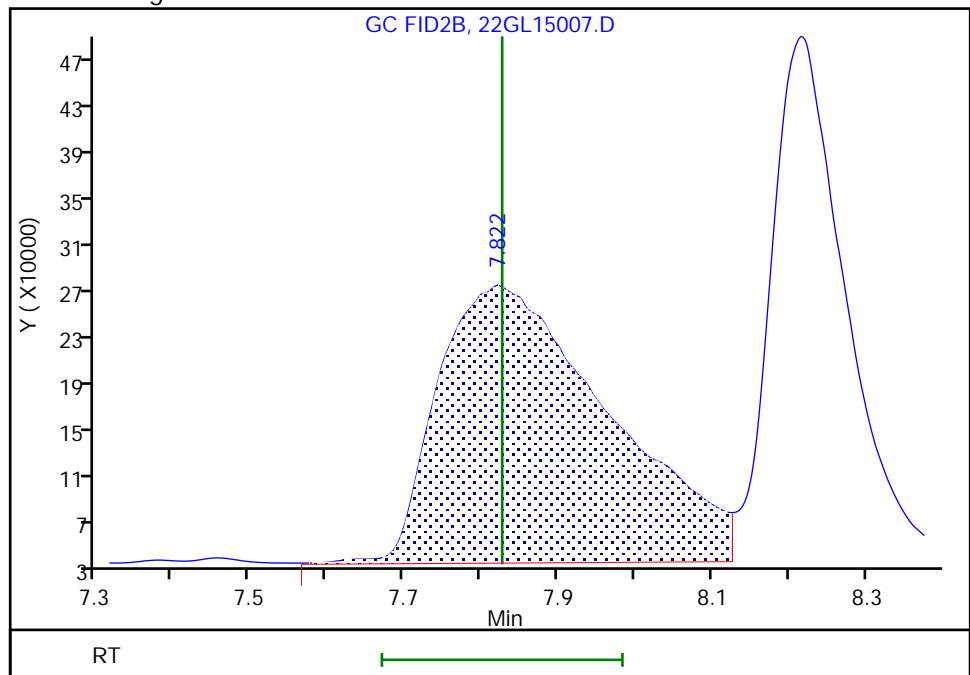
RT: 7.82
Area: 3607792
Amount: 74.721268
Amount Units: ug/ml

Processing Integration Results



RT: 7.82
Area: 3624516
Amount: 71.455054
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:33:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

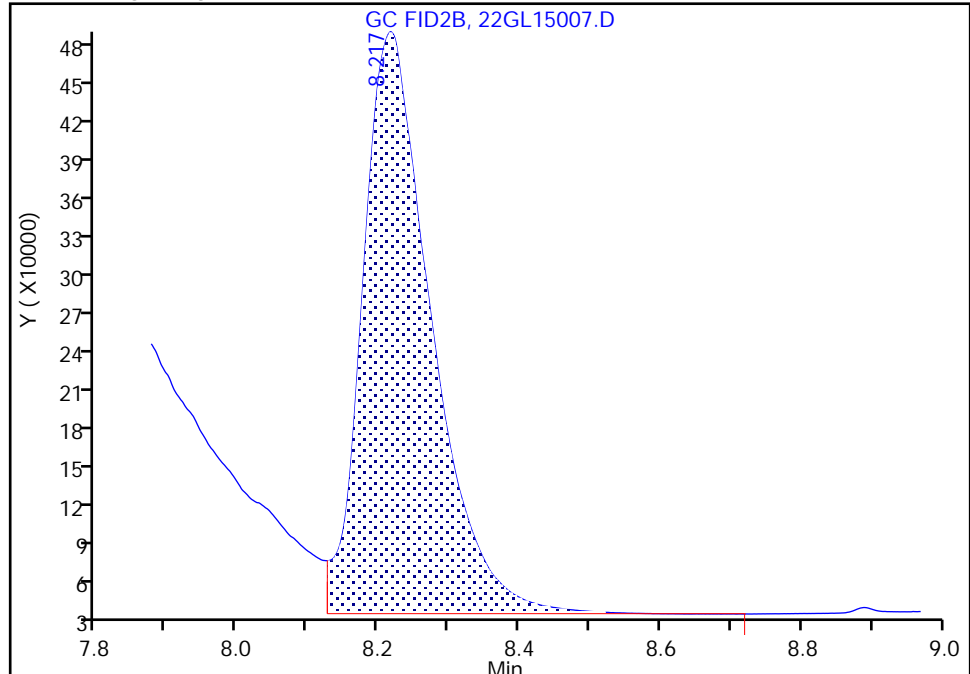
ALS Bottle#: 7 Worklist Smp#: 7
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

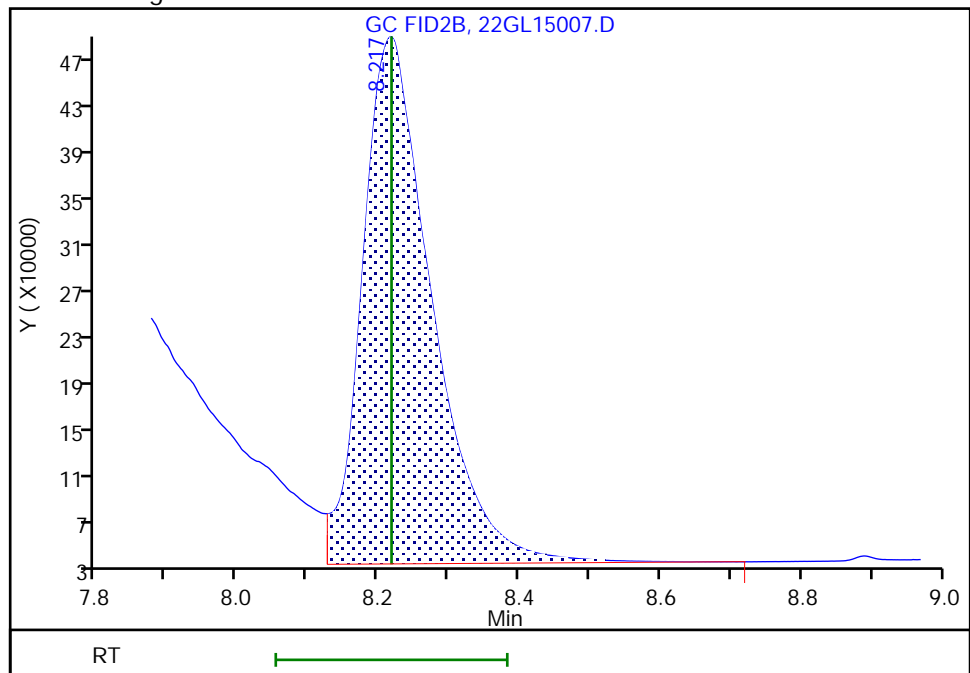
RT: 8.22
Area: 3026716
Amount: 65.536617
Amount Units: ug/ml

Processing Integration Results



RT: 8.22
Area: 3043727
Amount: 61.655254
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:33:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15007.D
Injection Date: 15-Dec-2022 13:40:52 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

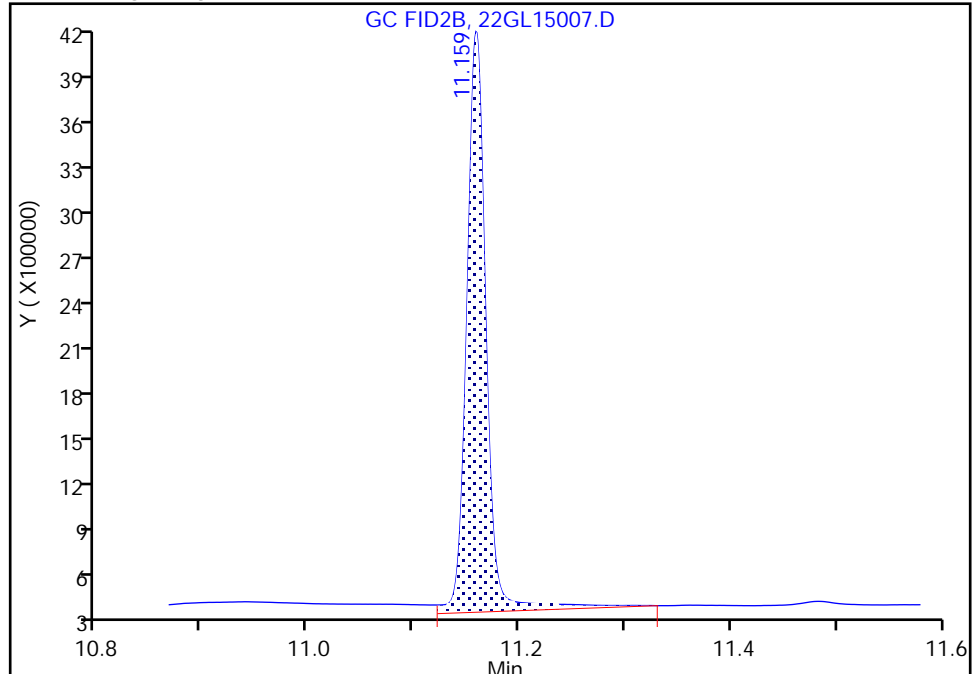
ALS Bottle#: 7 Worklist Smp#: 7
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

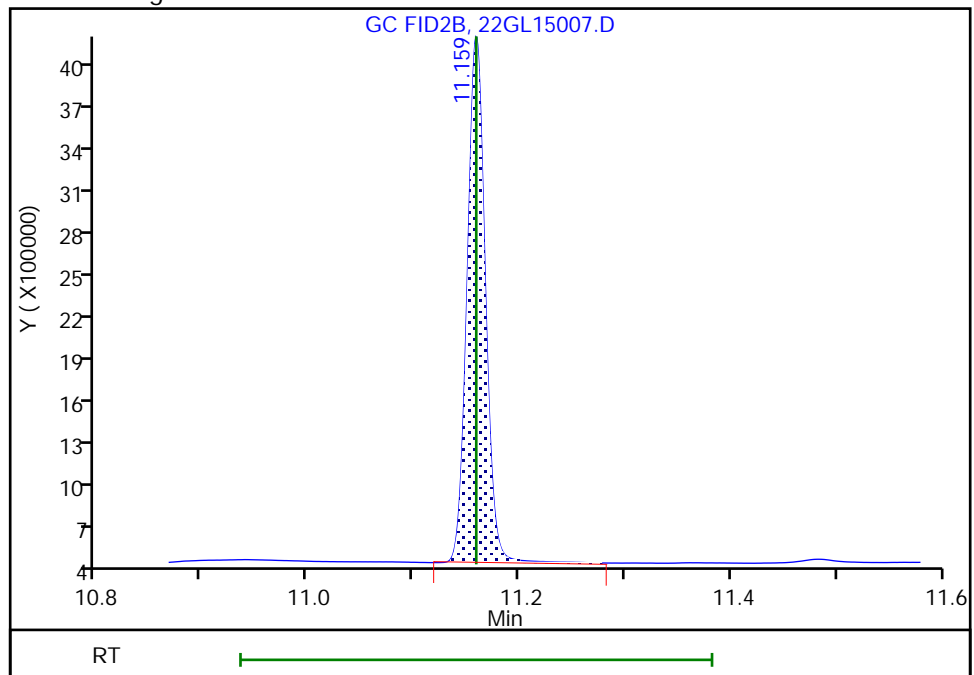
RT: 11.16
Area: 4844633
Amount: 101.9642
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 4464024
Amount: 99.163918
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:27:49
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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12/31/2022
4:49 PM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Dec-2022 14:03:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:03 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:28:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	3.981	3.983	-0.002	6285698	80.0	80.3
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	6609451	80.0	80.7
3 2-Butoxyethanol	5.176	5.175	0.001	6774865	80.0	80.1
* 4 n-Heptyl Alcohol	5.710	5.708	0.002	7544066	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.831	6.831	0.000	502049	80.0	83.3
6 Propylene glycol	7.826	7.827	-0.001	4183063	80.0	81.4
7 Ethylene glycol	8.218	8.218	0.000	3811895	80.0	76.2
8 2-(2-Butoxyethoxy)ethanol	9.493	9.491	0.002	6163303	80.0	82.3
9 2,2'-Oxybisethanol	10.178	10.176	0.002	3866081	80.0	80.5
10 Triethylene Glycol	11.159	11.159	0.000	3867921	80.0	84.5
11 Tetraethylene Glycol	12.822	12.821	0.001	7703370	160.0	172.9

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047

Amount Added: 40.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D

Injection Date: 15-Dec-2022 14:03:30

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

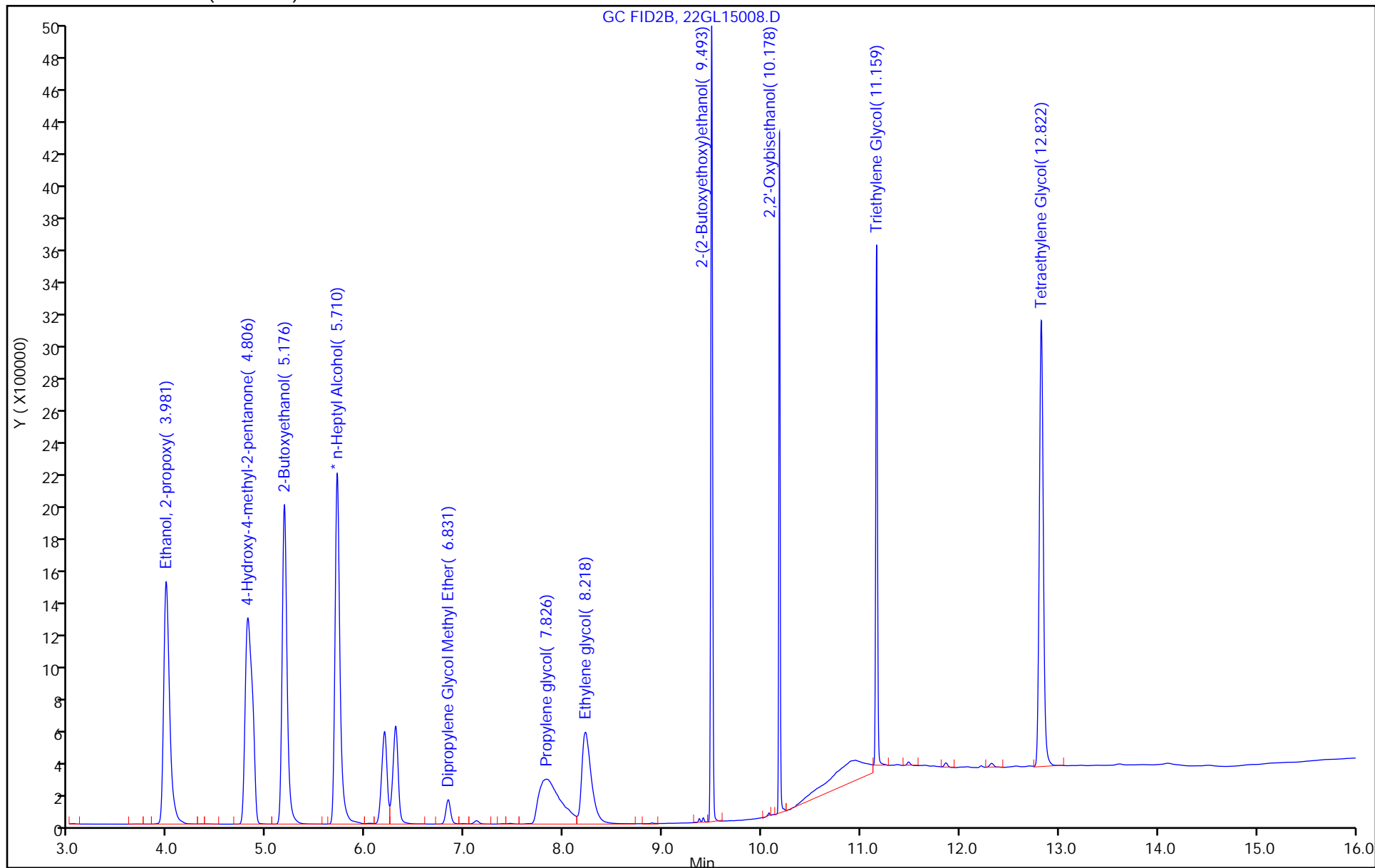
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

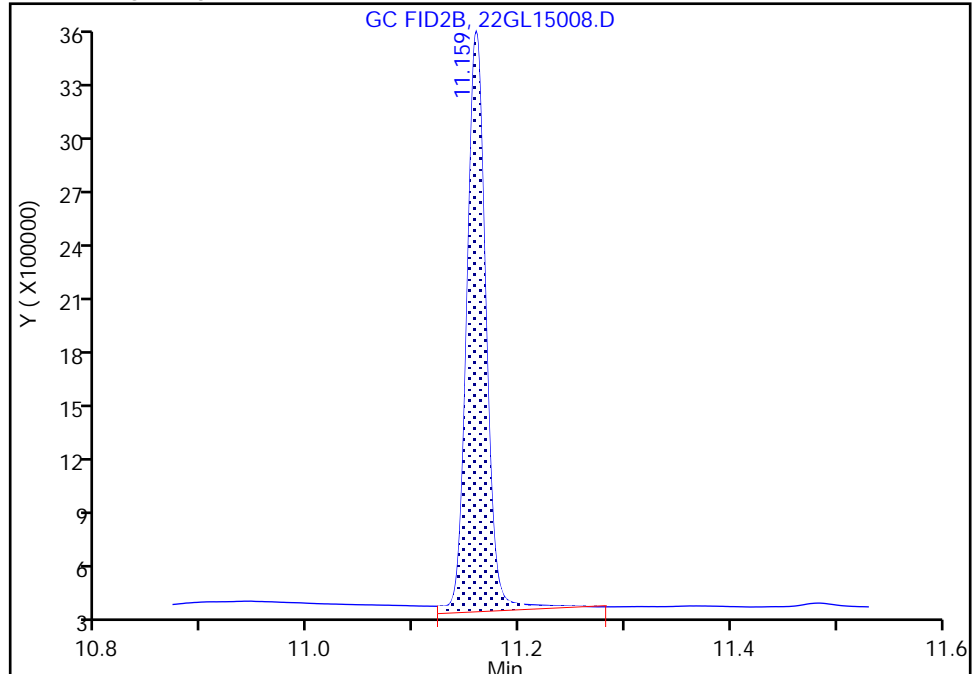
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15008.D
Injection Date: 15-Dec-2022 14:03:30 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

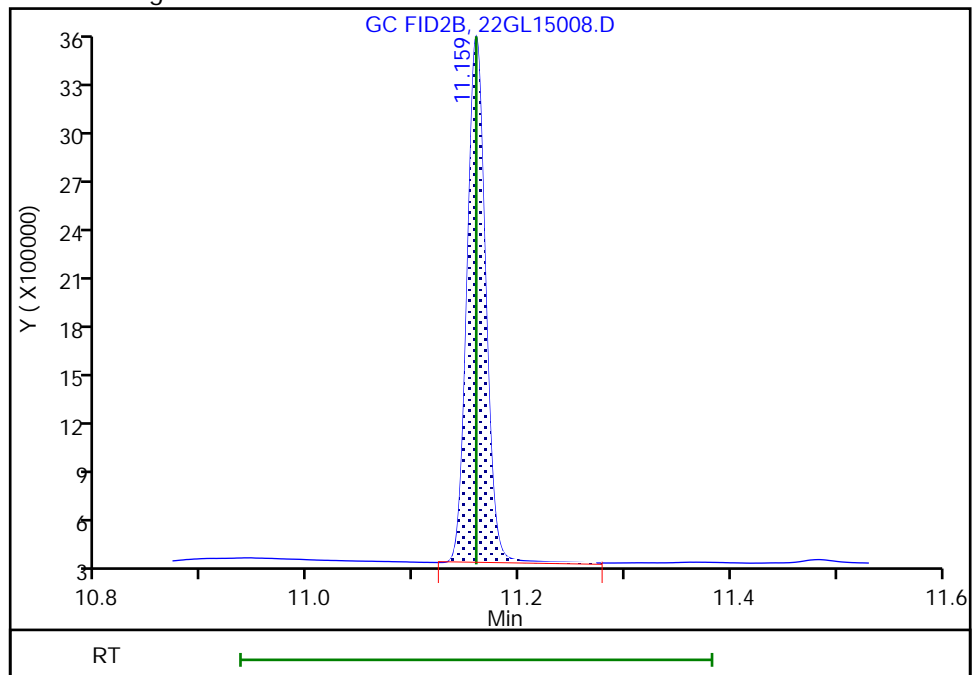
RT: 11.16
Area: 4076952
Amount: 85.617419
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 3867921
Amount: 84.513452
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:02
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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12/31/2022
4:49 PM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D
 Lims ID: ic g4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Dec-2022 14:26:10 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:04 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:28:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	3.981	3.981	0.000	2587988	50.0	44.5
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	2688287	50.0	44.1
3 2-Butoxyethanol	5.175	5.175	0.000	2757997	50.0	43.9
* 4 n-Heptyl Alcohol	5.709	5.709	0.000	5607434	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.829	6.829	0.000	196877	50.0	44.0
6 Propylene glycol	7.829	7.829	0.000	1725397	50.0	45.2
7 Ethylene glycol	8.218	8.218	0.000	1642095	50.0	44.2
8 2-(2-Butoxyethoxy)ethanol	9.492	9.492	0.000	2462169	50.0	44.2
9 2,2'-Oxybisethanol	10.177	10.177	0.000	1561212	50.0	43.7
10 Triethylene Glycol	11.159	11.159	0.000	1560681	50.0	45.0 M
11 Tetraethylene Glycol	12.823	12.823	0.000	2937100	100.0	87.0 M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

[Reagents:](#)

SG_Gly_CAL_00047

Amount Added: 25.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D

Injection Date: 15-Dec-2022 14:26:10

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g4

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

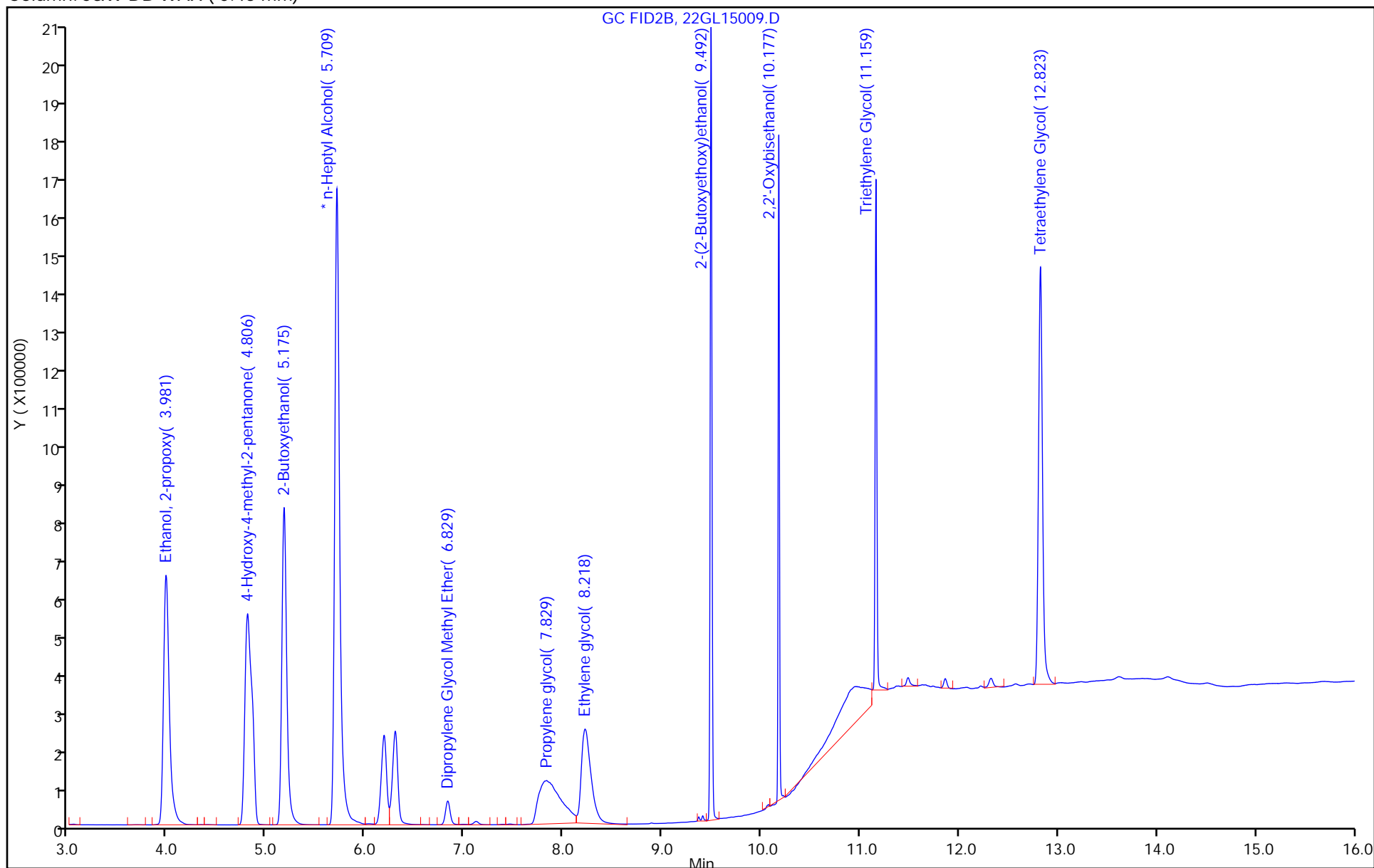
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

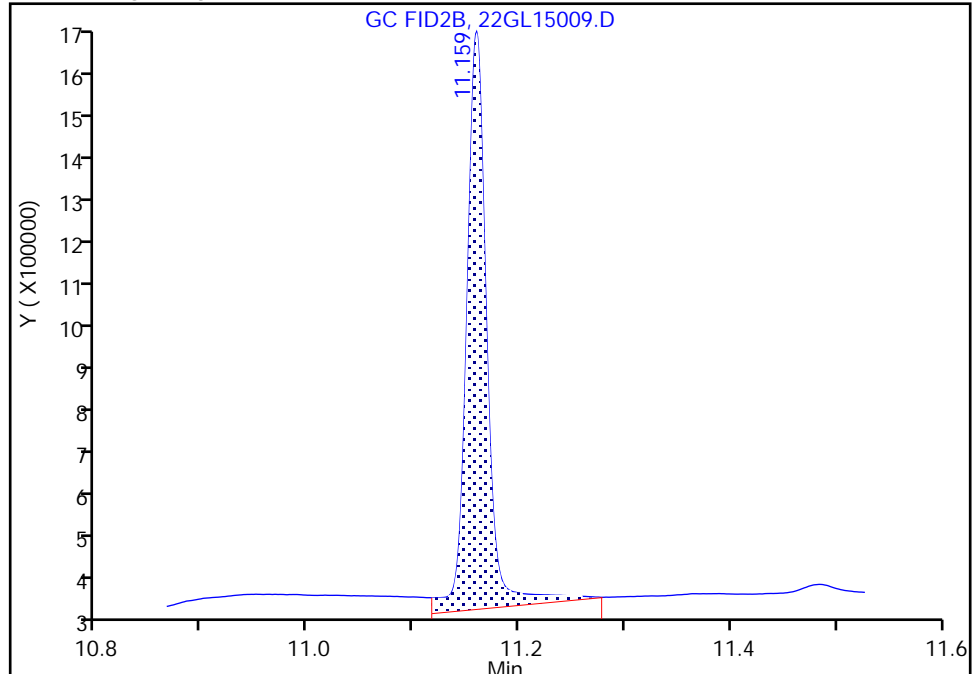
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15009.D
Injection Date: 15-Dec-2022 14:26:10 Instrument ID: CVGG2
Lims ID: ic g4
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

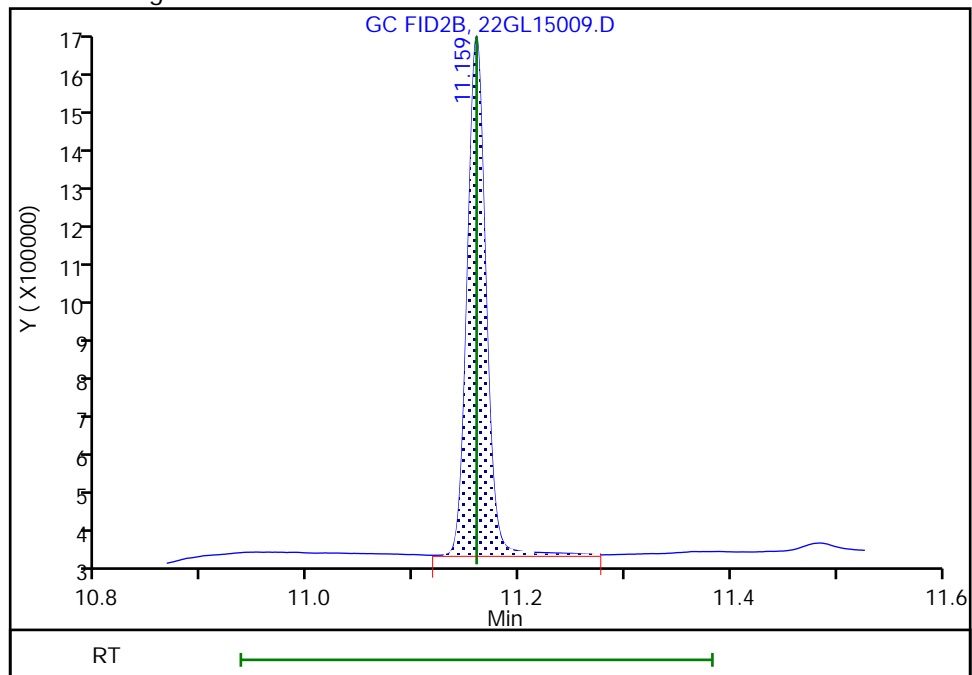
RT: 11.16
Area: 1737472
Amount: 46.932084
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 1560681
Amount: 44.962836
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:13
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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4:49 PM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
 Lims ID: icis g3
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 15-Dec-2022 14:48:56 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-010
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:28:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

1 Ethanol, 2-propoxy	3.983	3.983	0.000	1332867	20.0	19.9
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	1399741	20.0	20.0
3 2-Butoxyethanol	5.175	5.175	0.000	1432260	20.0	19.8
* 4 n-Heptyl Alcohol	5.708	5.708	0.000	6443842	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.831	6.831	0.000	112172	20.0	21.8
6 Propylene glycol	7.827	7.827	0.000	943990	20.0	21.5 M
7 Ethylene glycol	8.218	8.218	0.000	879839	20.0	20.6 M
8 2-(2-Butoxyethoxy)ethanol	9.491	9.491	0.000	1256158	20.0	19.6 M
9 2,2'-Oxybisethanol	10.176	10.176	0.000	824970	20.0	20.1
10 Triethylene Glycol	11.159	11.159	0.000	858022	20.0	20.5 M
11 Tetraethylene Glycol	12.821	12.821	0.000	1633146	40.0	40.3

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

[Reagents:](#)

SG_Gly_CAL_00047

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D

Injection Date: 15-Dec-2022 14:48:56

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g3

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

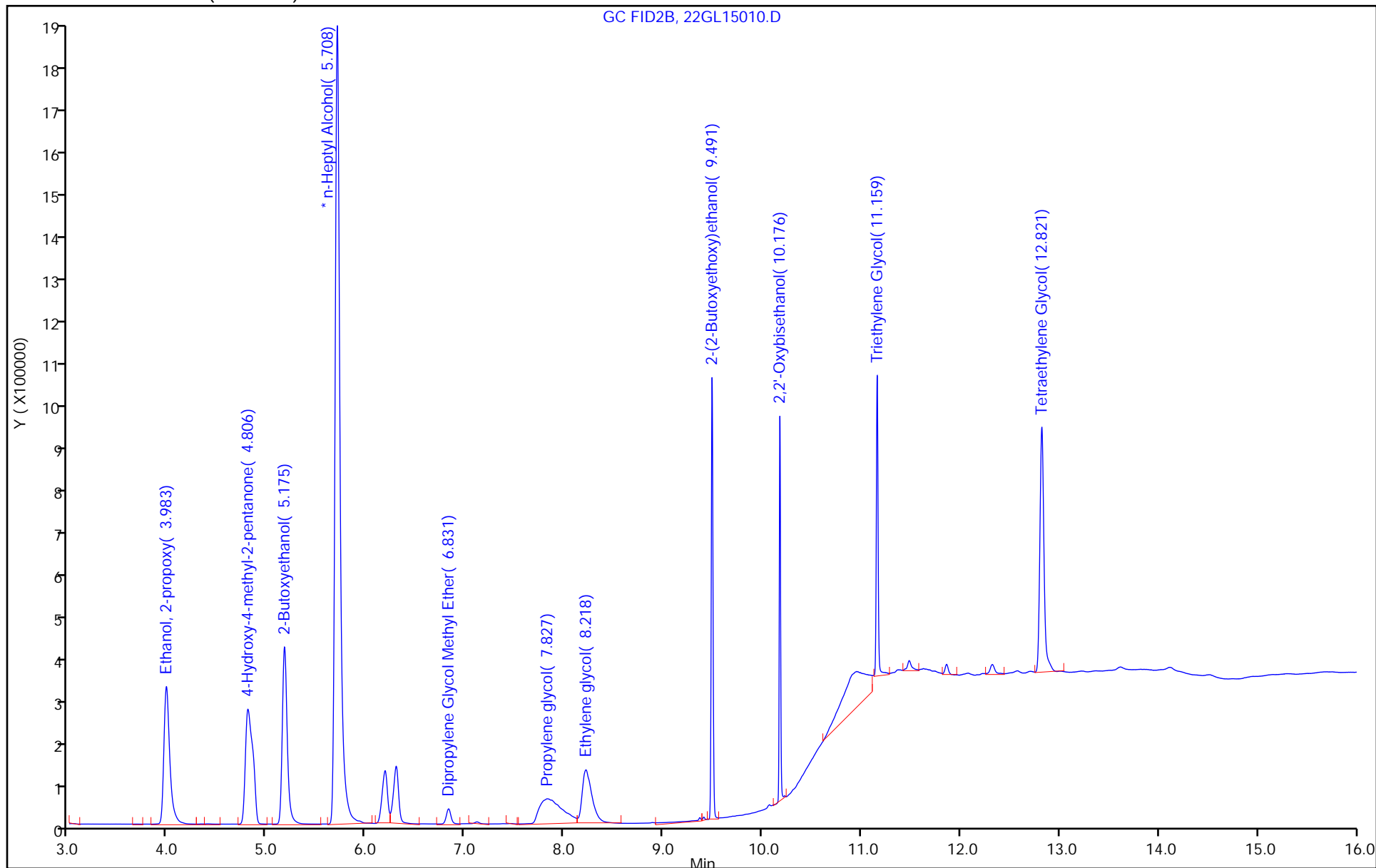
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

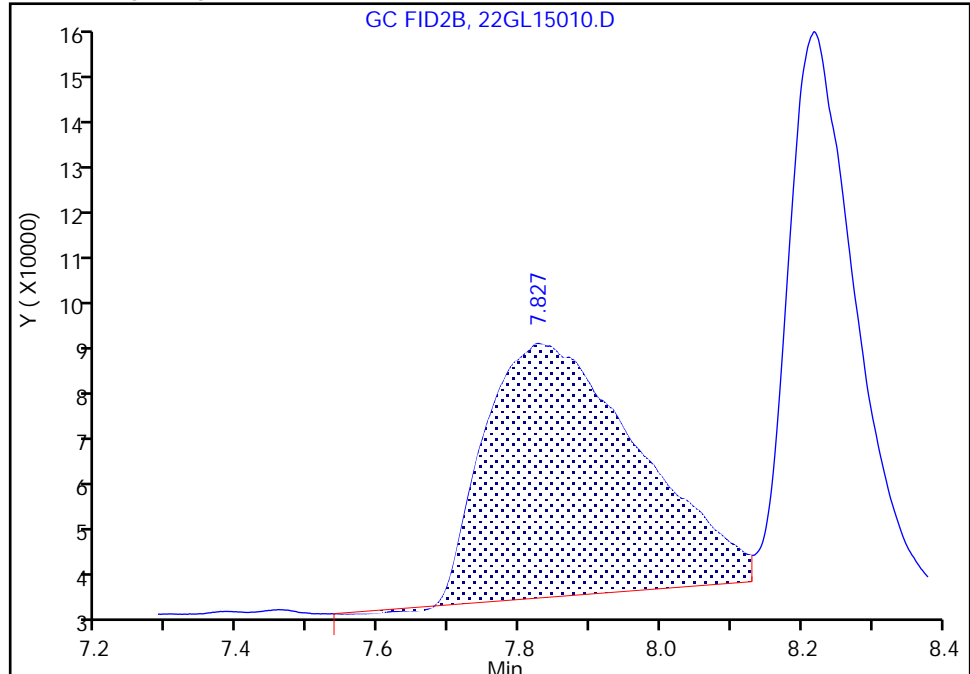
ALS Bottle#: 10 Worklist Smp#: 10
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

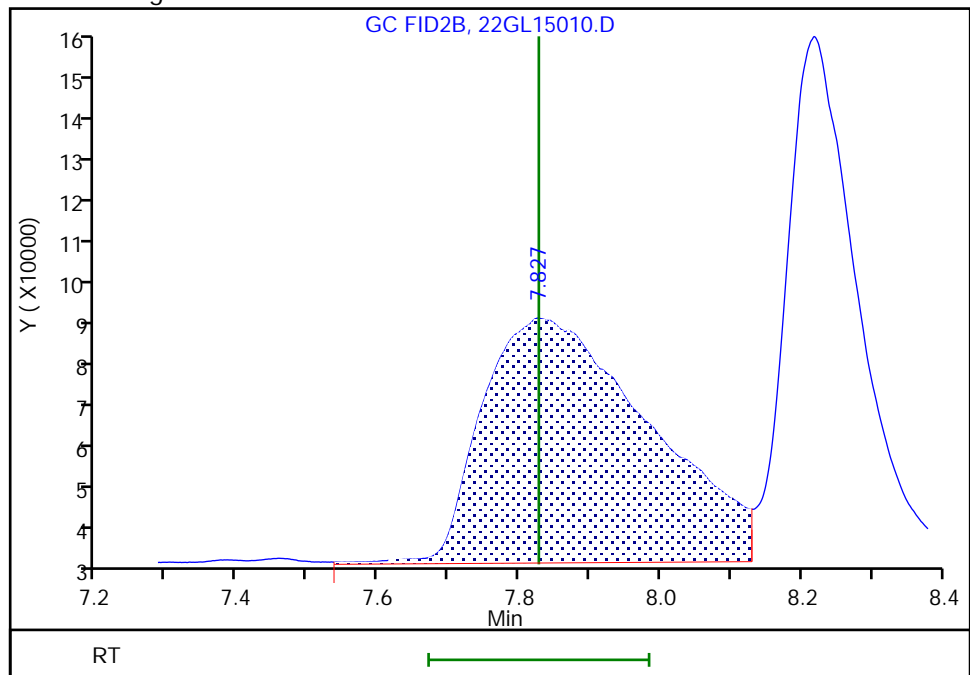
RT: 7.83
Area: 829696
Amount: 20.319088
Amount Units: ug/ml

Processing Integration Results



RT: 7.83
Area: 943990
Amount: 21.503992
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:33
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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4:49 PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

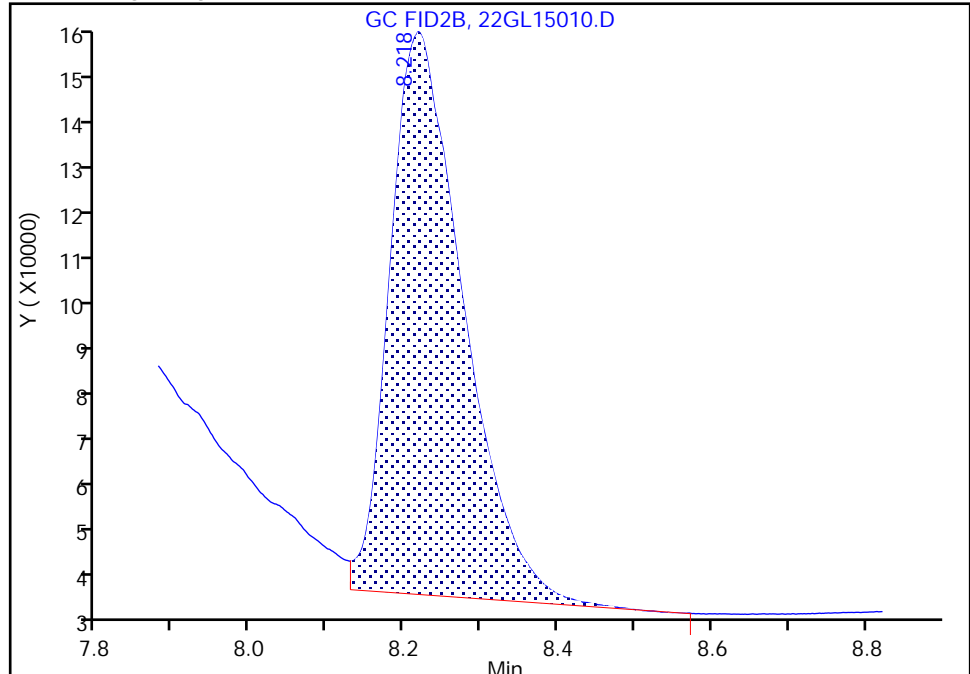
ALS Bottle#: 10 Worklist Smp#: 10
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

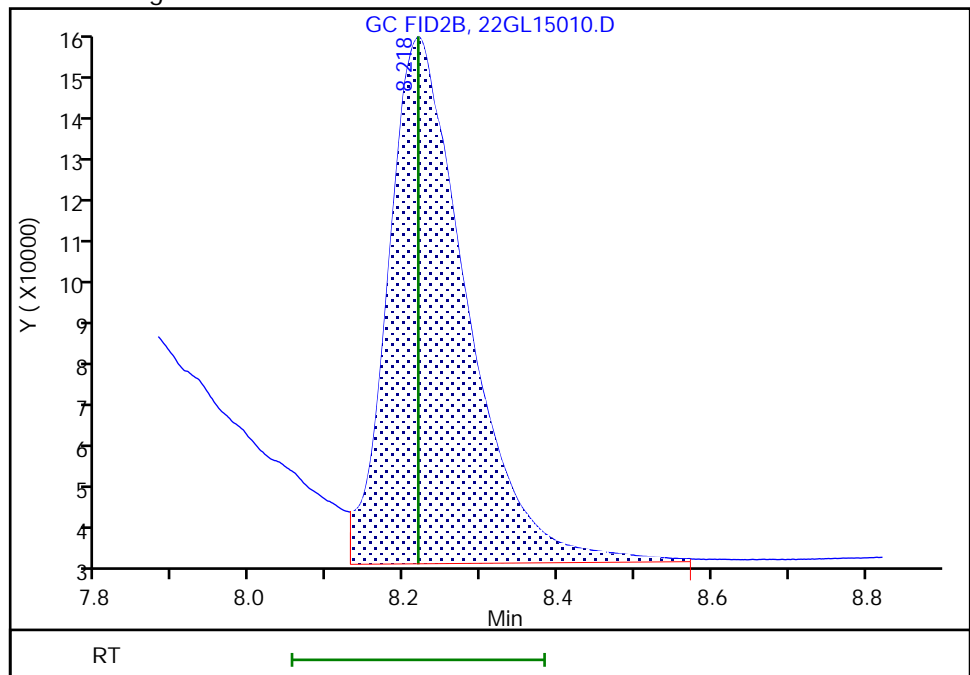
RT: 8.22
Area: 793578
Amount: 20.218674
Amount Units: ug/ml

Processing Integration Results



RT: 8.22
Area: 879839
Amount: 20.593794
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

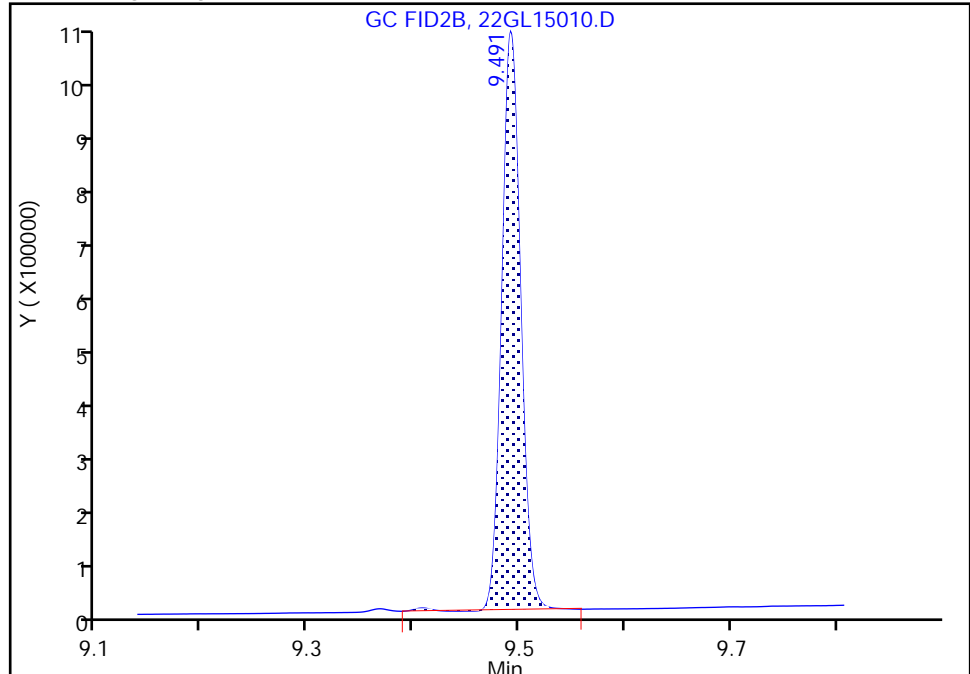
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

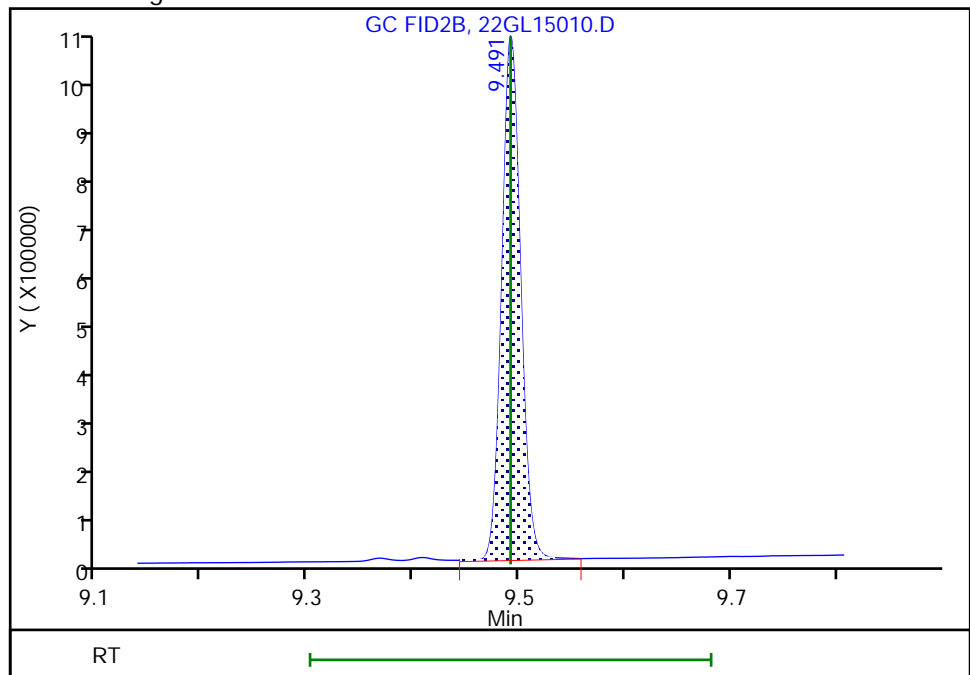
RT: 9.49
Area: 1255008
Amount: 19.623557
Amount Units: ug/ml

Processing Integration Results



RT: 9.49
Area: 1256158
Amount: 19.638596
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:41
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing
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Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15010.D
Injection Date: 15-Dec-2022 14:48:56 Instrument ID: CVGG2
Lims ID: icis g3
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

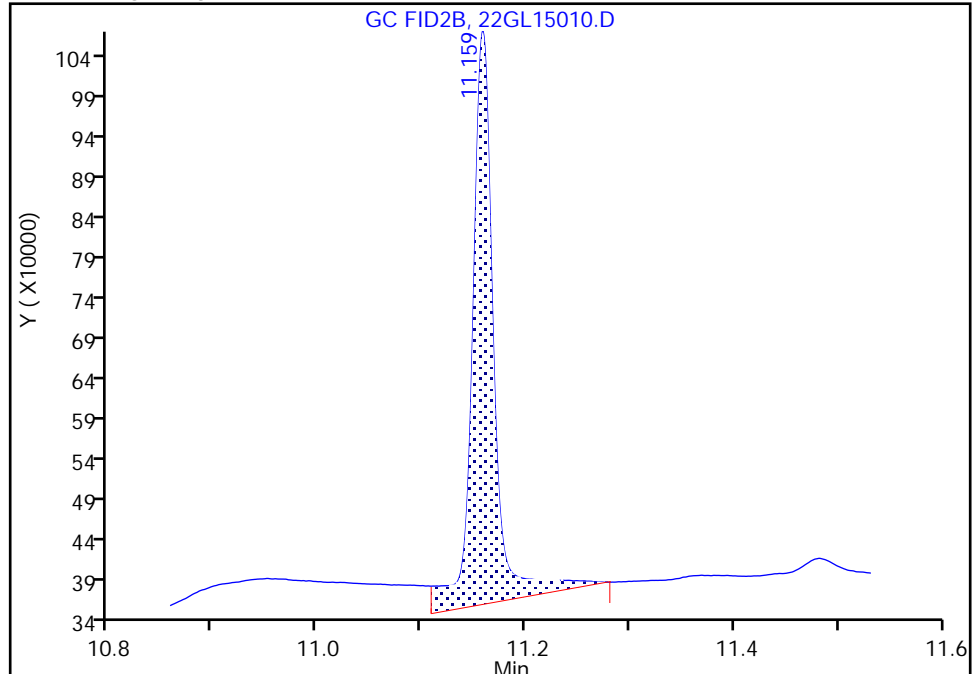
ALS Bottle#: 10 Worklist Smp#: 10
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

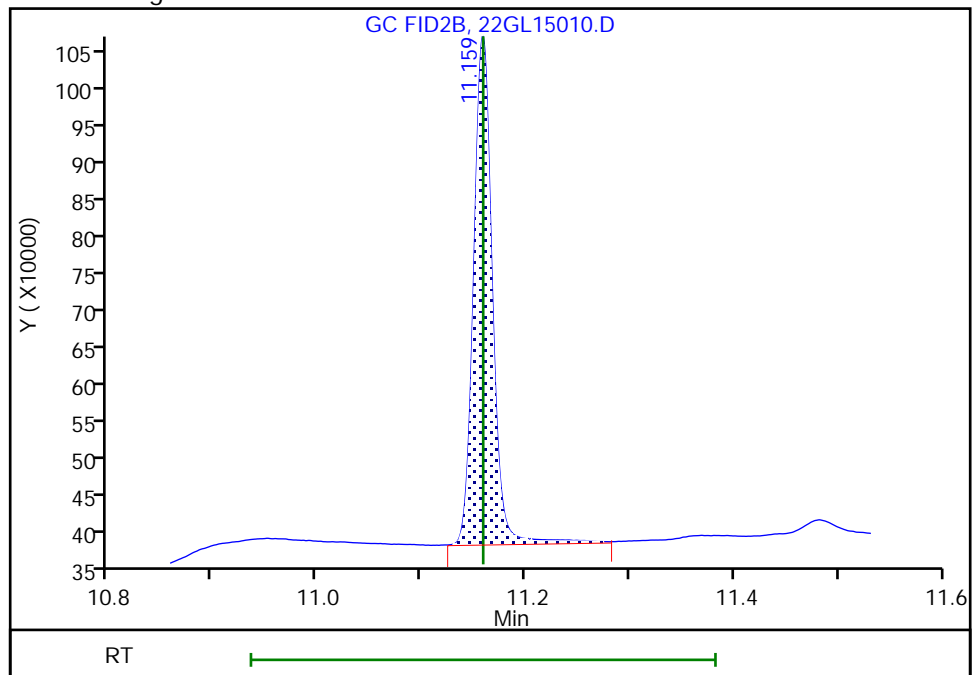
RT: 11.16
Area: 1034865
Amount: 21.453305
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 858022
Amount: 20.466776
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:33
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Dec-2022 15:11:35 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-011
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:05 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:29:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	3.983	3.983	0.000	791260	10.0	10.7	
2 4-Hydroxy-4-methyl-2-pentanone	4.806	4.806	0.000	827949	10.0	10.7	
3 2-Butoxyethanol	5.175	5.175	0.000	858121	10.0	10.8	
* 4 n-Heptyl Alcohol	5.708	5.708	0.000	7105611	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	6.830	6.831	-0.001	56303	10.0	9.92	
6 Propylene glycol	7.837	7.827	0.010	434131	10.0	8.97	M
7 Ethylene glycol	8.220	8.218	0.002	450038	10.0	9.55	M
8 2-(2-Butoxyethoxy)ethanol	9.492	9.491	0.001	750029	10.0	10.6	
9 2,2'-Oxybisethanol	10.177	10.176	0.001	475084	10.0	10.5	
10 Triethylene Glycol	11.159	11.159	0.000	529150	10.0	10.6	M
11 Tetraethylene Glycol	12.822	12.821	0.001	989281	20.0	20.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

[Reagents:](#)

SG_Gly_CAL_00047

Amount Added: 5.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D

Injection Date: 15-Dec-2022 15:11:35

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

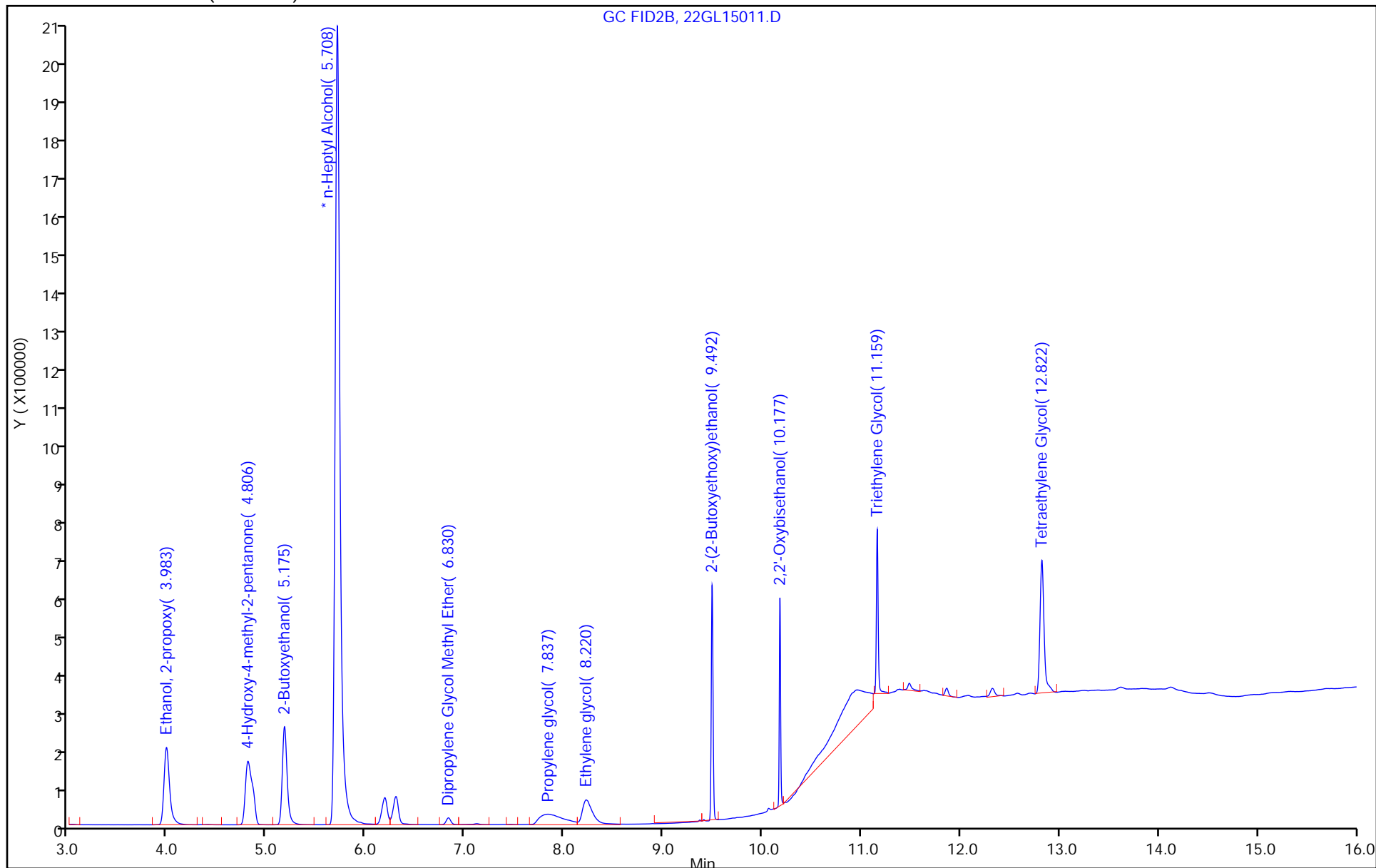
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

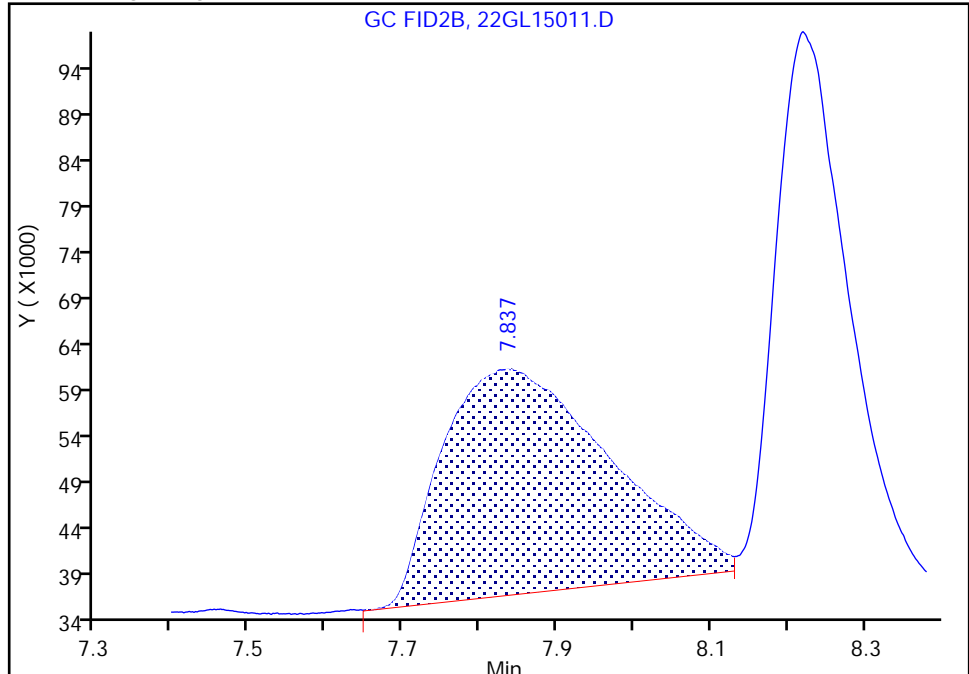
ALS Bottle#: 11 Worklist Smp#: 11
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

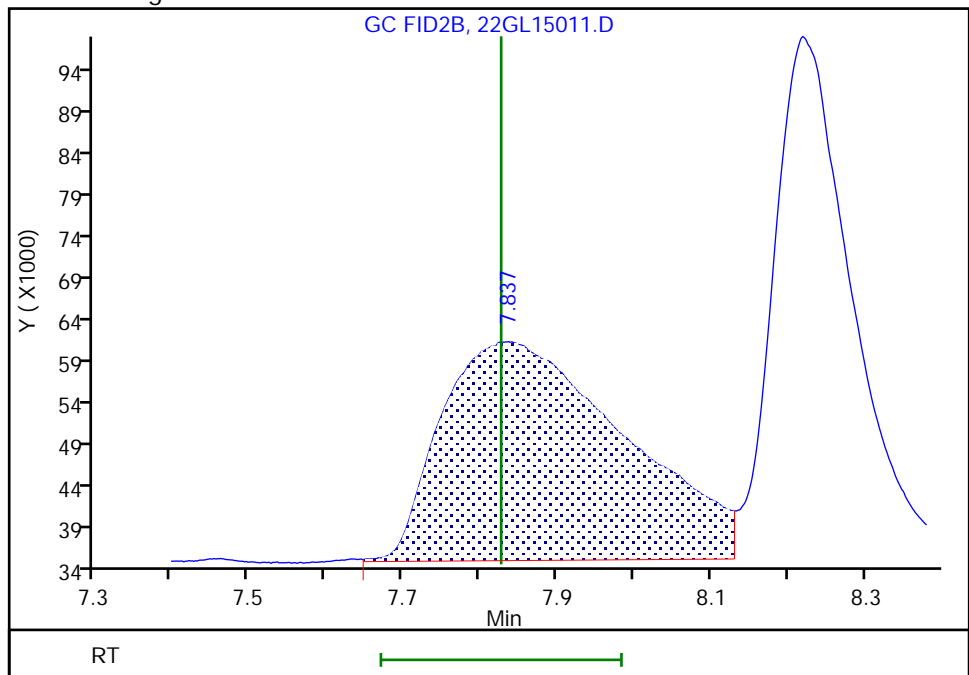
RT: 7.84
Area: 368185
Amount: 8.381609
Amount Units: ug/ml

Processing Integration Results



RT: 7.84
Area: 434131
Amount: 8.968420
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

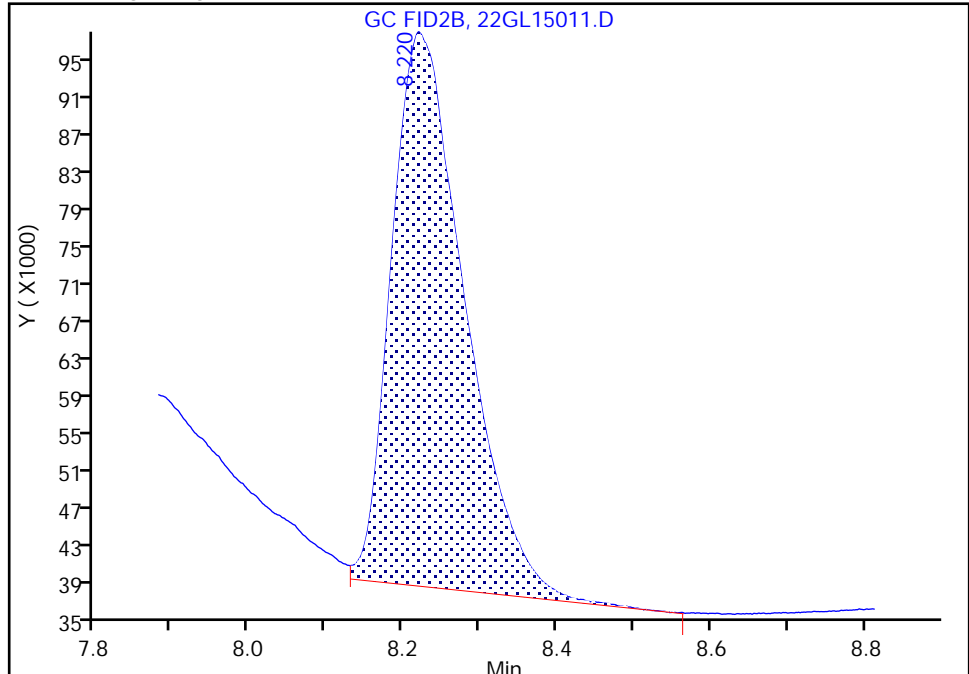
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

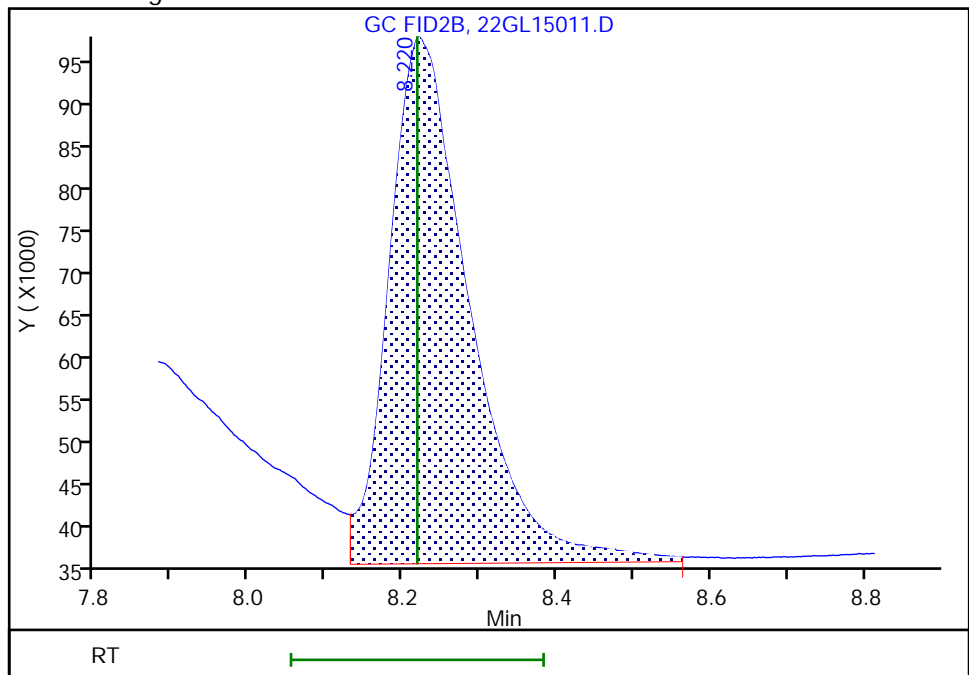
RT: 8.22
Area: 392105
Amount: 9.266320
Amount Units: ug/ml

Processing Integration Results



RT: 8.22
Area: 450038
Amount: 9.552692
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:31:12
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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4:49 PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15011.D
Injection Date: 15-Dec-2022 15:11:35 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

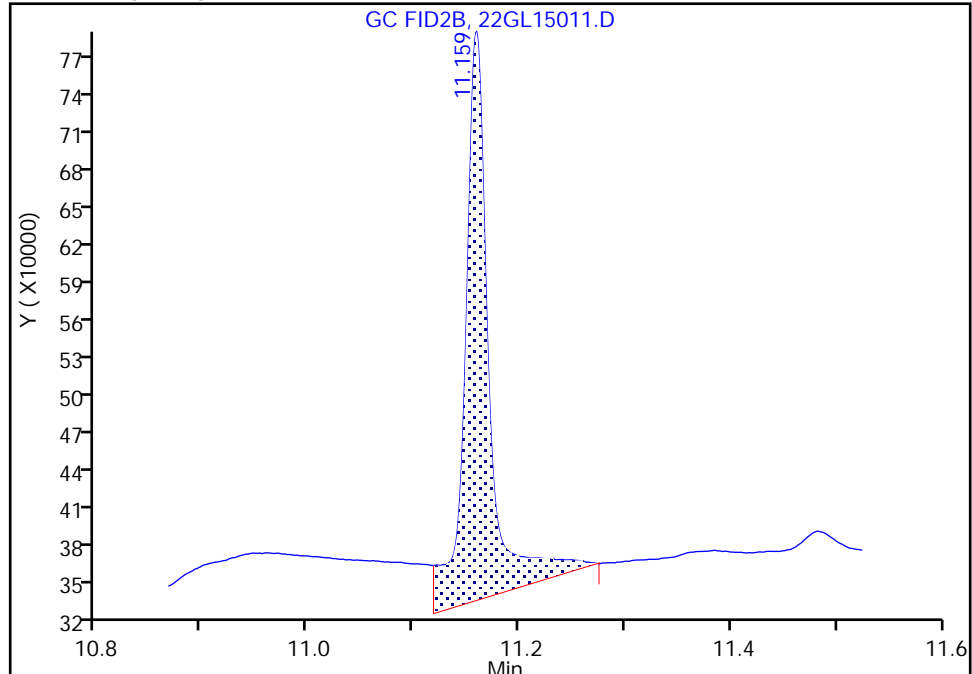
ALS Bottle#: 11 Worklist Smp#: 11
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

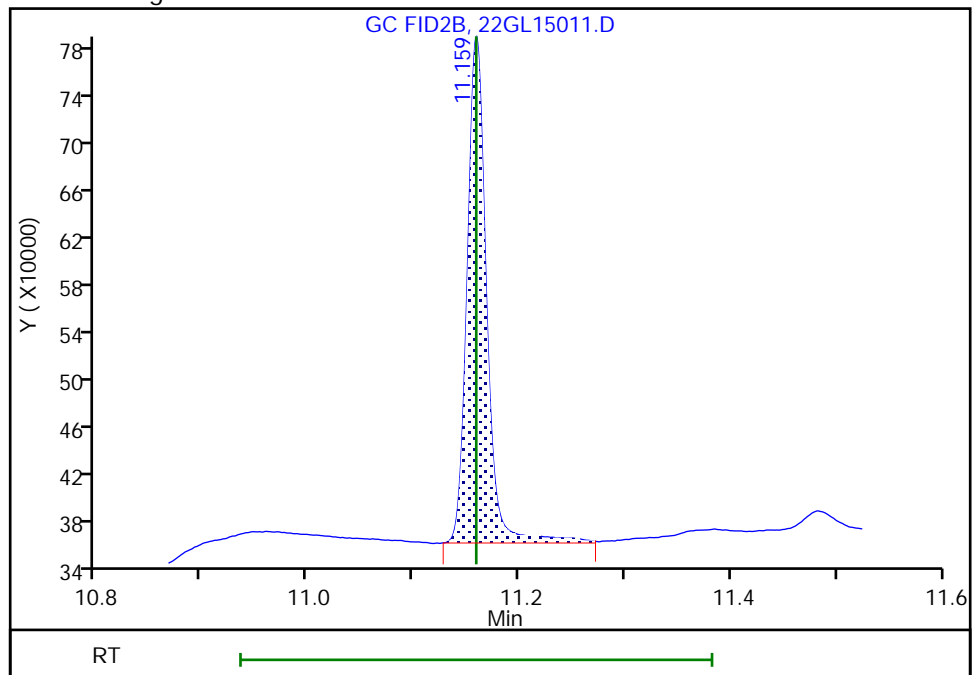
RT: 11.16
Area: 706873
Amount: 10.907512
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 529150
Amount: 10.564312
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:28:58
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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4:49 PM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Dec-2022 15:34:13 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-012
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:35:06 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:29:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

1 Ethanol, 2-propoxy	3.982	3.983	-0.001	416727	5.00	5.61	
2 4-Hydroxy-4-methyl-2-pentanone	4.808	4.806	0.002	434849	5.00	5.59	
3 2-Butoxyethanol	5.175	5.175	0.000	456743	5.00	5.69	
* 4 n-Heptyl Alcohol	5.708	5.708	0.000	7165368	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	6.830	6.831	-0.001	30872	5.00	5.39	
6 Propylene glycol	7.822	7.827	-0.005	270235	5.00	5.54	M
7 Ethylene glycol	8.221	8.218	0.003	280066	5.00	5.90	M
8 2-(2-Butoxyethoxy)ethanol	9.492	9.491	0.001	405977	5.00	5.71	
9 2,2'-Oxybisethanol	10.177	10.176	0.001	256938	5.00	5.63	
10 Triethylene Glycol	11.157	11.159	-0.002	291568	5.00	4.86	M
11 Tetraethylene Glycol	12.819	12.821	-0.002	557362	10.0	9.92	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00047

Amount Added: 2.50

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D

Injection Date: 15-Dec-2022 15:34:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

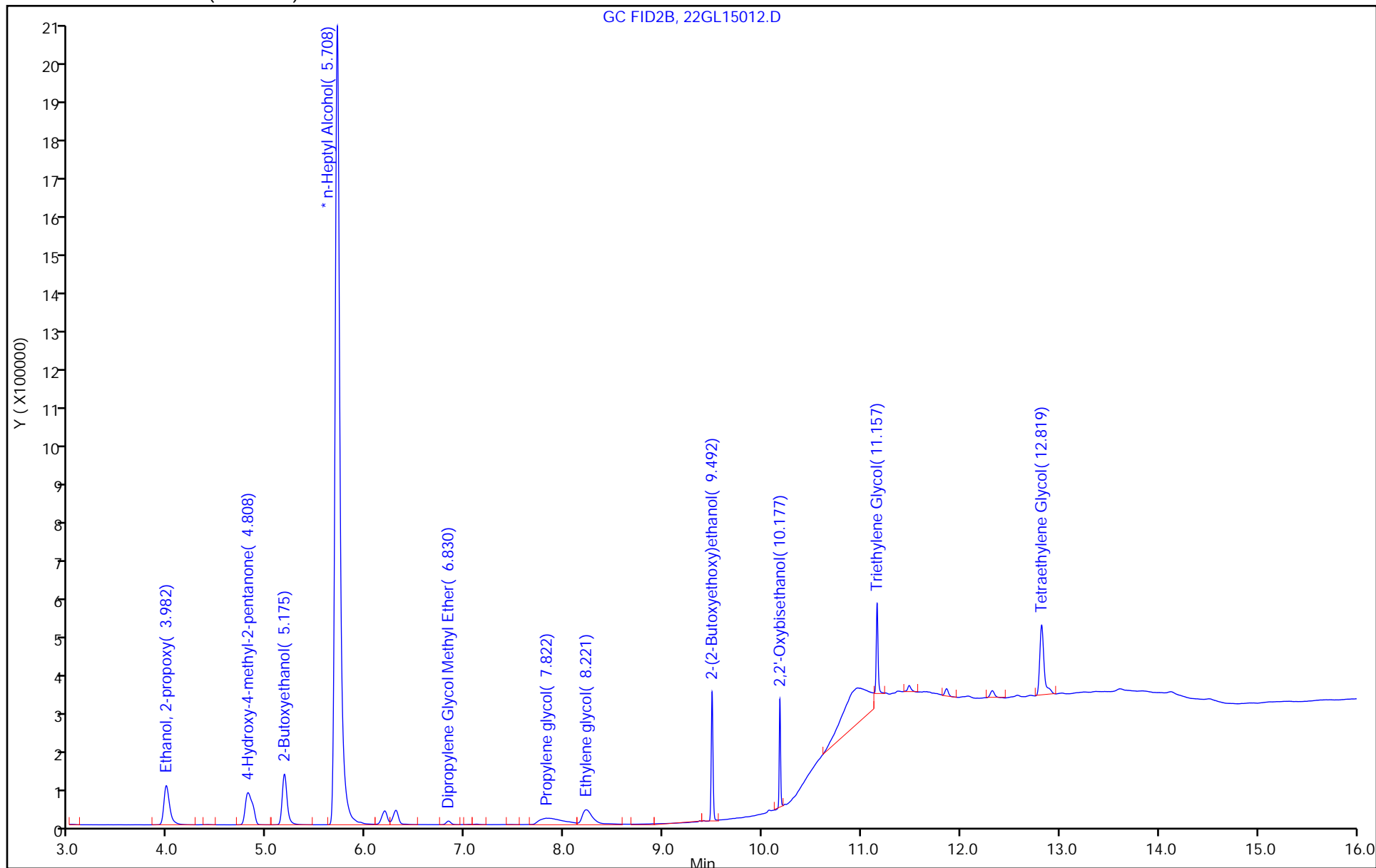
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

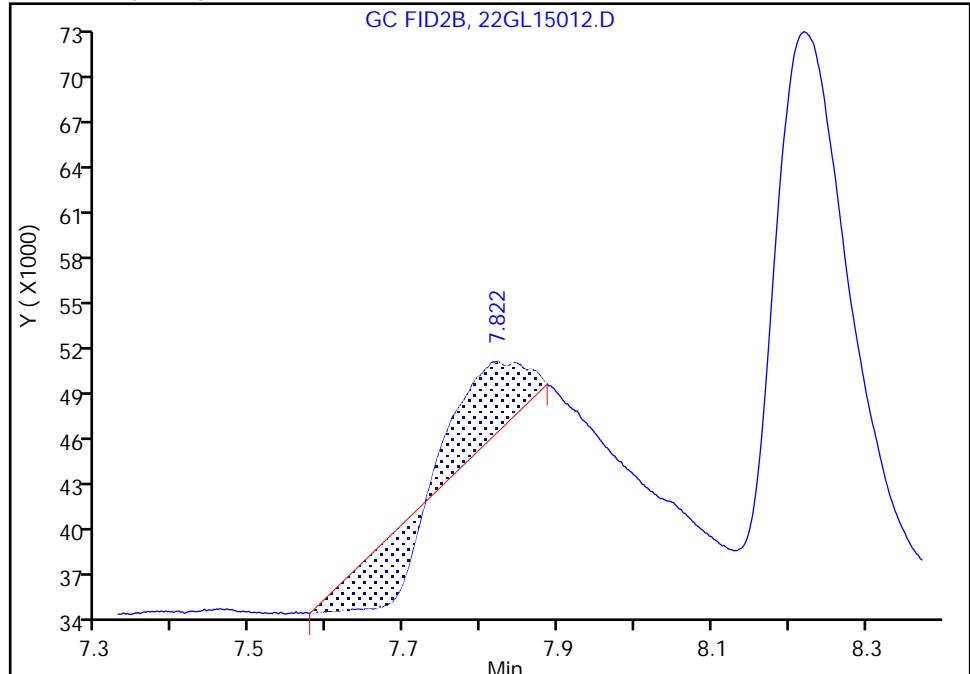
ALS Bottle#: 12 Worklist Smp#: 12
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

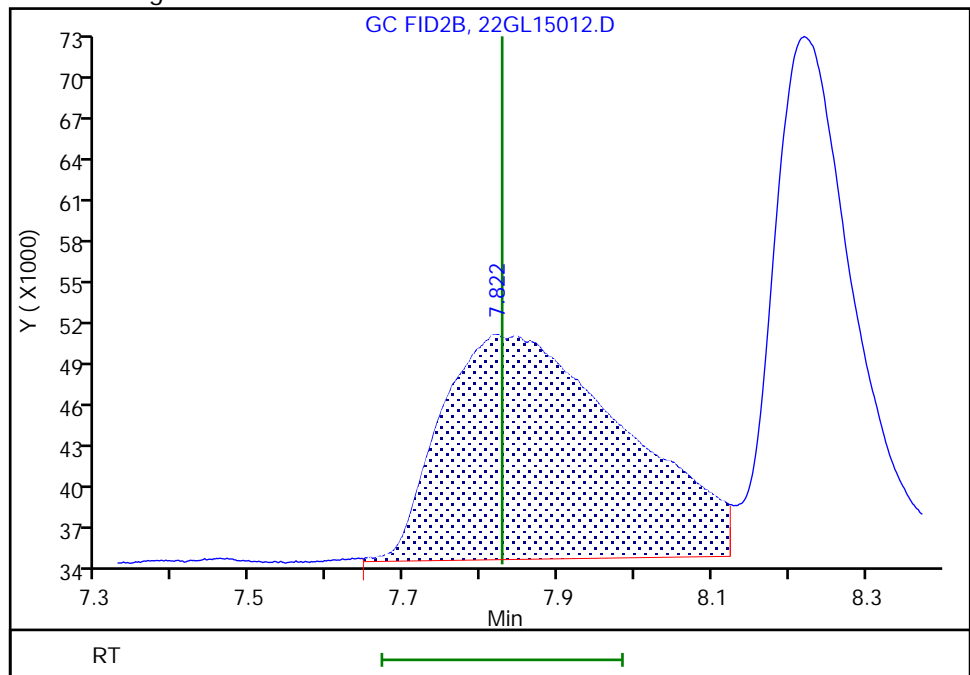
RT: 7.82
Area: 7878
Amount: 0.221591
Amount Units: ug/ml

Processing Integration Results



RT: 7.82
Area: 270235
Amount: 5.536046
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

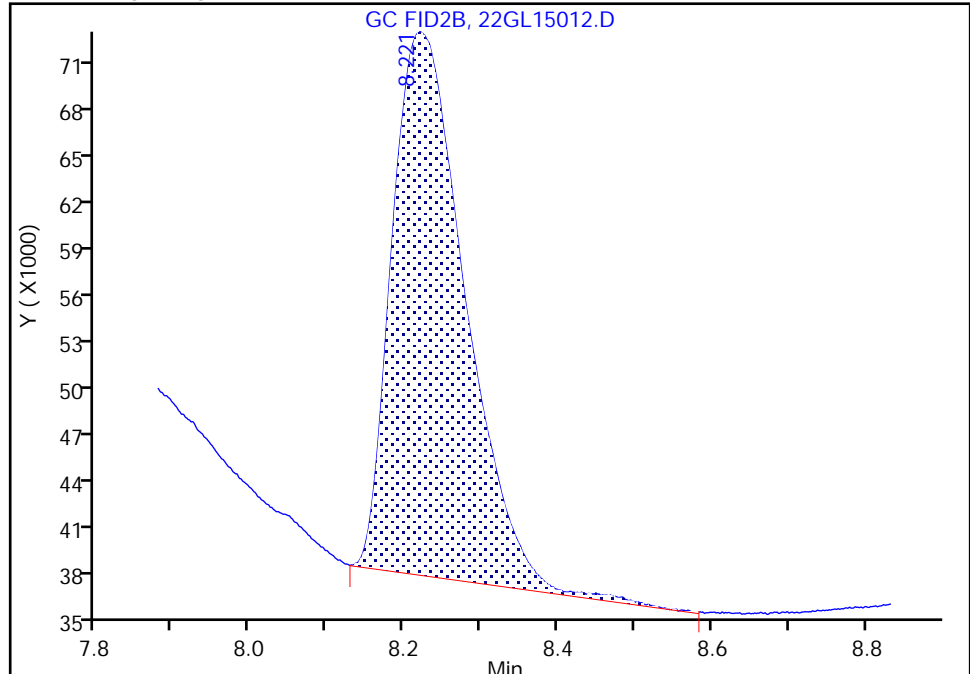
ALS Bottle#: 12 Worklist Smp#: 12
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

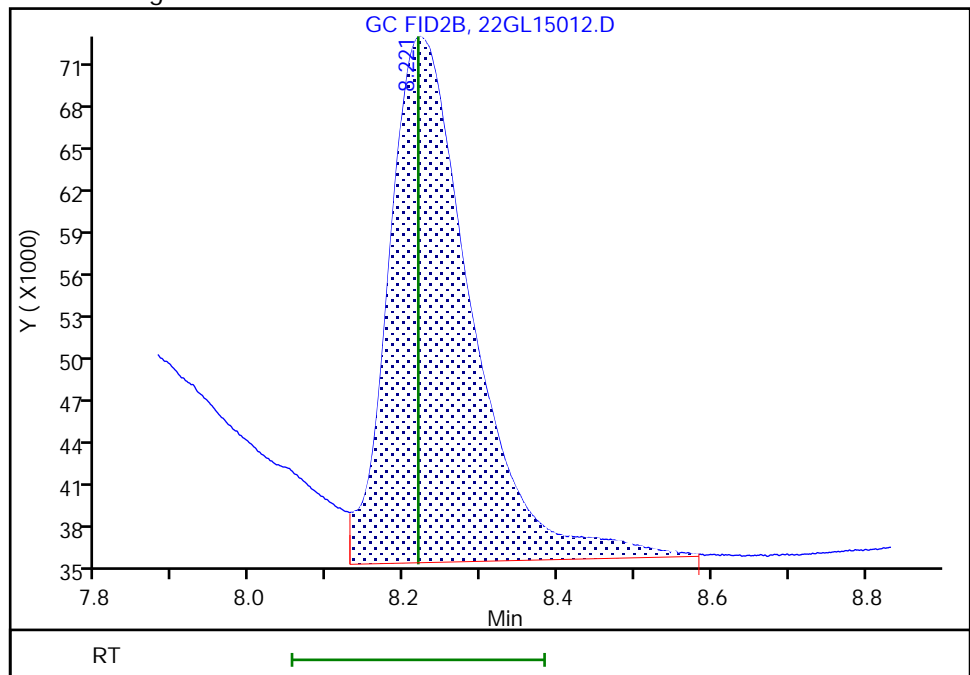
RT: 8.22
Area: 230185
Amount: 5.613141
Amount Units: ug/ml

Processing Integration Results



RT: 8.22
Area: 280066
Amount: 5.895219
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:29:24

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Injection Date: 15-Dec-2022 15:34:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

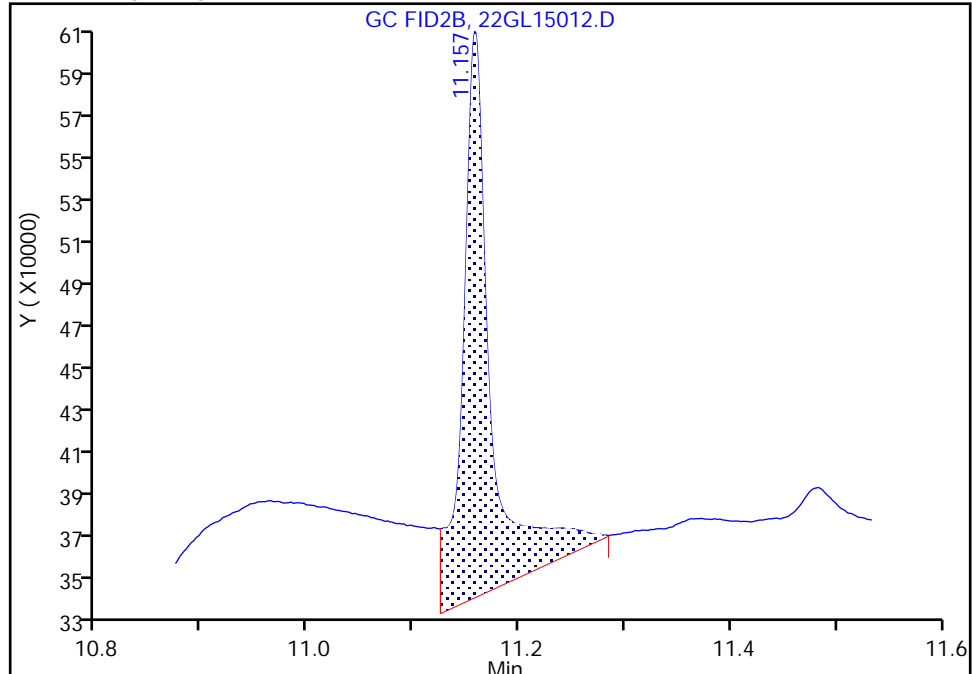
ALS Bottle#: 12 Worklist Smp#: 12
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

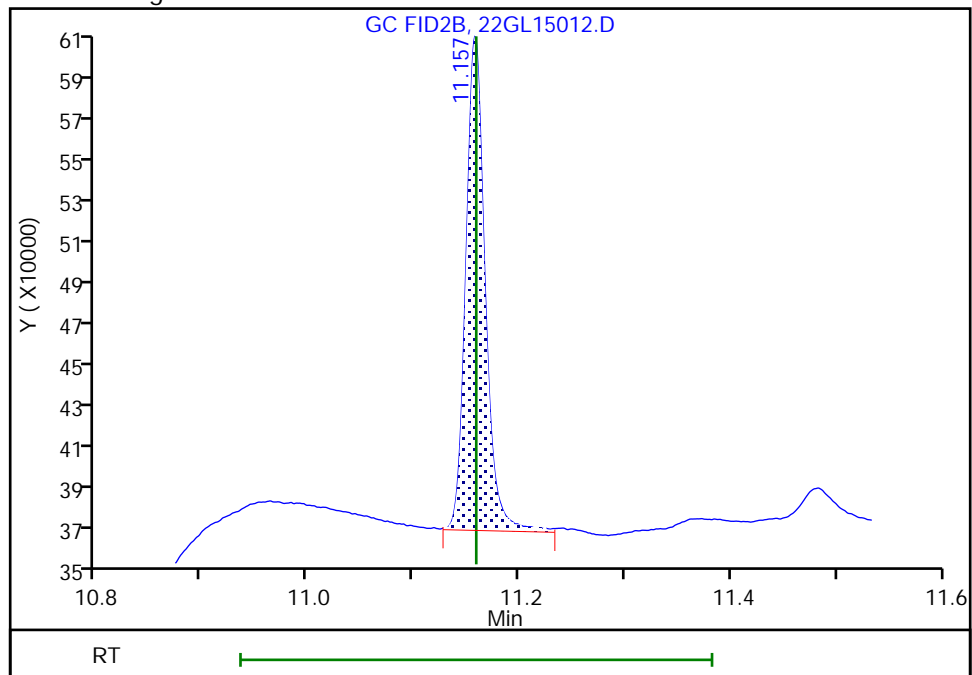
RT: 11.16
Area: 486550
Amount: 5.773755
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 291568
Amount: 4.864580
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:29:18
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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12/31/2022
4:49 PM

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL15013.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5767		22.2	20.0	11.2	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.6080		22.4	20.0	12.0	20.0
2-Butoxyethanol	Ave	0.5604	0.6527		23.3	20.0	16.5	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0509		25.5	20.0	27.3*	20.0
Propylene glycol	Ave	0.3406	0.3726		21.9	20.0	9.4	20.0
Ethylene glycol	Ave	0.3315	0.3700		22.3	20.0	11.6	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5582		22.5	20.0	12.5	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3394		21.3	20.0	6.6	20.0
Triethylene Glycol	Lin2		0.3720		23.1	20.0	15.5	20.0
Tetraethylene Glycol	Lin2		0.3468		44.4	40.0	11.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: ICV 680-755296/13 Calibration Date: 12/15/2022 15:56
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL15013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.98	3.90	4.06
4-Hydroxy-4-methyl-2-pentanone	4.81	4.71	4.90
2-Butoxyethanol	5.18	5.07	5.28
Dipropylene Glycol Methyl Ether	6.83	6.70	6.97
Propylene glycol	7.82	7.67	7.98
Ethylene glycol	8.21	8.05	8.38
2-(2-Butoxyethoxy)ethanol	9.49	9.30	9.68
2,2'-Oxybisethanol	10.18	9.97	10.38
Triethylene Glycol	11.16	10.94	11.38
Tetraethylene Glycol	12.82	12.57	13.08

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D
 Lims ID: icv gly
 Client ID:
 Sample Type: CCV
 Inject. Date: 15-Dec-2022 15:56:59 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-013
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:45:54 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:29:52

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	3.981	3.983	-0.002	1804032	20.0	22.2
2 4-Hydroxy-4-methyl-2-pentanone	4.808	4.806	0.002	1902097	20.0	22.4
3 2-Butoxyethanol	5.175	5.175	0.000	2041849	20.0	23.3
* 4 n-Heptyl Alcohol	5.709	5.708	0.001	7820966	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.831	6.831	0.000	159083	20.0	25.5
6 Propylene glycol	7.820	7.827	-0.007	1165778	20.0	21.9
7 Ethylene glycol	8.214	8.218	-0.004	1157642	20.0	22.3
8 2-(2-Butoxyethoxy)ethanol	9.492	9.491	0.001	1746317	20.0	22.5
9 2,2'-Oxybisethanol	10.176	10.176	0.000	1061785	20.0	21.3
10 Triethylene Glycol	11.158	11.159	-0.001	1163679	20.0	23.1
11 Tetraethylene Glycol	12.819	12.821	-0.002	2170110	40.0	44.4

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00056

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D

Injection Date: 15-Dec-2022 15:56:59

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

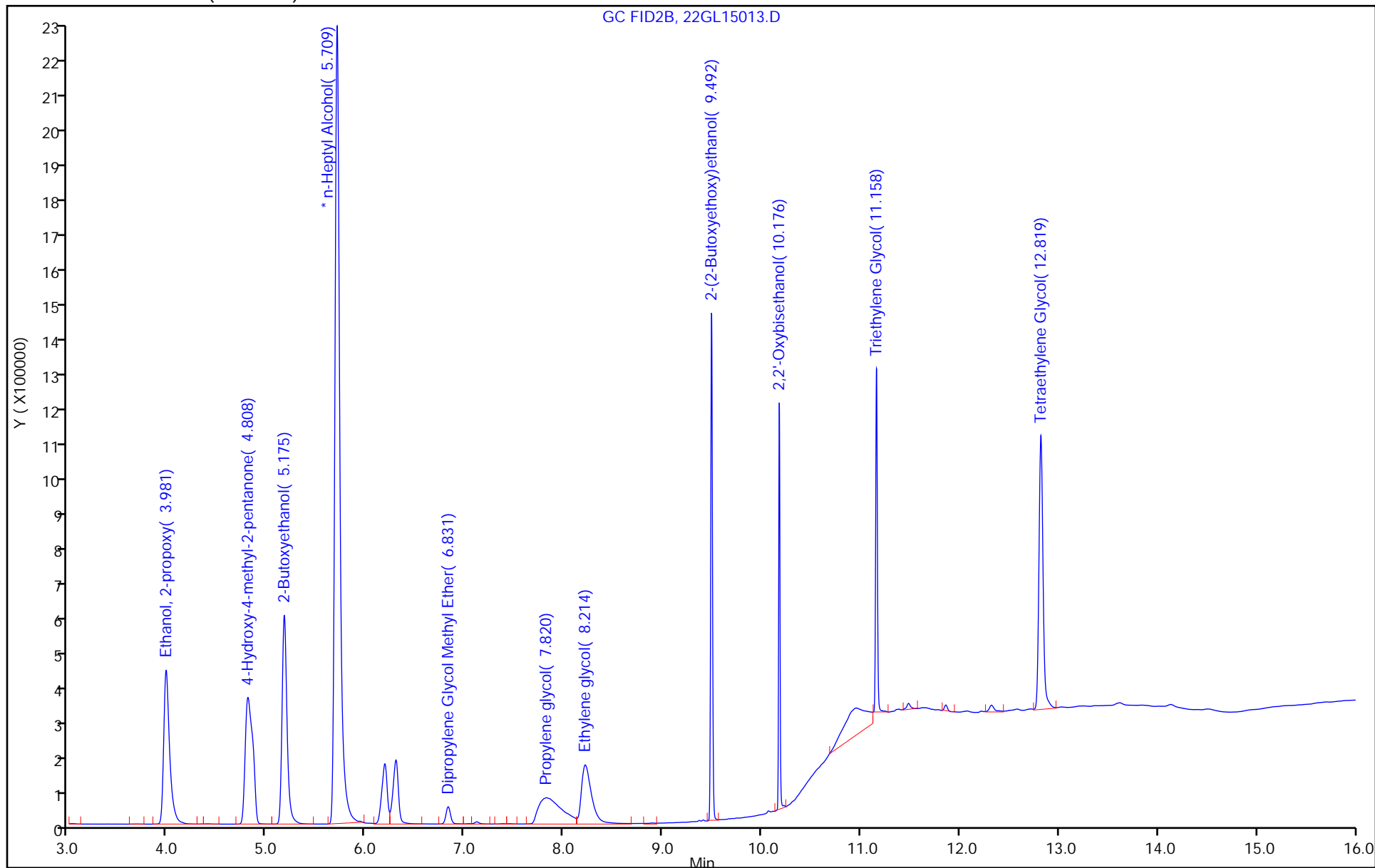
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

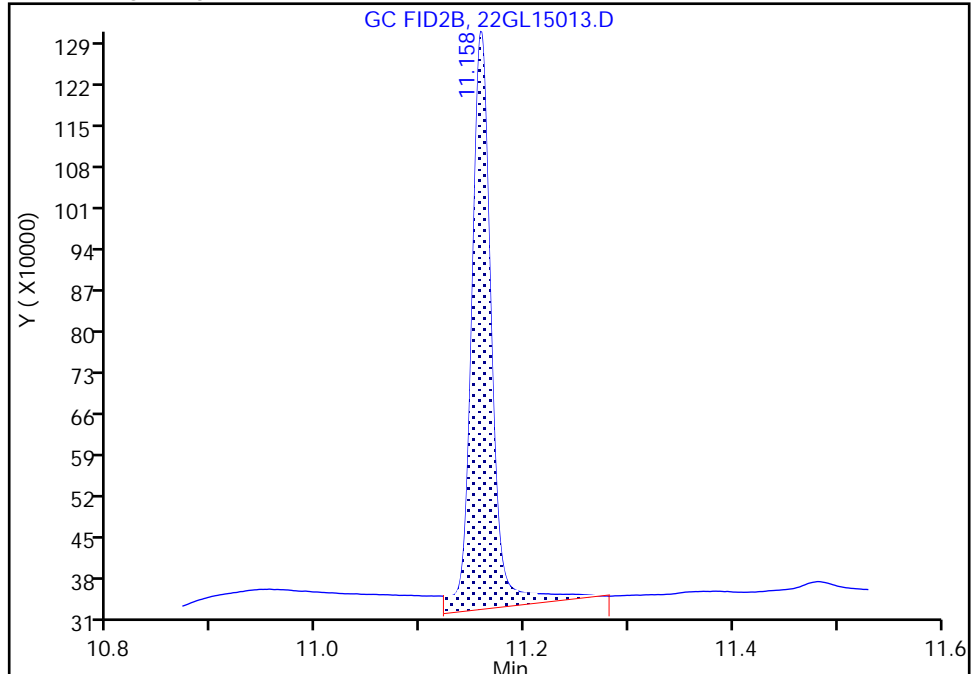
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15013.D
Injection Date: 15-Dec-2022 15:56:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

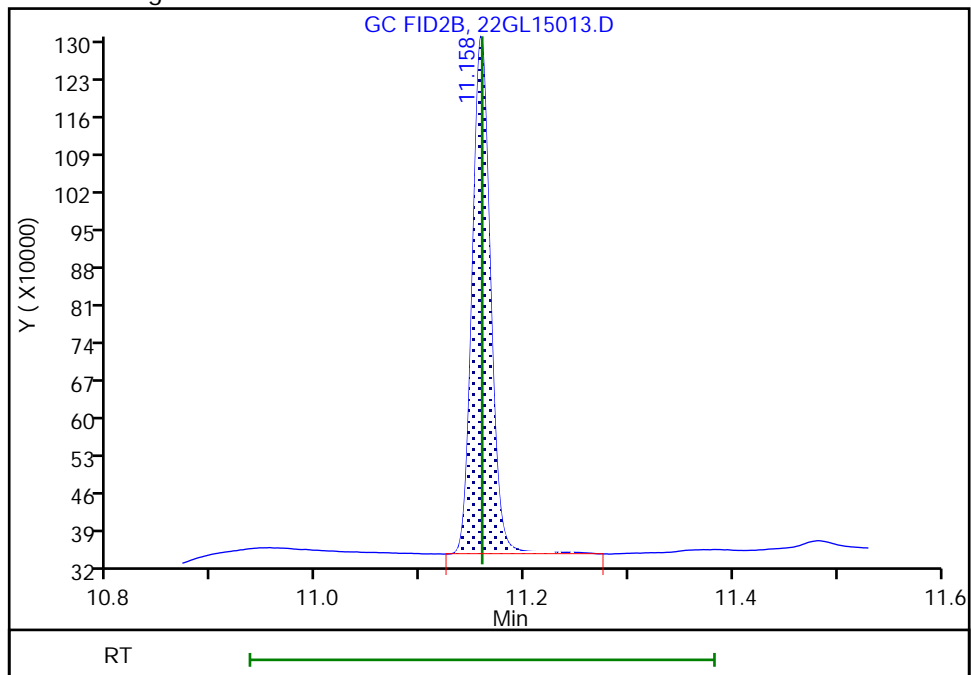
RT: 11.16
Area: 1308485
Amount: 26.229441
Amount Units: ug/ml

Processing Integration Results



RT: 11.16
Area: 1163679
Amount: 23.105187
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 15-Dec-2022 18:29:42

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: CCV 680-755296/39 Calibration Date: 12/16/2022 01:55
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL15039.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5914		22.8	20.0	14.0	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.5855		21.6	20.0	7.8	20.0
2-Butoxyethanol	Ave	0.5604	0.6854		24.5	20.0	22.3*	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0518		25.9	20.0	29.6*	20.0
Propylene glycol	Ave	0.3406	0.3779		22.2	20.0	10.9	20.0
Ethylene glycol	Ave	0.3315	0.3752		22.6	20.0	13.2	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5682		22.9	20.0	14.5	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3281		20.6	20.0	3.1	20.0
Triethylene Glycol	Lin2		0.3221		19.7	20.0	-1.3	20.0
Tetraethylene Glycol	Lin2		0.1870		22.3	40.0	-44.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: CCV 680-755296/39 Calibration Date: 12/16/2022 01:55
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL15039.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.01	3.93	4.09
4-Hydroxy-4-methyl-2-pentanone	4.83	4.74	4.93
2-Butoxyethanol	5.20	5.10	5.30
Dipropylene Glycol Methyl Ether	6.86	6.72	6.99
Propylene glycol	7.83	7.68	7.99
Ethylene glycol	8.23	8.07	8.40
2-(2-Butoxyethoxy)ethanol	9.50	9.31	9.69
2,2'-Oxybisethanol	10.18	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.83	12.58	13.09

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15039.D
 Lims ID: ccv g3
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Dec-2022 01:55:17 ALS Bottle#: 39 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-039
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:48 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy					
4.006	4.006	0.000	1732270	20.0	22.8
2 4-Hydroxy-4-methyl-2-pentanone					
4.832	4.832	0.000	1715134	20.0	21.6
3 2-Butoxyethanol					
5.200	5.200	0.000	2007542	20.0	24.5
* 4 n-Heptyl Alcohol					
5.732	5.732	0.000	7322966	50.0	50.0
5 Dipropylene Glycol Methyl Ether					
6.855	6.855	0.000	151591	20.0	25.9
6 Propylene glycol					
7.832	7.832	0.000	1106809	20.0	22.2
7 Ethylene glycol					
8.234	8.234	0.000	1098907	20.0	22.6
8 2-(2-Butoxyethoxy)ethanol					
9.501	9.501	0.000	1664486	20.0	22.9
9 2,2'-Oxybisethanol					
10.184	10.184	0.000	961211	20.0	20.6
10 Triethylene Glycol					
11.165	11.165	0.000	943528	20.0	19.7
11 Tetraethylene Glycol					
12.832	12.832	0.000	1095612	40.0	22.3

Reagents:

SG_Gly_CAL_00047	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00099	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15039.D

Injection Date: 16-Dec-2022 01:55:17

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 39

Client ID:

Injection Vol: 1.0 ul

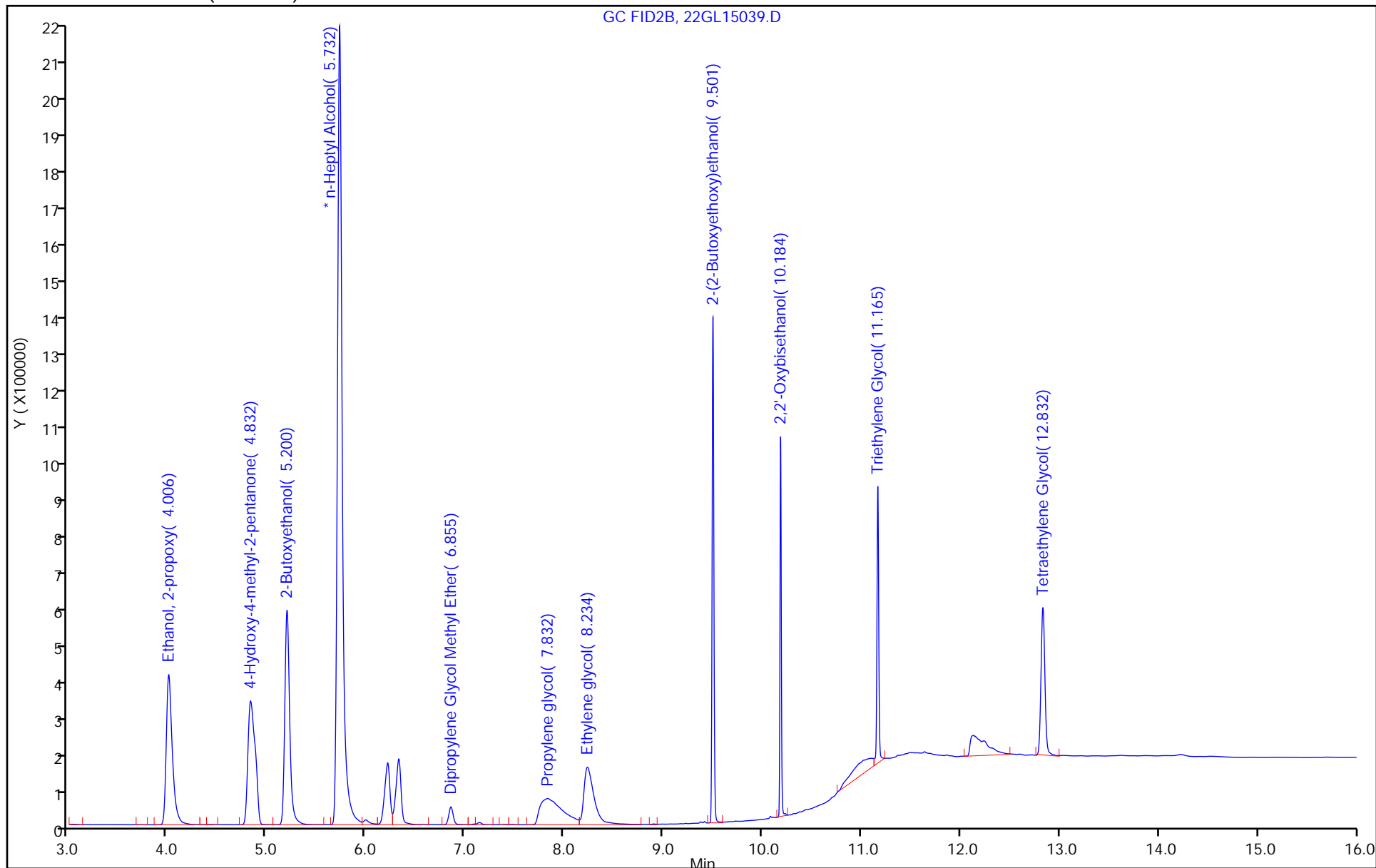
Dil. Factor: 1.0000

ALS Bottle#: 39

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL16005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.6061		23.4	20.0	16.9	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.6398		23.6	20.0	17.8	20.0
2-Butoxyethanol	Ave	0.5604	0.6832		24.4	20.0	21.9*	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0534		26.7	20.0	33.6*	20.0
Propylene glycol	Ave	0.3406	0.4020		23.6	20.0	18.0	20.0
Ethylene glycol	Ave	0.3315	0.3888		23.5	20.0	17.3	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5861		23.6	20.0	18.1	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3577		22.5	20.0	12.4	20.0
Triethylene Glycol	Lin2		0.3804		23.7	20.0	18.4	20.0
Tetraethylene Glycol	Lin2		0.3643		46.8	40.0	17.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Lab Sample ID: CCV 680-755535/5 Calibration Date: 12/16/2022 17:20
Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
Lab File ID: 22GL16005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.01	3.93	4.09
4-Hydroxy-4-methyl-2-pentanone	4.84	4.74	4.94
2-Butoxyethanol	5.21	5.10	5.31
Dipropylene Glycol Methyl Ether	6.86	6.73	7.00
Propylene glycol	7.84	7.68	7.99
Ethylene glycol	8.24	8.08	8.41
2-(2-Butoxyethoxy)ethanol	9.50	9.31	9.69
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D
 Lims ID: ccv g3
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Dec-2022 17:20:21 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082779-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 17-Dec-2022 11:05:40 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1633

First Level Reviewer: SWK1

Date: 17-Dec-2022 10:56:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	4.011	4.011	0.000	1396651	20.0	23.4
2 4-Hydroxy-4-methyl-2-pentanone	4.839	4.839	0.000	1474343	20.0	23.6
3 2-Butoxyethanol	5.206	5.206	0.000	1574313	20.0	24.4
* 4 n-Heptyl Alcohol	5.738	5.738	0.000	5760737	50.0	50.0
5 Dipropylene Glycol Methyl Ether	6.863	6.863	0.000	122995	20.0	26.7
6 Propylene glycol	7.837	7.837	0.000	926262	20.0	23.6
7 Ethylene glycol	8.243	8.243	0.000	895863	20.0	23.5
8 2-(2-Butoxyethoxy)ethanol	9.504	9.504	0.000	1350594	20.0	23.6
9 2,2'-Oxybisethanol	10.185	10.185	0.000	824349	20.0	22.5
10 Triethylene Glycol	11.167	11.167	0.000	876573	20.0	23.7
11 Tetraethylene Glycol	12.835	12.835	0.000	1678714	40.0	46.8

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00047

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16005.D

Injection Date: 16-Dec-2022 17:20:21

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

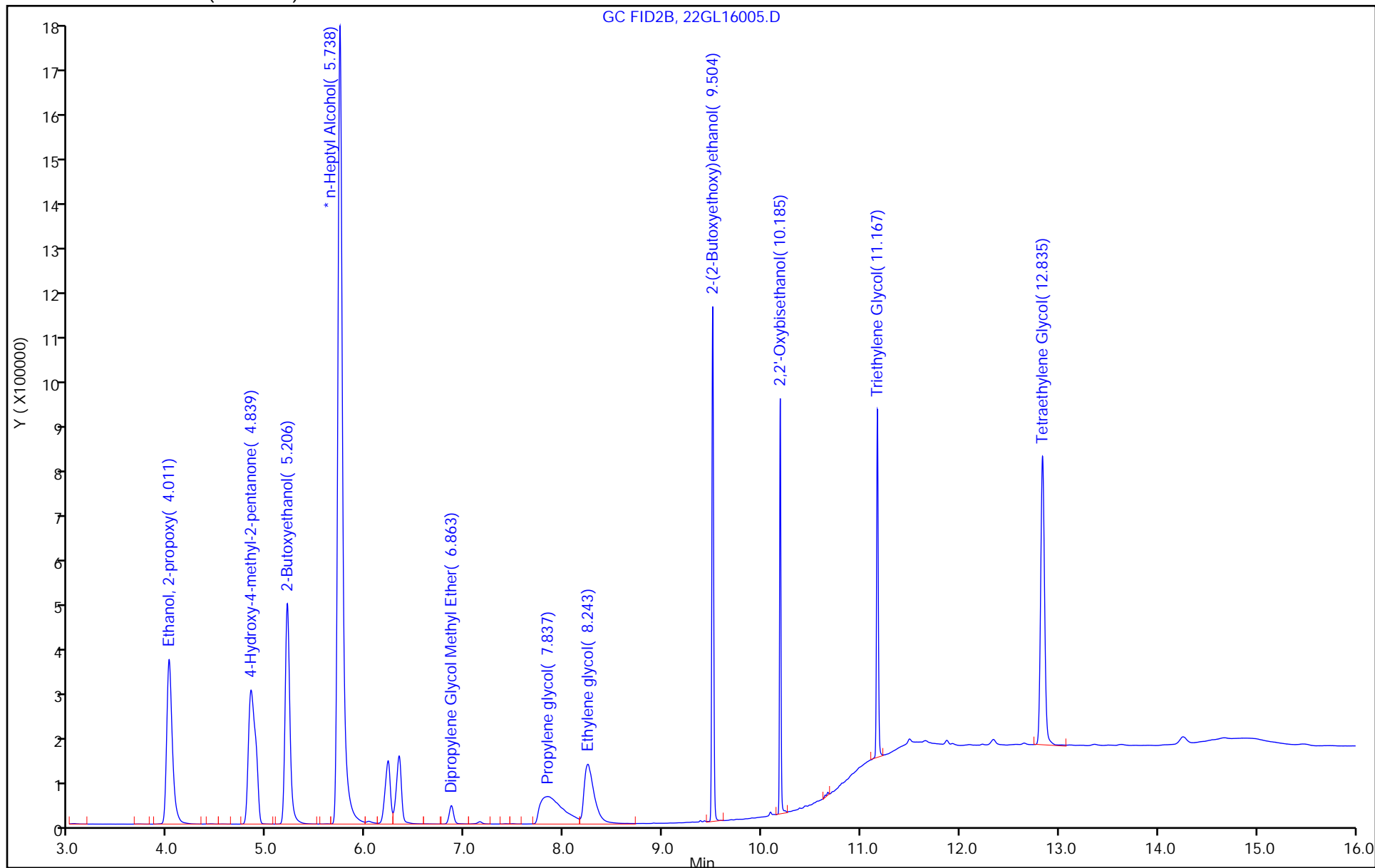
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09
 Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
 Lab File ID: 22GL16028.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.5186	0.5781		22.3	20.0	11.5	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.5430	0.5892		21.7	20.0	8.5	20.0
2-Butoxyethanol	Ave	0.5604	0.6593		23.5	20.0	17.7	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0399	0.0513		25.7	20.0	28.6*	20.0
Propylene glycol	Ave	0.3406	0.3768		22.1	20.0	10.6	20.0
Ethylene glycol	Ave	0.3315	0.3516		21.2	20.0	6.1	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.4963	0.5676		22.9	20.0	14.4	20.0
2,2'-Oxybisethanol	Ave	0.3183	0.3037		19.1	20.0	-4.6	20.0
Triethylene Glycol	Lin2		0.2817		17.0	20.0	-14.9	20.0
Tetraethylene Glycol	Lin2		0.2159		26.3	40.0	-34.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Lab Sample ID: CCV 680-755535/28 Calibration Date: 12/17/2022 02:09
Instrument ID: CVGG2 Calib Start Date: 12/15/2022 13:40
GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 12/15/2022 15:34
Lab File ID: 22GL16028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	4.02	3.94	4.10
4-Hydroxy-4-methyl-2-pentanone	4.84	4.75	4.94
2-Butoxyethanol	5.21	5.11	5.31
Dipropylene Glycol Methyl Ether	6.87	6.73	7.00
Propylene glycol	7.83	7.67	7.99
Ethylene glycol	8.24	8.07	8.40
2-(2-Butoxyethoxy)ethanol	9.51	9.32	9.70
2,2'-Oxybisethanol	10.19	9.98	10.39
Triethylene Glycol	11.17	10.94	11.39
Tetraethylene Glycol	12.84	12.58	13.09

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D
 Lims ID: ccv g3
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Dec-2022 02:09:10 ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082779-028
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 17-Dec-2022 11:05:41 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1633

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
4.017	4.017	0.000	1789713	20.0	22.3	
2 4-Hydroxy-4-methyl-2-pentanone						
4.844	4.844	0.000	1823903	20.0	21.7	
3 2-Butoxyethanol						
5.210	5.210	0.000	2041077	20.0	23.5	
* 4 n-Heptyl Alcohol						
5.742	5.742	0.000	7739063	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.867	6.867	0.000	158952	20.0	25.7	
6 Propylene glycol						
7.828	7.828	0.000	1166330	20.0	22.1	
7 Ethylene glycol						
8.239	8.239	0.000	1088342	20.0	21.2	
8 2-(2-Butoxyethoxy)ethanol						
9.505	9.505	0.000	1757164	20.0	22.9	
9 2,2'-Oxybisethanol						
10.186	10.186	0.000	940250	20.0	19.1	
10 Triethylene Glycol						
11.167	11.167	0.000	872098	20.0	17.0	
11 Tetraethylene Glycol						
12.835	12.835	0.000	1336993	40.0	26.3	

Reagents:

SG_Gly_CAL_00047 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221216-82779.b\22GL16028.D

Injection Date: 17-Dec-2022 02:09:10

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g3

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

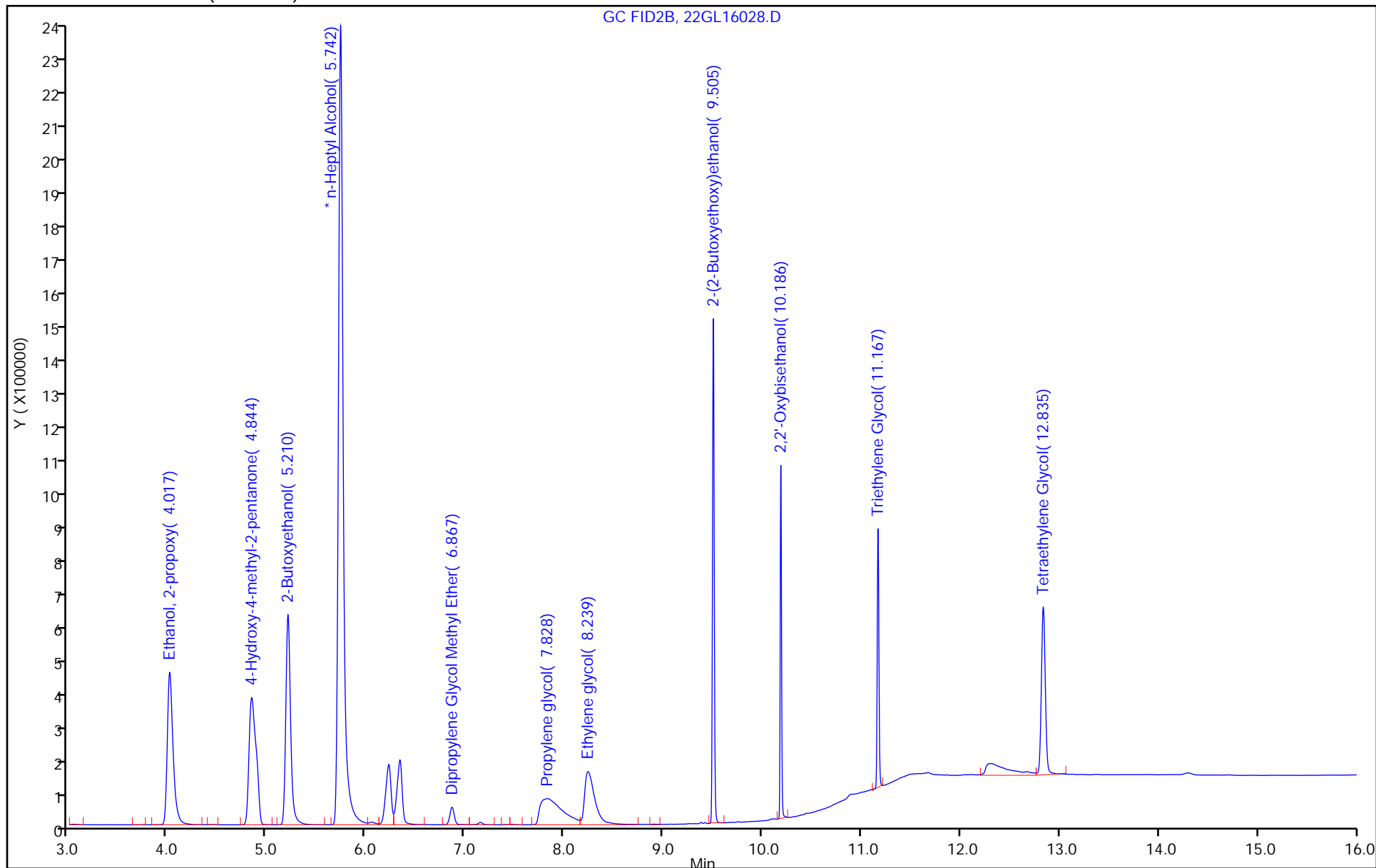
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 680-755329/1-A
Matrix: Solid (Soluble) Lab File ID: 22GL15023.D
Analysis Method: 8015C GLY Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 19:53
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	1.5	U	4.9	1.5	0.61

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15023.D
 Lims ID: MB 680-755329/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 15-Dec-2022 19:53:43 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-023
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

First Level Reviewer: SWK1

Date: 16-Dec-2022 10:45:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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3 2-Butoxyethanol						7
5.183	5.200	-0.017	11078		0.1294	7
LOD = 0.5000						
* 4 n-Heptyl Alcohol						
5.722	5.732	-0.010	7640672	50.0	50.0	
7 Ethylene glycol						7
8.217	8.234	-0.017	12660		0.2499	7
LOD = 0.6600						
9 2,2'-Oxybisethanol						7
10.180	10.184	-0.004	11922		0.2451	7
LOD = 1.60						
10 Triethylene Glycol						7
11.162	11.165	-0.003	28876		-1.36	7
LOD = 1.40						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15023.D

Injection Date: 15-Dec-2022 19:53:43

Instrument ID: CVGG2

Operator ID:

Lims ID: MB 680-755329/1-A

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

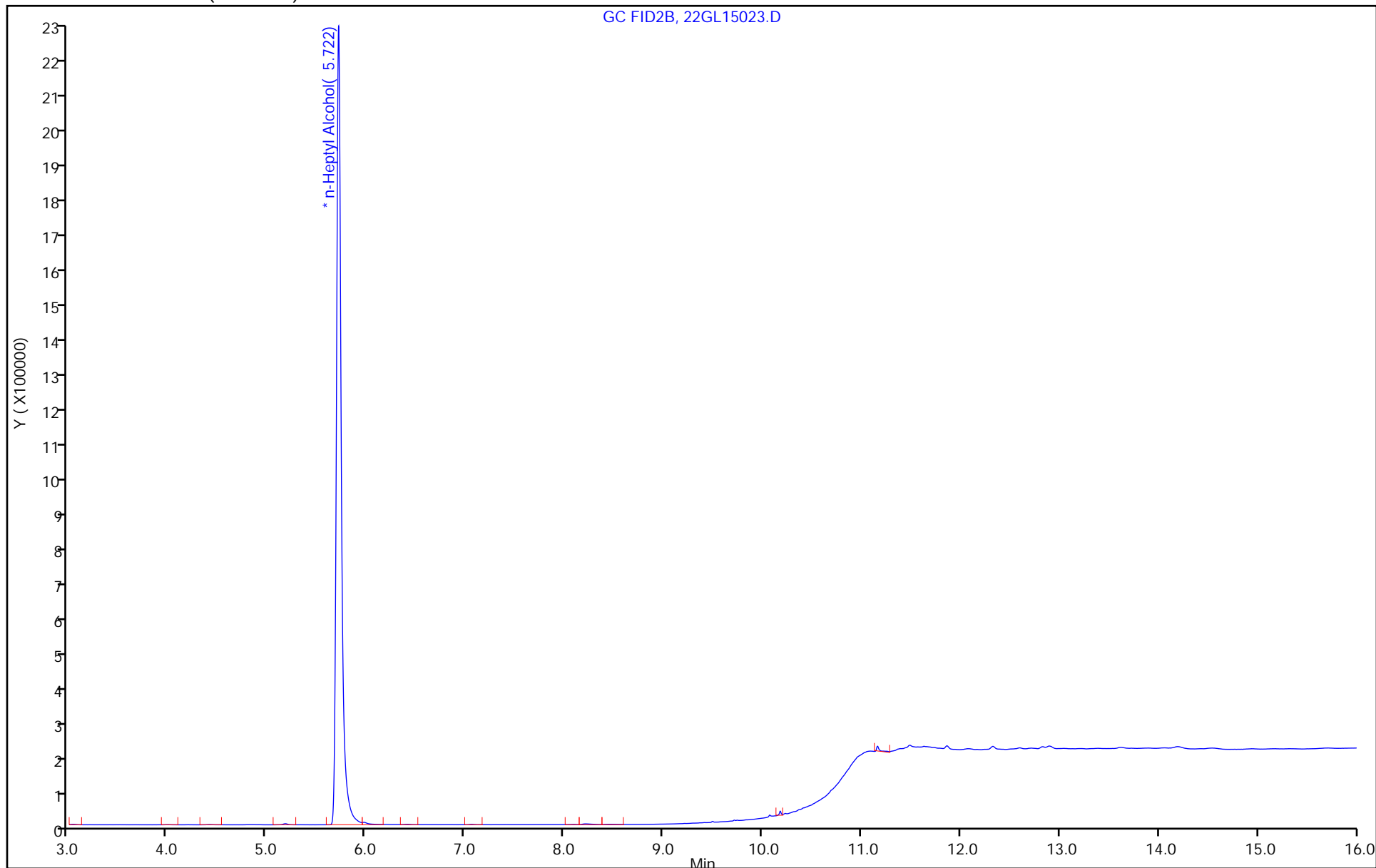
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 680-755329/2-A
Matrix: Solid (Soluble) Lab File ID: 22GL15018.D
Analysis Method: 8015C GLY Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 18:00
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	19.1		4.8	1.4	0.59

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15018.D
 Lims ID: LCS 680-755329/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 15-Dec-2022 18:00:25 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-018
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:46:13 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:46:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.989	3.983	0.006	1798377	20.0	19.9	
2 4-Hydroxy-4-methyl-2-pentanone						
4.814	4.806	0.008	1875073	20.0	19.8	
3 2-Butoxyethanol						
5.181	5.175	0.006	2040550	20.0	20.9	
* 4 n-Heptyl Alcohol						
5.716	5.708	0.008	8721019	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.836	6.831	0.005	134540	20.0	19.3	
6 Propylene glycol						
7.835	7.827	0.008	947576	20.0	15.9	
7 Ethylene glycol						
8.224	8.218	0.006	1038318	20.0	18.0	
8 2-(2-Butoxyethoxy)ethanol						
9.494	9.491	0.003	1726880	20.0	19.9	
9 2,2'-Oxybisethanol						
10.178	10.176	0.002	1035261	20.0	18.6	
10 Triethylene Glycol						M
11.161	11.159	0.002	1109307	20.0	19.5	M
11 Tetraethylene Glycol						
12.824	12.821	0.003	2095016	40.0	38.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15018.D

Injection Date: 15-Dec-2022 18:00:25

Instrument ID: CVGG2

Operator ID:

Lims ID: LCS 680-755329/2-A

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

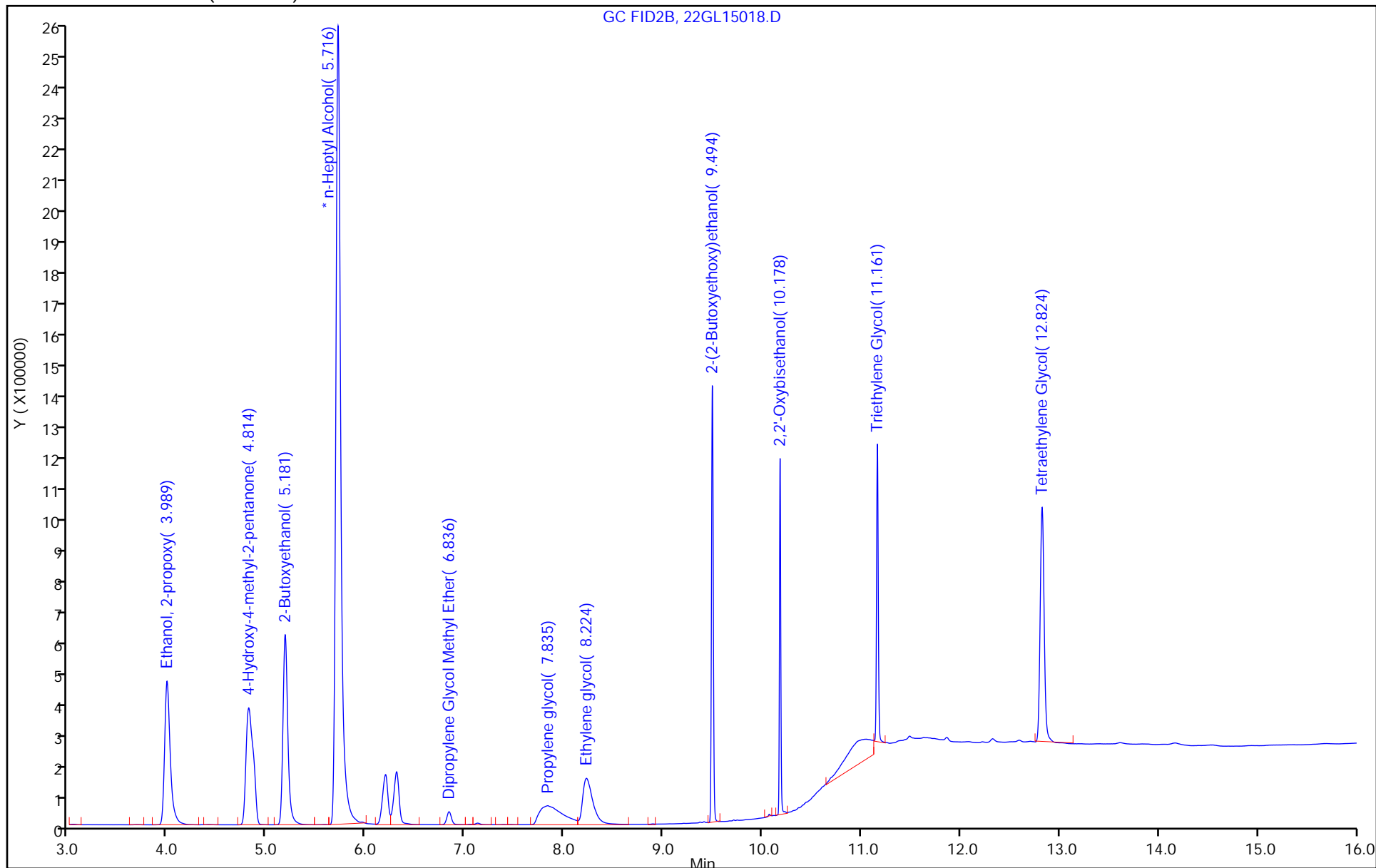
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 680-755329/3-A
Matrix: Solid (Soluble) Lab File ID: 22GL15019.D
Analysis Method: 8015C GLY Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/15/2022 18:23
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy) ethanol	20.6		4.9	1.5	0.61

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15019.D
 Lims ID: LCSD 680-755329/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 15-Dec-2022 18:23:07 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-019
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 15-Dec-2022 18:47:05 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1659

First Level Reviewer: SWK1

Date: 15-Dec-2022 18:47:05

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
3.988	3.983	0.005	1783795	20.0	21.5	
2 4-Hydroxy-4-methyl-2-pentanone						
4.816	4.806	0.010	1858211	20.0	21.4	
3 2-Butoxyethanol						
5.183	5.175	0.008	2015439	20.0	22.5	
* 4 n-Heptyl Alcohol						
5.715	5.708	0.007	8007250	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
6.838	6.831	0.007	130350	20.0	20.4	
6 Propylene glycol						M
7.841	7.827	0.014	771978	20.0	14.2	M
7 Ethylene glycol						
8.224	8.218	0.006	786771	20.0	14.8	
8 2-(2-Butoxyethoxy)ethanol						
9.496	9.491	0.005	1655673	20.0	20.8	
9 2,2'-Oxybisethanol						
10.178	10.176	0.002	1018680	20.0	20.0	
10 Triethylene Glycol						M
11.161	11.159	0.002	1095643	20.0	21.1	M
11 Tetraethylene Glycol						
12.824	12.821	0.003	2039622	40.0	40.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15019.D

Injection Date: 15-Dec-2022 18:23:07

Instrument ID: CVGG2

Operator ID:

Lims ID: LCSD 680-755329/3-A

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

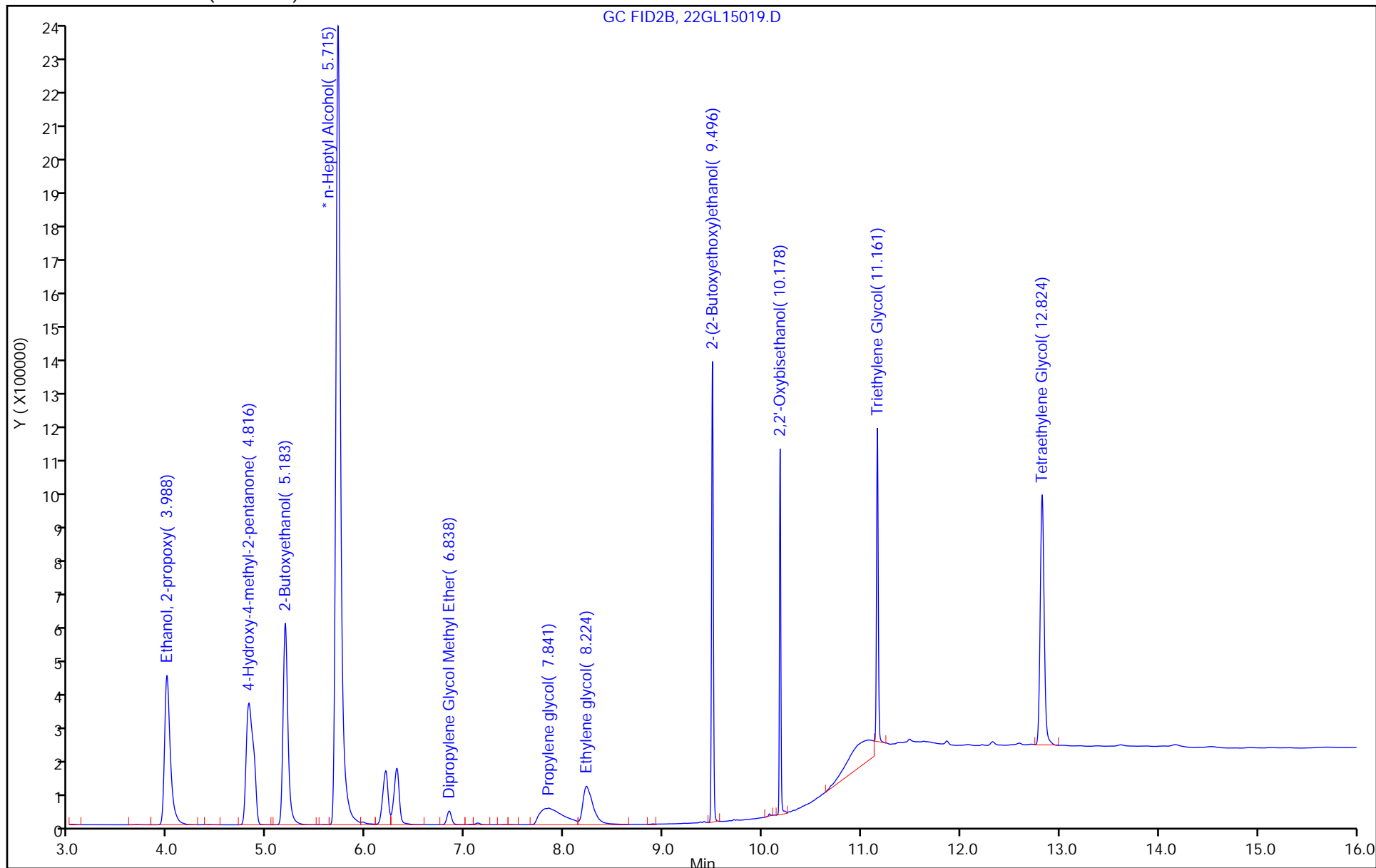
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC Lab Sample ID: 580-120929-5 MS
MS
Matrix: Solid (Soluble) Lab File ID: 22GL15036.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 00:47
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 14.8 % Solids: 85.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	9.93		5.8	1.7	0.71

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15036.D
Lims ID: 580-120929-B-5-B MS
Client ID: ADIT6-IDW-SOFT02MI-22DEC
Sample Type: MS
Inject. Date: 16-Dec-2022 00:47:37 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0082752-036
Operator ID: Instrument ID: CVGG2
Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host: CTX1602

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.729 5.732 -0.003 8747357 50.0 50.0

8 2-(2-Butoxyethoxy)ethanol

9.500 9.501 -0.001 747814 20.0 8.61

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15036.D

Injection Date: 16-Dec-2022 00:47:37

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-5-B MS

Worklist Smp#: 36

Client ID: ADIT6-IDW-SOFT02MI-22DEC

Injection Vol: 1.0 ul

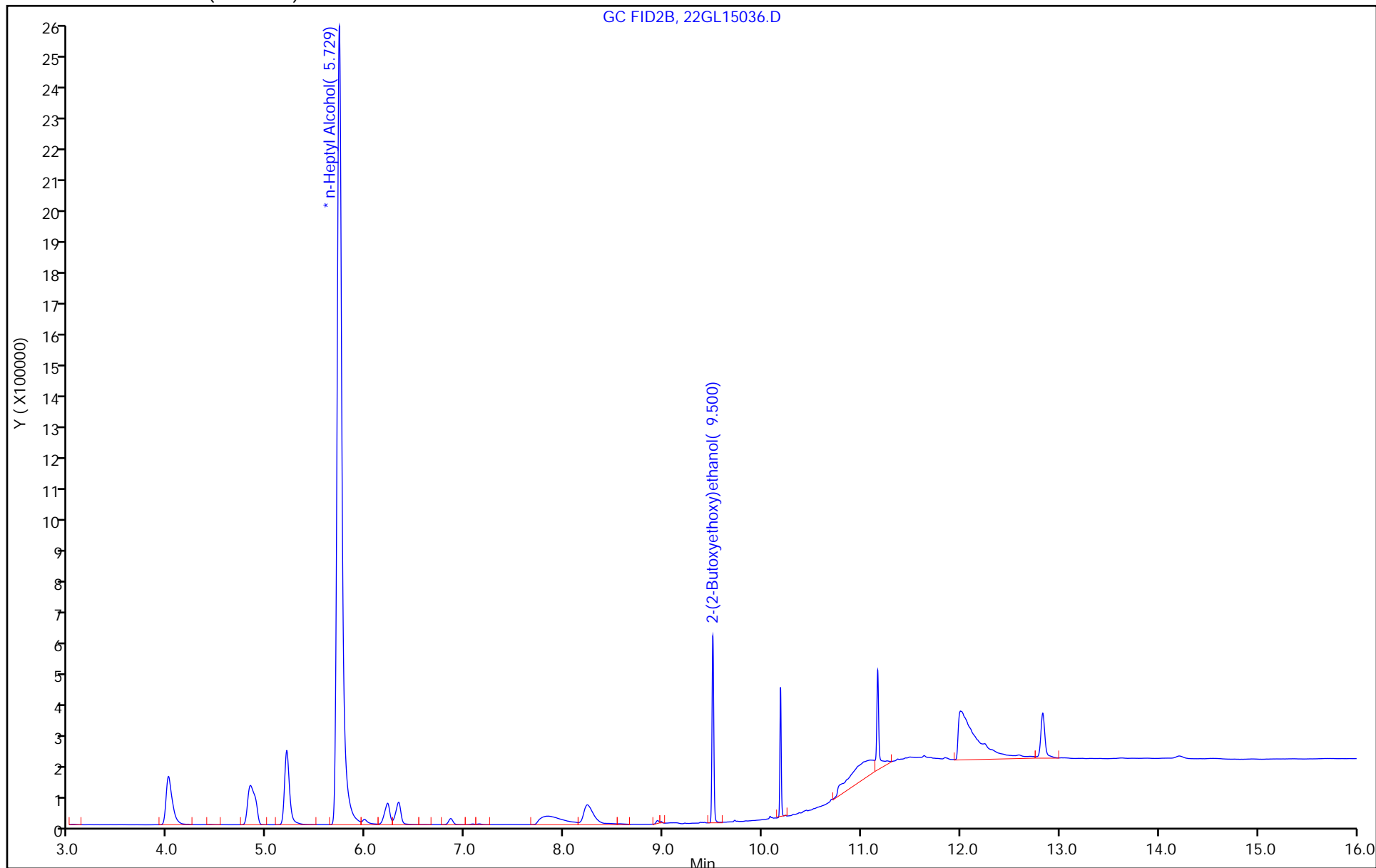
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC Lab Sample ID: 580-120929-5 MSD
MSD
Matrix: Solid (Soluble) Lab File ID: 22GL15037.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 01:10
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 14.8 % Solids: 85.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	14.0		5.7	1.7	0.71

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15037.D
 Lims ID: 580-120929-B-5-C MSD
 Client ID: ADIT6-IDW-SOFT02MI-22DEC
 Sample Type: MSD
 Inject. Date: 16-Dec-2022 01:10:15 ALS Bottle#: 37 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-037
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.729 5.732 -0.003 8143198 50.0 50.0

8 2-(2-Butoxyethoxy)ethanol

9.500 9.501 -0.001 992219 20.0 12.3

Reagents:

SG_GLY_ISTD_00099 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15037.D

Injection Date: 16-Dec-2022 01:10:15

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-B-5-C MSD

Worklist Smp#: 37

Client ID: ADIT6-IDW-SOFT02MI-22DEC

Injection Vol: 1.0 ul

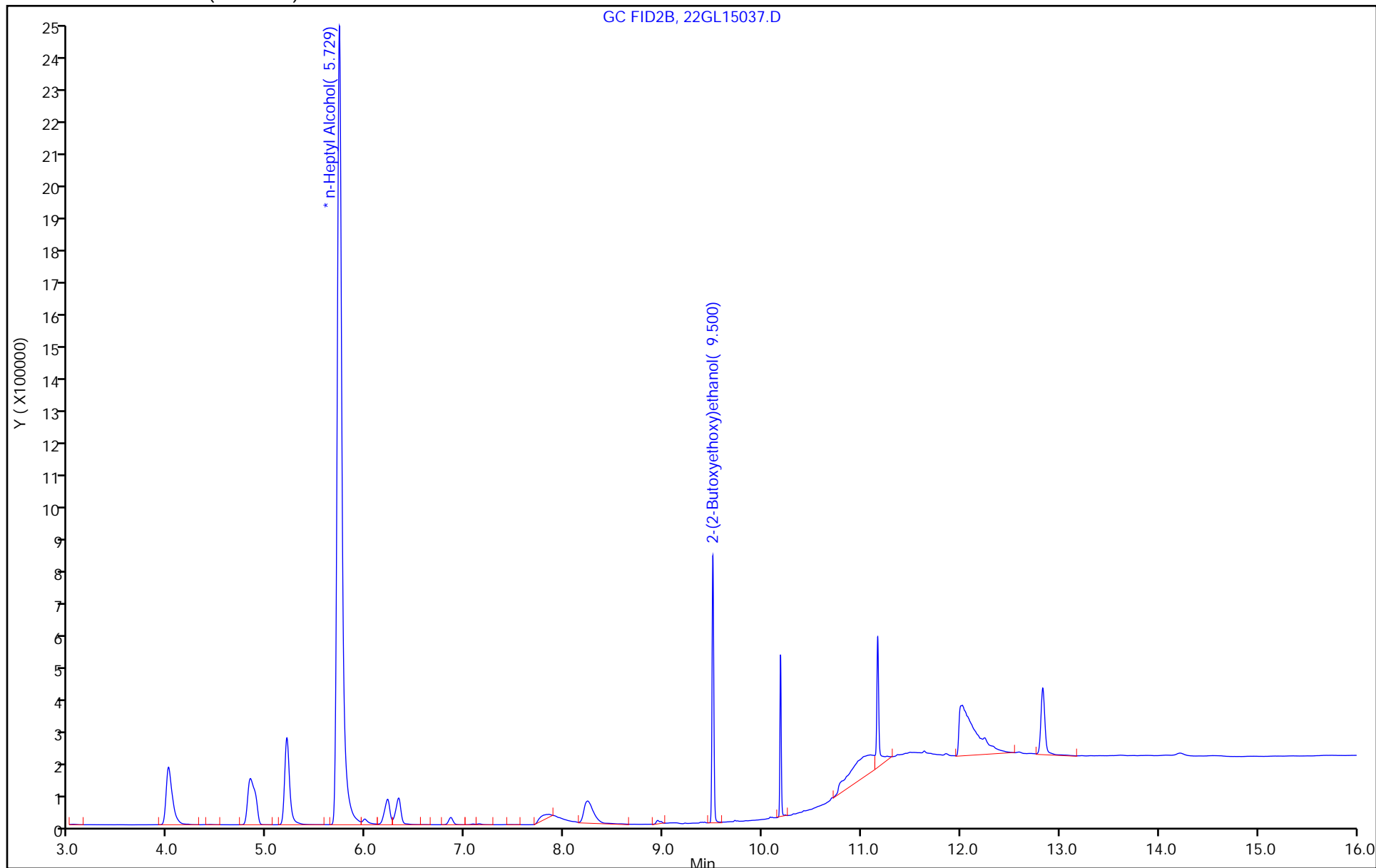
Dil. Factor: 1.0000

ALS Bottle#: 37

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC Lab Sample ID: 580-120929-5 DU
DU
Matrix: Solid (Soluble) Lab File ID: 22GL15034.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 00:02
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 14.8 % Solids: 85.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	1.7	U M	5.8	1.7	0.72

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15034.D
 Lims ID: 580-120929-C-5-A DU
 Client ID: ADIT6-IDW-SOFT02MI-22DEC
 Sample Type: DU
 Inject. Date: 16-Dec-2022 00:02:32 ALS Bottle#: 34 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-034
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

First Level Reviewer: SWK1

Date: 16-Dec-2022 10:47:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol

5.726	5.732	-0.006	7325072	50.0	50.0	
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8 2-(2-Butoxyethoxy)ethanol					7M
-----------------------------	--	--	--	--	----

9.500	9.501	-0.001	24322	0.3345	7M
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LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

SG_GLY_ISTD_00099	Amount Added: 10.00	Units: uL	Run Reagent
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Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15034.D

Injection Date: 16-Dec-2022 00:02:32

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-C-5-A DU

Worklist Smp#: 34

Client ID: ADIT6-IDW-SOFT02MI-22DEC

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

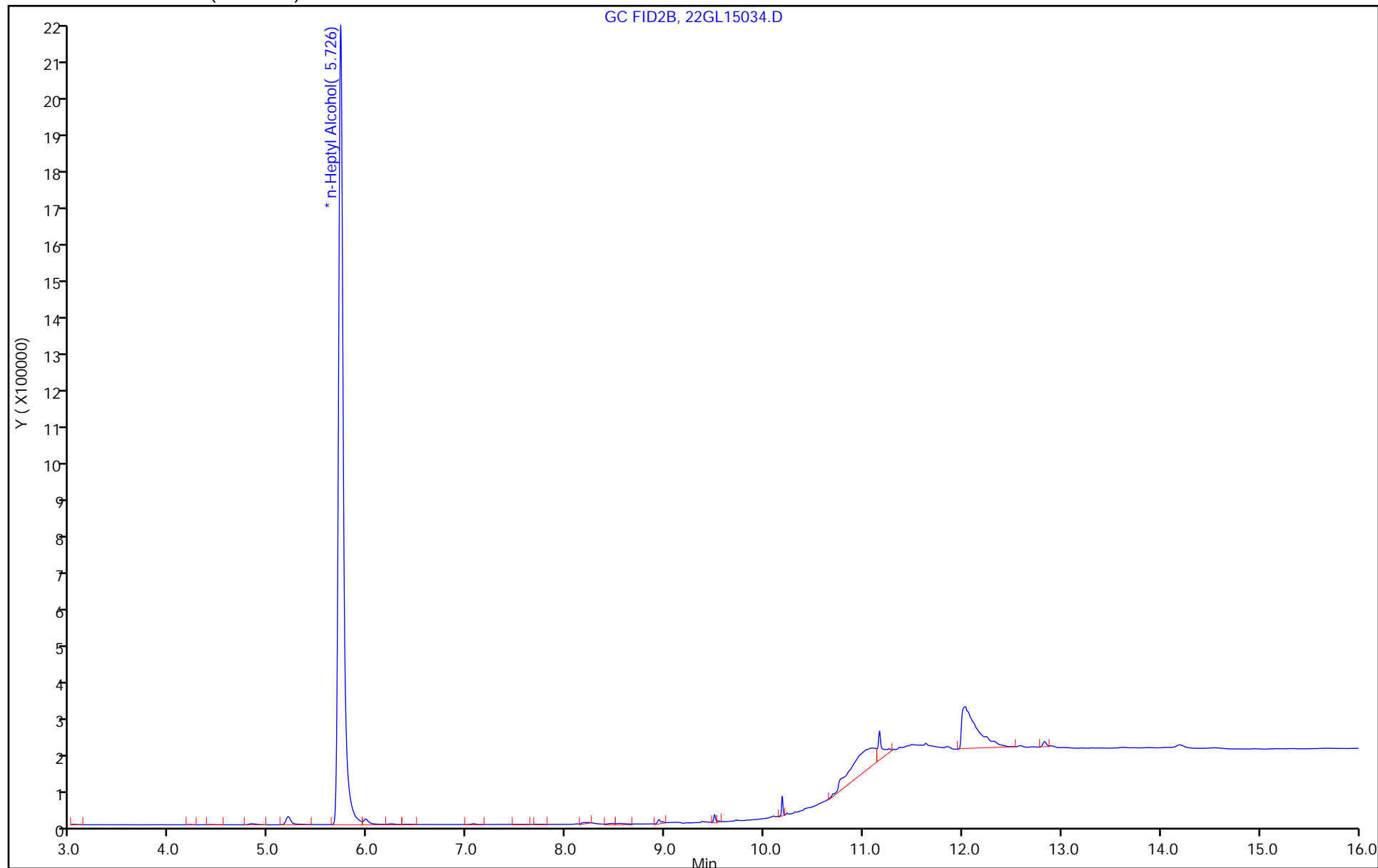
ALS Bottle#: 34

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, 22GL15034.D



Eurofins Savannah

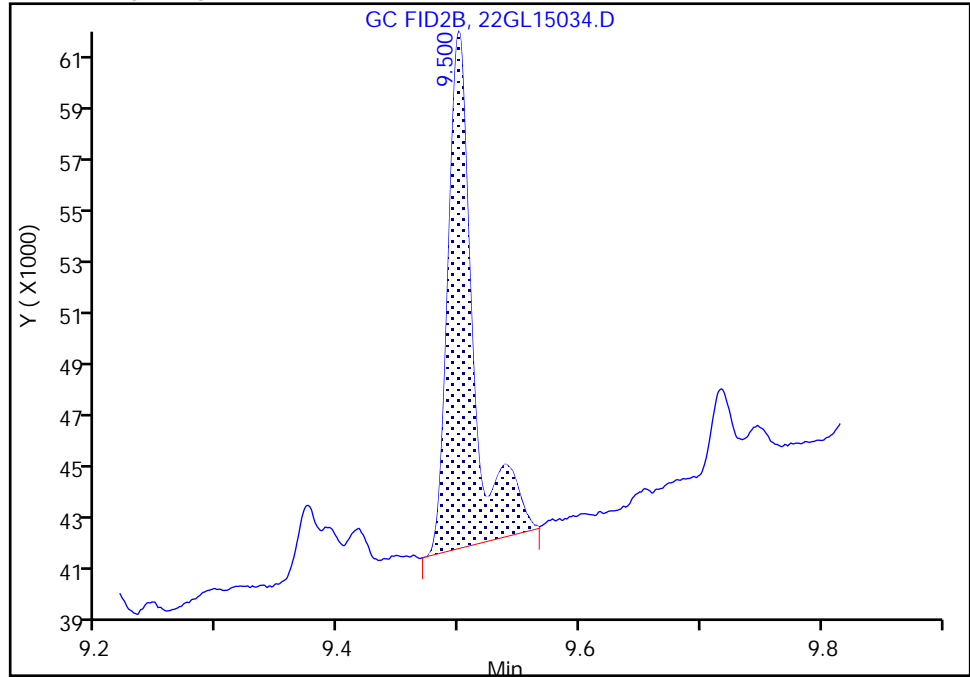
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15034.D
Injection Date: 16-Dec-2022 00:02:32 Instrument ID: CVGG2
Lims ID: 580-120929-C-5-A DU
Client ID: ADIT6-IDW-SOFT02MI-22DEC
Operator ID: ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

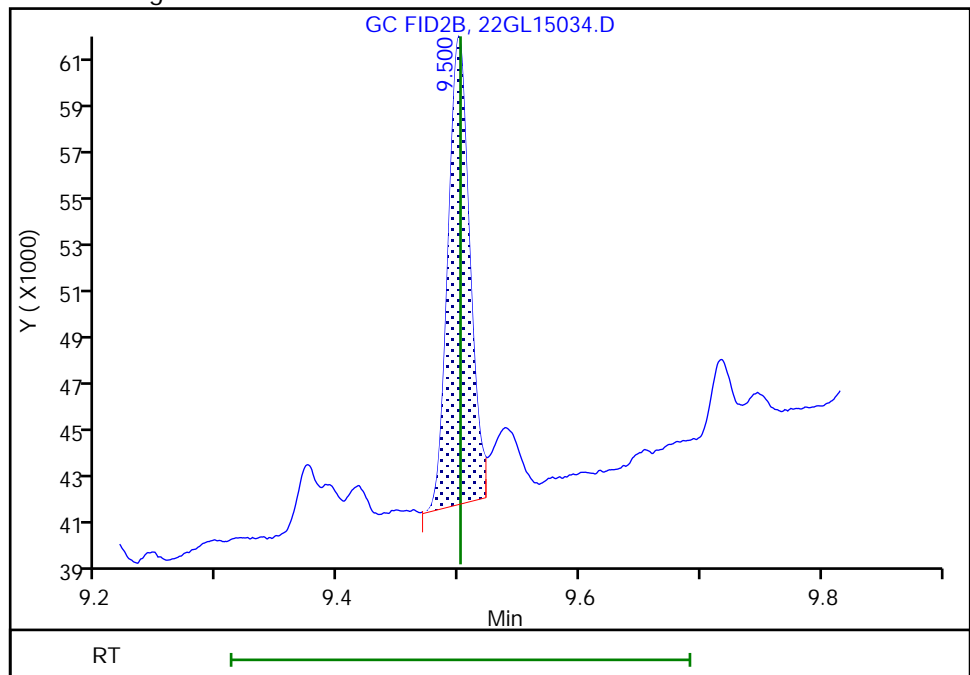
RT: 9.50
Area: 28582
Amount: 0.393090
Amount Units: ug/ml

Processing Integration Results



RT: 9.50
Area: 24322
Amount: 0.334502
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 16-Dec-2022 10:47:29

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1
SDG No.: _____
Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC Lab Sample ID: 580-120929-5 TRL
TRL
Matrix: Solid (Soluble) Lab File ID: 22GL15035.D
Analysis Method: 8015C GLY Date Collected: 12/03/2022 12:25
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1 (mL) Date Analyzed: 12/16/2022 00:25
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: J&W DB WAX ID: 0.45 (mm)
% Moisture: 14.8 % Solids: 85.2 GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 755296 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	1.7	U M	5.7	1.7	0.71

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15035.D
 Lims ID: 580-120929-C-5-B TRL
 Client ID: ADIT6-IDW-SOFT02MI-22DEC
 Sample Type: TRL
 Inject. Date: 16-Dec-2022 00:25:04 ALS Bottle#: 35 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0082752-035
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 16-Dec-2022 10:48:21 Calib Date: 15-Dec-2022 15:34:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15012.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1602

First Level Reviewer: SWK1

Date: 16-Dec-2022 10:48:21

RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
2 4-Hydroxy-4-methyl-2-pentanone						
4.831	4.832	-0.001	14319		0.1847	7
LOD = 0.5000						
3 2-Butoxyethanol						
5.198	5.200	-0.002	96550		1.21	
* 4 n-Heptyl Alcohol						
5.729	5.732	-0.003	7137311	50.0	50.0	
7 Ethylene glycol						
8.224	8.234	-0.010	35766		0.7558	
8 2-(2-Butoxyethoxy)ethanol						
9.500	9.501	-0.001	10977		0.1549	7Ma
LOD = 0.5000						
9 2,2'-Oxybisethanol						
10.183	10.184	-0.001	41482		0.9131	7
LOD = 1.60						
10 Triethylene Glycol						
11.165	11.165	0.000	207975		2.92	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG_GLY_ISTD_00099

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15035.D

Injection Date: 16-Dec-2022 00:25:04

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-120929-C-5-B TRL

Worklist Smp#: 35

Client ID: ADIT6-IDW-SOFT02MI-22DEC

Injection Vol: 1.0 ul

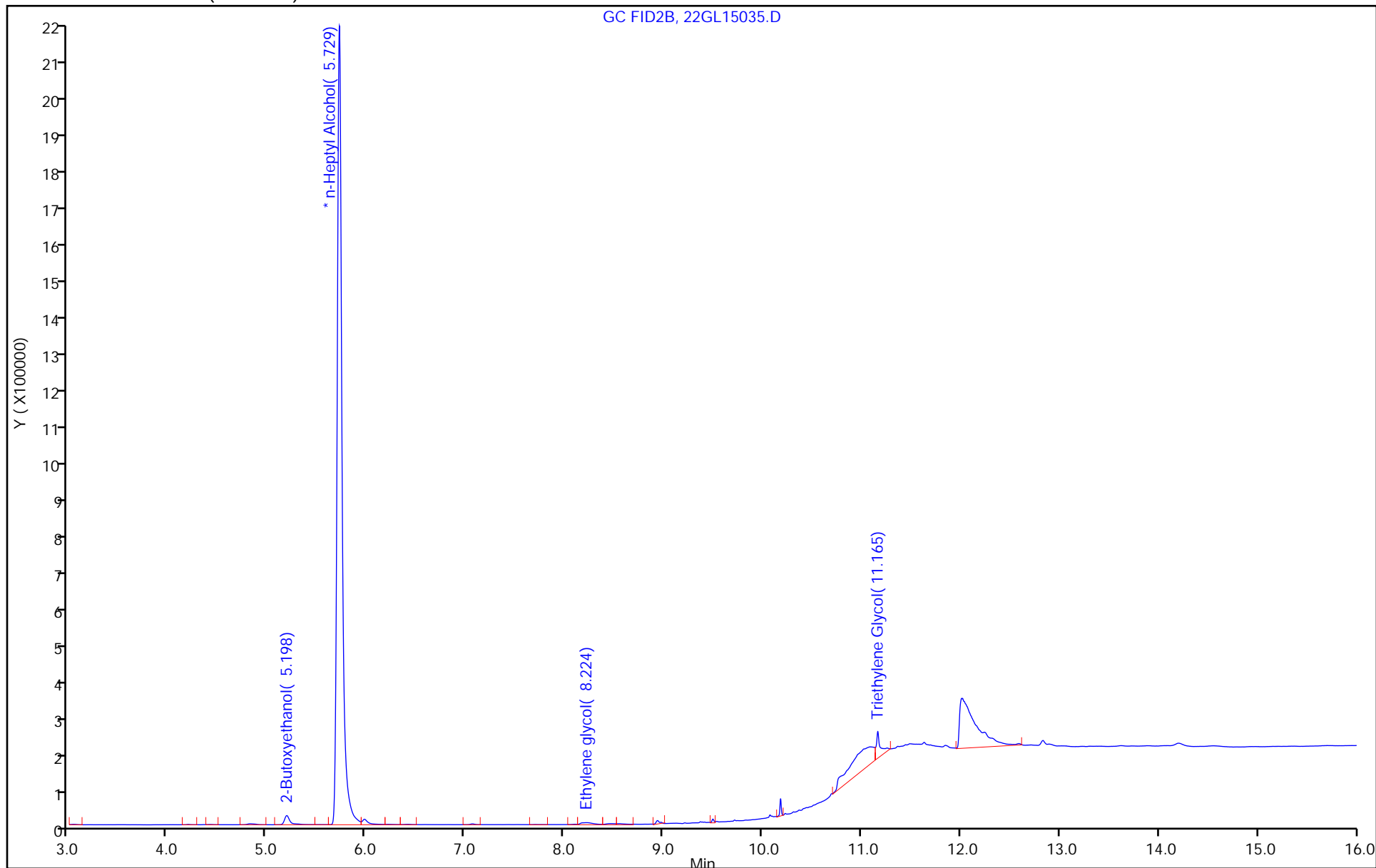
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

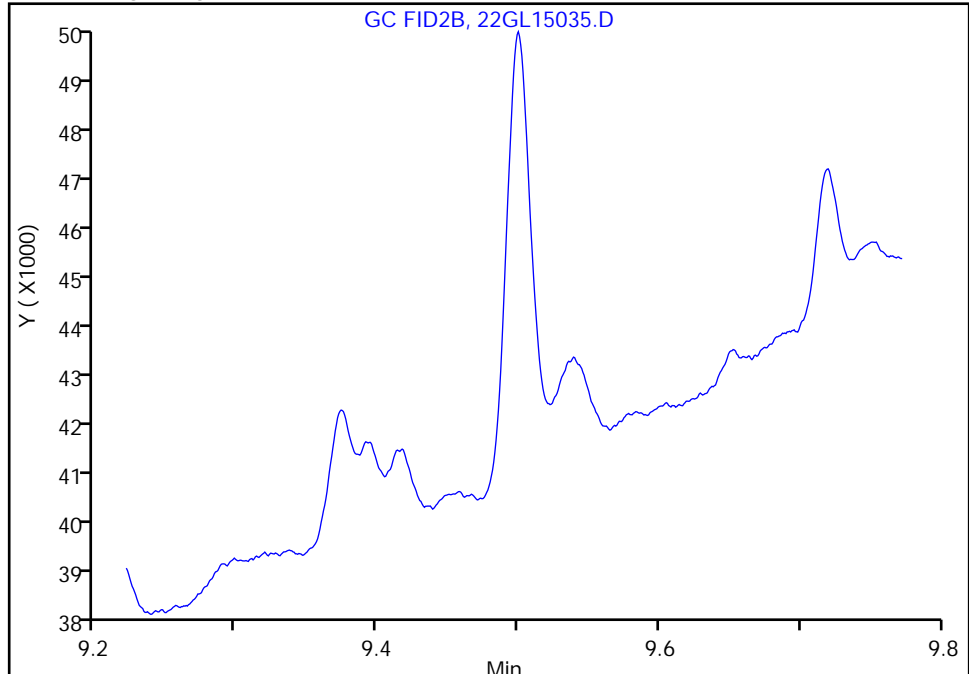
Data File: \\chromfs\Savannah\ChromData\CVGG2\20221215-82752.b\22GL15035.D
Injection Date: 16-Dec-2022 00:25:04 Instrument ID: CVGG2
Lims ID: 580-120929-C-5-B TRL
Client ID: ADIT6-IDW-SOFT02MI-22DEC
Operator ID: ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

8 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

Signal: 1

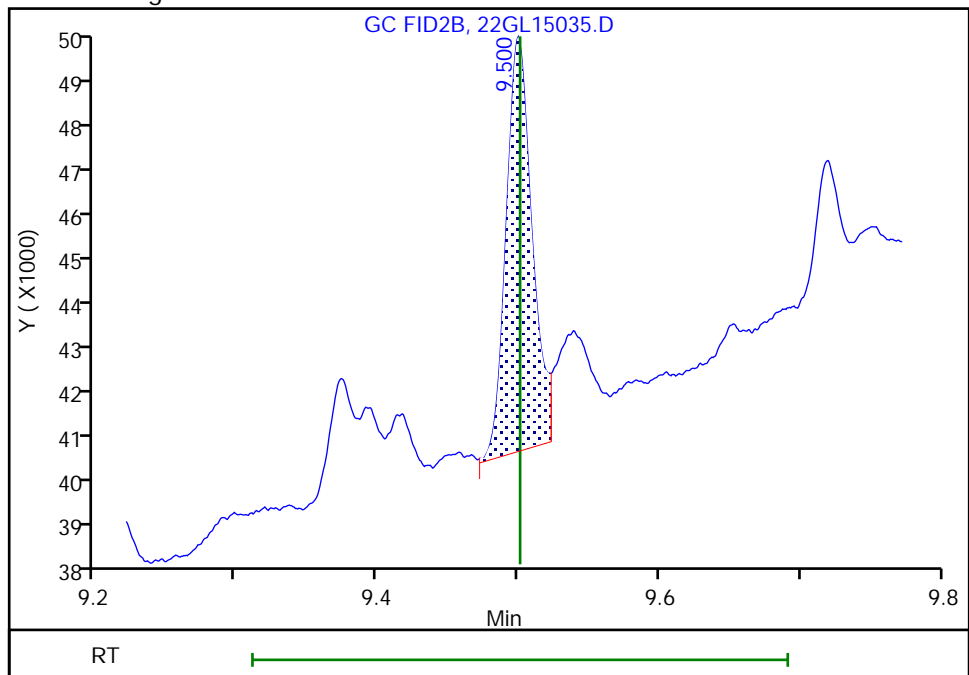
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 10977
Amount: 0.154939
Amount Units: ug/ml



Reviewer: SWK1, 16-Dec-2022 10:48:16

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 12/15/2022 13:40Analysis Batch Number: 755296 End Date: 12/16/2022 01:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-755296/7		12/15/2022 13:40	1	22GL15007.D	J&W DB WAX 0.45 (mm)
IC 680-755296/8		12/15/2022 14:03	1	22GL15008.D	J&W DB WAX 0.45 (mm)
IC 680-755296/9		12/15/2022 14:26	1	22GL15009.D	J&W DB WAX 0.45 (mm)
ICIS 680-755296/10		12/15/2022 14:48	1	22GL15010.D	J&W DB WAX 0.45 (mm)
IC 680-755296/11		12/15/2022 15:11	1	22GL15011.D	J&W DB WAX 0.45 (mm)
IC 680-755296/12		12/15/2022 15:34	1	22GL15012.D	J&W DB WAX 0.45 (mm)
ICV 680-755296/13 CCV		12/15/2022 15:56	1	22GL15013.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 16:19	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 16:42	1		J&W DB WAX 0.45 (mm)
LCS 680-755329/2-A		12/15/2022 18:00	1	22GL15018.D	J&W DB WAX 0.45 (mm)
LCSD 680-755329/3-A		12/15/2022 18:23	1	22GL15019.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 19:31	1		J&W DB WAX 0.45 (mm)
MB 680-755329/1-A		12/15/2022 19:53	1	22GL15023.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 20:16	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 20:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:24	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 21:46	1		J&W DB WAX 0.45 (mm)
580-120929-1	ADIT6-DU04A-SON02MI-2 2DEC	12/15/2022 22:09	1	22GL15029.D	J&W DB WAX 0.45 (mm)
580-120929-2	ADIT6-DU04B-SON02MI-2 2DEC	12/15/2022 22:31	1	22GL15030.D	J&W DB WAX 0.45 (mm)
580-120929-3	ADIT6-IDW-SON02MI-22D EC	12/15/2022 22:54	1	22GL15031.D	J&W DB WAX 0.45 (mm)
580-120929-4	ADIT6-IDW-SOFD02MI-22 DEC	12/15/2022 23:17	1	22GL15032.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/15/2022 23:39	1		J&W DB WAX 0.45 (mm)
580-120929-5 DU	ADIT6-IDW-SOFT02MI-22 DEC DU	12/16/2022 00:02	1	22GL15034.D	J&W DB WAX 0.45 (mm)
580-120929-5 TRL	ADIT6-IDW-SOFT02MI-22 DEC TRL	12/16/2022 00:25	1	22GL15035.D	J&W DB WAX 0.45 (mm)
580-120929-5 MS	ADIT6-IDW-SOFT02MI-22 DEC MS	12/16/2022 00:47	1	22GL15036.D	J&W DB WAX 0.45 (mm)
580-120929-5 MSD	ADIT6-IDW-SOFT02MI-22 DEC MSD	12/16/2022 01:10	1	22GL15037.D	J&W DB WAX 0.45 (mm)
CCV 680-755296/39		12/16/2022 01:55	1	22GL15039.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 12/16/2022 17:20Analysis Batch Number: 755535 End Date: 12/17/2022 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-755535/5		12/16/2022 17:20	1	22GL16005.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 17:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 18:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 19:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 19:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 20:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 20:53	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 21:16	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 21:38	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 22:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 22:23	1		J&W DB WAX 0.45 (mm)
580-120929-5	ADIT6-IDW-SOFT02MI-22 DEC	12/16/2022 22:46	1	22GL16019.D	J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:09	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/16/2022 23:54	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 00:16	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 00:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 01:01	1		J&W DB WAX 0.45 (mm)
ZZZZZ		12/17/2022 01:24	1		J&W DB WAX 0.45 (mm)
CCV 680-755535/28		12/17/2022 02:09	1	22GL16028.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Batch Number: 755296 Batch Start Date: 12/15/22 13:40 Batch Analyst: Kellar, Joshua CBatch Method: 8015C GLY Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099	SG_GlyICV 00056		
IC 680-755296/7		8015C GLY		1 mL	50 uL	10 uL			
IC 680-755296/8		8015C GLY		1 mL	40 uL	10 uL			
IC 680-755296/9		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-755296/10		8015C GLY		1 mL	10 uL	10 uL			
IC 680-755296/11		8015C GLY		1 mL	5 uL	10 uL			
IC 680-755296/12		8015C GLY		1 mL	2.5 uL	10 uL			
ICV 680-755296/13 CCV		8015C GLY		1 mL		10 uL	10 uL		
LCS 680-755329/2-A		8015C GLY		1 mL		10 uL			
LCS 680-755329/3-A		8015C GLY		1 mL		10 uL			
MB 680-755329/1-A		8015C GLY		1 mL		10 uL			
580-120929-B-1-A	ADIT6-DU04A-SON0 2MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-B-2-A	ADIT6-DU04B-SON0 2MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-B-3-A	ADIT6-IDW-SON02M I-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-B-4-A	ADIT6-IDW-SOFO02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-C-5-A DU	ADIT6-IDW-SOFT02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-C-5-B TRL	ADIT6-IDW-SOFT02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-B-5-B MS	ADIT6-IDW-SOFT02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
580-120929-B-5-C MSD	ADIT6-IDW-SOFT02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
CCV 680-755296/39		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

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.

8015C GLY

Page 1 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Batch Number: 755296 Batch Start Date: 12/15/22 13:40 Batch Analyst: Kellar, Joshua CBatch Method: 8015C GLY Batch End Date: _____

Basis	Basis Description
S	Soluble

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.

8015C GLY

Page 2 of 2

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Batch Number: 755329 Batch Start Date: 12/15/22 14:53 Batch Analyst: Meincke, Griffin EBatch Method: DI Leach Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SG_GlyICV 00056			
MB 680-755329/1		DI Leach, 8015C GLY		5.11 g	5 mL				
LCS 680-755329/2		DI Leach, 8015C GLY		5.22 g	5 mL	50 uL			
LCSD 680-755329/3		DI Leach, 8015C GLY		5.06 g	5 mL	50 uL			
580-120929-B-1	ADIT6-DU04A-SON0 2MI-22DEC	DI Leach, 8015C GLY	S	9.81 g	10 mL				
580-120929-B-2	ADIT6-DU04B-SON0 2MI-22DEC	DI Leach, 8015C GLY	S	10.02 g	10 mL				
580-120929-B-3	ADIT6-IDW-SON02M I-22DEC	DI Leach, 8015C GLY	S	10.44 g	10 mL				
580-120929-B-4	ADIT6-IDW-SOFD02 MI-22DEC	DI Leach, 8015C GLY	S	9.89 g	10 mL				
580-120929-B-5	ADIT6-IDW-SOFT02 MI-22DEC	DI Leach, 8015C GLY	S	10.73 g	10 mL				
580-120929-C-5 DU	ADIT6-IDW-SOFT02 MI-22DEC	DI Leach, 8015C GLY	S	10.09 g	10 mL				
580-120929-C-5 TRL	ADIT6-IDW-SOFT02 MI-22DEC	DI Leach, 8015C GLY	S	10.24 g	10 mL				
580-120929-B-5 MS	ADIT6-IDW-SOFT02 MI-22DEC	DI Leach, 8015C GLY	S	10.18 g	10 mL	50 uL			
580-120929-B-5 MSD	ADIT6-IDW-SOFT02 MI-22DEC	DI Leach, 8015C GLY	S	10.29 g	10 mL	50 uL			

Batch Notes	
Balance ID	36
Tumble Start Time	12/15/2022 16:08
Tumble End Time	12/15/2022 16:10
Batch Comment	8015 glycol

Basis	Basis Description
S	Soluble

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.

8015C GLY

Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Batch Number: 755535 Batch Start Date: 12/16/22 17:20 Batch Analyst: Kellar, Joshua CBatch Method: 8015C GLY Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00047	SG_GLY_ISTD 00099			
CCV 680-755535/5		8015C GLY		1 mL	10 uL	10 uL			
580-120929-B-5-A	ADIT6-IDW-SOFT02 MI-22DEC	8015C GLY	S	1 mL		10 uL			
CCV 680-755535/28		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

Basis	Basis Description
S	Soluble

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.

8015C GLY

Page 1 of 1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-120929-1

SDG No.:

Project: Red Hill - AFFF Assessment Sampling

Client Sample ID	Lab Sample ID
ADIT6-DU04A-SON02MI-22DEC	580-120929-1
ADIT6-DU04B-SON02MI-22DEC	580-120929-2
ADIT6-IDW-SON02MI-22DEC	580-120929-3
ADIT6-IDW-SOFD02MI-22DEC	580-120929-4
ADIT6-IDW-SOFT02MI-22DEC	580-120929-5

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-120929-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture LOQ Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job Number: 580-120929-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Savannah Job No.: 580-120929-1
 SDG No.: _____
 Instrument ID: NOEQUIP Analysis Method: Moisture
 Start Date: 12/13/2022 07:53 End Date: 12/13/2022 08:03

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				% S o l	M o i s t																								
580-120929-1	1	T	07:53	X	X																								
580-120929-2	1	T	07:53	X	X																								
580-120929-3	1	T	07:53	X	X																								
580-120929-4	1	T	07:53	X	X																								
580-120929-5	1	T	07:53	X	X																								
ZZZZZZ			07:53																										
ZZZZZZ			08:03																										
ZZZZZZ			08:03																										
ZZZZZZ			08:03																										

Prep Types: _____
 T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-120929-1

SDG No.: _____

Batch Number: 754793 Batch Start Date: 12/13/22 07:53 Batch Analyst: Brantley, Willie RBatch Method: Moisture Batch End Date: 12/13/22 13:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid	
580-120929-C-1	ADIT6-DU04A-SON0 2MI-22DEC	Moisture	T	1.30 g	11.73 g	9.73 g	19.175455417066 2 %	80.824544582933 8 %	
580-120929-C-2	ADIT6-DU04B-SON0 2MI-22DEC	Moisture	T	1.30 g	11.49 g	9.73 g	17.271835132482 8 %	82.728164867517 2 %	
580-120929-C-3	ADIT6-IDW-SON02M I-22DEC	Moisture	T	1.30 g	11.56 g	9.94 g	15.789473684210 5 %	84.210526315789 5 %	
580-120929-C-4	ADIT6-IDW-SOFD02 MI-22DEC	Moisture	T	1.30 g	11.26 g	9.65 g	16.164658634538 2 %	83.835341365461 8 %	
580-120929-C-5	ADIT6-IDW-SOFT02 MI-22DEC	Moisture	T	1.28 g	11.74 g	10.19 g	14.818355640535 4 %	85.181644359464 6 %	

Batch Notes	
Balance ID	33
Oven ID	OVEN J
Thermometer ID	OVEN J
Date samples were placed in the oven	12/13/2022
Time samples were place in the oven	07:53
Temperature - Start - Uncorrected	106.4 Degrees C
Oven Temp In	106.1 Degrees C
Date samples were removed from oven	12/13/2022
Time Samples were removed from oven	13:06
Temperature - End - Uncorrected	106.1 Degrees C
Oven Temp Out	105.8 Degrees C

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.

Moisture

Page 1 of 1

General Chemistry Raw Data Report

Job ID: 580-120929-1

Batch: 754793
Method: Moisture

Analyst Initials: WRB
Instrument: No Equipment Assigned to The Batch

Lab Sample ID: 580-120929-C-1

Analysis Date: Dec 13, 2022 07:53

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	19.1754554170662	%
Percent Solids	None	1	80.8245445829338	%

Lab Sample ID: 580-120929-C-2

Analysis Date: Dec 13, 2022 07:53

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	17.2718351324828	%
Percent Solids	None	1	82.7281648675172	%

Lab Sample ID: 580-120929-C-3

Analysis Date: Dec 13, 2022 07:53

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	15.7894736842105	%
Percent Solids	None	1	84.2105263157895	%

Lab Sample ID: 580-120929-C-4

Analysis Date: Dec 13, 2022 07:53

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	16.1646586345382	%
Percent Solids	None	1	83.8353413654618	%

Lab Sample ID: 580-120929-C-5

Analysis Date: Dec 13, 2022 07:53

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	14.8183556405354	%
Percent Solids	None	1	85.1816443594646	%

Subcontract Data

Shipping and Receiving Documents

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

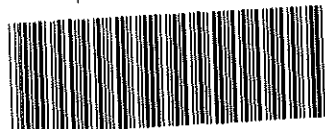
[illegible]

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins
Environment Testing
America

Client Information		Sampler: <u>Mitch Barber</u>		Lab PM: <u>Elaine Walker</u>		Carrier Tracking No(s): <u>FedEx</u>		DOC No: <u>2212WIEU-02</u>	
Client Contact: <u>Watson Tanji</u>		Phone: <u>509-554-0878</u>		E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>		State of Origin: <u>Hawaii</u>		Page: <u>Page 1 of 1</u>	
Company: <u>AECOM</u>		PWSID: _____		Analysis Requested		Job #		Preservation Codes:	
Address: <u>1001 Bishop St. Suite 1600</u>		Due Date Requested:		<div>Field Filtered Sample (Yes or No)</div> <div>Perform MS/MSD (Yes or No)</div> <div>9050C.DAI-G-DS/2-(2-bisphenol-A)</div> <div>ethanol</div> <div>12/6/22</div>		<div>Total Number of containers</div>		<div>Preservation Codes:</div> <div>A - HCL M - Hexane</div> <div>B - NaOH N - None</div> <div>C - Zn Acetate O - AsNaO2</div> <div>D - Nitric Acid P - Na2O4S</div> <div>E - NaHSO4 Q - Na2SO3</div> <div>F - NaOH R - Na2S2O3</div> <div>G - Amchlor S - H2SO4</div> <div>H - Ascorbic Acid T - TSP Decahydrate</div> <div>I - Ice U - Acetone</div> <div>J - DI Water V - MCAA</div> <div>K - EDTA W - pH 4.5</div> <div>L - EDA Z - other (specify)</div>	
City: <u>Honolulu</u>		TAT Requested (days): <u>Rush - ASAP</u>							
State, Zip: <u>Hawaii 96813</u>		Compliance Project: <u>Yes No</u>							
Phone: <u>808-954-4512</u>		PO #:							
Email: <u>Watson Tanji (watson.tanji@aecom.com)</u>		WG #:							
Project Name: <u>N6274223F0104</u>		Project #:		Project #:		Project #:		Project #:	
Site: <u>RHSF</u>		SSOW#:		SSOW#:		SSOW#:		SSOW#:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=sediment, O=oil, T=tissue, A=air)	
ADIT6-DU04A-SON02MI-22DEC		12-3-22		1300		Soft		S	
ADIT6-DU04B-SON02MI-22DEC		↓		1300		Comp		↓	
ADIT6-IDW-SON02MI-22DEC		↓		1225		↓		↓	
ADIT6-IDW-SOFD02MI-22DEC		↓		↓		↓		↓	
ADIT6-IDW-SOFT02MI-22DEC		↓		↓		↓		↓	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS FDD.		Special Instructions/OC Requirements: DOD QSM project.		Special Instructions/OC Requirements: DOD QSM project.		Special Instructions/OC Requirements: DOD QSM project.	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment		Method of Shipment	
Relinquished by: <u>Mitch Barber</u>		Date/Time: <u>12-3-22 1400</u>		Company: <u>AECOM</u>		Received by: <u>Brittany Tominez</u>		Date/Time: <u>12/3/22 1400</u>	
Relinquished by: <u>Brittany Tominez</u>		Date/Time: <u>12/6/22 1430</u>		Company: <u>AECOM</u>		Received by: <u>R/S</u>		Date/Time: <u>12/7/22 0945</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <u>Yes</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



580-120929 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-120929-1

Login Number: 120929

List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-120929-1

Login Number: 120929
List Number: 2
Creator: Givens, Keshia

List Source: Eurofins Savannah
List Creation: 12/10/22 12:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	N/A	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	