

 **ANALYTICAL REPORT****PREPARED FOR**

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AECOM

1001 Bishop Street  
Honolulu HI 96813

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**JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

**JOB NUMBER**

580-124965-1

# 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: 580-124965-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
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: 580-124965-1

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 03/16/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 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 AF-RHMW10-WGN01LF-2303W2 (580-124965-1), AF-RHMW16-WGN01LF-2303W2 (580-124965-2), AF-HDMW225303-WGN01LF-2303W2 (580-124965-3), AF-HDMW12A-WGN01LF-2303W2 (580-124965-4) and AF-HDMW12A-WGFD01LF-2303W2 (580-124965-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI.** The samples were analyzed on 03/22/2023.

The closing continuing calibration verification (CCV) associated with batch 680-769036 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported. The associated samples are impacted: AF-RHMW10-WGN01LF-2303W2 (580-124965-1), AF-RHMW16-WGN01LF-2303W2 (580-124965-2), AF-HDMW225303-WGN01LF-2303W2 (580-124965-3), AF-HDMW12A-WGN01LF-2303W2 (580-124965-4), AF-HDMW12A-WGFD01LF-2303W2 (580-124965-5), (CCV 680-769036/27), (580-124965-A-2 MS) and (580-124965-A-2 MSD).

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

# Detection Summary

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

Job ID: 580-124965-1

**Client Sample ID: AF-RHMW10-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-1**

No Detections.

**Client Sample ID: AF-RHMW16-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-2**

No Detections.

**Client Sample ID: AF-HDMW225303-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-3**

No Detections.

**Client Sample ID: AF-RHMW12A-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-4**

No Detections.

**Client Sample ID: AF-RHMW12A-WGFD01LF-2303W2**

**Lab Sample ID: 580-124965-5**

No Detections.

This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 580-124965-1

**Client Sample ID: AF-RHMW10-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-1**

Date Collected: 03/14/23 12:55

Matrix: Water

Date Received: 03/16/23 13:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			03/22/23 17:51	1

**Client Sample ID: AF-RHMW16-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-2**

Date Collected: 03/13/23 14:30

Matrix: Water

Date Received: 03/16/23 13:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/22/23 18:15	1

**Client Sample ID: AF-HDMW225303-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-3**

Date Collected: 03/14/23 10:40

Matrix: Water

Date Received: 03/16/23 13:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/22/23 19:25	1

**Client Sample ID: AF-RHMW12A-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-4**

Date Collected: 03/13/23 11:10

Matrix: Water

Date Received: 03/16/23 13:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/22/23 19:48	1

**Client Sample ID: AF-RHMW12A-WGFD01LF-2303W2**

**Lab Sample ID: 580-124965-5**

Date Collected: 03/13/23 11:10

Matrix: Water

Date Received: 03/16/23 13:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			03/22/23 20:12	1



# Default Detection Limits

Client: AECOM

Job ID: 580-124965-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

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Analyte	LOQ	DL	Units
2-(2-Butoxyethoxy)ethanol	5.0	1.1	mg/L

# QC Sample Results

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

Job ID: 580-124965-1

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

**Lab Sample ID: MB 680-769036/12**  
**Matrix: Water**  
**Analysis Batch: 769036**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			03/22/23 17:05	1

**Lab Sample ID: LCS 680-769036/6**  
**Matrix: Water**  
**Analysis Batch: 769036**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	19.8		mg/L		99	50 - 150

**Lab Sample ID: LCSD 680-769036/7**  
**Matrix: Water**  
**Analysis Batch: 769036**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	19.1		mg/L		95	50 - 150	4	50

**Lab Sample ID: 580-124965-2 MS**  
**Matrix: Water**  
**Analysis Batch: 769036**

**Client Sample ID: AF-RHMW16-WGN01LF-2303W2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	20.0	19.7		mg/L		98	50 - 150

**Lab Sample ID: 580-124965-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 769036**

**Client Sample ID: AF-RHMW16-WGN01LF-2303W2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	20.0	18.7		mg/L		93	50 - 150	5	50

# QC Association Summary

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

Job ID: 580-124965-1

## GC Semi VOA

### Analysis Batch: 769036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-124965-1	AF-RHMW10-WGN01LF-2303W2	Total/NA	Water	8015C GLY	
580-124965-2	AF-RHMW16-WGN01LF-2303W2	Total/NA	Water	8015C GLY	
580-124965-3	AF-HDMW225303-WGN01LF-2303W2	Total/NA	Water	8015C GLY	
580-124965-4	AF-RHMW12A-WGN01LF-2303W2	Total/NA	Water	8015C GLY	
580-124965-5	AF-RHMW12A-WGFD01LF-2303W2	Total/NA	Water	8015C GLY	
MB 680-769036/12	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-769036/6	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-769036/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-124965-2 MS	AF-RHMW16-WGN01LF-2303W2	Total/NA	Water	8015C GLY	
580-124965-2 MSD	AF-RHMW16-WGN01LF-2303W2	Total/NA	Water	8015C GLY	

# Lab Chronicle

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

Job ID: 580-124965-1

**Client Sample ID: AF-RHMW10-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-1**

Date Collected: 03/14/23 12:55

Matrix: Water

Date Received: 03/16/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769036	JCK	EET SAV	03/22/23 17:51

**Client Sample ID: AF-RHMW16-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-2**

Date Collected: 03/13/23 14:30

Matrix: Water

Date Received: 03/16/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769036	JCK	EET SAV	03/22/23 18:15

**Client Sample ID: AF-HDMW225303-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-3**

Date Collected: 03/14/23 10:40

Matrix: Water

Date Received: 03/16/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769036	JCK	EET SAV	03/22/23 19:25

**Client Sample ID: AF-RHMW12A-WGN01LF-2303W2**

**Lab Sample ID: 580-124965-4**

Date Collected: 03/13/23 11:10

Matrix: Water

Date Received: 03/16/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769036	JCK	EET SAV	03/22/23 19:48

**Client Sample ID: AF-RHMW12A-WGFD01LF-2303W2**

**Lab Sample ID: 580-124965-5**

Date Collected: 03/13/23 11:10

Matrix: Water

Date Received: 03/16/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	769036	JCK	EET SAV	03/22/23 20:12

## Laboratory References:

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

# Accreditation/Certification Summary

Client: AECOM

Job ID: 580-124965-1

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		Water	2-(2-Butoxyethoxy)ethanol

# Method Summary

Client: AECOM

Job ID: 580-124965-1

Project/Site: Red Hill - AFFF Assessment Sampling

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8015C GLY	Glycols- Direct Injection (GC/FID)	SW846	EET SAV

**Protocol References:**

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: 580-124965-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-124965-1	AF-RHMW10-WGN01LF-2303W2	Water	03/14/23 12:55	03/16/23 13:00
580-124965-2	AF-RHMW16-WGN01LF-2303W2	Water	03/13/23 14:30	03/16/23 13:00
580-124965-3	AF-HDMW225303-WGN01LF-2303W2	Water	03/14/23 10:40	03/16/23 13:00
580-124965-4	AF-RHMW12A-WGN01LF-2303W2	Water	03/13/23 11:10	03/16/23 13:00
580-124965-5	AF-RHMW12A-WGFD01LF-2303W2	Water	03/13/23 11:10	03/16/23 13:00

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Analysis Batch Number: 768387

Lab Sample ID: ICIS 680-768387/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/18/23 18:14 Lab File ID: GC18008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.35	Baseline Smoothing	SWK1	03/19/23 17:24

Lab Sample ID: IC 680-768387/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/18/23 18:37 Lab File ID: GC18009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.35	Baseline Smoothing	SWK1	03/19/23 17:24
Ethylene glycol	6.57	Baseline Smoothing	SWK1	03/19/23 17:24

Lab Sample ID: IC 680-768387/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/18/23 19:01 Lab File ID: GC18010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.35	Baseline Smoothing	SWK1	03/19/23 17:25
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/19/23 17:24

Lab Sample ID: IC 680-768387/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/18/23 19:24 Lab File ID: GC18011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.35	Baseline Smoothing	SWK1	03/19/23 17:25
Ethylene glycol	6.56	Baseline Smoothing	SWK1	03/19/23 17:25



GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Analysis Batch Number: 768387

Lab Sample ID: ICV 680-768387/12 CCV Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/18/23 19:47 Lab File ID: GC18012.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dipropylene Glycol Methyl Ether	5.13	Baseline Smoothing	SWK1	03/19/23 17:25

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Analysis Batch Number: 769036

Lab Sample ID: MB 680-769036/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/22/23 17:05 Lab File ID: GC22012.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/23/23 11:09

Lab Sample ID: 580-124965-2 Client Sample ID: AF-RHMW16-WGN01LF-2303W2

Date Analyzed: 03/22/23 18:15 Lab File ID: GC22015.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/23/23 11:10

Lab Sample ID: 580-124965-3 Client Sample ID: AF-HDMW225303-WGN01LF-2303W2

Date Analyzed: 03/22/23 19:25 Lab File ID: GC22018.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/23/23 11:10

Lab Sample ID: 580-124965-4 Client Sample ID: AF-RHMW12A-WGN01LF-2303W2

Date Analyzed: 03/22/23 19:48 Lab File ID: GC22019.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/23/23 11:10

Lab Sample ID: 580-124965-5 Client Sample ID: AF-RHMW12A-WGFD01LF-2303W2

Date Analyzed: 03/22/23 20:12 Lab File ID: GC22020.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	03/23/23 11:10

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Analysis Batch Number: 769036

Lab Sample ID: CCV 680-769036/27 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/22/23 22:55 Lab File ID: GC22027.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.91	Baseline Smoothing	SWK1	03/23/23 11:10

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>SG_Gly_CAL_00048</b>	05/21/23		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
<b>SG_GLY_ISTD_00106</b>	05/22/23		Agilent, Lot 0006720623			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
<b>SG_GlyICV_00055</b>	08/21/23		o2si, Lot 454407			(Purchased Reagent)	2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

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**SG\_Gly\_CAL\_00048**



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

Page 1 of 3

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/HRAM-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

Page 2 of 3

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:  $\leq -10$  °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

$u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{ls}}^2)^{1/2}$  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

7290B Investment Drive • North Charleston, SC 29418  
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# Certificate of Analysis

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.

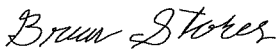
## Expiration Information:

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

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

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Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead



Reagent

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**SG\_GLY\_ISTD\_00106**

**Reference Material Certificate**  
**Product Information Sheet**

**Product Name:** Custom Standard

**Lot Number:** 0006720623

**Product Number:** CUS-6046

**Lot Issue Date:** 15-Dec-2022

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

**Expiration Date:** 31-Jan-2025

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
n-heptanol	5001	± 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/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

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

**Instructions for Use:**

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

**Safety:**

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

**Intended Use:**

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

**Expiration of Certification:**

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



**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



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

Page: 2 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1

ISO 17025

ISO 17034 Cert  
No. AR-1936

Reagent

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**SG\_GlyICV\_00055**



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

Page 1 of 3

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/HRAM-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

Page 2 of 2

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:  $\leq -10$  °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  
 $u_c = (u_{\text{char}}^2 + u_{\text{tran}}^2 + u_{\text{homo}}^2 + u_{\text{its}}^2)^{1/2}$  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:



Jared Ball  
1 -Jul-2021

Production 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

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

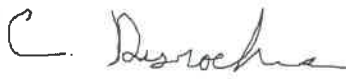
Manufactured By:



Jared Ball  
1 -Jul-2021

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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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# Method 8015C - DAI Glycols

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

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: GC22006.D  
 Lab ID: LCS 680-769036/6 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	19.8	99	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: GC22007.D  
 Lab ID: LCSD 680-769036/7 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	19.1	95	4	50	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: GC22016.D  
 Lab ID: 580-124965-2 MS Client ID: AF-RHMW16-WGN01LF-2303W2 MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	3.0 U	19.7	98	50-150	

# Column to be used to flag recovery and RPD values  
 FORM III 8015C GLY

FORM III  
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Matrix: Water Level: Low Lab File ID: GC22017.D

Lab ID: 580-124965-2 MSD Client ID: AF-RHWW16-WGN01LF-2303W2 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	18.7	93	5	50	50-150	

# Column to be used to flag recovery and RPD values

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 680-769036/12  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) GC22012.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 03/22/2023 17:05 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 680-769036/6	03/22/2023 14:45	
	LCSD 680-769036/7	03/22/2023 15:08	
AF-RHMW10-WGN01LF-2303W2	580-124965-1	03/22/2023 17:51	
AF-RHMW16-WGN01LF-2303W2	580-124965-2	03/22/2023 18:15	
AF-RHMW16-WGN01LF-2303W2 MS	580-124965-2 MS	03/22/2023 18:38	
AF-RHMW16-WGN01LF-2303W2 MSD	580-124965-2 MSD	03/22/2023 19:02	
AF-HDMW225303-WGN01LF-23 03W2	580-124965-3	03/22/2023 19:25	
AF-RHMW12A-WGN01LF-2303W 2	580-124965-4	03/22/2023 19:48	
AF-RHMW12A-WGFD01LF-2303 W2	580-124965-5	03/22/2023 20:12	

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

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 680-768387/8 Date Analyzed: 03/18/2023 18:14  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)  
 Lab File ID (Standard): GC18008.D Heated Purge: (Y/N) N  
 Calibration ID: 90309

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	5093613	4.21				
UPPER LIMIT	10187226	4.71				
LOWER LIMIT	2546807	3.71				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-768387/12 CCV		5958489	4.21			

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 680-769036/5 Date Analyzed: 03/22/2023 14:21  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)  
 Lab File ID (Standard): GC22005.D Heated Purge: (Y/N) N  
 Calibration ID: 90309

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		3173939	4.21				
UPPER LIMIT		6347878	4.71				
LOWER LIMIT		1586970	3.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-769036/6		4401122	4.21				
LCSD 680-769036/7		4256785	4.21				
MB 680-769036/12		5939401	4.20				
580-124965-1	AF-RHMW10-WGN01LF-2 303W2	4796324	4.20				
580-124965-2	AF-RHMW16-WGN01LF-2 303W2	5899712	4.20				
580-124965-2 MS	AF-RHMW16-WGN01LF-2 303W2 MS	4108804	4.20				
580-124965-2 MSD	AF-RHMW16-WGN01LF-2 303W2 MSD	4507118	4.20				
580-124965-3	AF-HDMW225303-WGN01 LF-2303W2	6233168	4.20				
580-124965-4	AF-RHMW12A-WGN01LF- 2303W2	5596231	4.21				
580-124965-5	AF-RHMW12A-WGFD01LF- -2303W2	5930343	4.20				
CCV 680-769036/27		5818470	4.19				

nHPA = n-Heptyl Alcohol

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 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.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW10-WGN01LF-2303W2 Lab Sample ID: 580-124965-1  
 Matrix: Water Lab File ID: GC22014.D  
 Analysis Method: 8015C GLY Date Collected: 03/14/2023 12:55  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 17:51  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22014.D  
 Lims ID: 580-124965-A-1  
 Client ID: AF-RHMW10-WGN01LF-2303W2  
 Sample Type: Client  
 Inject. Date: 22-Mar-2023 17:51:53      ALS Bottle#: 0      Worklist Smp#: 14  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0084602-014  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45      Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1      Date: 23-Mar-2023 11:10:01

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

\* 4 n-Heptyl Alcohol  
 4.201    4.189    0.012    4796324    50.0  
 8 2-(2-Butoxyethoxy)ethanol      7  
 8.396    8.392    0.004    2227    -1.62    7  
 LOD = 0.5000

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SG\_GLY\_ISTD\_00106      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22014.D

Injection Date: 22-Mar-2023 17:51:53

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-1

Lab Sample ID: 680-124965-1

Worklist Smp#: 14

Client ID: AF-RHMW10-WGN01LF-2303W2

Injection Vol: 1.0 ul

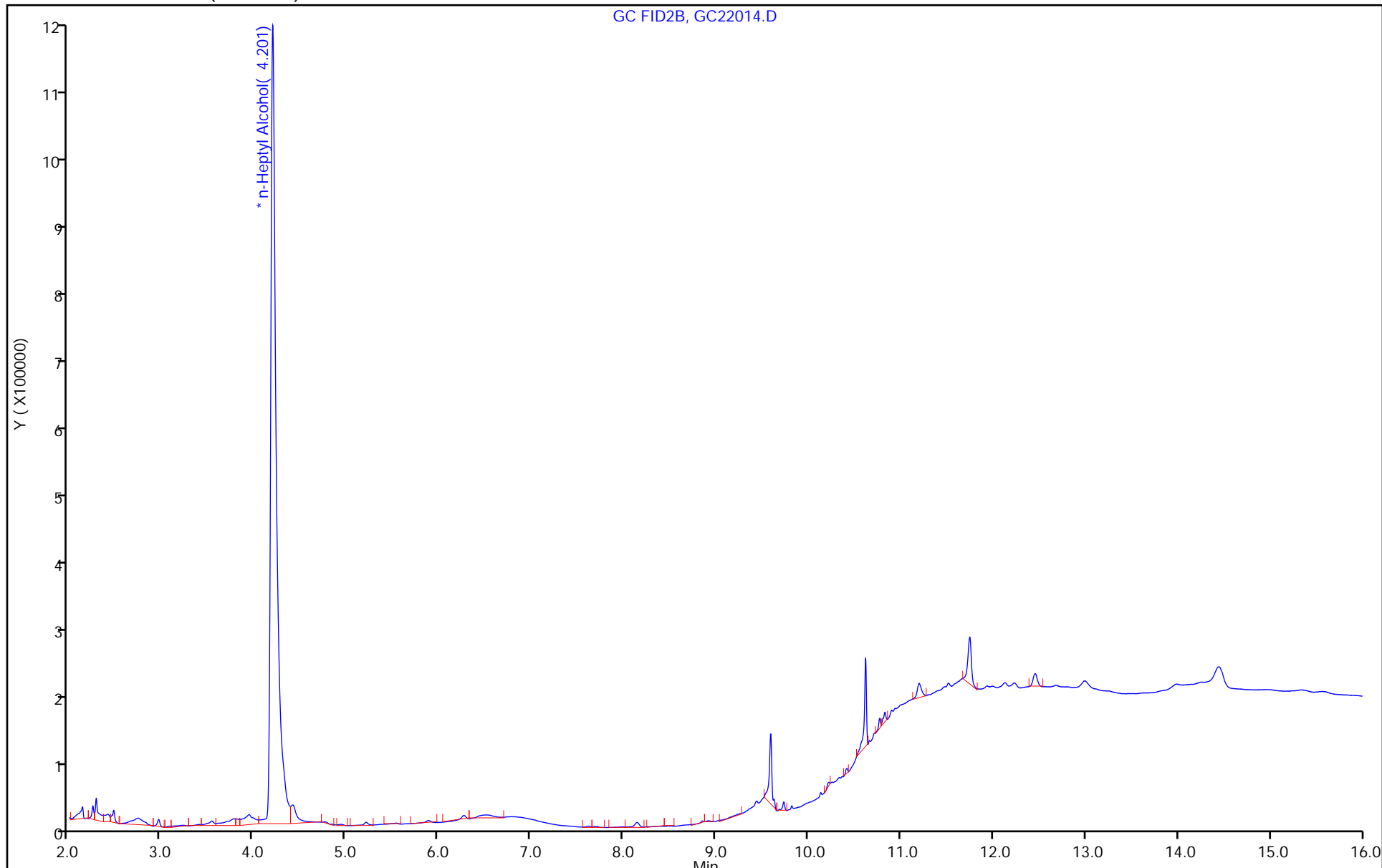
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW16-WGN01LF-2303W2 Lab Sample ID: 580-124965-2  
 Matrix: Water Lab File ID: GC22015.D  
 Analysis Method: 8015C GLY Date Collected: 03/13/2023 14:30  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 18:15  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22015.D  
 Lims ID: 580-124965-A-2  
 Client ID: AF-RHMW16-WGN01LF-2303W2  
 Sample Type: Client  
 Inject. Date: 22-Mar-2023 18:15:15      ALS Bottle#: 0      Worklist Smp#: 15  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0084602-015  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45      Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1      Date: 23-Mar-2023 11:10:04

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

\* 4 n-Heptyl Alcohol  
 4.204    4.189    0.015    5899712    50.0

**Reagents:**

SG\_GLY\_ISTD\_00106      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22015.D

Injection Date: 22-Mar-2023 18:15:15

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-2

Lab Sample ID: 680-124965-2

Worklist Smp#: 15

Client ID: AF-RHMW16-WGN01LF-2303W2

Injection Vol: 1.0 ul

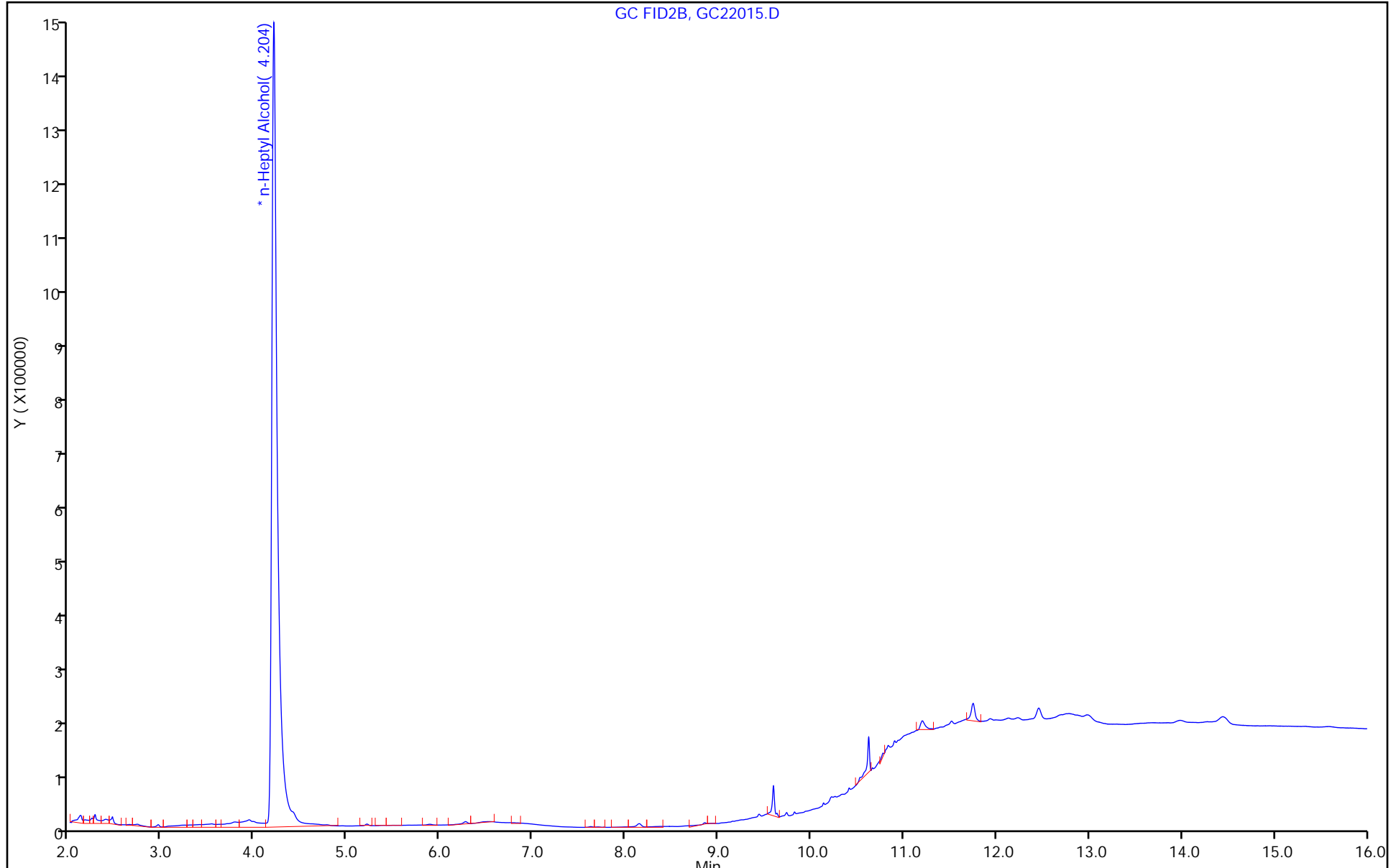
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-124965-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: AF-HDMW225303-WGN01LF-230 Lab Sample ID: 580-124965-3  
3W2  
Matrix: Water Lab File ID: GC22018.D  
Analysis Method: 8015C GLY Date Collected: 03/14/2023 10:40  
Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 19:25  
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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22018.D  
 Lims ID: 580-124965-A-3  
 Client ID: AF-HDMW225303-WGN01LF-2303W2  
 Sample Type: Client  
 Inject. Date: 22-Mar-2023 19:25:18 ALS Bottle#: 0 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-018  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1 Date: 23-Mar-2023 11:10:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 4.200 4.189 0.011 6233168 50.0

Reagents:

SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22018.D

Injection Date: 22-Mar-2023 19:25:18

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-3

Lab Sample ID: 680-124965-3

Worklist Smp#: 18

Client ID: AF-HDMW225303-WGN01LF-2303W2

Injection Vol: 1.0 ul

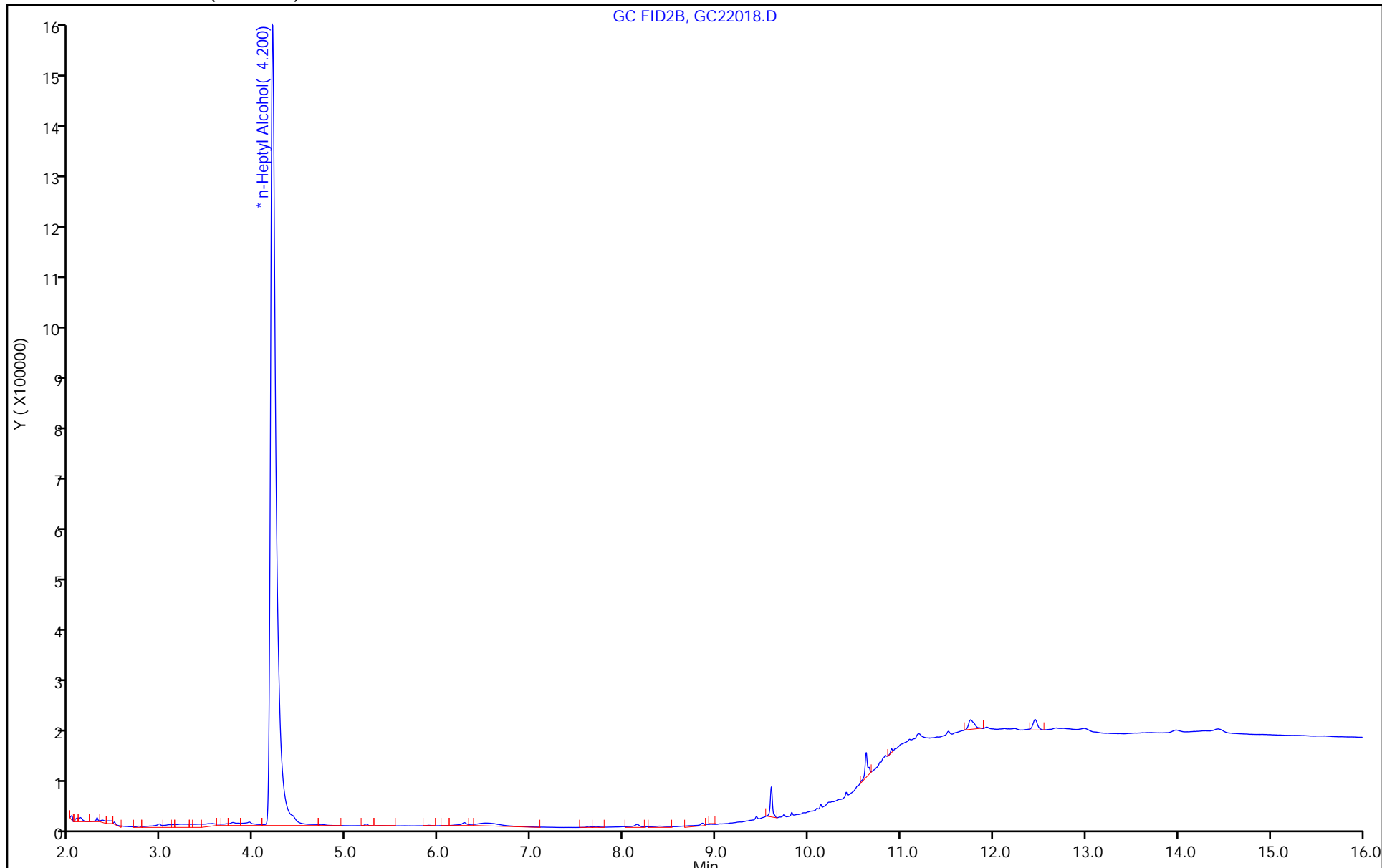
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW12A-WGN01LF-2303W2 Lab Sample ID: 580-124965-4  
 Matrix: Water Lab File ID: GC22019.D  
 Analysis Method: 8015C GLY Date Collected: 03/13/2023 11:10  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 19:48  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22019.D  
 Lims ID: 580-124965-A-4  
 Client ID: AF-HDMW12A-WGN01LF-2303W2  
 Sample Type: Client  
 Inject. Date: 22-Mar-2023 19:48:44 ALS Bottle#: 0 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-019  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1 Date: 23-Mar-2023 11:10:11

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 4.206 4.189 0.017 5596231 50.0

Reagents:

SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22019.D

Injection Date: 22-Mar-2023 19:48:44

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-4

Lab Sample ID: 680-124965-4

Worklist Smp#: 19

Client ID: AF-HDMW12A-WGN01LF-2303W2

Injection Vol: 1.0 ul

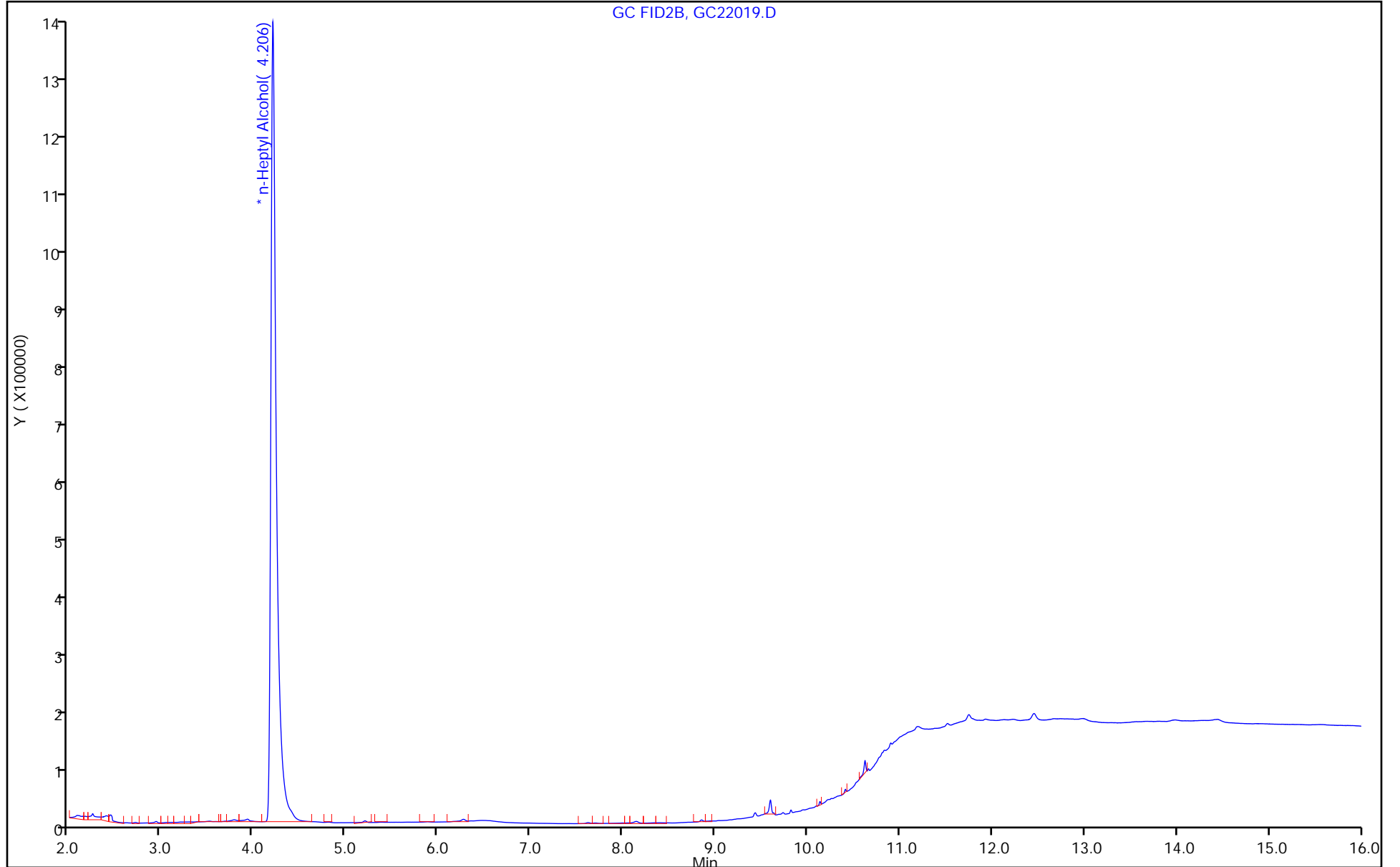
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW12A-WGFD01LF-2303W Lab Sample ID: 580-124965-5  
2  
 Matrix: Water Lab File ID: GC22020.D  
 Analysis Method: 8015C GLY Date Collected: 03/13/2023 11:10  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 20:12  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22020.D  
 Lims ID: 580-124965-A-5  
 Client ID: AF-HDMW12A-WGFD01LF-2303W2  
 Sample Type: Client  
 Inject. Date: 22-Mar-2023 20:12:03      ALS Bottle#: 0      Worklist Smp#: 20  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0084602-020  
 Operator ID:      Instrument ID: CVGG2  
  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45      Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1      Date: 23-Mar-2023 11:10:13

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

\* 4 n-Heptyl Alcohol  
 4.201    4.189    0.012    5930343    50.0

**Reagents:**

SG\_GLY\_ISTD\_00106      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22020.D

Injection Date: 22-Mar-2023 20:12:03

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-5

Lab Sample ID: 680-124965-5

Worklist Smp#: 20

Client ID: AF-HDMW12A-WGFD01LF-2303W2

Injection Vol: 1.0 ul

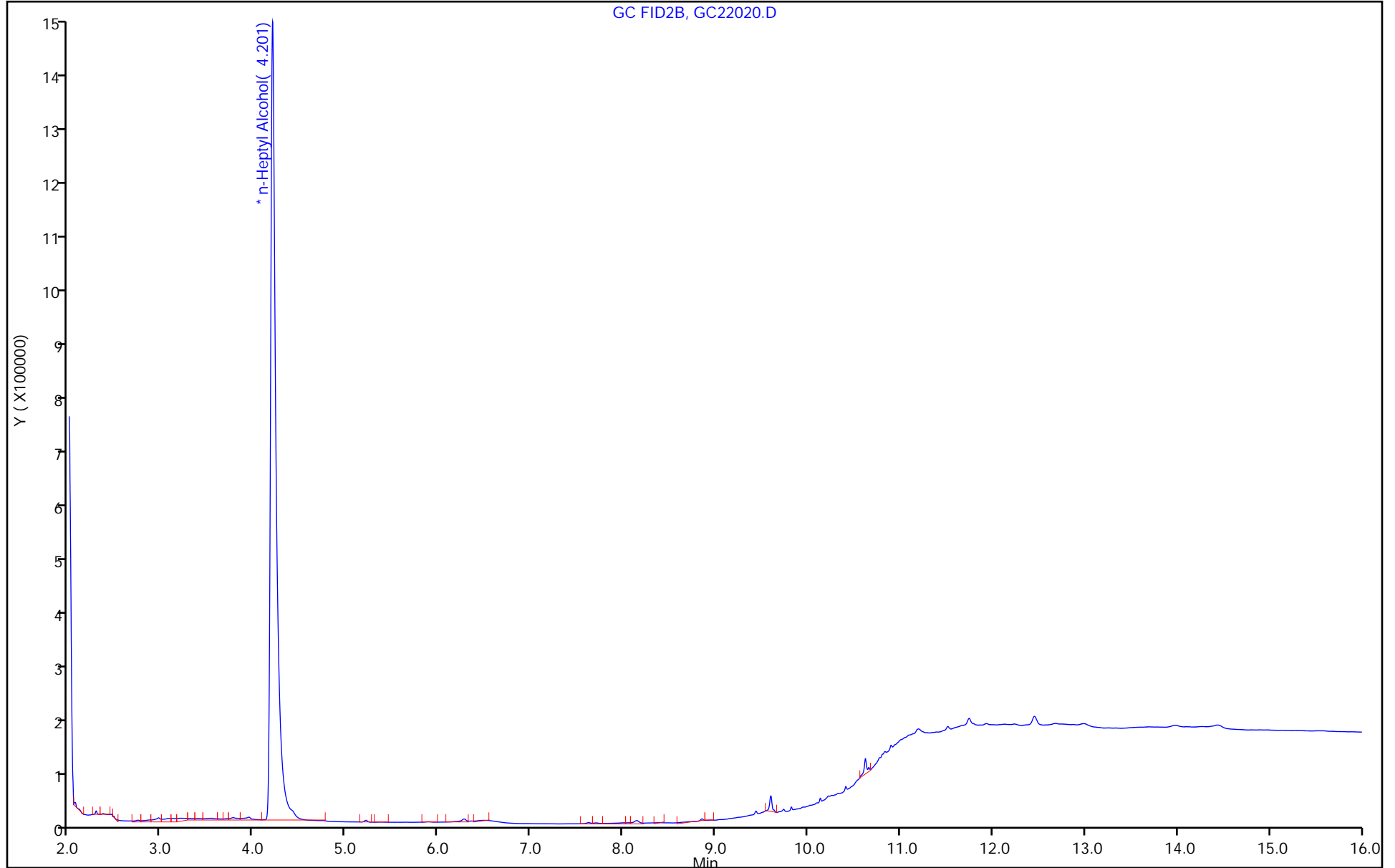
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



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

Lab Name: Eurofins Savannah Job No.: 580-124965-1 Analy Batch No.: 768387  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-768387/11	GC18011.D
Level 2	IC 680-768387/10	GC18010.D
Level 3	IC 680-768387/9	GC18009.D
Level 4	ICIS 680-768387/8	GC18008.D
Level 5	IC 680-768387/7	GC18007.D
Level 6	IC 680-768387/6	GC18006.D
Level 7	IC 680-768387/5	GC18005.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 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	0.9797 ++++	0.6753 0.5541	0.6451	0.6259	0.5698	Lin2	0.826 0	0.553 9						0.9970		0.9900	
4-Hydroxy-4-methyl-2-pentanone	0.8959 ++++	0.6166 0.5112	0.5814	0.5947	0.5199	Lin2	0.742 3	0.511 1						0.9950		0.9900	
2-Butoxyethanol	1.1329 ++++	0.7649 0.6289	0.7257	0.6919	0.6197	Lin2	1.011 2	0.612 4						0.9970		0.9900	
Dipropylene Glycol Methyl Ether	0.0677 ++++	0.0460 0.0414	0.0444	0.0471	0.0353	Lin1	0.052 7	0.039 3						0.9910		0.9900	
Propylene glycol	0.2329 ++++	0.1518 0.1204	0.1269	0.1201	0.0942	QuaF		0.089 7	0.0002968					0.9920		0.9900	
Ethylene glycol	0.6982 ++++	0.4996 0.4625	0.4595	0.4908	0.4389	Lin2	0.492 3	0.436 0						0.9950		0.9900	
2-(2-Butoxyethoxy)ethanol	0.8081 ++++	0.5436 0.4629	0.4944	0.5203	0.4079	Lin2	0.725 8	0.433 1						0.9910		0.9900	
2,2'-Oxybisethanol	0.4242 ++++	0.2842 0.2690	0.2662	0.2584	0.2292	Lin2	0.355 6	0.236 4						0.9910		0.9900	
Triethylene Glycol	0.2954 ++++	0.2299 0.2640	0.2485	0.2466	0.2103	Ave		0.249 1			11.7	20.0					
Tetraethylene Glycol	0.3281 ++++	0.2334 0.2712	0.2355	0.2550	0.2102	Ave		0.255 5			16.1	20.0					

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



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

Lab Name: Eurofins Savannah Job No.: 580-124965-1 Analy Batch No.: 768387

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

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

Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-768387/11	GC18011.D
Level 2	IC 680-768387/10	GC18010.D
Level 3	IC 680-768387/9	GC18009.D
Level 4	ICIS 680-768387/8	GC18008.D
Level 5	IC 680-768387/7	GC18007.D
Level 6	IC 680-768387/6	GC18006.D
Level 7	IC 680-768387/5	GC18005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Ethanol, 2-propoxy	nHPA	Lin2	222886 ++++	393646 5691872	623221	1275273	2157619	2.00 ++++	5.00 100	10.0	20.0	50.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Lin2	203822 ++++	359475 5251000	561636	1211619	1968767	2.00 ++++	5.00 100	10.0	20.0	50.0
2-Butoxyethanol	nHPA	Lin2	257721 ++++	445899 6460473	701048	1409738	2346417	2.00 ++++	5.00 100	10.0	20.0	50.0
Dipropylene Glycol Methyl Ether	nHPA	Lin1	15393 ++++	26829 425339	42940	95904	133778	2.00 ++++	5.00 100	10.0	20.0	50.0
Propylene glycol	nHPA	QuaF	52980 ++++	88495 1236652	122580	244697	356532	2.00 ++++	5.00 100	10.0	20.0	50.0
Ethylene glycol	nHPA	Lin2	158828 ++++	291250 4750731	443908	1000032	1662010	2.00 ++++	5.00 100	10.0	20.0	50.0
2-(2-Butoxyethoxy)ethanol	nHPA	Lin2	183850 ++++	316916 4754705	477636	1060164	1544400	2.00 ++++	5.00 100	10.0	20.0	50.0
2,2'-Oxybisethanol	nHPA	Lin2	96509 ++++	165658 2763044	257168	526527	867744	2.00 ++++	5.00 100	10.0	20.0	50.0
Triethylene Glycol	nHPA	Ave	67193 ++++	134028 2711975	240062	502431	796311	2.00 ++++	5.00 100	10.0	20.0	50.0
Tetraethylene Glycol	nHPA	Ave	149265 ++++	272086 5570856	454932	1039032	1591784	4.00 ++++	10.0 200	20.0	40.0	100

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

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

Lab Name: Eurofins Savannah Job No.: 580-124965-1 Analy Batch No.: 768387

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

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

Calibration Start Date: 03/18/2023 17:04 Calibration End Date: 03/18/2023 19:24 Calibration ID: 90309

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-768387/11	GC18011.D
Level 2	IC 680-768387/10	GC18010.D
Level 3	IC 680-768387/9	GC18009.D
Level 4	ICIS 680-768387/8	GC18008.D
Level 5	IC 680-768387/7	GC18007.D
Level 6	IC 680-768387/6	GC18006.D
Level 7	IC 680-768387/5	GC18005.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	2.3 -1.4	-7.9	1.6	5.6	-0.1	++++	20 20	20	20	20	20	
4-Hydroxy-4-methyl-2-pentanone	2.7 -1.4	-8.4	-0.8	9.1	-1.2	++++	20 20	20	20	20	20	
2-Butoxyethanol	2.4 1.1	-8.1	2.0	4.7	-2.1	++++	20 20	20	20	20	20	
Dipropylene Glycol Methyl Ether	5.2 4.1	-9.6	-0.2	13.2	-12.7	++++	20 20	20	20	20	20	
Ethylene glycol	3.7 4.9	-8.0	-5.9	6.9	-1.6	++++	20 20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	2.8 5.2	-8.0	-2.6	11.8	-9.2	++++	20 20	20	20	20	20	
2,2'-Oxybisethanol	4.2 12.3	-9.9	-2.4	1.8	-6.1	++++	20 20	20	20	20	20	
Triethylene Glycol	18.6 6.0	-7.7	-0.2	-1.0	-15.6	++++	20 20	20	20	20	20	
Tetraethylene Glycol	28.4 * 6.1	-8.7	-7.9	-0.2	-17.7	++++	20 20	20	20	20	20	

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18005.D  
 Lims ID: ic g7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 18-Mar-2023 17:04:34 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-005  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:21 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

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	2.915	2.915	0.000	5691872	100.0	98.6
2 4-Hydroxy-4-methyl-2-pentanone	3.460	3.466	-0.006	5251000	100.0	98.6
3 2-Butoxyethanol	3.762	3.758	0.004	6460473	100.0	101.1
* 4 n-Heptyl Alcohol	4.217	4.207	0.010	5135926	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.129	5.133	-0.004	425339	100.0	104.1
6 Propylene glycol	6.350	6.348	0.002	1236652	100.0	100.7
7 Ethylene glycol	6.552	6.563	-0.011	4750731	100.0	104.9
8 2-(2-Butoxyethoxy)ethanol	8.402	8.403	-0.001	4754705	100.0	105.2
9 2,2'-Oxybisethanol	9.599	9.599	0.000	2763044	100.0	112.3
10 Triethylene Glycol	10.627	10.627	0.000	2711975	100.0	106.0
11 Tetraethylene Glycol	11.762	11.762	0.000	5570856	200.0	212.2

Reagents:

SG\_Gly\_CAL\_00048 Amount Added: 50.00 Units: uL  
 SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18005.D

Injection Date: 18-Mar-2023 17:04:34

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

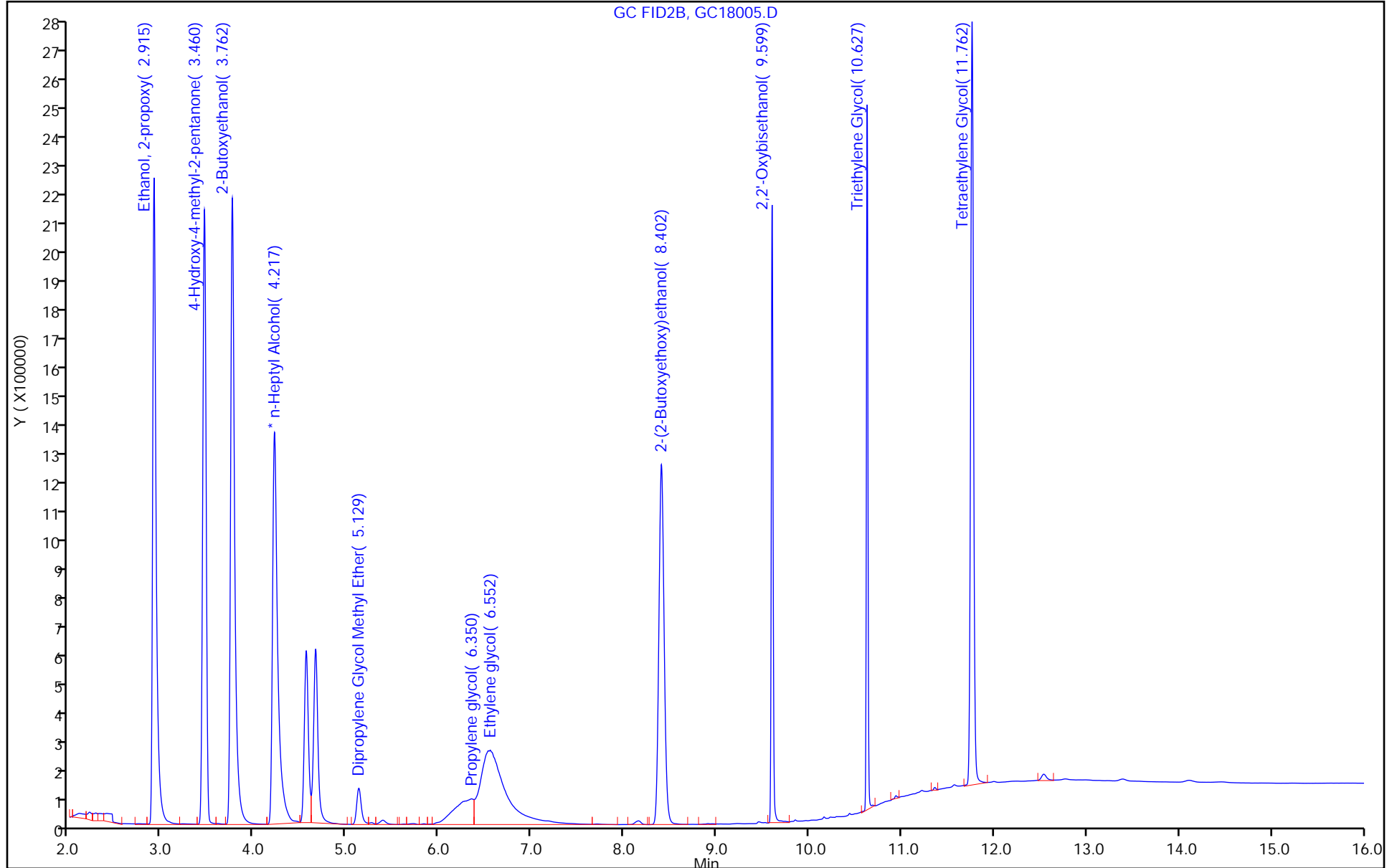
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18006.D  
 Lims ID: ic g6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 18-Mar-2023 17:27:50 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-006  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:21 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

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

1 Ethanol, 2-propoxy	2.914	2.915	-0.001	2856104	80.0	56.9
2 4-Hydroxy-4-methyl-2-pentanone	3.459	3.466	-0.007	2600506	80.0	56.2
3 2-Butoxyethanol	3.760	3.758	0.002	3191941	80.0	57.4
* 4 n-Heptyl Alcohol	4.216	4.207	0.009	4412500	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.129	5.133	-0.004	201352	80.0	56.8
6 Propylene glycol	6.344	6.348	-0.004	575827	80.0	60.6
7 Ethylene glycol	6.552	6.563	-0.011	2430100	80.0	62.0
8 2-(2-Butoxyethoxy)ethanol	8.402	8.403	-0.001	2212254	80.0	56.2
9 2,2'-Oxybisethanol	9.599	9.599	0.000	1269782	80.0	59.4
10 Triethylene Glycol	10.627	10.627	0.000	1180621	80.0	53.7
11 Tetraethylene Glycol	11.759	11.762	-0.003	2383178	160.0	105.7

Reagents:

SG\_Gly\_CAL\_00048 Amount Added: 40.00 Units: uL  
 SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18006.D

Injection Date: 18-Mar-2023 17:27:50

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

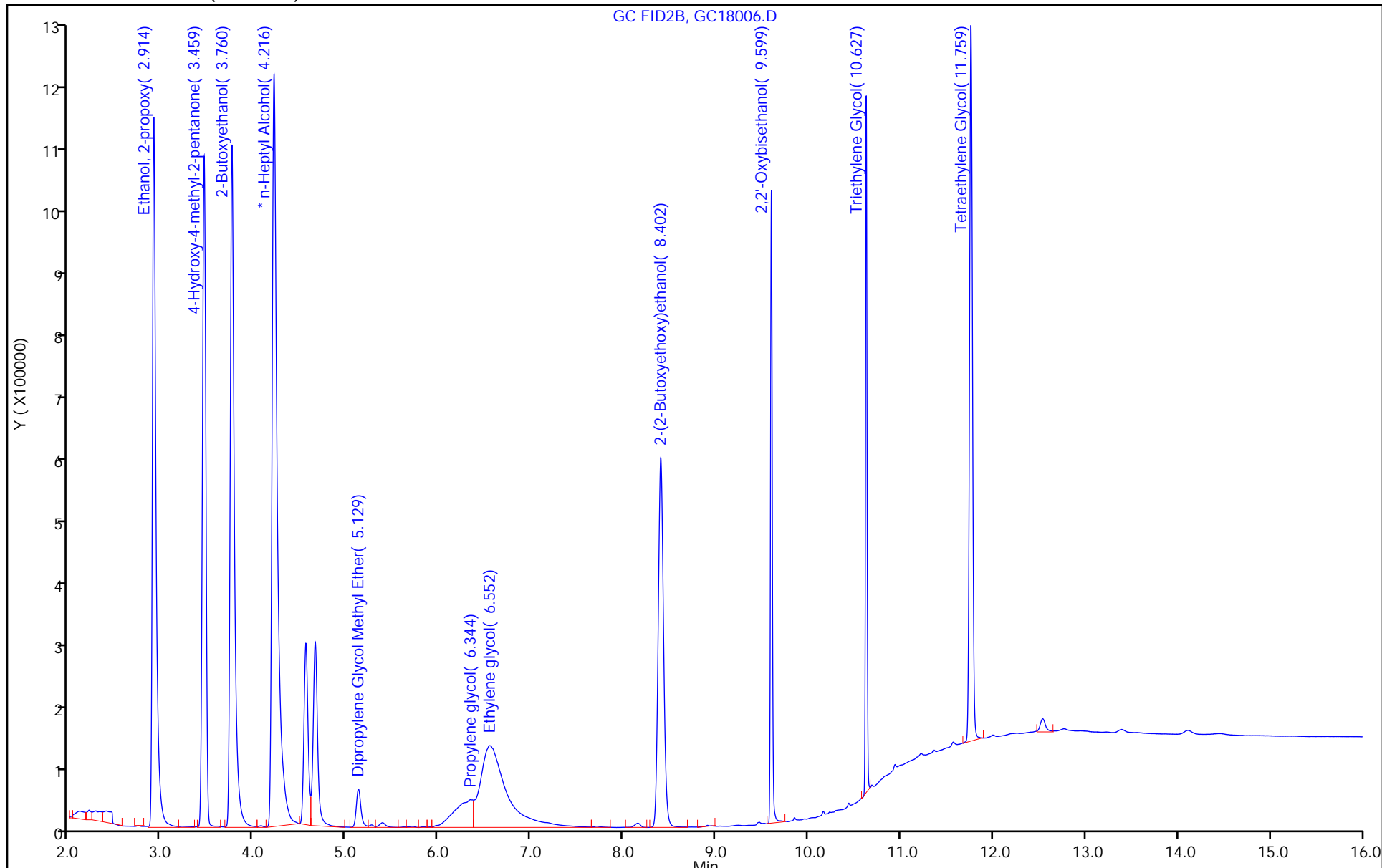
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18007.D  
 Lims ID: ic g5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 18-Mar-2023 17:51:13 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-007  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:22 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

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						
2.916	2.915	0.001	2157619	50.0	49.9	
2 4-Hydroxy-4-methyl-2-pentanone						
3.468	3.466	0.002	1968767	50.0	49.4	
3 2-Butoxyethanol						
3.758	3.758	0.000	2346417	50.0	48.9	
* 4 n-Heptyl Alcohol						
4.207	4.207	0.000	3786538	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.133	5.133	0.000	133778	50.0	43.6	
6 Propylene glycol						
6.353	6.348	0.005	356532	50.0	45.6	
7 Ethylene glycol						
6.559	6.563	-0.004	1662010	50.0	49.2	
8 2-(2-Butoxyethoxy)ethanol						
8.401	8.403	-0.002	1544400	50.0	45.4	
9 2,2'-Oxybisethanol						
9.599	9.599	0.000	867744	50.0	47.0	
10 Triethylene Glycol						
10.627	10.627	0.000	796311	50.0	42.2	
11 Tetraethylene Glycol						
11.761	11.762	-0.001	1591784	100.0	82.3	

Reagents:

SG\_Gly\_CAL\_00048 Amount Added: 25.00 Units: uL  
 SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18007.D

Injection Date: 18-Mar-2023 17:51:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

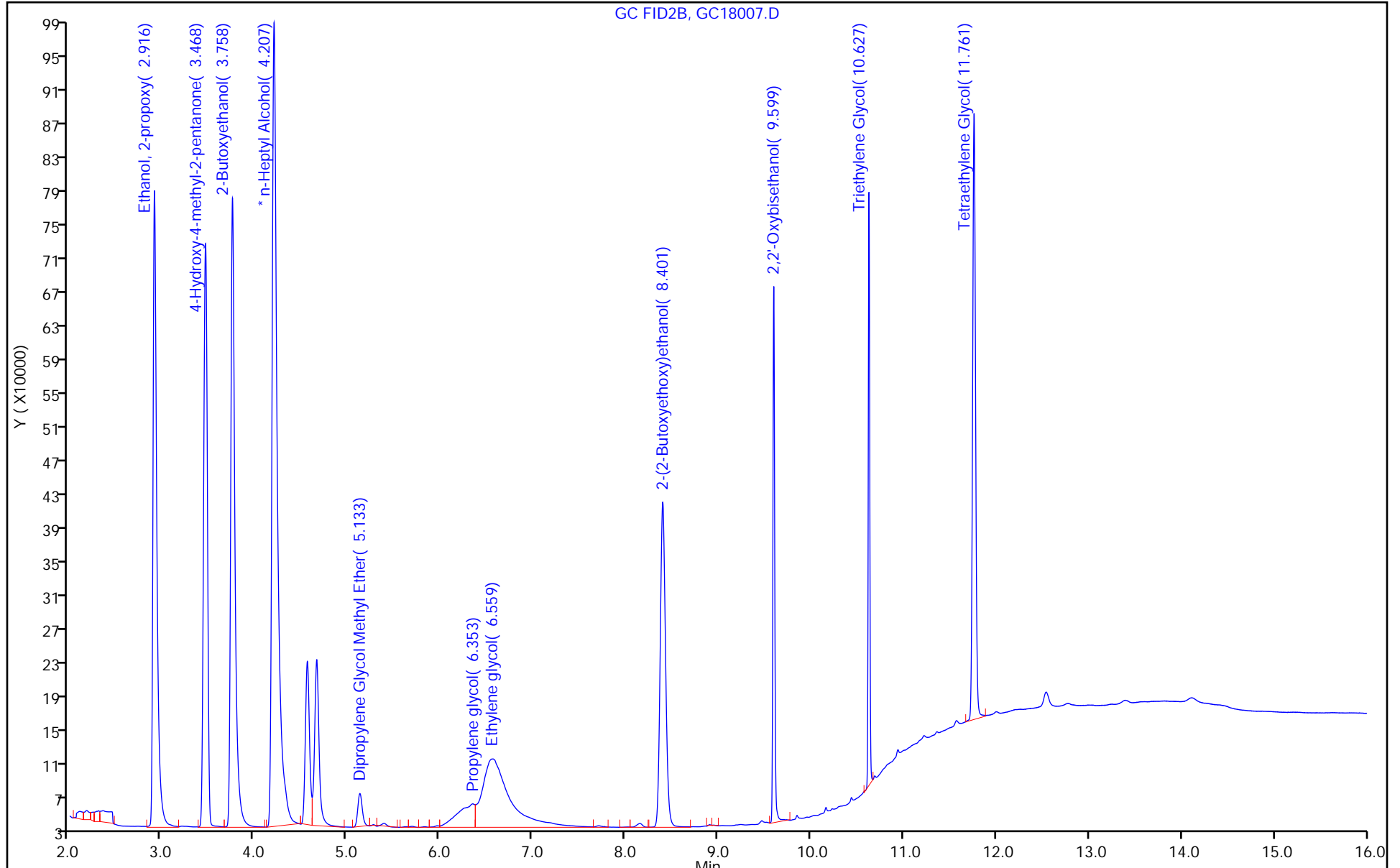
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)





Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18008.D  
 Lims ID: icis g4  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 18-Mar-2023 18:14:28 ALS Bottle#: 0 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-008  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:23 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:24:33

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.915	2.915	0.000	1275273	20.0	21.1	
2 4-Hydroxy-4-methyl-2-pentanone						
3.466	3.466	0.000	1211619	20.0	21.8	
3 2-Butoxyethanol						
3.758	3.758	0.000	1409738	20.0	20.9	
* 4 n-Heptyl Alcohol						
4.207	4.207	0.000	5093613	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.133	5.133	0.000	95904	20.0	22.6	
6 Propylene glycol						
6.348	6.348	0.000	244697	20.0	24.8	M
7 Ethylene glycol						
6.563	6.563	0.000	1000032	20.0	21.4	
8 2-(2-Butoxyethoxy)ethanol						
8.403	8.403	0.000	1060164	20.0	22.4	
9 2,2'-Oxybisethanol						
9.599	9.599	0.000	526527	20.0	20.4	
10 Triethylene Glycol						
10.627	10.627	0.000	502431	20.0	19.8	
11 Tetraethylene Glycol						
11.762	11.762	0.000	1039032	40.0	39.9	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18008.D

Injection Date: 18-Mar-2023 18:14:28

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

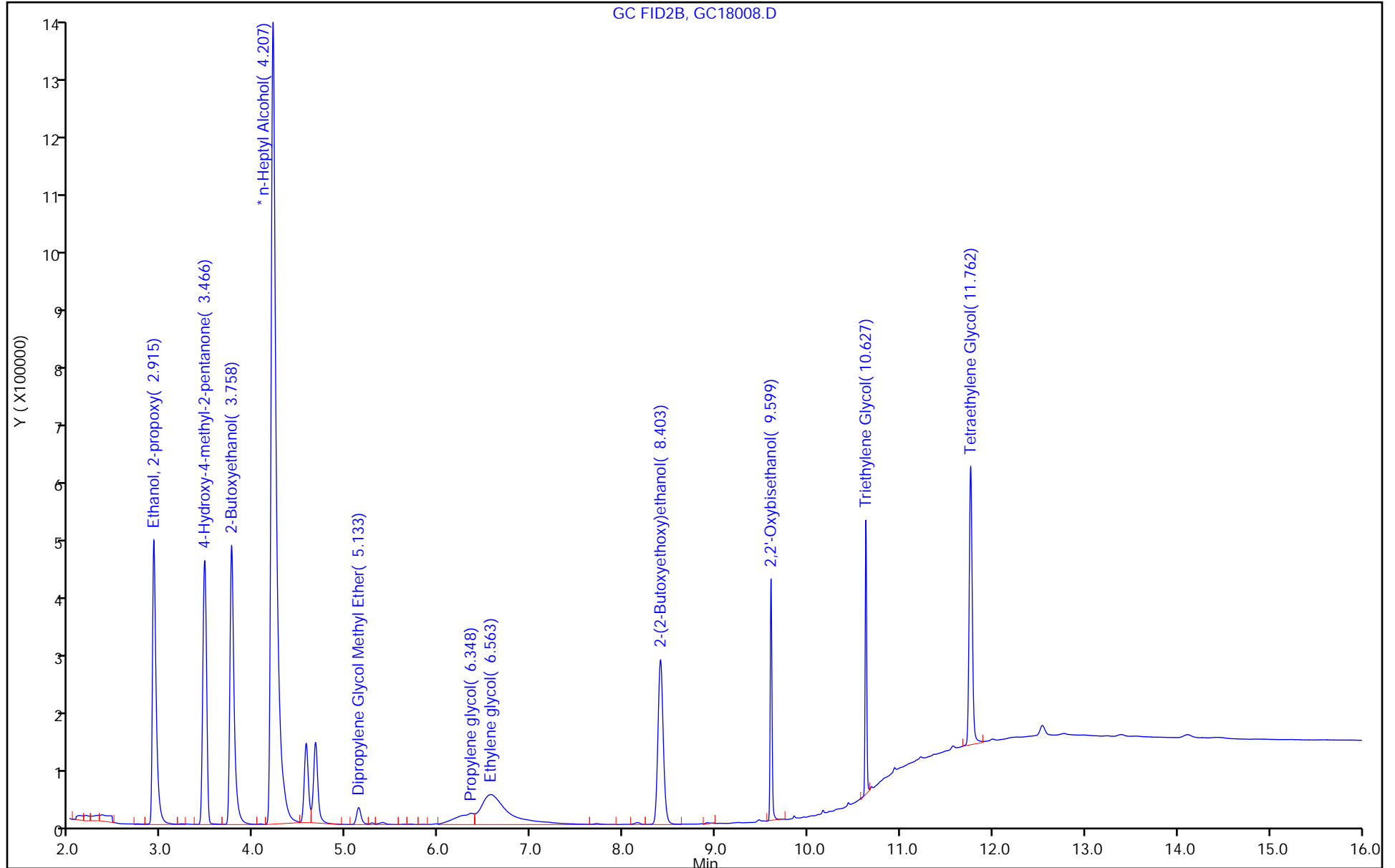
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

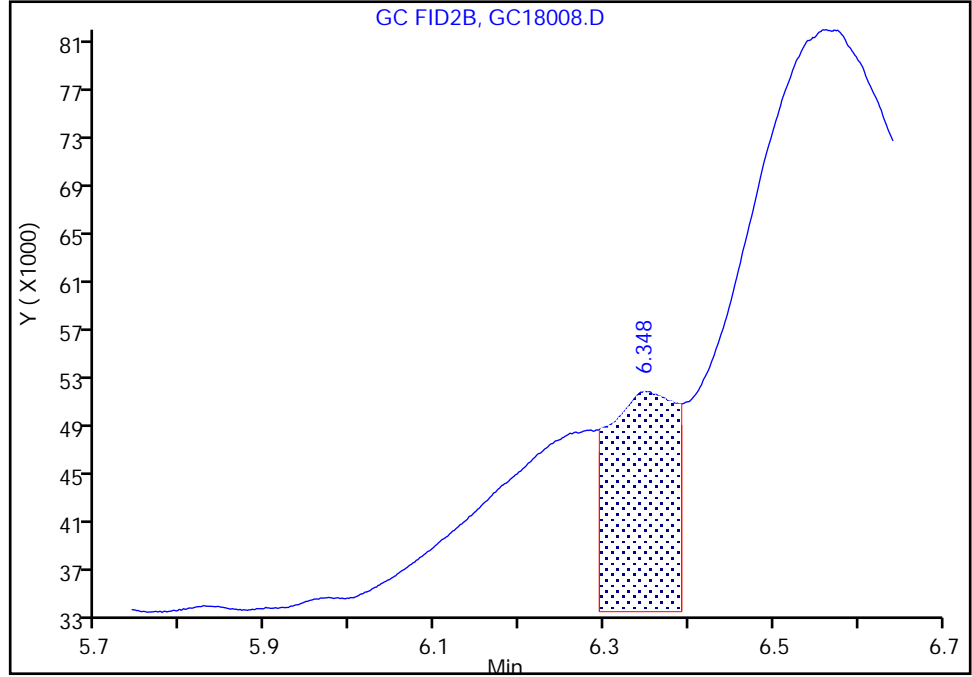
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18008.D  
Injection Date: 18-Mar-2023 18:14:28 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

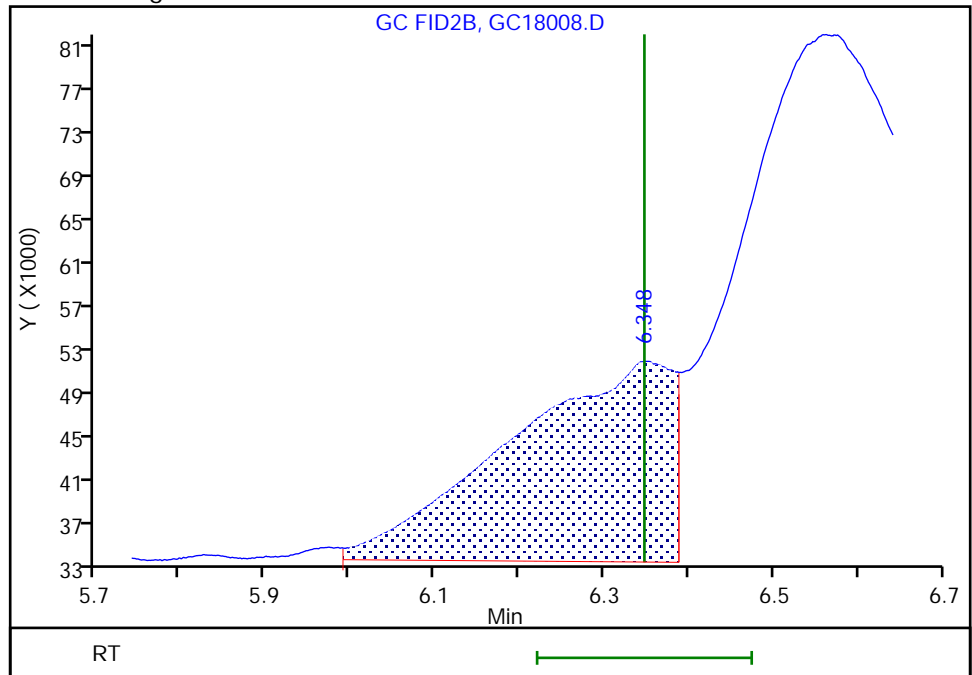
RT: 6.35  
Area: 99268  
Amount: 12.494177  
Amount Units: ug/ml

Processing Integration Results



RT: 6.35  
Area: 244697  
Amount: 24.761076  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:24:29  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
Page 68 of 146

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D  
 Lims ID: ic g3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 18-Mar-2023 18:37:46 ALS Bottle#: 0 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-009  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:23 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:24:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.911	2.915	-0.004	623221	10.0	10.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.461	3.466	-0.005	561636	10.0	9.92	
3 2-Butoxyethanol						
3.756	3.758	-0.002	701048	10.0	10.2	
* 4 n-Heptyl Alcohol						
4.206	4.207	-0.001	4830177	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.130	5.133	-0.003	42940	10.0	9.98	
6 Propylene glycol						
6.345	6.348	-0.003	122580	10.0	13.5	M
7 Ethylene glycol						
6.566	6.563	0.003	443908	10.0	9.41	M
8 2-(2-Butoxyethoxy)ethanol						
8.401	8.403	-0.002	477636	10.0	9.74	
9 2,2'-Oxybisethanol						
9.600	9.599	0.001	257168	10.0	9.76	
10 Triethylene Glycol						
10.628	10.627	0.001	240062	10.0	9.98	
11 Tetraethylene Glycol						
11.765	11.762	0.003	454932	20.0	18.4	

**QC Flag Legend**  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 5.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D

Injection Date: 18-Mar-2023 18:37:46

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

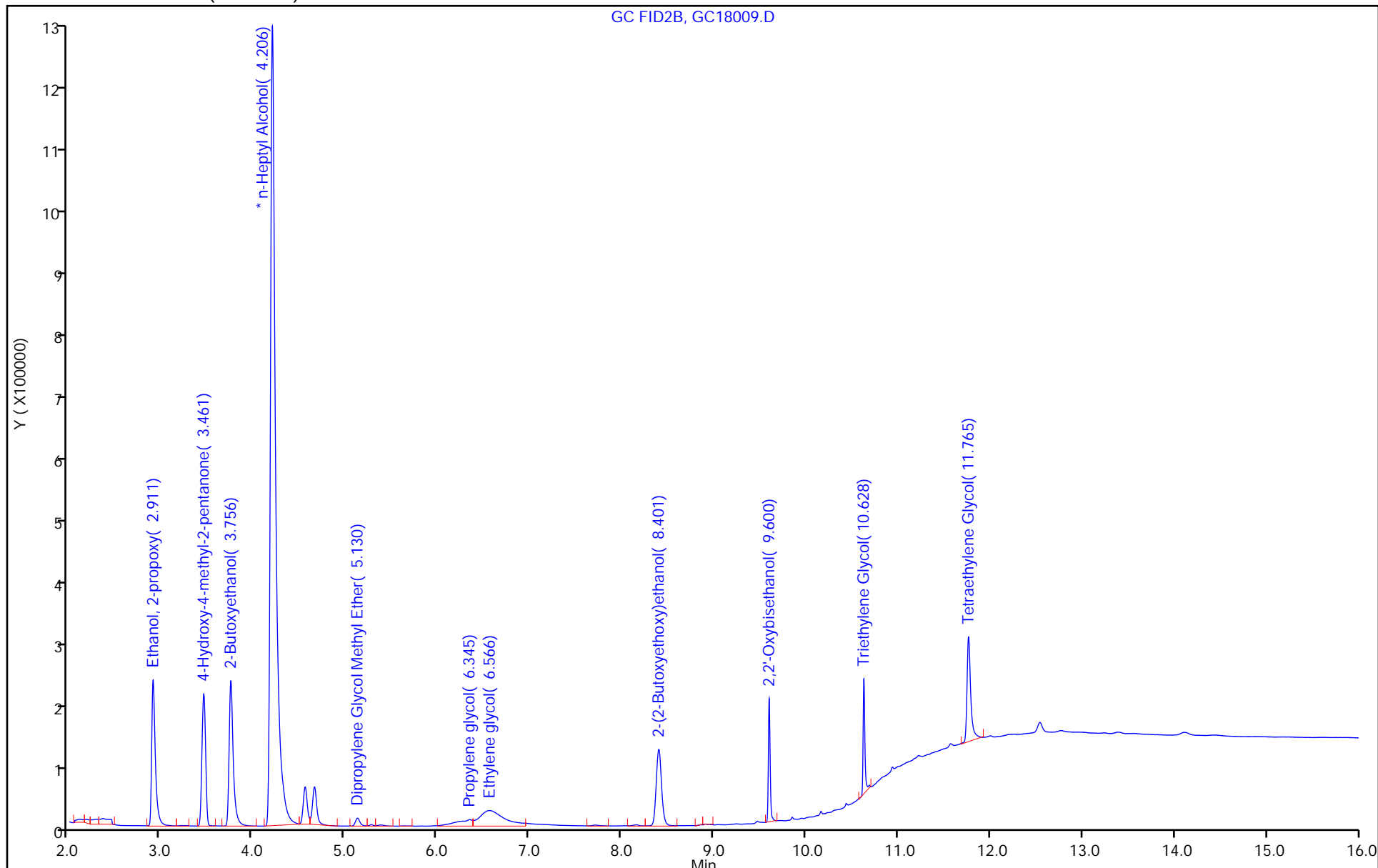
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

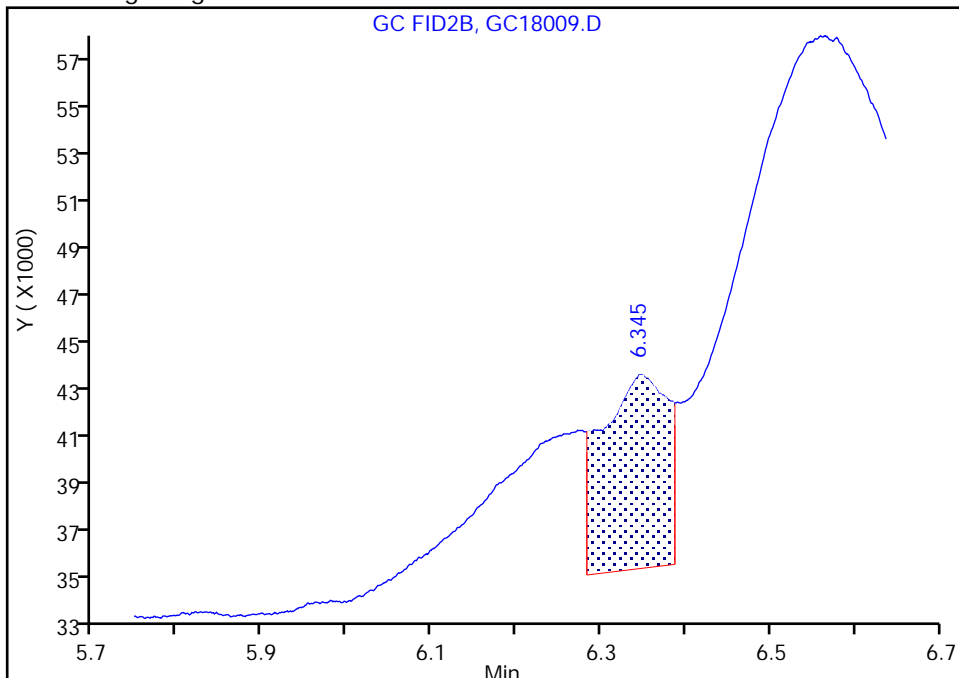
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Injection Date: 18-Mar-2023 18:37:46 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

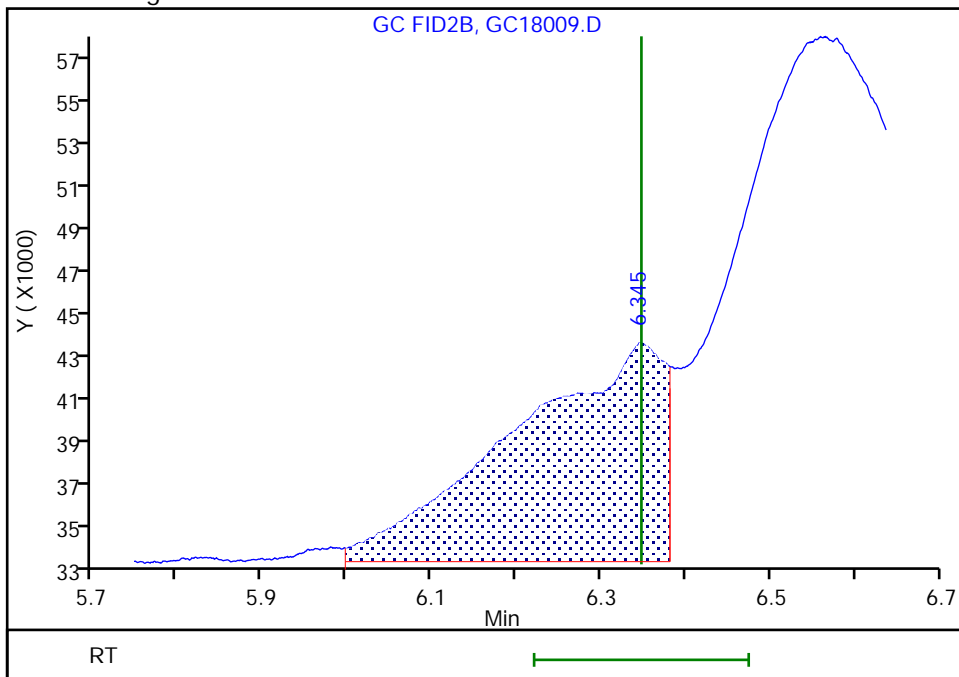
RT: 6.34  
Area: 42700  
Amount: 5.012160  
Amount Units: ug/ml

Processing Integration Results



RT: 6.34  
Area: 122580  
Amount: 13.545302  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:24:46  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing



Eurofins Savannah

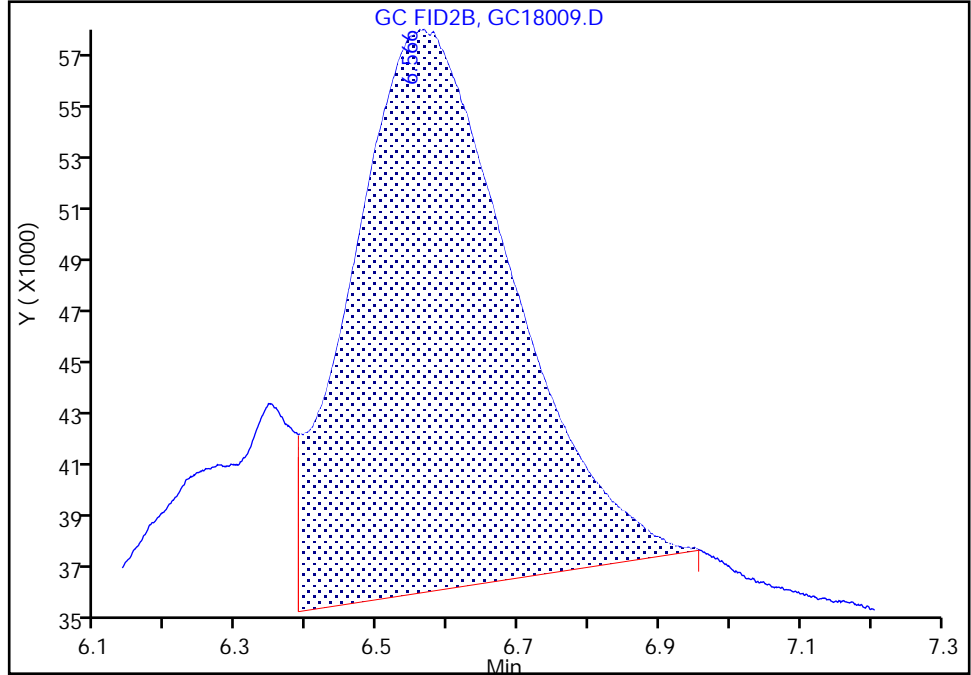
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18009.D  
Injection Date: 18-Mar-2023 18:37:46 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

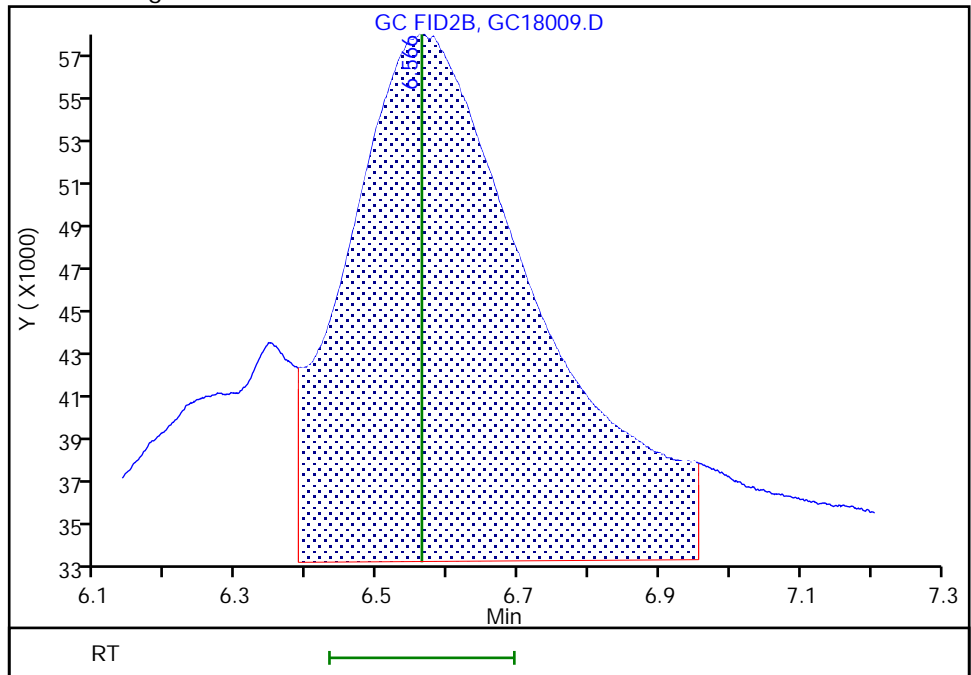
RT: 6.57  
Area: 333884  
Amount: 7.945997  
Amount Units: ug/ml

Processing Integration Results



RT: 6.57  
Area: 443908  
Amount: 9.409106  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:24:46  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D  
 Lims ID: ic g2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 18-Mar-2023 19:01:08 ALS Bottle#: 0 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-010  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:24 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:25:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.915	2.915	0.000	393646	5.00	4.60	
2 4-Hydroxy-4-methyl-2-pentanone						
3.465	3.466	-0.001	359475	5.00	4.58	
3 2-Butoxyethanol						
3.757	3.758	-0.001	445899	5.00	4.59	
* 4 n-Heptyl Alcohol						
4.207	4.207	0.000	5829521	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.135	5.133	0.002	26829	5.00	4.52	
6 Propylene glycol						M
6.350	6.348	0.002	88495	5.00	8.24	M
7 Ethylene glycol						M
6.560	6.563	-0.003	291250	5.00	4.60	M
8 2-(2-Butoxyethoxy)ethanol						
8.401	8.403	-0.002	316916	5.00	4.60	
9 2,2'-Oxybisethanol						
9.600	9.599	0.001	165658	5.00	4.51	
10 Triethylene Glycol						
10.629	10.627	0.002	134028	5.00	4.61	
11 Tetraethylene Glycol						
11.768	11.762	0.006	272086	10.0	9.13	

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 2.50

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D

Injection Date: 18-Mar-2023 19:01:08

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

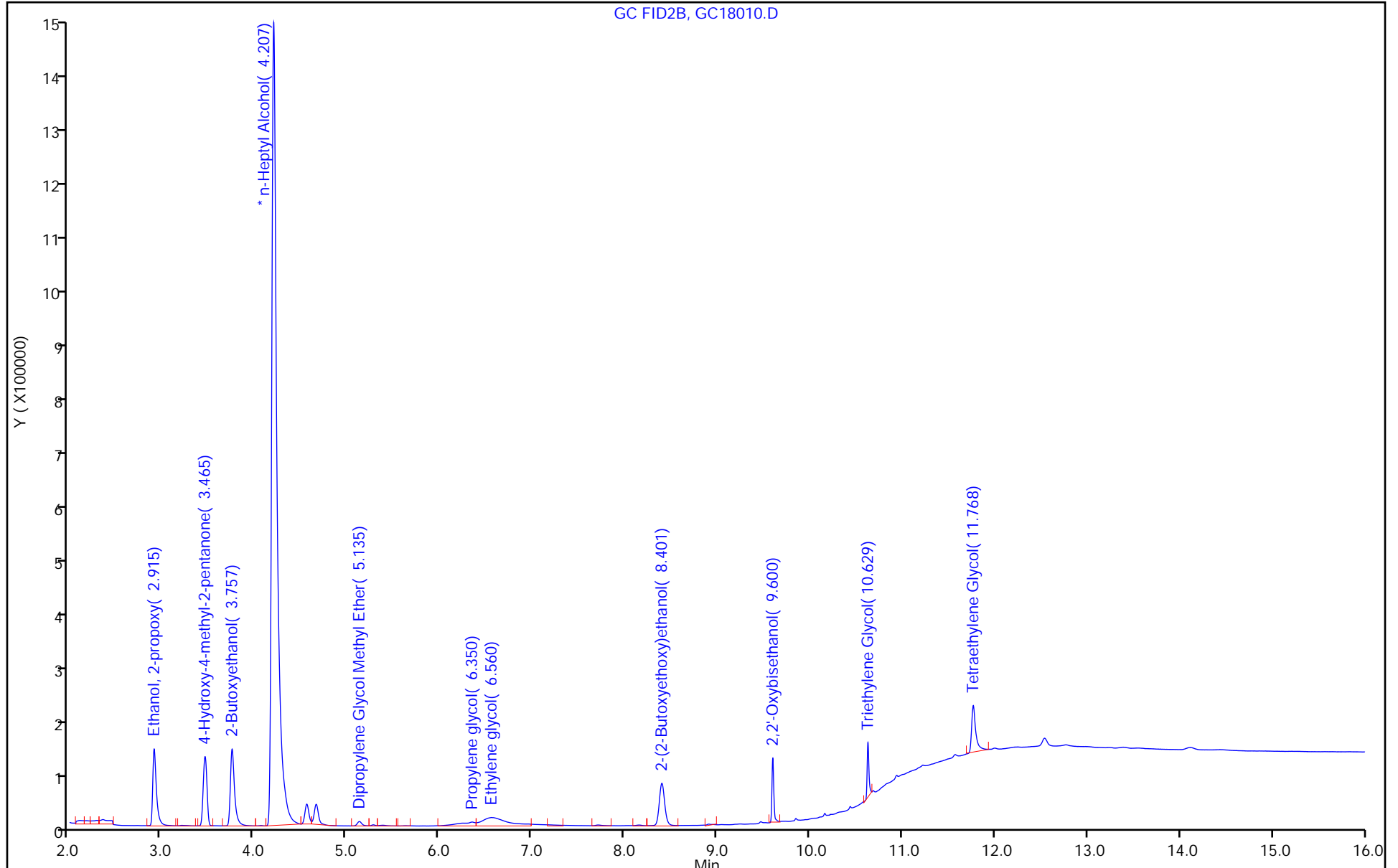
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

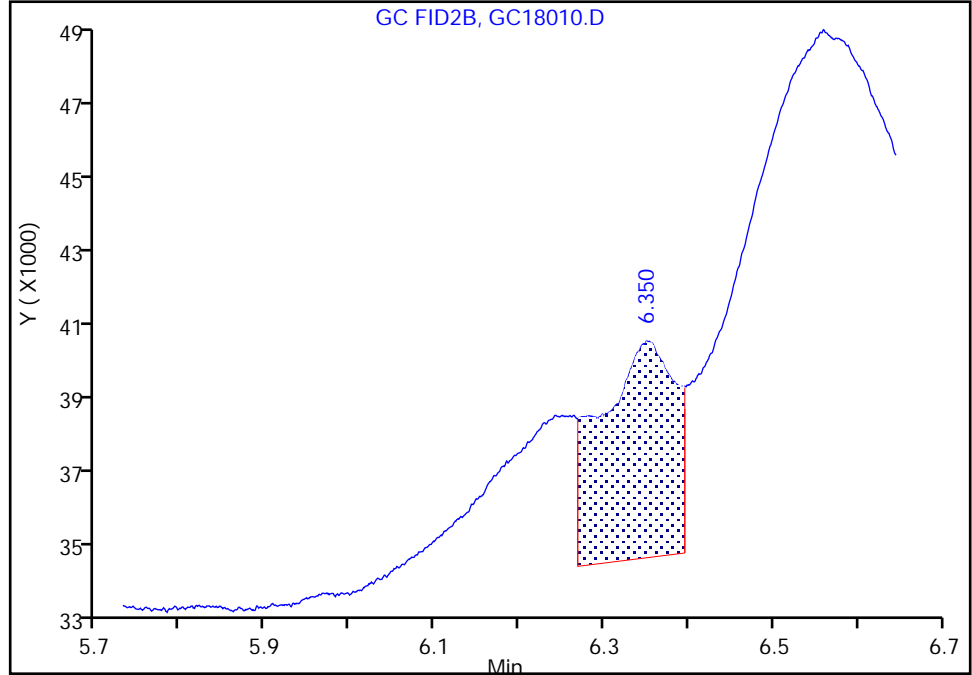
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D  
Injection Date: 18-Mar-2023 19:01:08 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

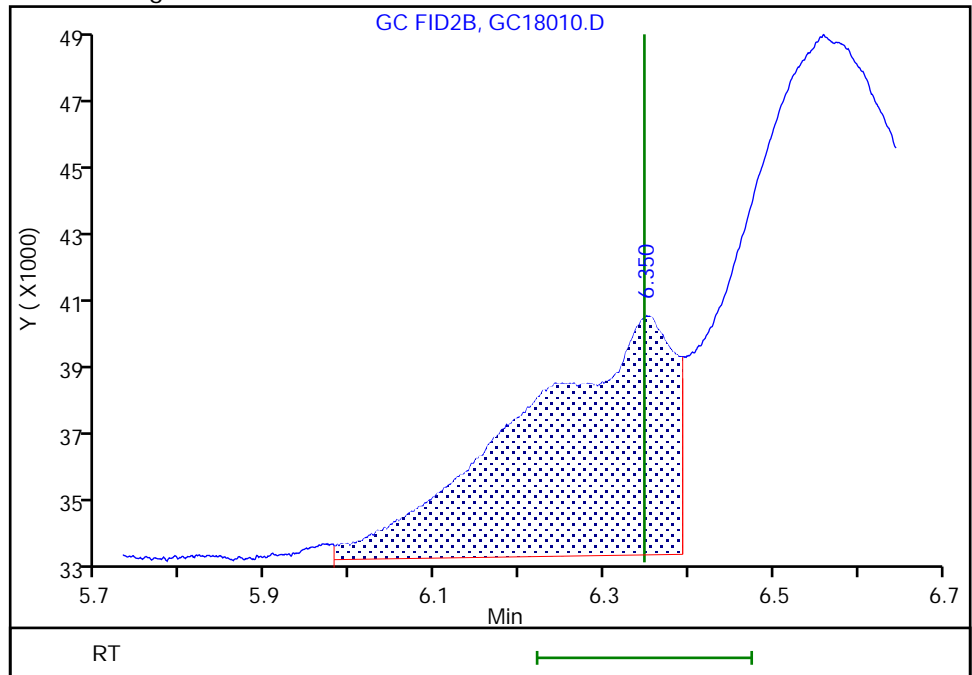
RT: 6.35  
Area: 35536  
Amount: 3.047913  
Amount Units: ug/ml

Processing Integration Results



RT: 6.35  
Area: 88495  
Amount: 8.240981  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:02  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
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Eurofins Savannah

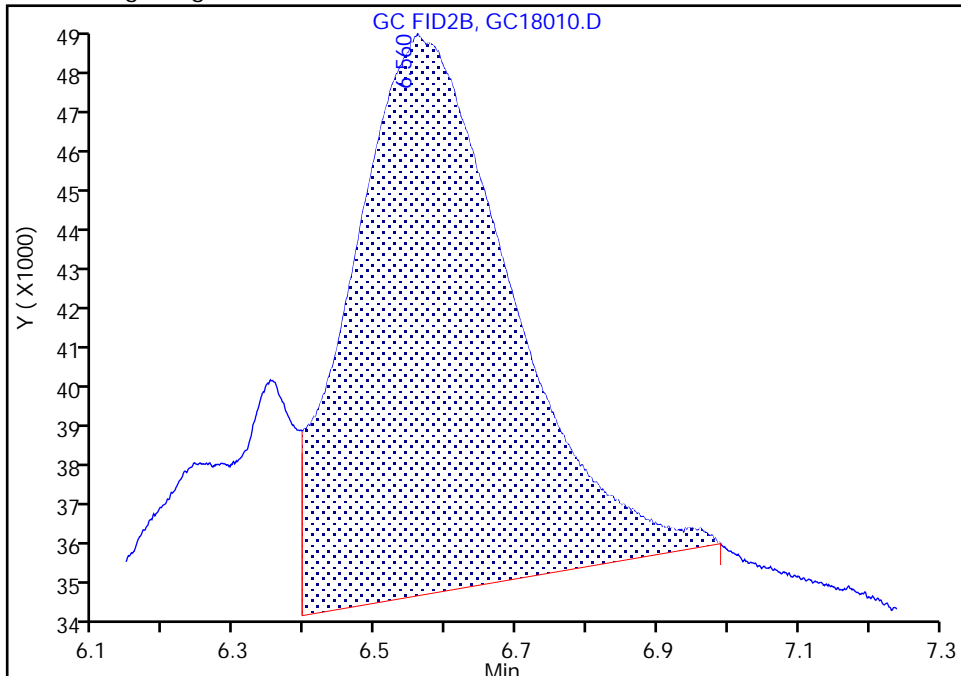
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18010.D  
Injection Date: 18-Mar-2023 19:01:08 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

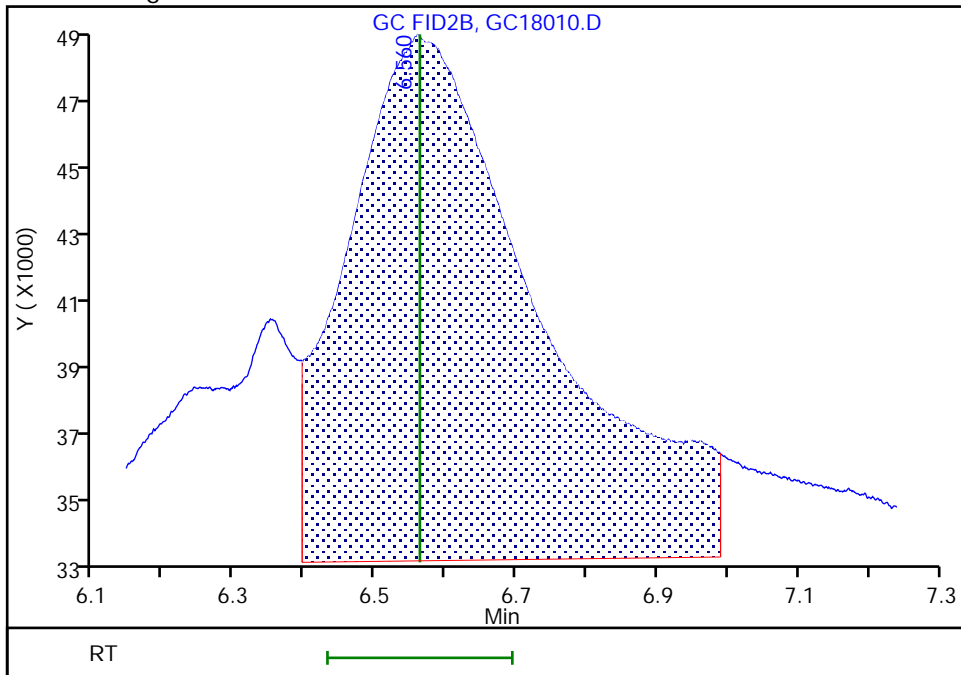
RT: 6.56  
Area: 212410  
Amount: 3.717153  
Amount Units: ug/ml

Processing Integration Results



RT: 6.56  
Area: 291250  
Amount: 4.599795  
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Lims ID: ic g1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 18-Mar-2023 19:24:22 ALS Bottle#: 0 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-011  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 17:28:24 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

First Level Reviewer: SK9U Date: 19-Mar-2023 16:01:08

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

1 Ethanol, 2-propoxy	2.911	2.915	-0.004	222886	2.00	2.05	
2 4-Hydroxy-4-methyl-2-pentanone	3.463	3.466	-0.003	203822	2.00	2.05	
3 2-Butoxyethanol	3.755	3.758	-0.003	257721	2.00	2.05	
* 4 n-Heptyl Alcohol	4.205	4.207	-0.002	5687389	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	5.132	5.133	-0.001	15393	2.00	2.10	
6 Propylene glycol	6.349	6.348	0.001	52980	2.00	5.11	M
7 Ethylene glycol	6.562	6.563	-0.001	158828	2.00	2.07	M
8 2-(2-Butoxyethoxy)ethanol	8.401	8.403	-0.002	183850	2.00	2.06	
9 2,2'-Oxybisethanol	9.601	9.599	0.002	96509	2.00	2.08	
10 Triethylene Glycol	10.629	10.627	0.002	67193	2.00	2.37	
11 Tetraethylene Glycol	11.770	11.762	0.008	149265	4.00	5.14	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 1.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D

Injection Date: 18-Mar-2023 19:24:22

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

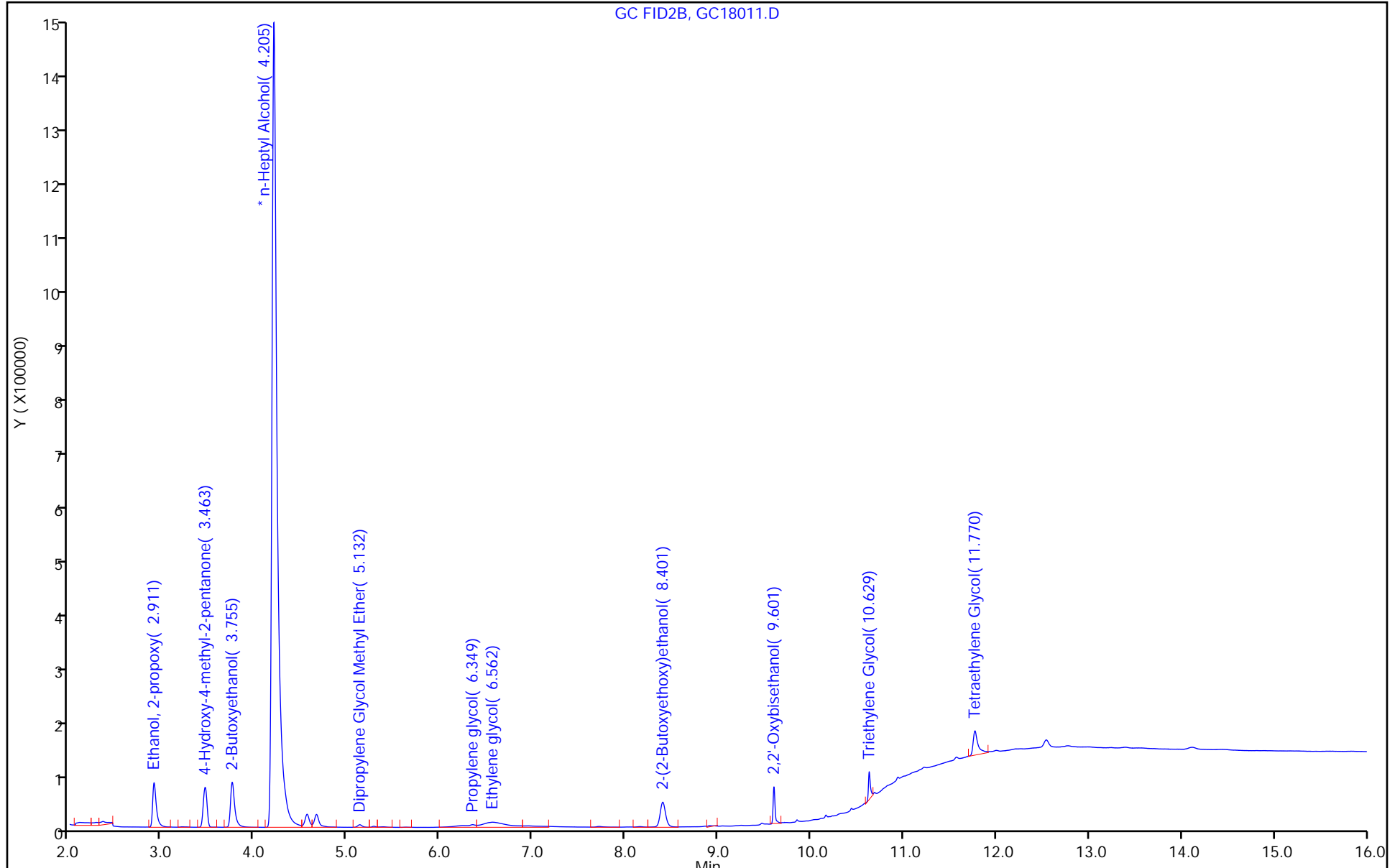
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

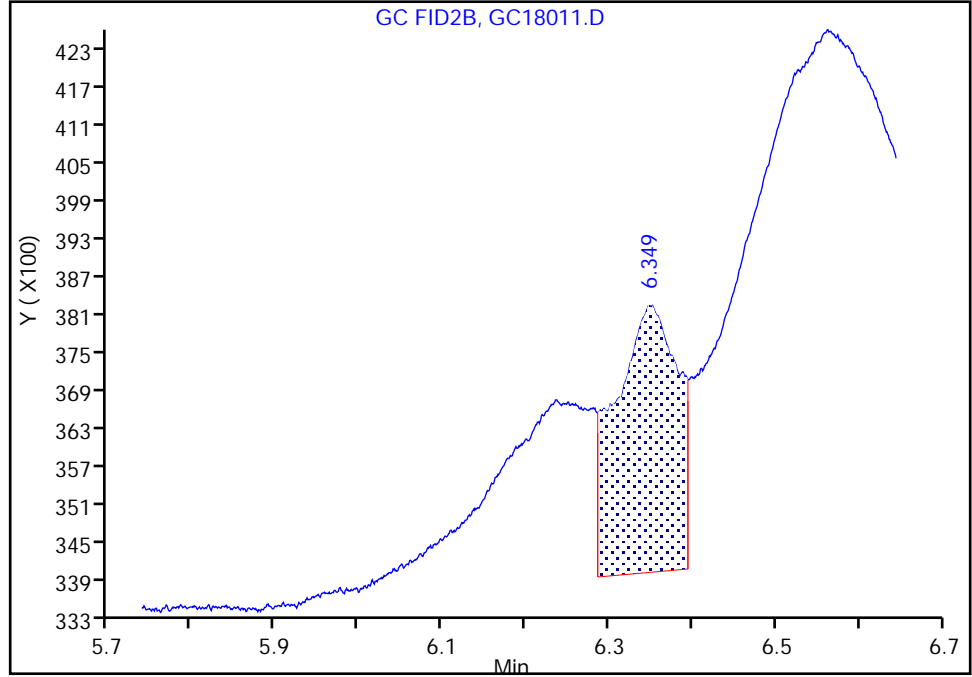
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
Injection Date: 18-Mar-2023 19:24:22 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

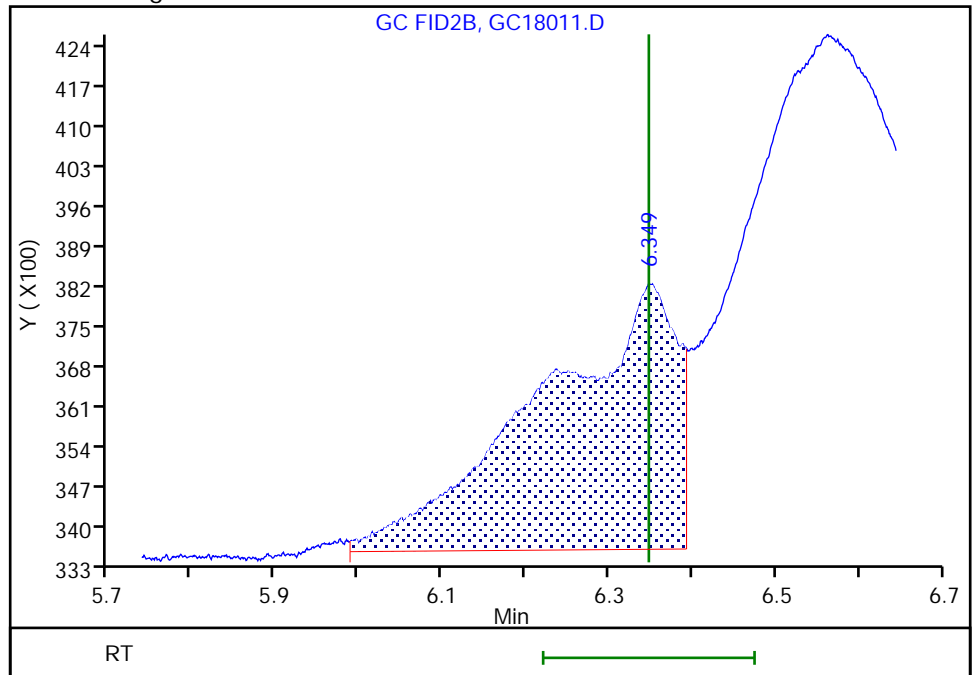
RT: 6.35  
Area: 21827  
Amount: 1.698456  
Amount Units: ug/ml

Processing Integration Results



RT: 6.35  
Area: 52980  
Amount: 5.108558  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:19  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
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Eurofins Savannah

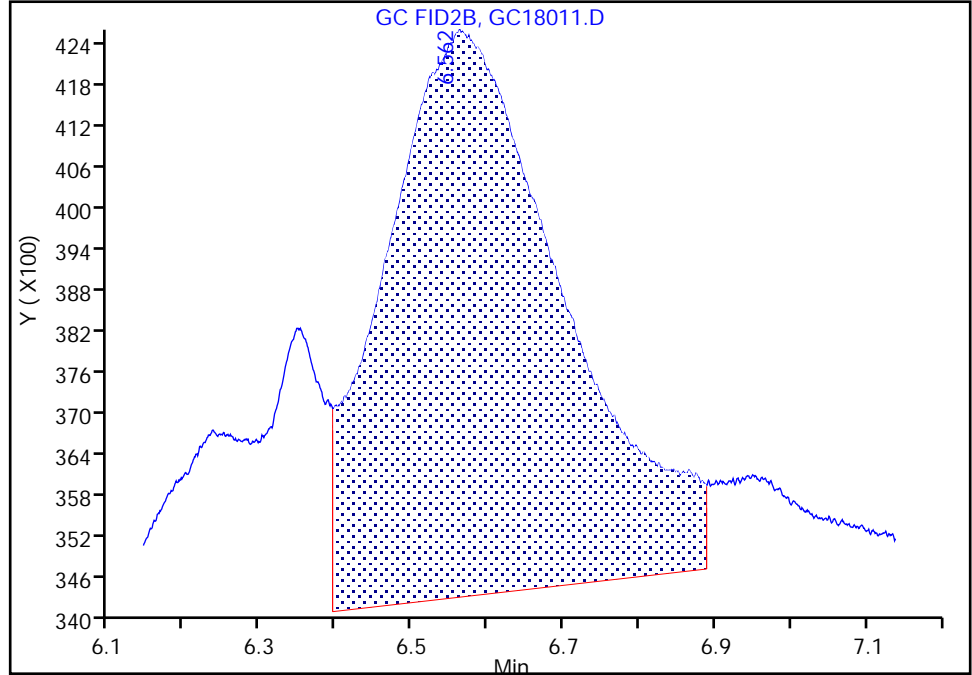
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
Injection Date: 18-Mar-2023 19:24:22 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

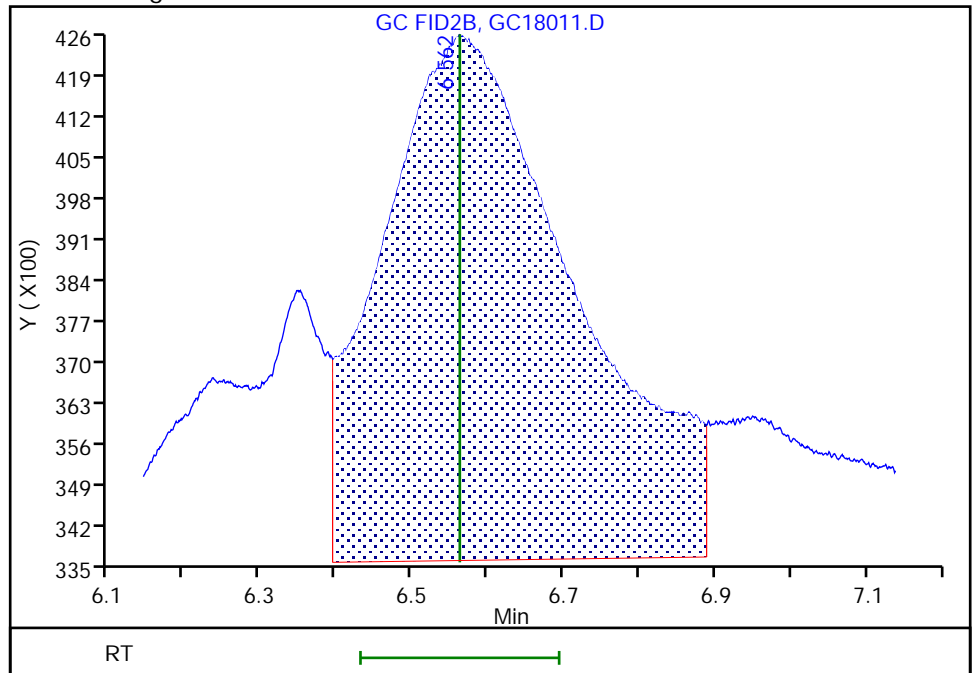
RT: 6.56  
Area: 136517  
Amount: 1.835416  
Amount Units: ug/ml

Processing Integration Results



RT: 6.56  
Area: 158828  
Amount: 2.073138  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:13  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Calibration

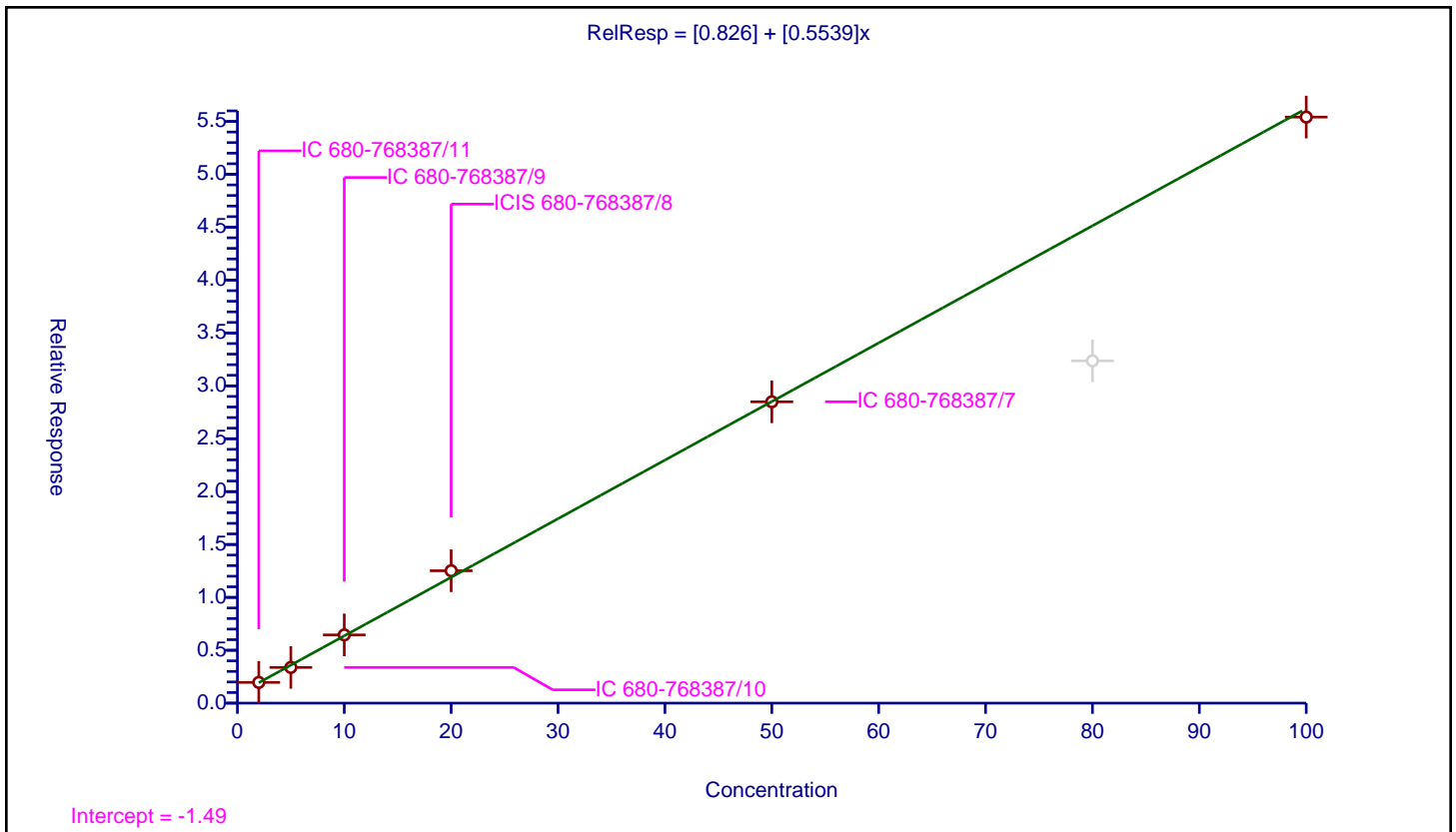
/ Ethanol, 2-propoxy

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

Curve Coefficients	
Intercept:	0.826
Slope:	0.5539

Error Coefficients	
Standard Error:	3130000
Relative Standard Error:	5.1
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	1.959476	50.0	5687389.0	0.979738	Y
2	IC 680-768387/10	5.0	3.376315	50.0	5829521.0	0.675263	Y
3	IC 680-768387/9	10.0	6.451327	50.0	4830177.0	0.645133	Y
4	ICIS 680-768387/8	20.0	12.518354	50.0	5093613.0	0.625918	Y
5	IC 680-768387/7	50.0	28.490656	50.0	3786538.0	0.569813	Y
6	IC 680-768387/6	80.0	32.363785	50.0	4412500.0	0.404547	N
7	IC 680-768387/5	100.0	55.412325	50.0	5135926.0	0.554123	Y



Calibration

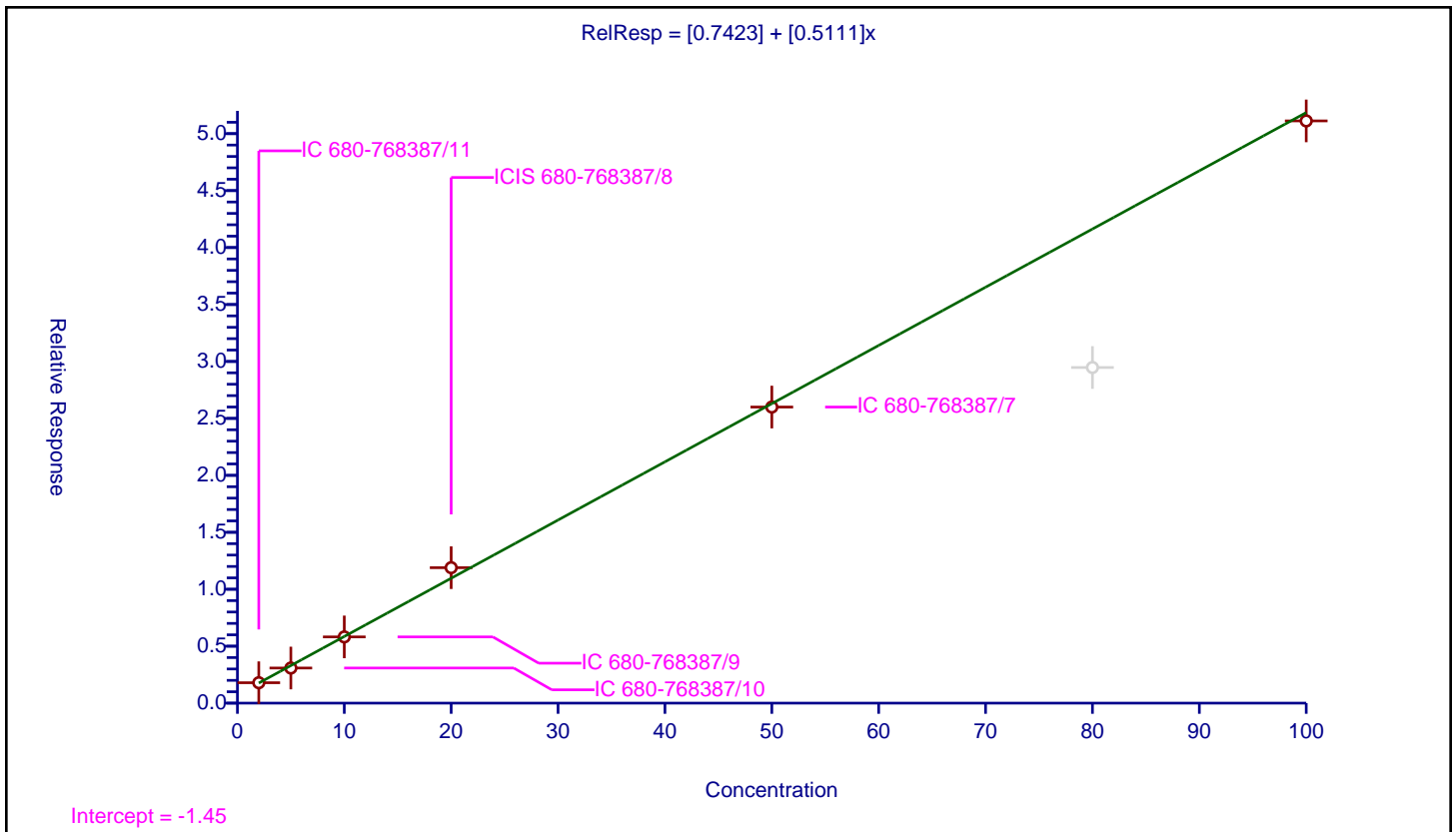
/ 4-Hydroxy-4-methyl-2-pentanone

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

Curve Coefficients	
Intercept:	0.7423
Slope:	0.5111

Error Coefficients	
Standard Error:	2890000
Relative Standard Error:	6.4
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	1.791877	50.0	5687389.0	0.895938	Y
2	IC 680-768387/10	5.0	3.083229	50.0	5829521.0	0.616646	Y
3	IC 680-768387/9	10.0	5.813824	50.0	4830177.0	0.581382	Y
4	ICIS 680-768387/8	20.0	11.893513	50.0	5093613.0	0.594676	Y
5	IC 680-768387/7	50.0	25.996926	50.0	3786538.0	0.519939	Y
6	IC 680-768387/6	80.0	29.46749	50.0	4412500.0	0.368344	N
7	IC 680-768387/5	100.0	51.120285	50.0	5135926.0	0.511203	Y



Calibration

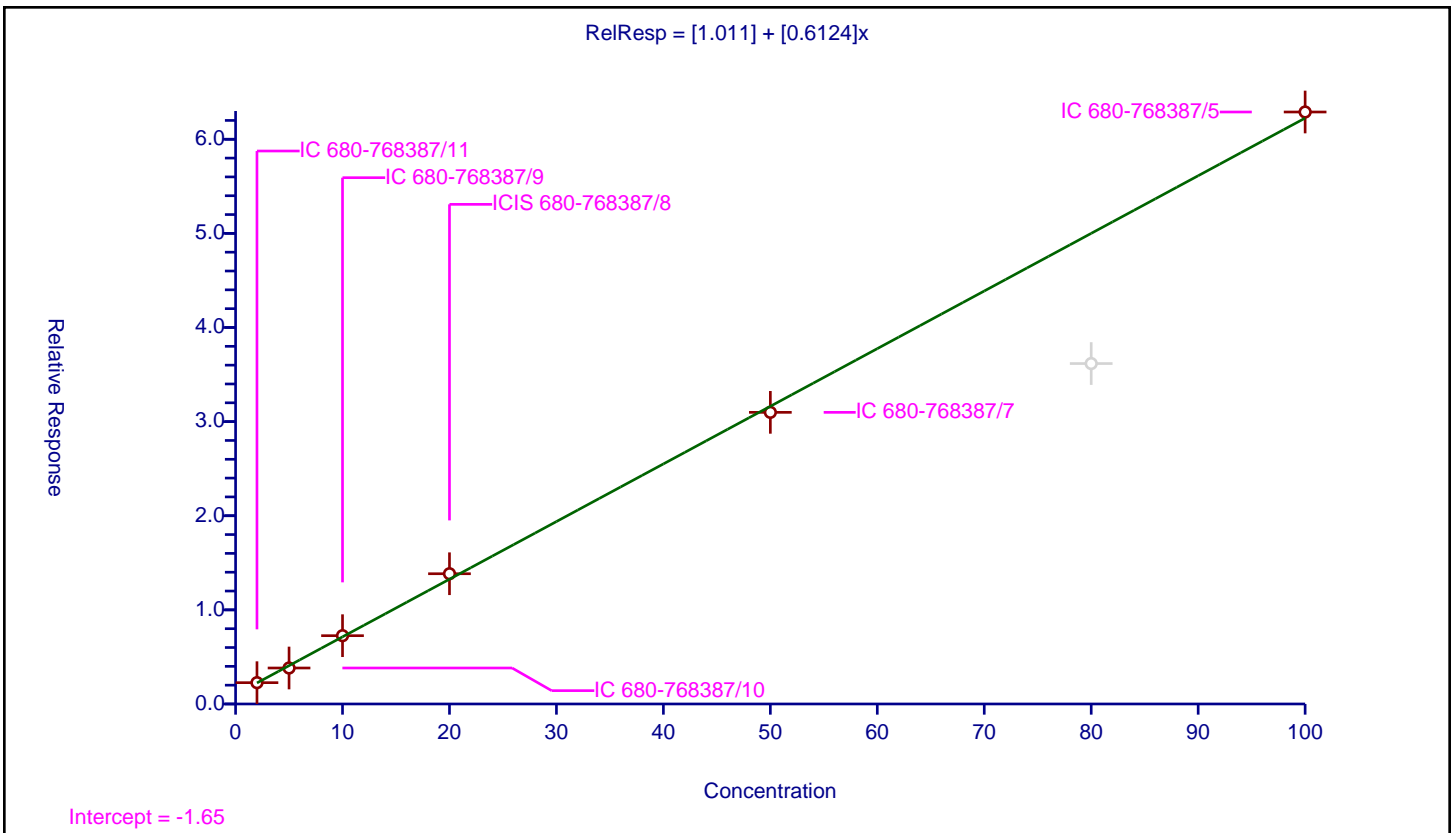
/ 2-Butoxyethanol

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

Curve Coefficients	
Intercept:	1.011
Slope:	0.6124

Error Coefficients	
Standard Error:	3540000
Relative Standard Error:	5.1
Correlation Coefficient:	0.975
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	2.265723	50.0	5687389.0	1.132862	Y
2	IC 680-768387/10	5.0	3.824491	50.0	5829521.0	0.764898	Y
3	IC 680-768387/9	10.0	7.25696	50.0	4830177.0	0.725696	Y
4	ICIS 680-768387/8	20.0	13.838291	50.0	5093613.0	0.691915	Y
5	IC 680-768387/7	50.0	30.983672	50.0	3786538.0	0.619673	Y
6	IC 680-768387/6	80.0	36.169303	50.0	4412500.0	0.452116	N
7	IC 680-768387/5	100.0	62.894919	50.0	5135926.0	0.628949	Y



Calibration

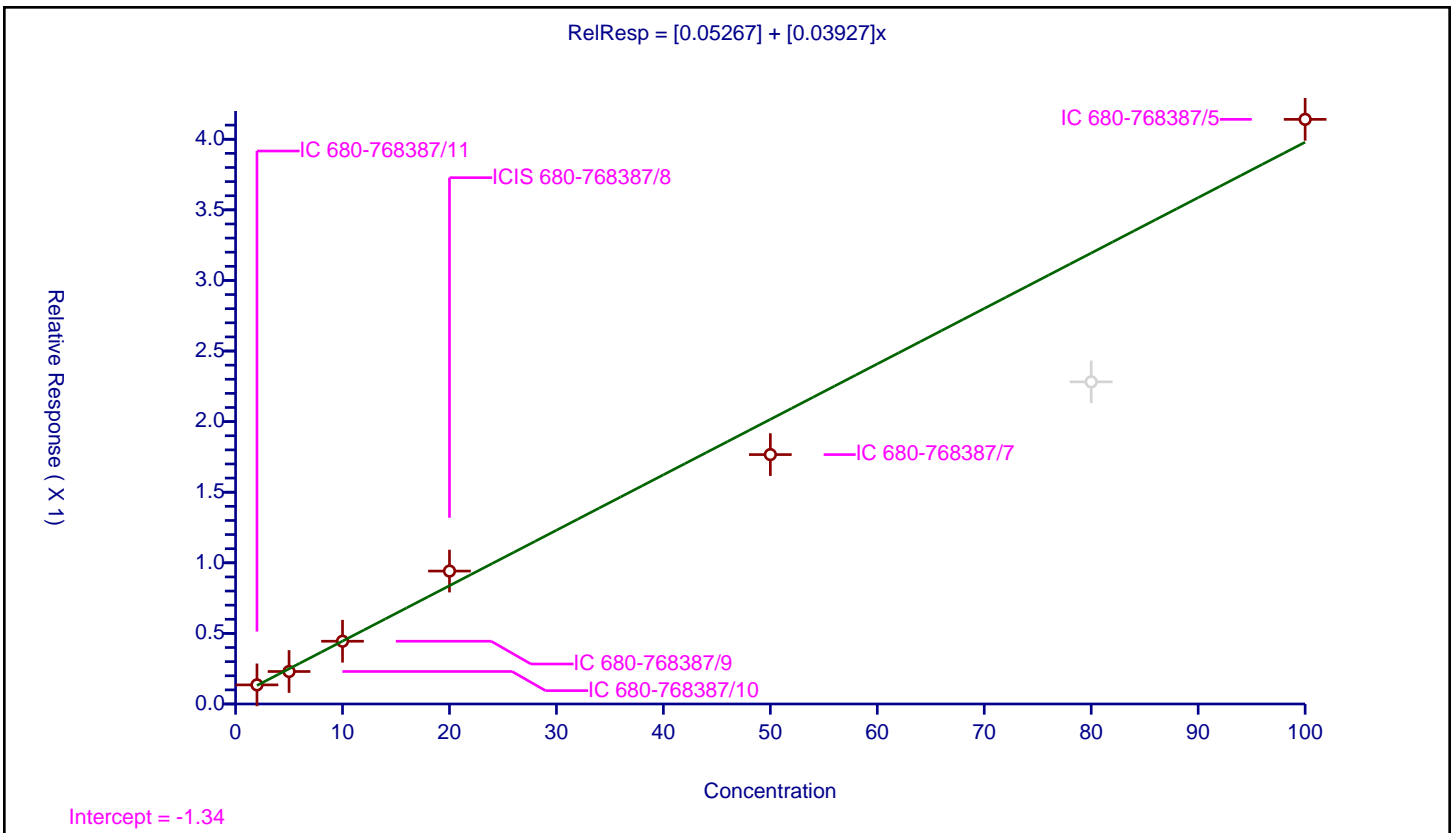
/ Dipropylene Glycol Methyl Ether

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

Curve Coefficients	
Intercept:	0.05267
Slope:	0.03927

Error Coefficients	
Standard Error:	230000
Relative Standard Error:	10.9
Correlation Coefficient:	0.955
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	0.135326	50.0	5687389.0	0.067663	Y
2	IC 680-768387/10	5.0	0.230113	50.0	5829521.0	0.046023	Y
3	IC 680-768387/9	10.0	0.444497	50.0	4830177.0	0.04445	Y
4	ICIS 680-768387/8	20.0	0.941414	50.0	5093613.0	0.047071	Y
5	IC 680-768387/7	50.0	1.766495	50.0	3786538.0	0.03533	Y
6	IC 680-768387/6	80.0	2.281609	50.0	4412500.0	0.02852	N
7	IC 680-768387/5	100.0	4.140821	50.0	5135926.0	0.041408	Y



**Calibration**

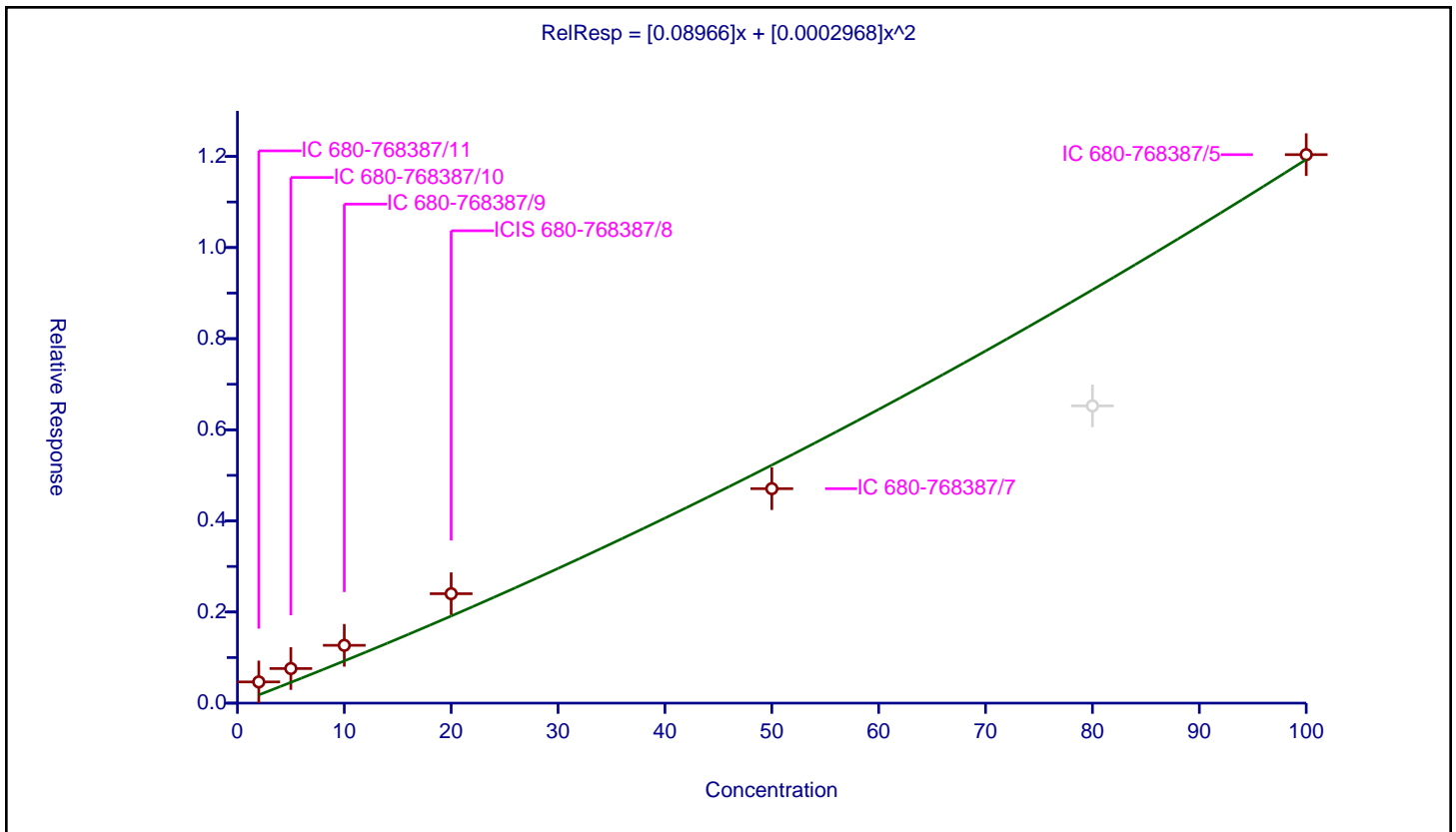
**/ Propylene glycol**

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

Curve Coefficients	
Intercept:	0
Slope:	0.08966
Second Order:	0.0002968

Error Coefficients	
Standard Error:	660000
Relative Standard Error:	87.0
Correlation Coefficient:	0.965
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	0.465767	50.0	5687389.0	0.232884	Y
2	IC 680-768387/10	5.0	0.759025	50.0	5829521.0	0.151805	Y
3	IC 680-768387/9	10.0	1.268898	50.0	4830177.0	0.12689	Y
4	ICIS 680-768387/8	20.0	2.401998	50.0	5093613.0	0.1201	Y
5	IC 680-768387/7	50.0	4.707889	50.0	3786538.0	0.094158	Y
6	IC 680-768387/6	80.0	6.524952	50.0	4412500.0	0.081562	N
7	IC 680-768387/5	100.0	12.039231	50.0	5135926.0	0.120392	Y





Calibration

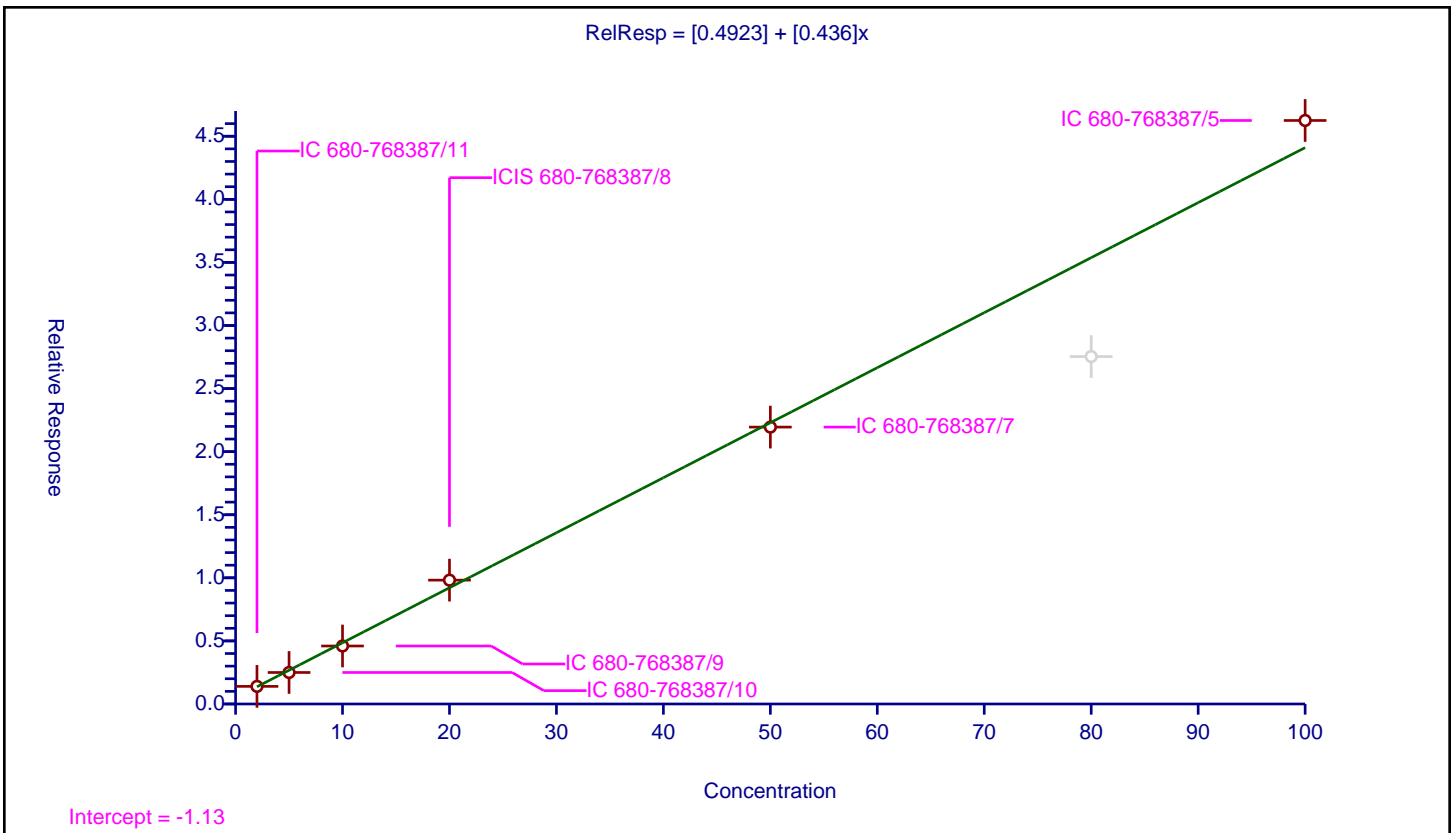
/ Ethylene glycol

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

Curve Coefficients	
Intercept:	0.4923
Slope:	0.436

Error Coefficients	
Standard Error:	2580000
Relative Standard Error:	6.8
Correlation Coefficient:	0.972
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	1.396317	50.0	5687389.0	0.698159	Y
2	IC 680-768387/10	5.0	2.498061	50.0	5829521.0	0.499612	Y
3	IC 680-768387/9	10.0	4.595153	50.0	4830177.0	0.459515	Y
4	ICIS 680-768387/8	20.0	9.816529	50.0	5093613.0	0.490826	Y
5	IC 680-768387/7	50.0	21.9463	50.0	3786538.0	0.438926	Y
6	IC 680-768387/6	80.0	27.536544	50.0	4412500.0	0.344207	N
7	IC 680-768387/5	100.0	46.249995	50.0	5135926.0	0.4625	Y



Calibration

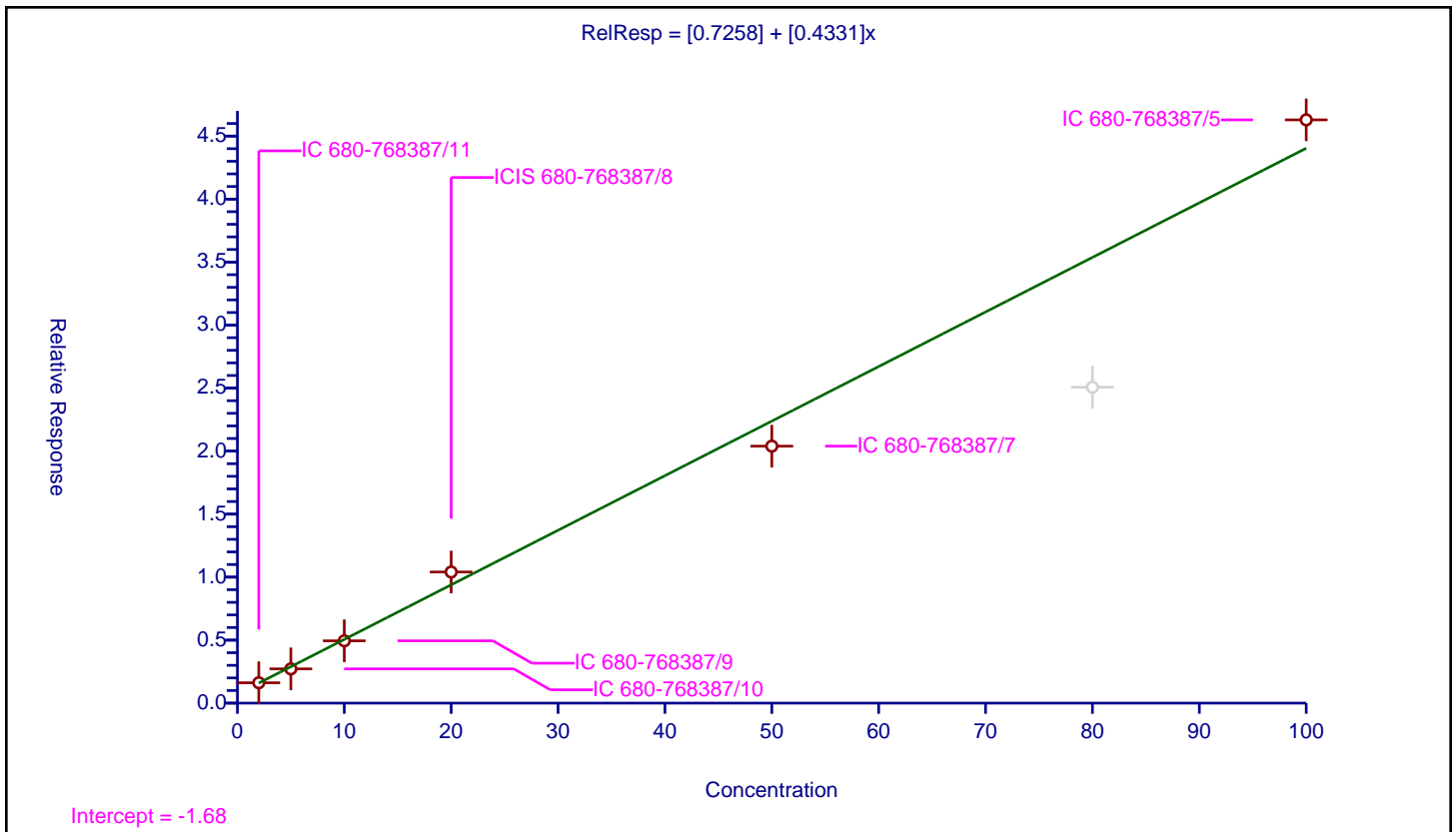
/ 2-(2-Butoxyethoxy)ethanol

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

Curve Coefficients	
Intercept:	0.7258
Slope:	0.4331

Error Coefficients	
Standard Error:	2570000
Relative Standard Error:	9.1
Correlation Coefficient:	0.959
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	1.616295	50.0	5687389.0	0.808148	Y
2	IC 680-768387/10	5.0	2.718199	50.0	5829521.0	0.54364	Y
3	IC 680-768387/9	10.0	4.944291	50.0	4830177.0	0.494429	Y
4	ICIS 680-768387/8	20.0	10.406798	50.0	5093613.0	0.52034	Y
5	IC 680-768387/7	50.0	20.393299	50.0	3786538.0	0.407866	Y
6	IC 680-768387/6	80.0	25.068034	50.0	4412500.0	0.31335	N
7	IC 680-768387/5	100.0	46.288683	50.0	5135926.0	0.462887	Y



Calibration

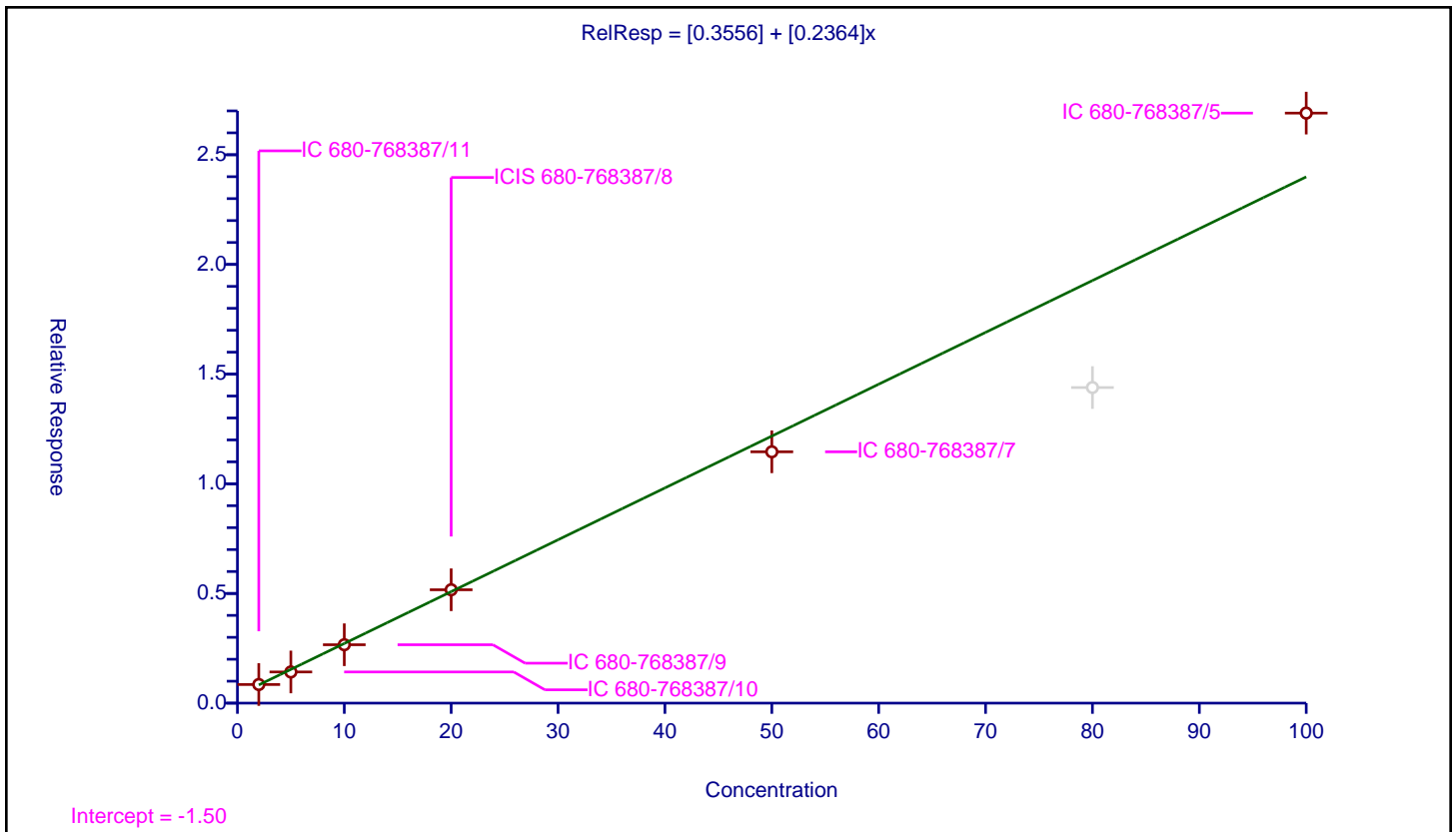
/ 2,2'-Oxybisethanol

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

Curve Coefficients	
Intercept:	0.3556
Slope:	0.2364

Error Coefficients	
Standard Error:	1480000
Relative Standard Error:	8.8
Correlation Coefficient:	0.959
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	0.848447	50.0	5687389.0	0.424224	Y
2	IC 680-768387/10	5.0	1.420854	50.0	5829521.0	0.284171	Y
3	IC 680-768387/9	10.0	2.662097	50.0	4830177.0	0.26621	Y
4	ICIS 680-768387/8	20.0	5.168502	50.0	5093613.0	0.258425	Y
5	IC 680-768387/7	50.0	11.458277	50.0	3786538.0	0.229166	Y
6	IC 680-768387/6	80.0	14.388465	50.0	4412500.0	0.179856	N
7	IC 680-768387/5	100.0	26.89918	50.0	5135926.0	0.268992	Y



Calibration

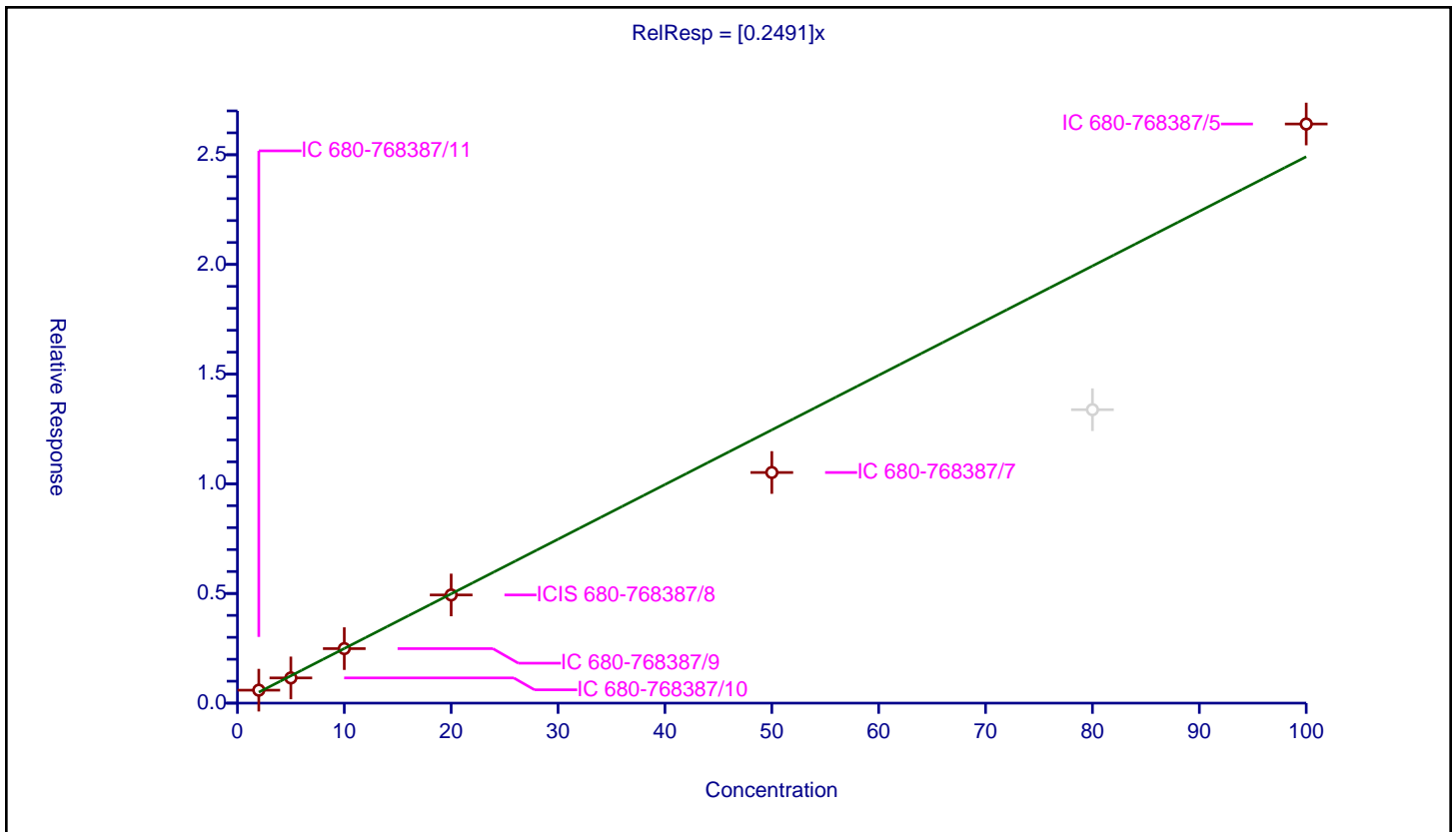
/ Triethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2491

Error Coefficients	
Standard Error:	1290000
Relative Standard Error:	11.7
Correlation Coefficient:	0.952
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	2.0	0.590719	50.0	5687389.0	0.29536	Y
2	IC 680-768387/10	5.0	1.149563	50.0	5829521.0	0.229913	Y
3	IC 680-768387/9	10.0	2.485023	50.0	4830177.0	0.248502	Y
4	ICIS 680-768387/8	20.0	4.931971	50.0	5093613.0	0.246599	Y
5	IC 680-768387/7	50.0	10.515027	50.0	3786538.0	0.210301	Y
6	IC 680-768387/6	80.0	13.378142	50.0	4412500.0	0.167227	N
7	IC 680-768387/5	100.0	26.402006	50.0	5135926.0	0.26402	Y



Calibration

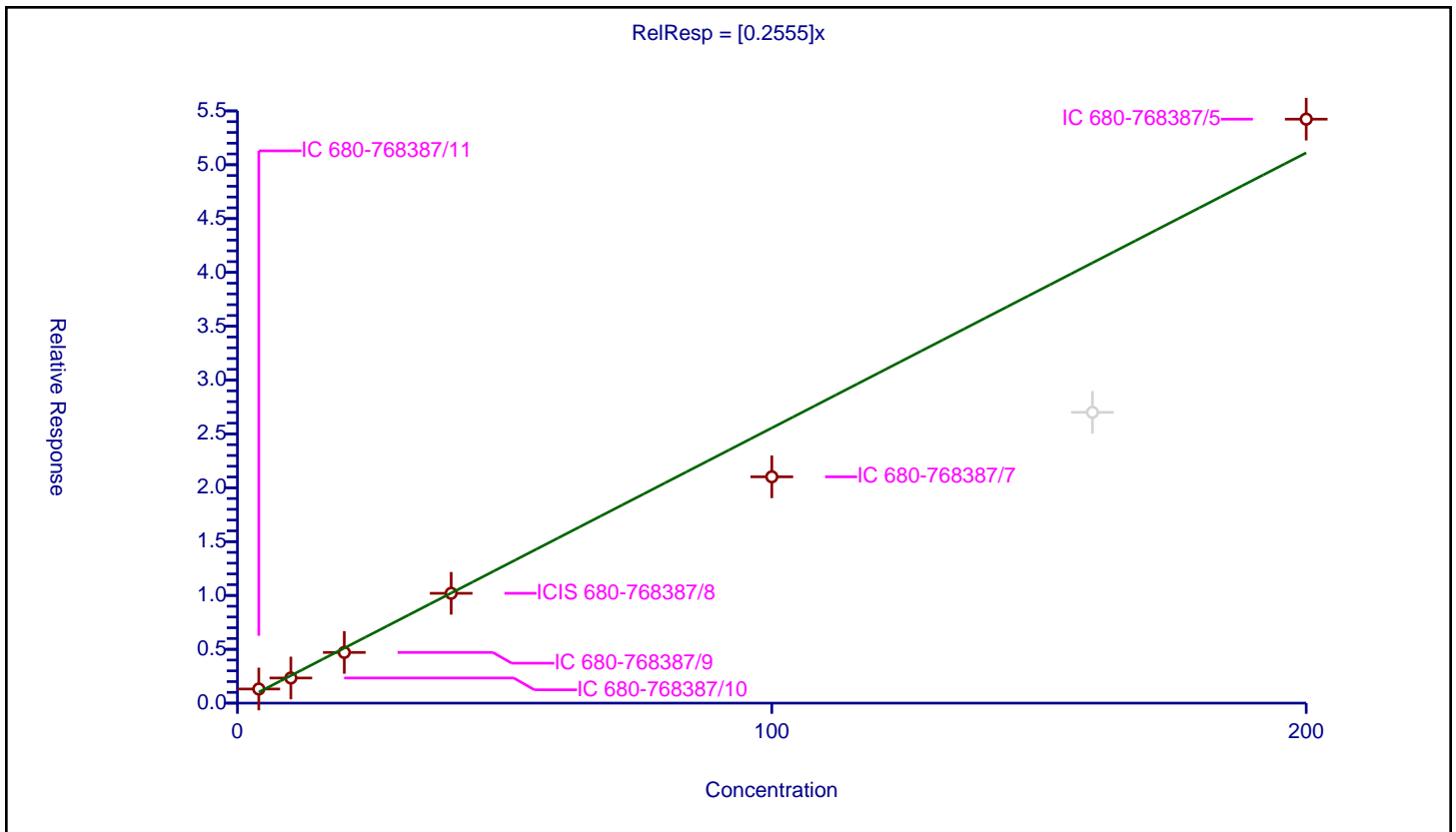
/ Tetraethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2555

Error Coefficients	
Standard Error:	2640000
Relative Standard Error:	16.1
Correlation Coefficient:	0.949
Coefficient of Determination (Adjusted):	0.955

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-768387/11	4.0	1.312245	50.0	5687389.0	0.328061	Y
2	IC 680-768387/10	10.0	2.333691	50.0	5829521.0	0.233369	Y
3	IC 680-768387/9	20.0	4.709268	50.0	4830177.0	0.235463	Y
4	ICIS 680-768387/8	40.0	10.199361	50.0	5093613.0	0.254984	Y
5	IC 680-768387/7	100.0	21.018989	50.0	3786538.0	0.21019	Y
6	IC 680-768387/6	160.0	27.00485	50.0	4412500.0	0.16878	N
7	IC 680-768387/5	200.0	54.234193	50.0	5135926.0	0.271171	Y



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-768387/12 Calibration Date: 03/18/2023 19:47  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC18012.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.6485		21.9	20.0	9.6	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.5994		22.0	20.0	10.0	20.0
2-Butoxyethanol	Lin2		0.7604		23.2	20.0	15.9	20.0
Dipropylene Glycol Methyl Ether	Lin1		0.0492		23.7	20.0	18.7	20.0
Propylene glycol	QuaF		0.1153		23.8	20.0	19.2	20.0
Ethylene glycol	Lin2		0.4915		21.4	20.0	7.1	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5183		22.3	20.0	11.3	20.0
2,2'-Oxybisethanol	Lin2		0.2533		19.9	20.0	-0.4	20.0
Triethylene Glycol	Ave	0.2491	0.2683		21.5	20.0	7.7	20.0
Tetraethylene Glycol	Ave	0.2555	0.2749		43.0	40.0	7.6	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-768387/12 Calibration Date: 03/18/2023 19:47  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC18012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.91	2.87	2.99
4-Hydroxy-4-methyl-2-pentanone	3.46	3.42	3.56
2-Butoxyethanol	3.76	3.69	3.84
Dipropylene Glycol Methyl Ether	5.13	5.04	5.25
Propylene glycol	6.35	6.47	6.74
Ethylene glycol	6.56	6.22	6.47
2-(2-Butoxyethoxy)ethanol	8.40	8.23	8.57
2,2'-Oxybisethanol	9.60	9.41	9.80
Triethylene Glycol	10.63	10.43	10.86
Tetraethylene Glycol	11.76	11.53	12.00

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D  
 Lims ID: icv gly  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 18-Mar-2023 19:47:38 ALS Bottle#: 0 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084498-012  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 19-Mar-2023 18:12:51 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1624

First Level Reviewer: SWK1 Date: 19-Mar-2023 17:25:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.910	2.930	-0.020	1545573	20.0	21.9	
2 4-Hydroxy-4-methyl-2-pentanone						
3.461	3.492	-0.031	1428608	20.0	22.0	
3 2-Butoxyethanol						
3.755	3.762	-0.007	1812232	20.0	23.2	
* 4 n-Heptyl Alcohol						
4.206	4.189	0.017	5958489	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
5.131	5.147	-0.016	117334	20.0	23.7	M
7 Ethylene glycol						
6.555	6.345	0.210	1171446	20.0	21.4	
6 Propylene glycol						
6.346	6.604	-0.258	274708	20.0	23.8	
8 2-(2-Butoxyethoxy)ethanol						
8.400	8.398	0.002	1235420	20.0	22.3	
9 2,2'-Oxybisethanol						
9.599	9.605	-0.006	603773	20.0	19.9	
10 Triethylene Glycol						
10.626	10.647	-0.021	639411	20.0	21.5	
11 Tetraethylene Glycol						
11.760	11.762	-0.002	1310165	40.0	43.0	

### QC Flag Legend

Processing Flags



Review Flags

M - Manually Integrated

Reagents:

SG\_GlyICV\_00055

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D

Injection Date: 18-Mar-2023 19:47:38

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

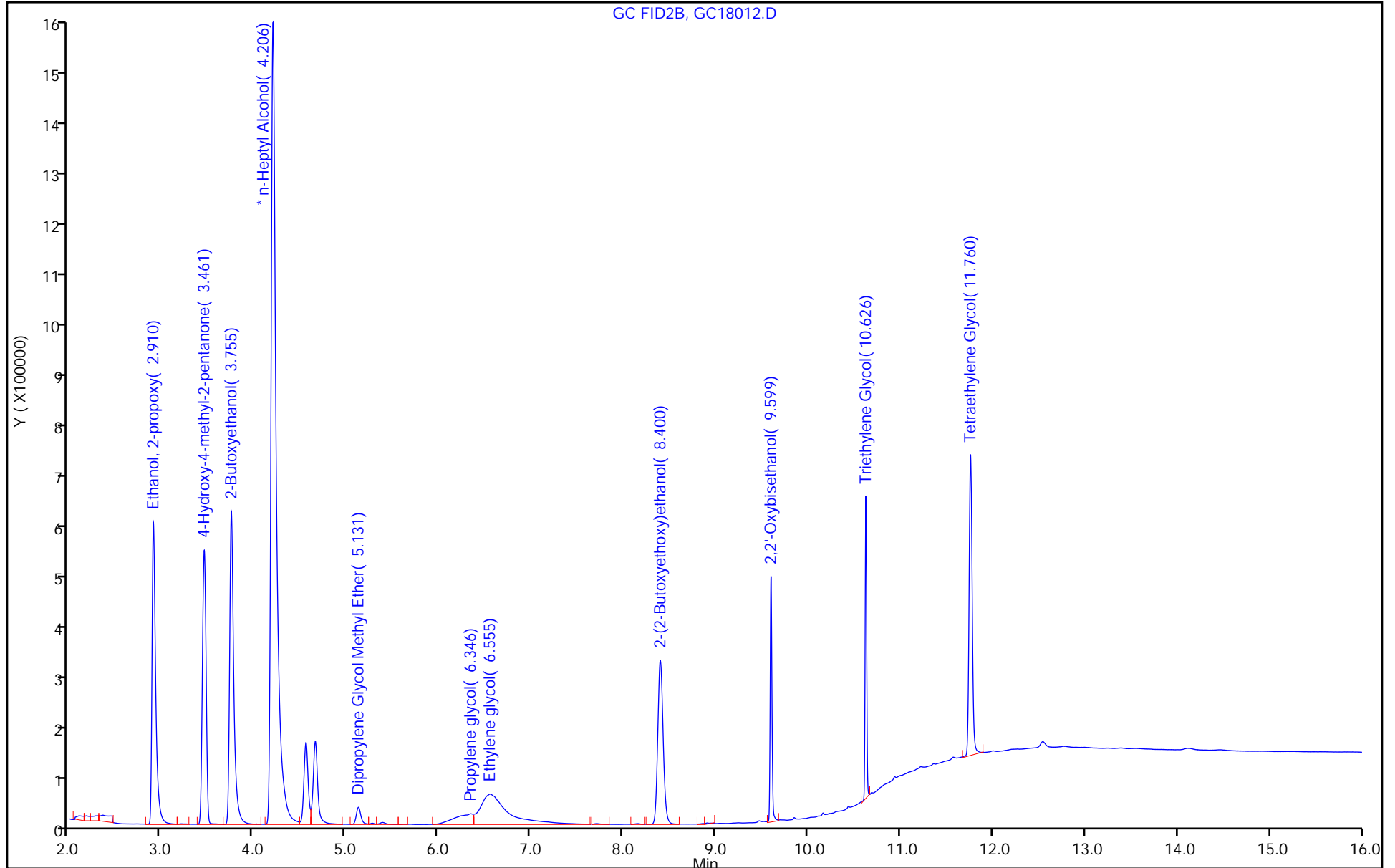
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

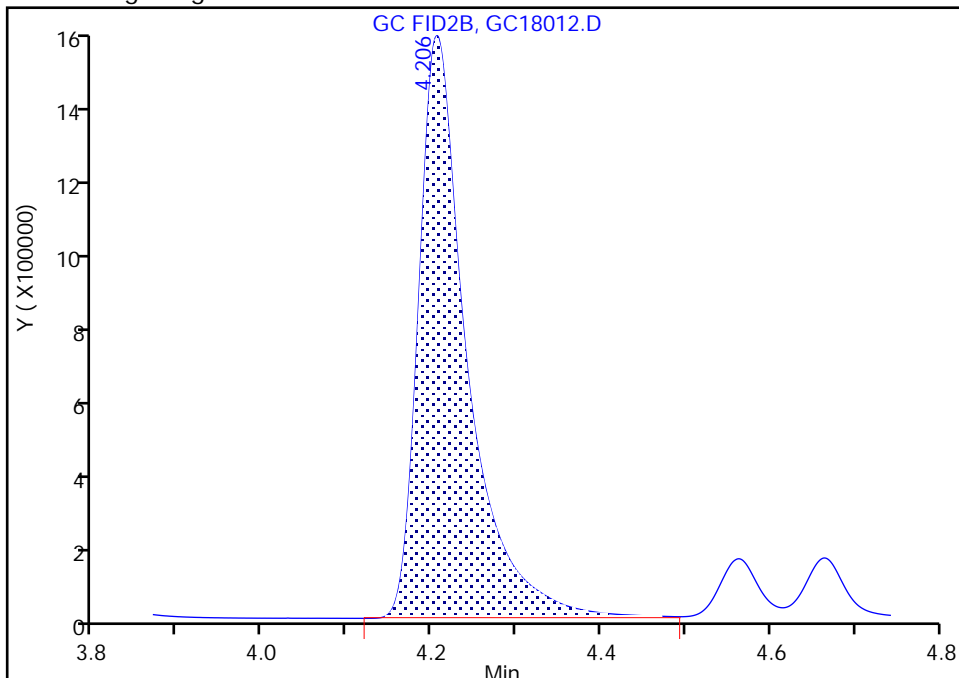
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D  
Injection Date: 18-Mar-2023 19:47:38 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

\* 4 n-Heptyl Alcohol, CAS: 111-70-6

Signal: 1

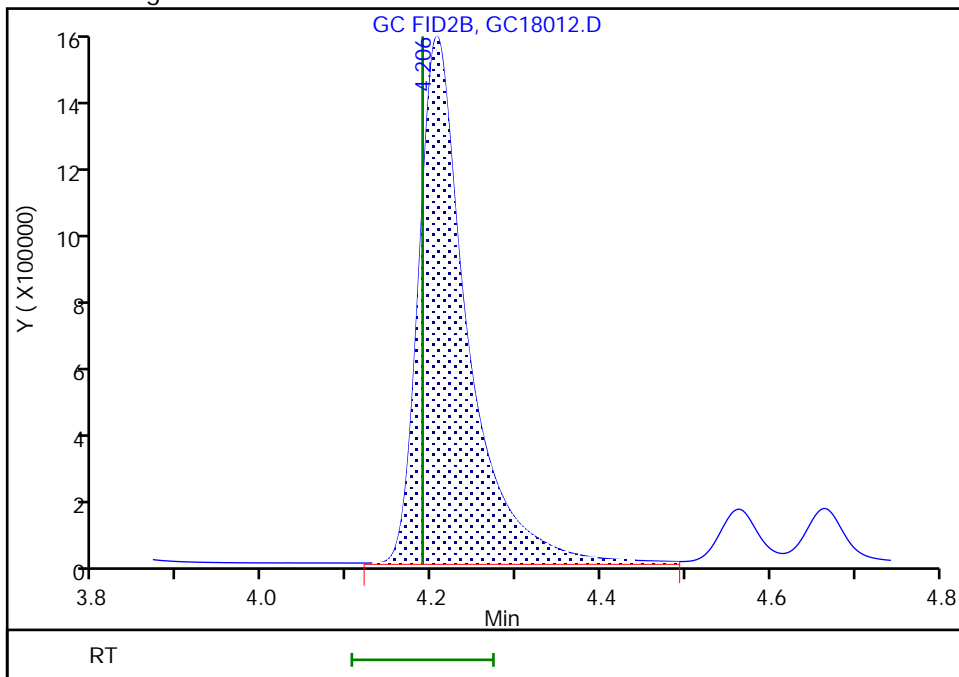
RT: 4.21  
Area: 5899756  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 4.21  
Area: 5958489  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

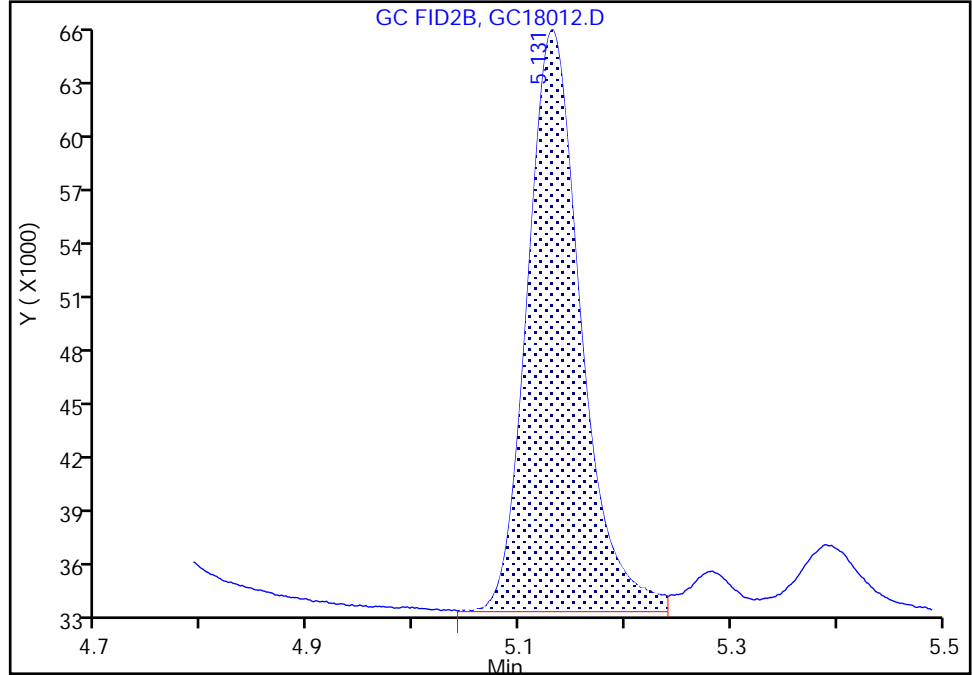
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18012.D  
Injection Date: 18-Mar-2023 19:47:38 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

5 Dipropylene Glycol Methyl Ether, CAS: 34590-94-8

Signal: 1

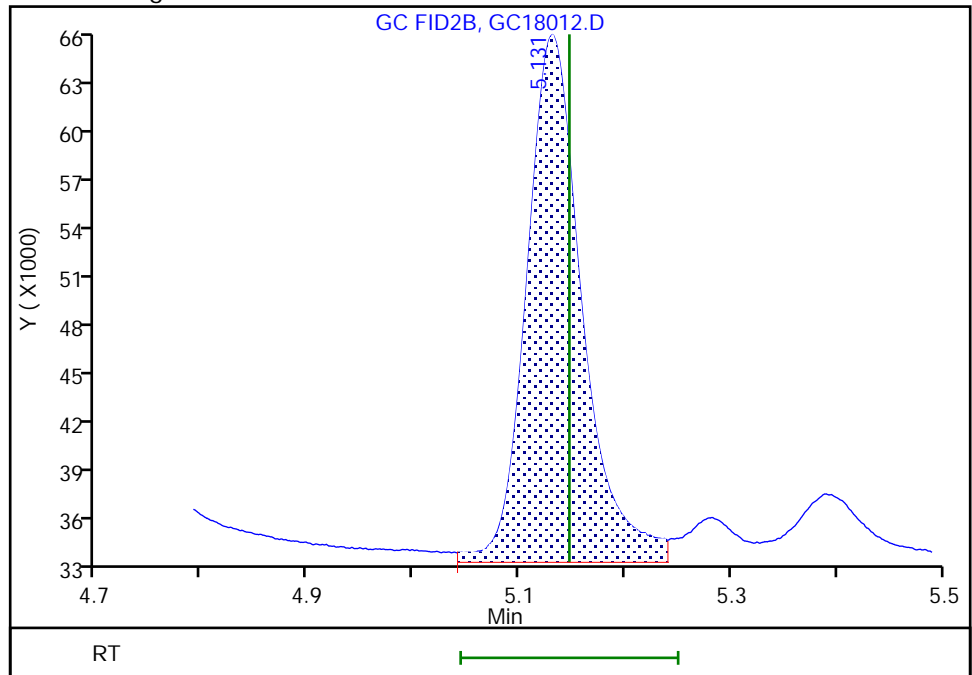
RT: 5.13  
Area: 111783  
Amount: 21.359854  
Amount Units: ug/ml

Processing Integration Results



RT: 5.13  
Area: 117334  
Amount: 23.733940  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 19-Mar-2023 17:25:32  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-769036/5 Calibration Date: 03/22/2023 14:21  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC22005.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.4643		15.3	20.0	-23.6*	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.4349		15.6	20.0	-22.2*	20.0
2-Butoxyethanol	Lin2		0.5189		15.3	20.0	-23.5*	20.0
Dipropylene Glycol Methyl Ether	Lin1		0.0355		16.7	20.0	-16.3	20.0
Ethylene glycol	Lin2		0.0863		2.83	20.0	-85.9*	20.0
Propylene glycol	QuaF		0.4924		85.6	20.0	328.0*	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.4091		17.2	20.0	-13.9	20.0
2,2'-Oxybisethanol	Lin2		0.2353		18.4	20.0	-8.0	20.0
Triethylene Glycol	Ave	0.2491	0.2266		18.2	20.0	-9.0	20.0
Tetraethylene Glycol	Ave	0.2555	0.2239		35.0	40.0	-12.4	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-769036/5 Calibration Date: 03/22/2023 14:21  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC22005.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.91	2.85	2.96
4-Hydroxy-4-methyl-2-pentanone	3.45	3.38	3.52
2-Butoxyethanol	3.75	3.68	3.83
Dipropylene Glycol Methyl Ether	5.12	5.02	5.22
Ethylene glycol	6.33	6.20	6.46
Propylene glycol	6.59	6.45	6.72
2-(2-Butoxyethoxy)ethanol	8.39	8.22	8.56
2,2'-Oxybisethanol	9.60	9.40	9.79
Triethylene Glycol	10.62	10.41	10.84
Tetraethylene Glycol	11.75	11.52	11.99

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22005.D  
 Lims ID: ccv g4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 22-Mar-2023 14:21:57 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-005  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:11:08 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SK9U Date: 22-Mar-2023 16:25:00

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	2.906	2.906	0.000	589455	20.0	15.3
2 4-Hydroxy-4-methyl-2-pentanone	3.448	3.448	0.000	552122	20.0	15.6
3 2-Butoxyethanol	3.754	3.754	0.000	658790	20.0	15.3
* 4 n-Heptyl Alcohol	4.212	4.212	0.000	3173939	50.0	50.0 M
5 Dipropylene Glycol Methyl Ether	5.118	5.118	0.000	45073	20.0	16.7
7 Ethylene glycol	6.330	6.330	0.000	109549	20.0	2.83
6 Propylene glycol	6.585	6.585	0.000	625149	20.0	85.6
8 2-(2-Butoxyethoxy)ethanol	8.390	8.390	0.000	519438	20.0	17.2
9 2,2'-Oxybisethanol	9.596	9.596	0.000	298745	20.0	18.4
10 Triethylene Glycol	10.624	10.624	0.000	287695	20.0	18.2
11 Tetraethylene Glycol	11.754	11.754	0.000	568408	40.0	35.0

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22005.D

Injection Date: 22-Mar-2023 14:21:57

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

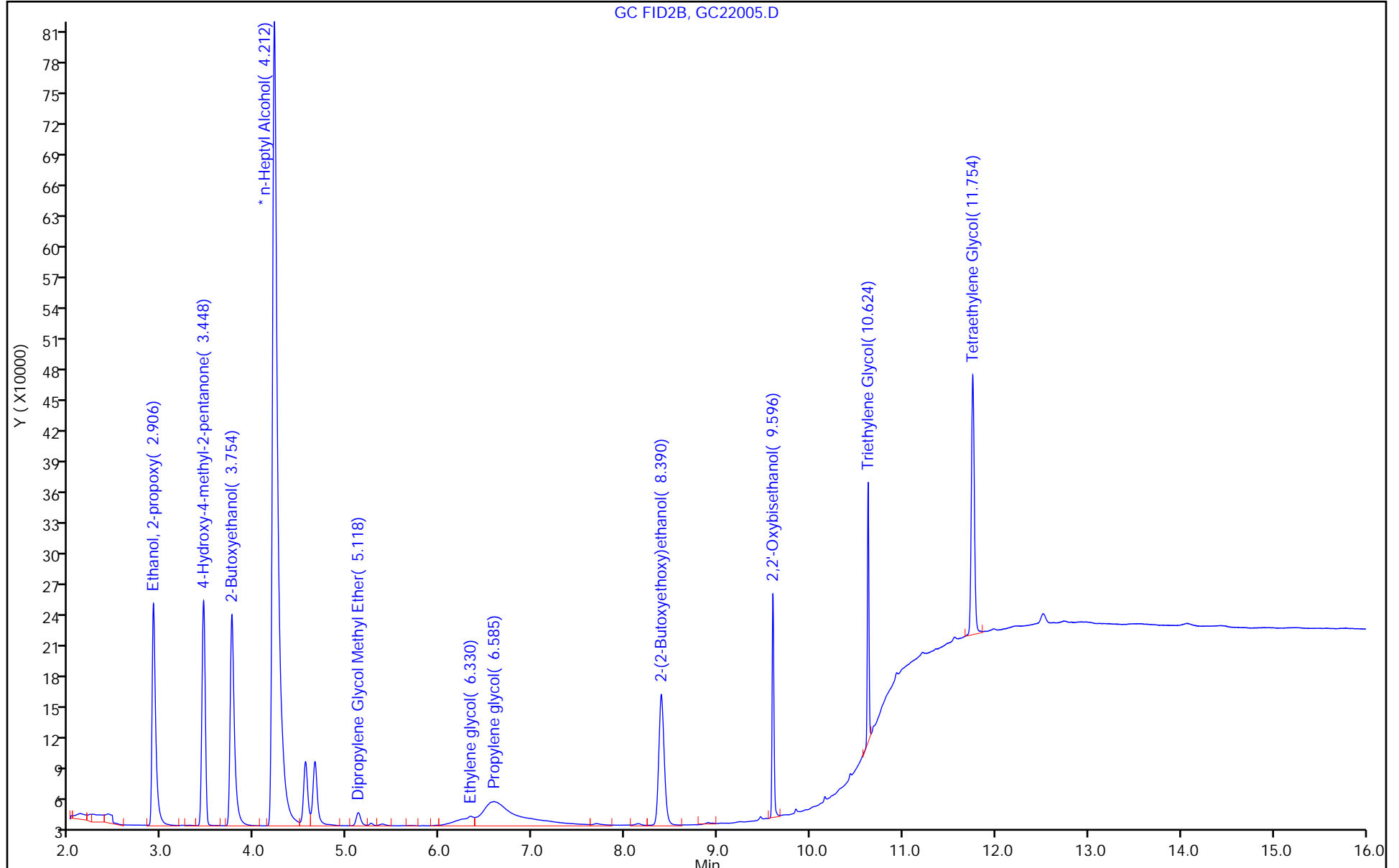
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



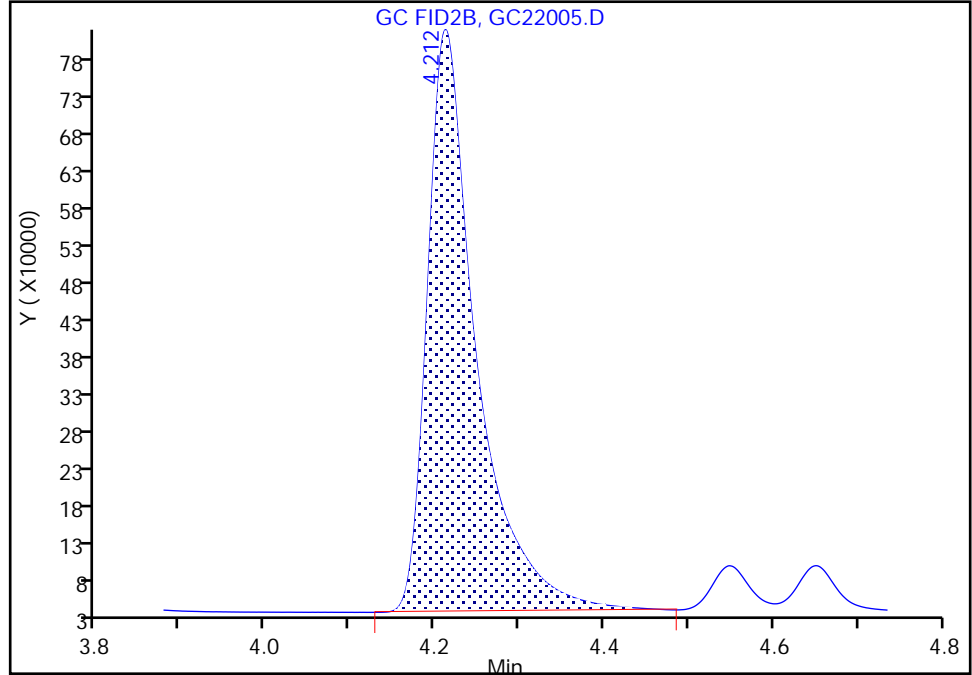
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22005.D  
Injection Date: 22-Mar-2023 14:21:57 Instrument ID: CVGG2  
Lims ID: ccv g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
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

\* 4 n-Heptyl Alcohol, CAS: 111-70-6  
Signal: 1

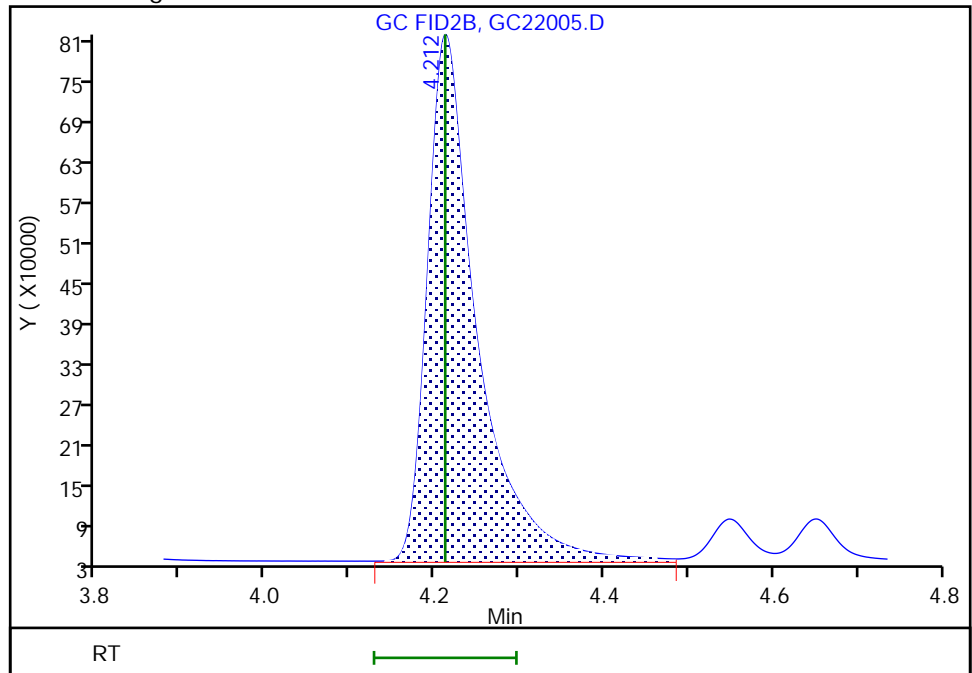
RT: 4.21  
Area: 3138201  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 4.21  
Area: 3173939  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 22-Mar-2023 16:24:41  
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-769036/27 Calibration Date: 03/22/2023 22:55  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC22027.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.6962		23.7	20.0	18.3	20.0
4-Hydroxy-4-methyl-2-pentano ne	Lin2		0.6416		23.7	20.0	18.3	20.0
2-Butoxyethanol	Lin2		0.7592		23.1	20.0	15.7	20.0
Dipropylene Glycol Methyl Ether	Lin1		0.0533		25.8	20.0	28.9*	20.0
Ethylene glycol	Lin2		0.0880		2.91	20.0	-85.5*	20.0
Propylene glycol	QuaF		0.3696		67.4	20.0	237.1*	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5748		24.9	20.0	24.3*	20.0
2,2'-Oxybisethanol	Lin2		0.2073		16.0	20.0	-19.8	20.0
Triethylene Glycol	Ave	0.2491	0.1230		9.87	20.0	-50.6*	20.0
Tetraethylene Glycol	Ave	0.2555	0.0497		7.78	40.0	-80.5*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-769036/27 Calibration Date: 03/22/2023 22:55  
 Instrument ID: CVGG2 Calib Start Date: 03/18/2023 17:04  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 03/18/2023 19:24  
 Lab File ID: GC22027.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.91	2.85	2.97
4-Hydroxy-4-methyl-2-pentanone	3.46	3.39	3.53
2-Butoxyethanol	3.75	3.67	3.82
Dipropylene Glycol Methyl Ether	5.13	5.03	5.23
Ethylene glycol	6.33	6.20	6.46
Propylene glycol	6.58	6.45	6.71
2-(2-Butoxyethoxy)ethanol	8.39	8.22	8.56
2,2'-Oxybisethanol	9.60	9.41	9.79
Triethylene Glycol	10.63	10.42	10.85
Tetraethylene Glycol	11.78	11.55	12.02

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22027.D  
 Lims ID: ccv g4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 22-Mar-2023 22:55:24 ALS Bottle#: 0 Worklist Smp#: 27  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-027  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:11:11 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1 Date: 23-Mar-2023 11:10:45

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.908	2.908	0.000	1620405	20.0	23.7	M
2	4-Hydroxy-4-methyl-2-pentanone					
3.461	3.461	0.000	1493300	20.0	23.7	
3	2-Butoxyethanol					
3.747	3.747	0.000	1766929	20.0	23.1	
*	4 n-Heptyl Alcohol					M
4.189	4.189	0.000	5818470	50.0	50.0	M
5	Dipropylene Glycol Methyl Ether					
5.128	5.128	0.000	123963	20.0	25.8	
7	Ethylene glycol					
6.329	6.329	0.000	204885	20.0	2.91	
6	Propylene glycol					
6.583	6.583	0.000	860318	20.0	67.4	
8	2-(2-Butoxyethoxy)ethanol					
8.392	8.392	0.000	1337852	20.0	24.9	
9	2,2'-Oxybisethanol					
9.601	9.601	0.000	482517	20.0	16.0	
10	Triethylene Glycol					
10.633	10.633	0.000	286187	20.0	9.87	
11	Tetraethylene Glycol					
11.784	11.784	0.000	231411	40.0	7.78	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00048

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22027.D

Injection Date: 22-Mar-2023 22:55:24

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

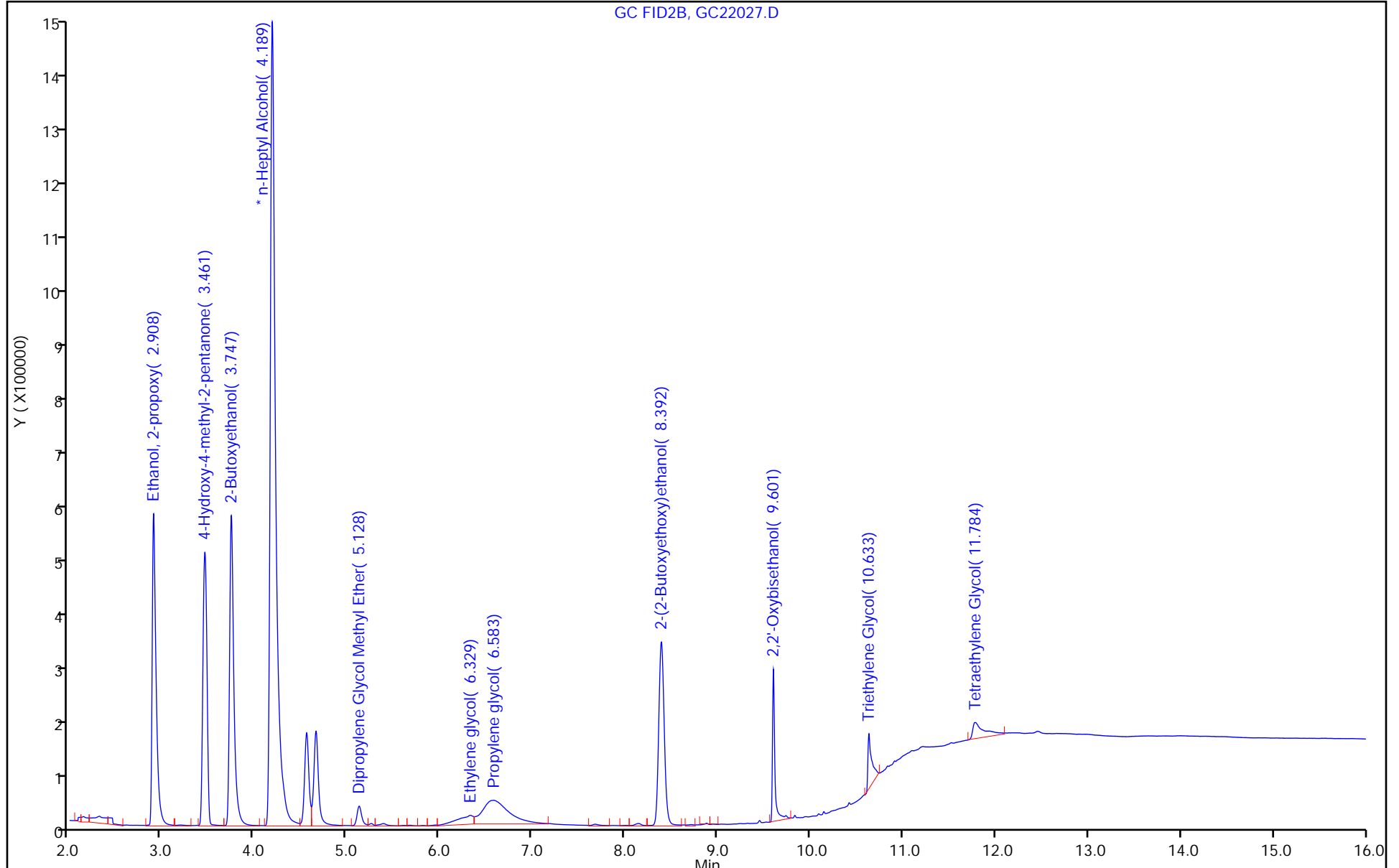
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

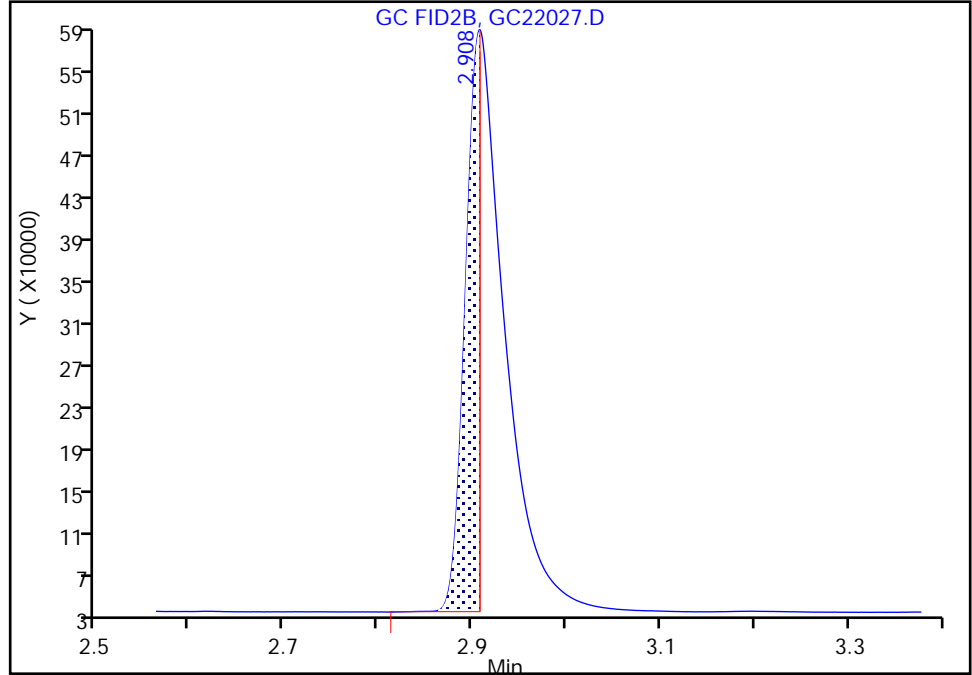
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22027.D  
Injection Date: 22-Mar-2023 22:55:24 Instrument ID: CVGG2  
Lims ID: ccv g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 27  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

1 Ethanol, 2-propoxy, CAS: 2807-30-9

Signal: 1

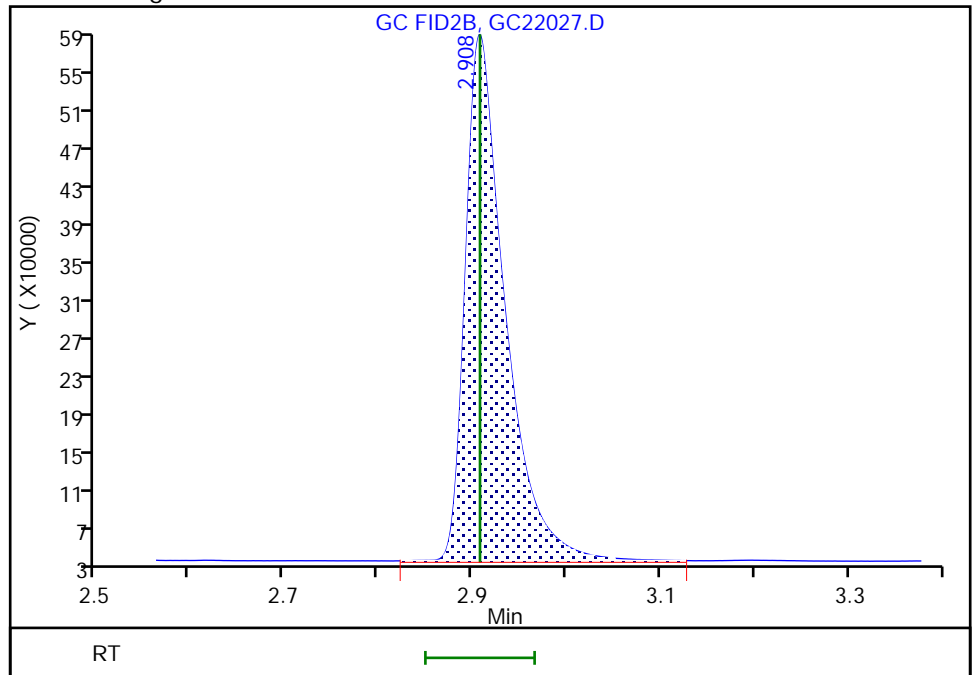
RT: 2.91  
Area: 577477  
Amount: 7.554606  
Amount Units: ug/ml

Processing Integration Results



RT: 2.91  
Area: 1620405  
Amount: 23.650178  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SWK1, 23-Mar-2023 11:10:35  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing



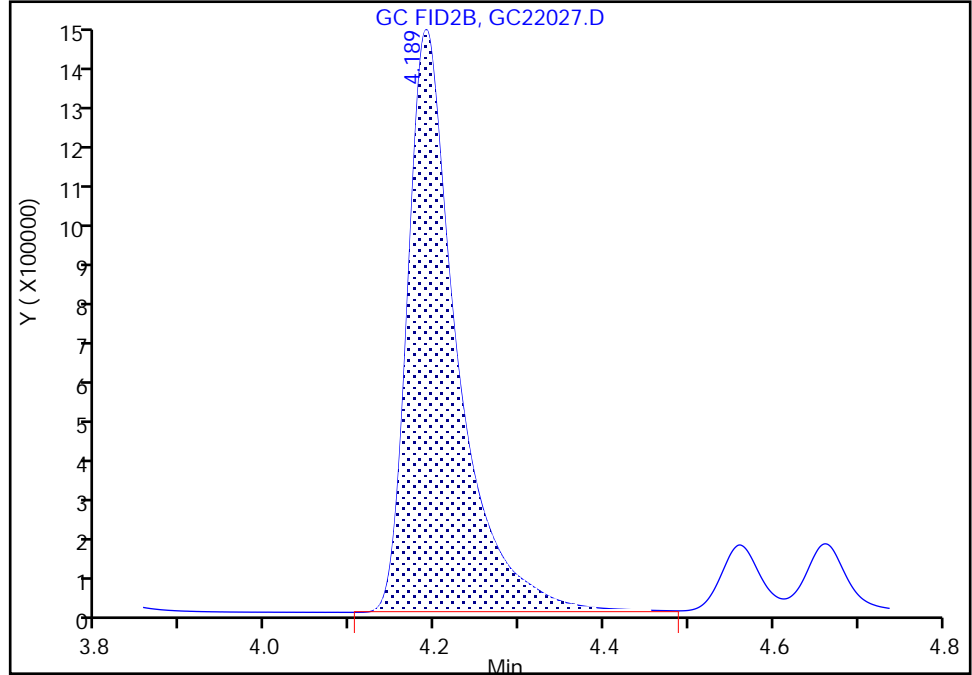
Euofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22027.D  
Injection Date: 22-Mar-2023 22:55:24 Instrument ID: CVGG2  
Lims ID: ccv g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 27  
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

\* 4 n-Heptyl Alcohol, CAS: 111-70-6  
Signal: 1

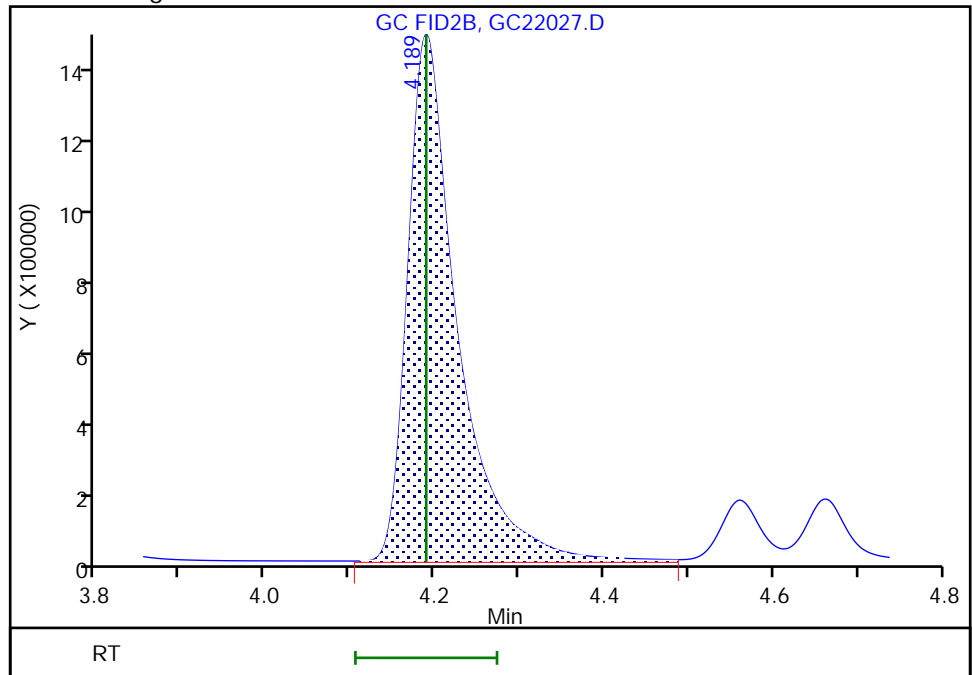
RT: 4.19  
Area: 5763097  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 4.19  
Area: 5818470  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 680-769036/12  
 Matrix: Water Lab File ID: GC22012.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 17:05  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22012.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 22-Mar-2023 17:05:07 ALS Bottle#: 0 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-012  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SWK1 Date: 23-Mar-2023 11:09:52

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

\* 4 n-Heptyl Alcohol  
 4.200 4.189 0.011 5939401 50.0 50.0

**QC Flag Legend**

Processing Flags

**Reagents:**

SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22012.D

Injection Date: 22-Mar-2023 17:05:07

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

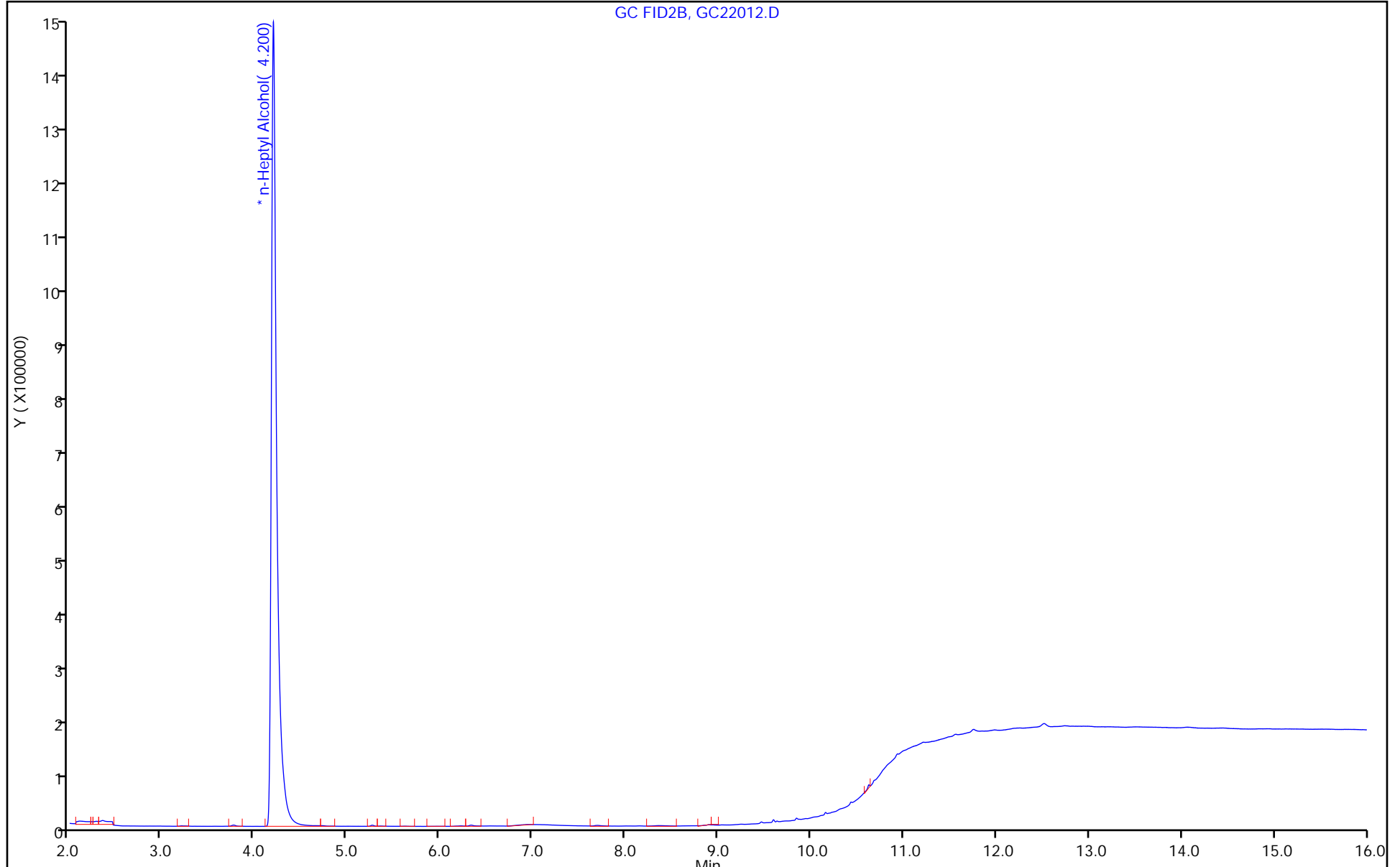
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GC22012.D

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 680-769036/6  
 Matrix: Water Lab File ID: GC22006.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 14:45  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.8		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22006.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 22-Mar-2023 14:45:13 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-006  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:11:08 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

First Level Reviewer: SK9U Date: 22-Mar-2023 16:25:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.909	2.906	0.003	1064345	20.0	20.3	
2 4-Hydroxy-4-methyl-2-pentanone						
3.455	3.448	0.007	947504	20.0	19.6	M
3 2-Butoxyethanol						
3.752	3.754	-0.002	1203545	20.0	20.7	M
* 4 n-Heptyl Alcohol						
4.205	4.212	-0.007	4401122	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
5.123	5.118	0.005	73373	20.0	19.9	
7 Ethylene glycol						
6.336	6.330	0.006	153907	20.0	2.88	
6 Propylene glycol						
6.596	6.585	0.011	826654	20.0	82.3	
8 2-(2-Butoxyethoxy)ethanol						
8.390	8.390	0.000	818418	20.0	19.8	
9 2,2'-Oxybisethanol						
9.595	9.596	-0.001	418268	20.0	18.6	
10 Triethylene Glycol						
10.623	10.624	-0.001	403179	20.0	18.4	
11 Tetraethylene Glycol						
11.754	11.754	0.000	824688	40.0	36.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_GlyICV\_00055

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00106

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22006.D

Injection Date: 22-Mar-2023 14:45:13

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

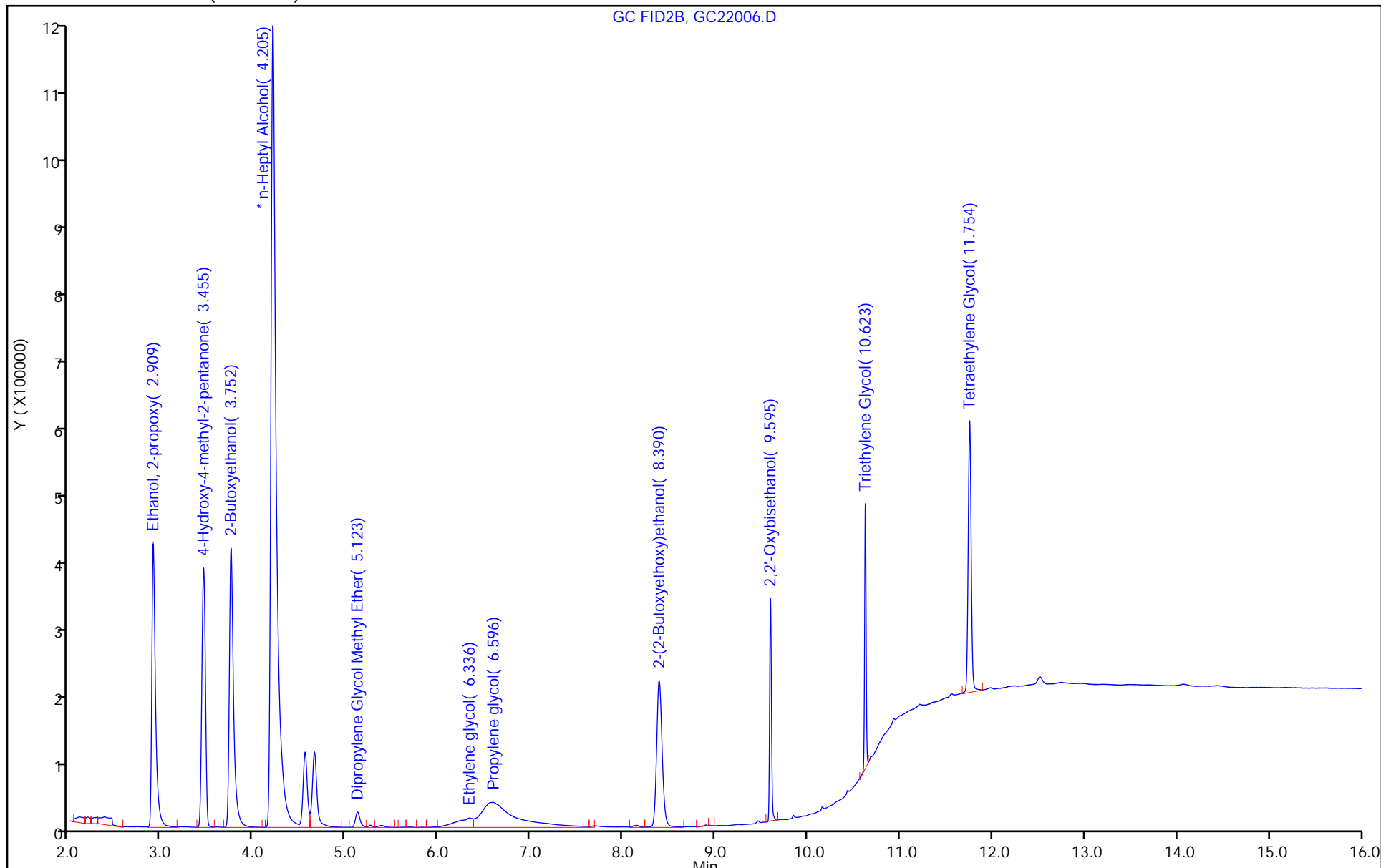
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)





Eurofins Savannah

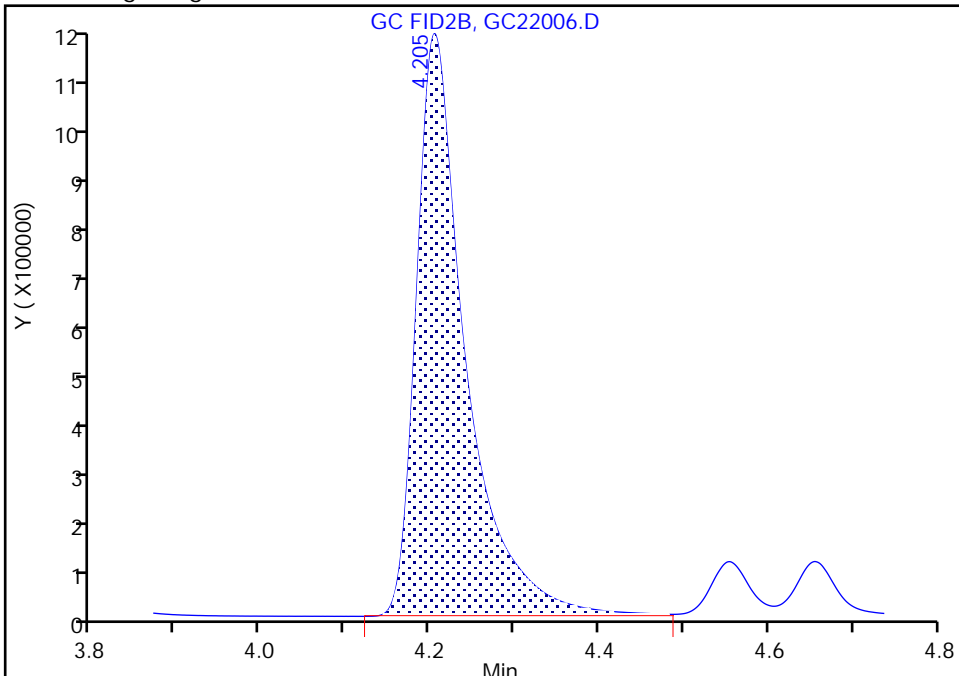
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22006.D  
Injection Date: 22-Mar-2023 14:45:13 Instrument ID: CVGG2  
Lims ID: lcs  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

\* 4 n-Heptyl Alcohol, CAS: 111-70-6

Signal: 1

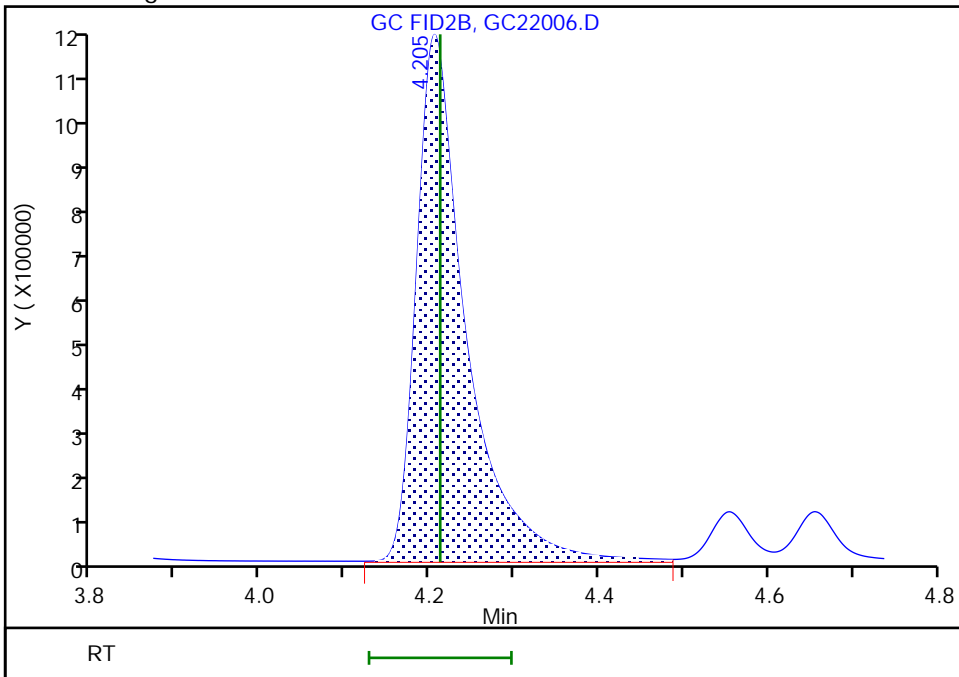
RT: 4.20  
Area: 4361330  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 4.20  
Area: 4401122  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-124965-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 680-769036/7  
 Matrix: Water Lab File ID: GC22007.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 15:08  
 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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.1		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22007.D  
 Lims ID: lcsd  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 22-Mar-2023 15:08:35 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-007  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:11:08 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

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	2.909	2.906	0.003	890528	20.0	17.4
2 4-Hydroxy-4-methyl-2-pentanone	3.454	3.448	0.006	828335	20.0	17.6
3 2-Butoxyethanol	3.752	3.754	-0.002	997749	20.0	17.5
* 4 n-Heptyl Alcohol	4.205	4.212	-0.007	4256785	50.0	50.0
5 Dipropylene Glycol Methyl Ether	5.122	5.118	0.004	68227	20.0	19.1
7 Ethylene glycol	6.336	6.330	0.006	168826	20.0	3.42
6 Propylene glycol	6.579	6.585	-0.006	891338	20.0	90.0
8 2-(2-Butoxyethoxy)ethanol	8.392	8.390	0.002	764862	20.0	19.1
9 2,2'-Oxybisethanol	9.595	9.596	-0.001	454188	20.0	21.1
10 Triethylene Glycol	10.624	10.624	0.000	434283	20.0	20.5
11 Tetraethylene Glycol	11.753	11.754	-0.001	884265	40.0	40.6

## Reagents:

SG\_GlylCV\_00055 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22007.D

Injection Date: 22-Mar-2023 15:08:35

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

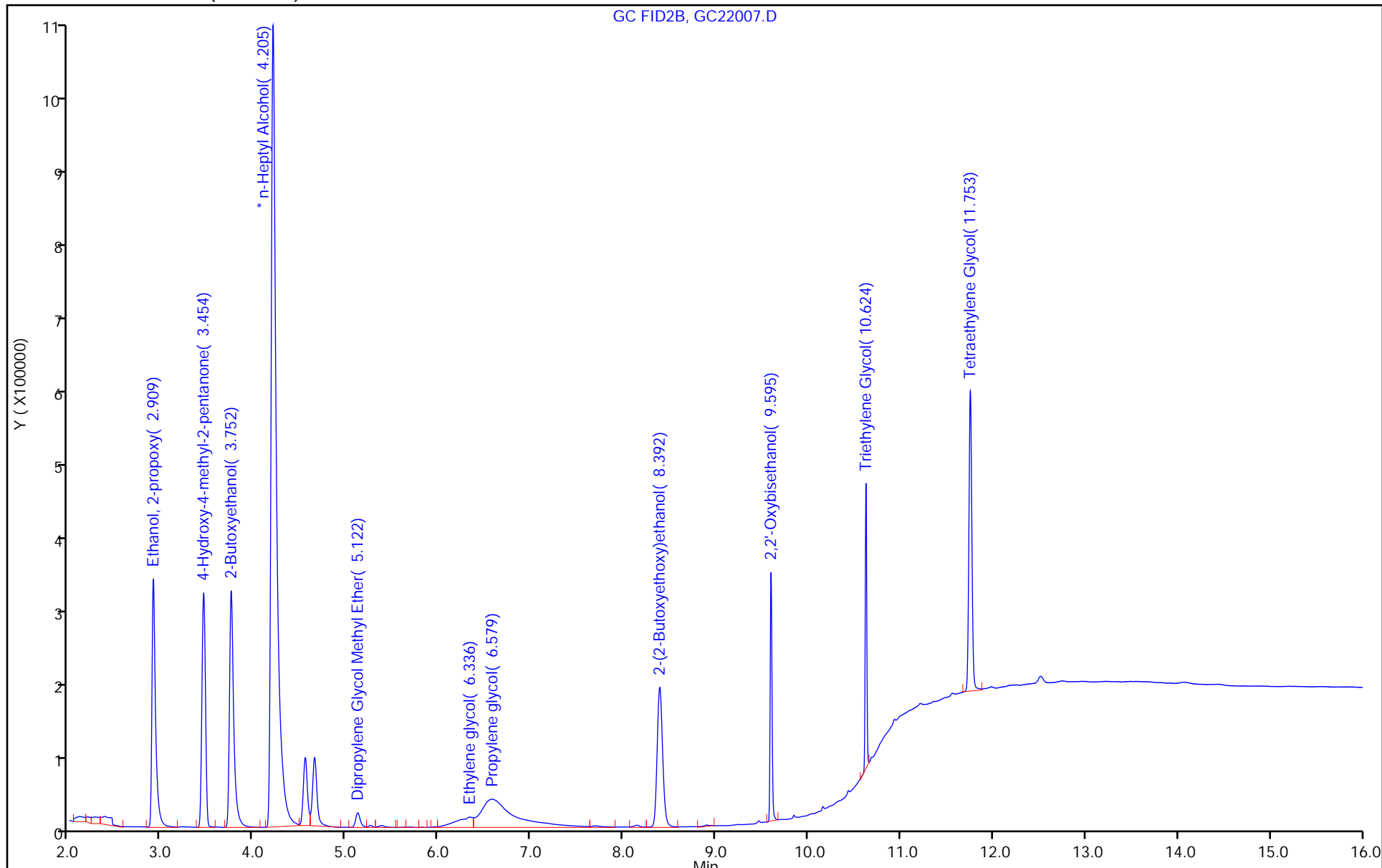
Dil. Factor: 1.0000

ALS Bottle#: 0

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.: 580-124965-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: AF-RHMW16-WGN01LF-2303W2 Lab Sample ID: 580-124965-2 MS  
MS  
Matrix: Water Lab File ID: GC22016.D  
Analysis Method: 8015C GLY Date Collected: 03/13/2023 14:30  
Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
Sample wt/vol: 1(mL) Date Analyzed: 03/22/2023 18:38  
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.: 769036 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.7		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22016.D  
 Lims ID: 580-124965-A-2 MS  
 Client ID:  
 Sample Type: MS  
 Inject. Date: 22-Mar-2023 18:38:42      ALS Bottle#: 0      Worklist Smp#: 16  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0084602-016  
 Operator ID:      Instrument ID: CVGG2  
  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45      Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1631

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  
 4.200 4.189 0.011 4108804 50.0 50.0  
 8 2-(2-Butoxyethoxy)ethanol  
 8.392 8.392 0.000 760228 20.0 19.7

**Reagents:**

SG\_GlyICV\_00055      Amount Added: 10.00      Units: uL  
 SG\_GLY\_ISTD\_00106      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22016.D

Injection Date: 22-Mar-2023 18:38:42

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-2 MS

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

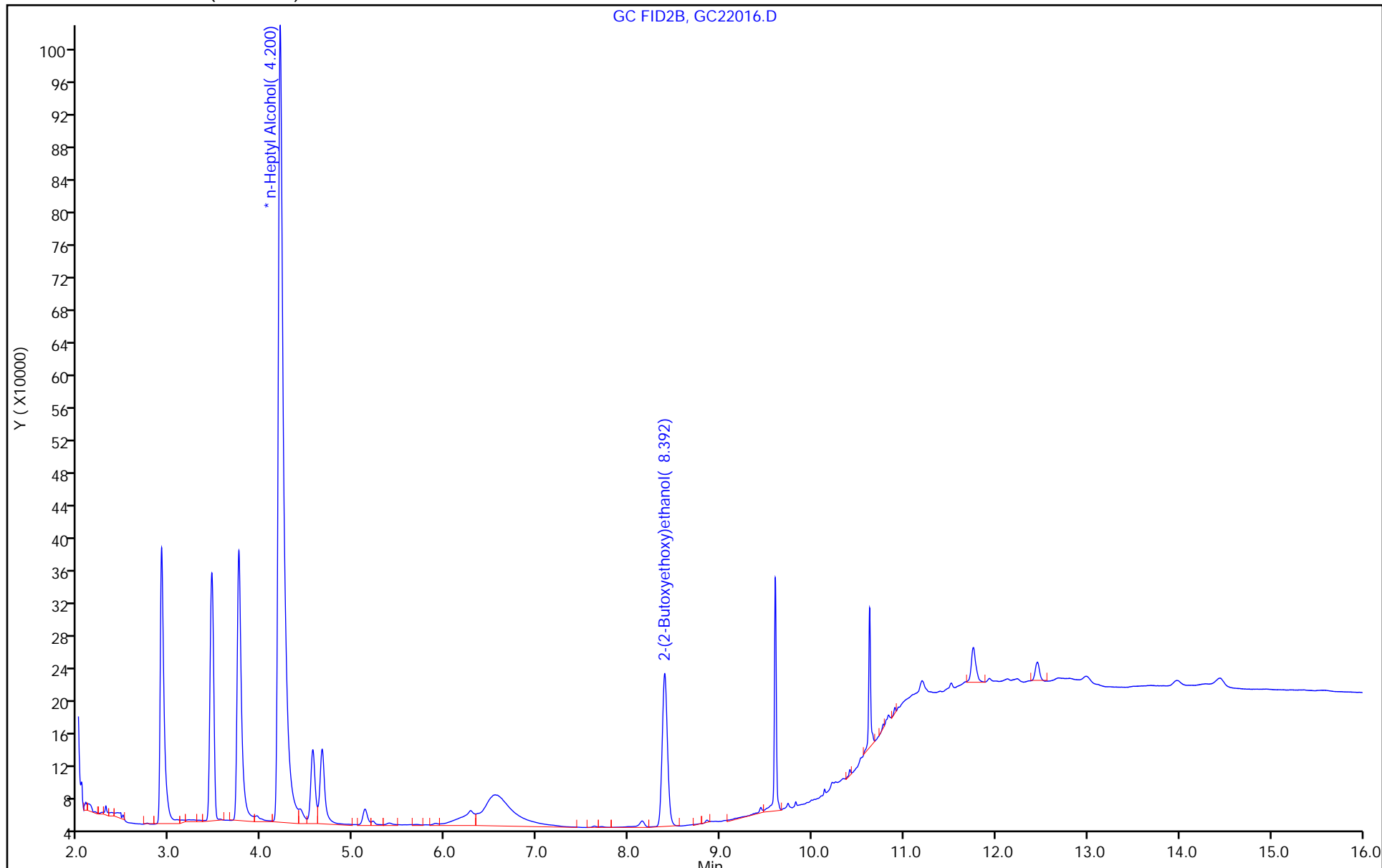
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)







Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22017.D  
 Lims ID: 580-124965-A-2 MSD  
 Client ID:  
 Sample Type: MSD  
 Inject. Date: 22-Mar-2023 19:02:00 ALS Bottle#: 0 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0084602-017  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 23-Mar-2023 11:10:45 Calib Date: 18-Mar-2023 19:24:22  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230318-84498.b\GC18011.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1631

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  
 4.202 4.189 0.013 4507118 50.0 50.0  
 8 2-(2-Butoxyethoxy)ethanol  
 8.390 8.392 -0.002 793917 20.0 18.7

**Reagents:**

SG\_GlyICV\_00055 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00106 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230322-84602.b\GC22017.D

Injection Date: 22-Mar-2023 19:02:00

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-124965-A-2 MSD

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

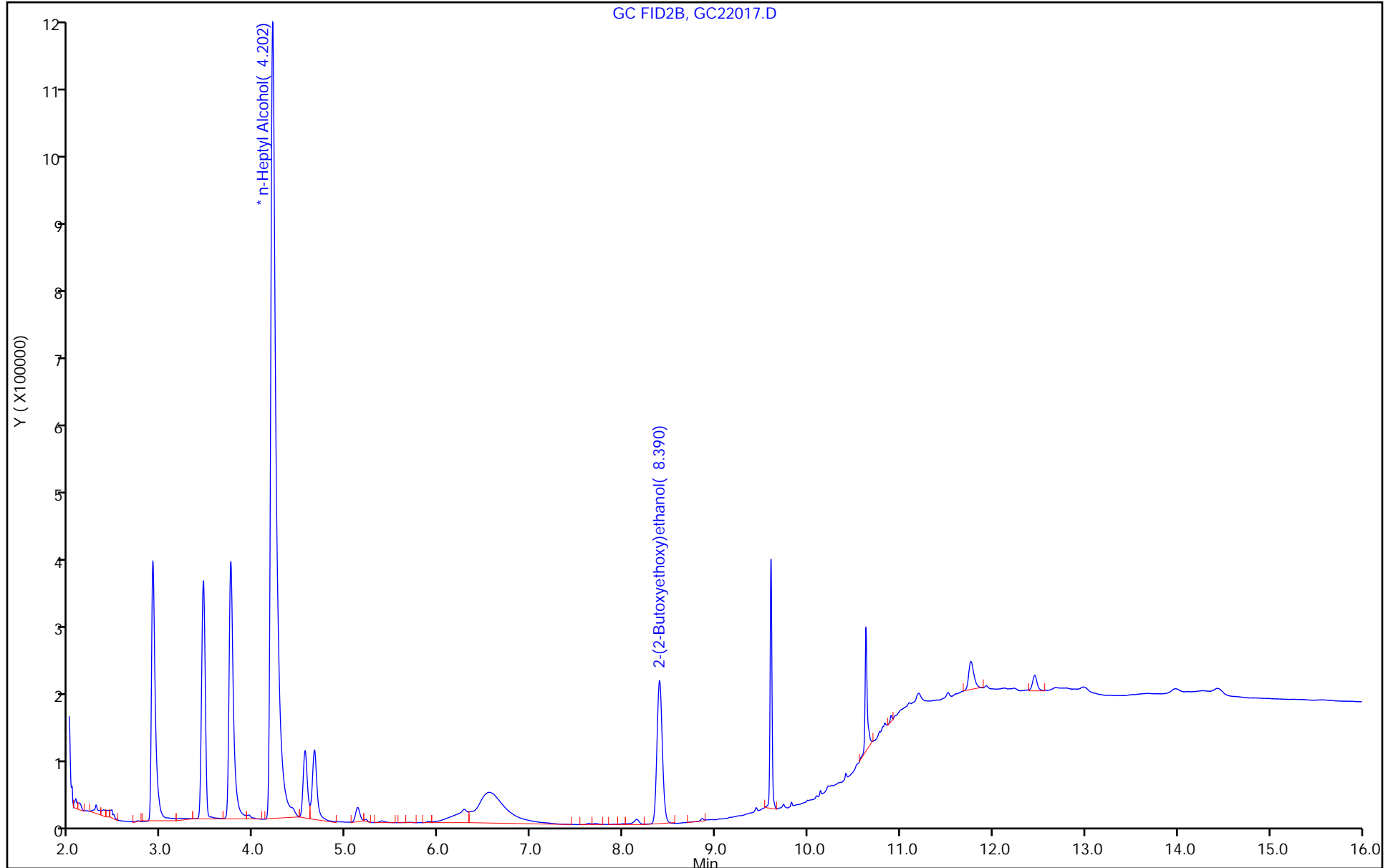
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Start Date: 03/18/2023 17:04

Analysis Batch Number: 768387 End Date: 03/19/2023 07:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-768387/5		03/18/2023 17:04	1	GC18005.D	J&W DB WAX 0.45 (mm)
IC 680-768387/6		03/18/2023 17:27	1	GC18006.D	J&W DB WAX 0.45 (mm)
IC 680-768387/7		03/18/2023 17:51	1	GC18007.D	J&W DB WAX 0.45 (mm)
ICIS 680-768387/8		03/18/2023 18:14	1	GC18008.D	J&W DB WAX 0.45 (mm)
IC 680-768387/9		03/18/2023 18:37	1	GC18009.D	J&W DB WAX 0.45 (mm)
IC 680-768387/10		03/18/2023 19:01	1	GC18010.D	J&W DB WAX 0.45 (mm)
IC 680-768387/11		03/18/2023 19:24	1	GC18011.D	J&W DB WAX 0.45 (mm)
ICV 680-768387/12 CCV		03/18/2023 19:47	1	GC18012.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 20:11	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 20:34	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 21:44	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 22:07	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 22:30	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 22:53	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 23:17	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/18/2023 23:40	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 00:03	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 00:26	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 00:50	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 01:13	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 01:36	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 01:59	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 02:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 02:46	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 03:09	1		J&W DB WAX 0.45 (mm)
CCV 680-768387/33		03/19/2023 03:56	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 05:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 05:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 05:52	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/19/2023 06:15	1		J&W DB WAX 0.45 (mm)
CCV 680-768387/41		03/19/2023 07:01	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Instrument ID: CVGG2 Start Date: 03/22/2023 14:21

Analysis Batch Number: 769036 End Date: 03/22/2023 22:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-769036/5		03/22/2023 14:21	1	GC22005.D	J&W DB WAX 0.45 (mm)
LCS 680-769036/6		03/22/2023 14:45	1	GC22006.D	J&W DB WAX 0.45 (mm)
LCSD 680-769036/7		03/22/2023 15:08	1	GC22007.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 15:31	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 15:55	1		J&W DB WAX 0.45 (mm)
MB 680-769036/12		03/22/2023 17:05	1	GC22012.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 17:28	1		J&W DB WAX 0.45 (mm)
580-124965-1	AF-RHMW10-WGN01LF-2303W2	03/22/2023 17:51	1	GC22014.D	J&W DB WAX 0.45 (mm)
580-124965-2	AF-RHMW16-WGN01LF-2303W2	03/22/2023 18:15	1	GC22015.D	J&W DB WAX 0.45 (mm)
580-124965-2 MS	AF-RHMW16-WGN01LF-2303W2 MS	03/22/2023 18:38	1	GC22016.D	J&W DB WAX 0.45 (mm)
580-124965-2 MSD	AF-RHMW16-WGN01LF-2303W2 MSD	03/22/2023 19:02	1	GC22017.D	J&W DB WAX 0.45 (mm)
580-124965-3	AF-HDMW225303-WGN01LF-2303W2	03/22/2023 19:25	1	GC22018.D	J&W DB WAX 0.45 (mm)
580-124965-4	AF-RHMW12A-WGN01LF-2303W2	03/22/2023 19:48	1	GC22019.D	J&W DB WAX 0.45 (mm)
580-124965-5	AF-RHMW12A-WGFD01LF-2303W2	03/22/2023 20:12	1	GC22020.D	J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 20:35	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 20:58	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 21:22	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 21:45	1		J&W DB WAX 0.45 (mm)
ZZZZZ		03/22/2023 22:08	1		J&W DB WAX 0.45 (mm)
CCV 680-769036/27		03/22/2023 22:55	1	GC22027.D	J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Batch Number: 768387 Batch Start Date: 03/18/23 17:04 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00048	SG_GLY_ISTD 00106	SG_GlyICV 00055		
IC 680-768387/5		8015C GLY		1 mL	50 uL	10 uL			
IC 680-768387/6		8015C GLY		1 mL	40 uL	10 uL			
IC 680-768387/7		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-768387/8		8015C GLY		1 mL	10 uL	10 uL			
IC 680-768387/9		8015C GLY		1 mL	5 uL	10 uL			
IC 680-768387/10		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-768387/11		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-768387/12 CCV		8015C GLY		1 mL		10 uL	10 uL		

Batch Notes	

Basis	Basis Description

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-124965-1

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

Batch Number: 769036 Batch Start Date: 03/22/23 14:21 Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00048	SG_GLY_ISTD 00106	SG_GlyICV 00055		
CCVIS 680-769036/5		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-769036/6		8015C GLY		1 mL		10 uL	10 uL		
LCSD 680-769036/7		8015C GLY		1 mL		10 uL	10 uL		
MB 680-769036/12		8015C GLY		1 mL		10 uL			
580-124965-A-1	AF-RHMW10-WGN01L F-2303W2	8015C GLY	T	1 mL		10 uL			
580-124965-A-2	AF-RHMW16-WGN01L F-2303W2	8015C GLY	T	1 mL		10 uL			
580-124965-A-2 MS	AF-RHMW16-WGN01L F-2303W2	8015C GLY	T	1 mL		10 uL	10 uL		
580-124965-A-2 MSD	AF-RHMW16-WGN01L F-2303W2	8015C GLY	T	1 mL		10 uL	10 uL		
580-124965-A-3	AF-HDMW225303-WG N01LF-2303W2	8015C GLY	T	1 mL		10 uL			
580-124965-A-4	AF-HDMW12A-WGN01 LF-2303W2	8015C GLY	T	1 mL		10 uL			
580-124965-A-5	AF-HDMW12A-WGFD0 1LF-2303W2	8015C GLY	T	1 mL		10 uL			
CCV 680-769036/27		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

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.

# Subcontract Data

# Shipping and Receiving Documents



**Chain of Custody Record**

Unit: Air Anal. 016 6257 8843

<b>Client Information</b> Company: AECOM Address: 1001 Bishop St, Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Lab Pkt: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Phone: 856-938-7770 PWSID:		Carrier Tracking No(s): 2303W2AFE03 State of Origin: Hawaii Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): <b>Rush - ASAP</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		<b>Analysis Requested</b>			
Sample Identification AF-RHMW10-WGN01LF-2303W2		Sample Date 3/14/23	Sample Time 12:55	Sample Type (C=Comp, G=grab) G	Matrix (H=Hair, O=Oral, S=Soil, T=Tissue, Ur=Urine) W
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A		Total Number of Containers <input checked="" type="checkbox"/> 3	
Special Instructions/Note:		Special Instructions/Note:			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: DOD QSM project.			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: Olivia Shively		Date: 3/14/23		Received by: James Mason	
Relinquished by: James Mason		Date: 3/15/23		Received by: Paul Kallied	
Relinquished by:		Date:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.2/1.2	

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

United AFB 22578843

<b>Client Information</b> Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Lab Piv: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii Carrier Tracking No(s): FedEx COC No: 2303W2AFEAO6 Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): <b>Rush - ASAP</b> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Analysis Requested 8015C_DAL_GL_DS/2-(2-butylethoxy)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Total Number of Containers <input checked="" type="checkbox"/> 3 Special Instructions/Note:	
Sample Identification Sample Date: 05/13/23 Sample Time: 1430 Sample Type (C=Comp, G=grab): G Matrix (Water, Solid, Oil, etc.): W Preservation Code:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCAAA W - pH 4-5 X - EDTA L - EDA Other:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: <i>GA...</i> Relinquished by: <i>Alex Edwards</i> Relinquished by: <i>Alex Edwards</i> Relinquished by:		Received by: <i>Alex Edwards</i> Received by: <i>Paul Edwards</i> Received by:	
Date/Time: 03/15/23 Date/Time: 3/15/23 Date/Time:		Date/Time: 3/13/23 Date/Time: 3/16/23 Date/Time:	
Company: AECOM Company: AECOM Company: AECOM Company:		Company: AECOM Company: AECOM Company: AECOM Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1-2/1-2	

### Chain of Custody Record

016-62577743

<b>Client Information</b> Client Contact: <b>Olivia Shively</b> Phone: 856-938-7710 PWSID:		Lab Piv: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): 2303W2AFE04 State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): <b>Rush - ASAP</b>			<b>Analysis Requested</b>		
Compliance Project: $\Delta$ Yes $\Delta$ No		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Ice V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:			
PO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Project #: 60697810		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
SSOV#:		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aeacom.com / Mark.Kromis@aeacom.com Project Name: CTO N6274223F0104 Site: RH5F		Sample Date: 3/14/23 Sample Time: 1040 Sample Type (C=Comp, G=grab) G Preservation Code: W		8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol A Total Number of Containers 3	
Sample Identification: AF-HDMW225303-WGN01LF-2303W2		Special Instructions/Note:			
<p><b>Possible Hazard Identification</b></p> <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					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: <b>Olivia Shively</b> Relinquished by: <b>James Mason</b> Relinquished by:					
Date/Time: 3/14/23 1500 Date/Time: 3/18/23 1400 Date/Time:		Date/Time: 3/14/23 1500 Date/Time: 3/16/23 1300 Date/Time:		Company: AECOM Company: AECOM Company:	
Relinquished by:		Method of Shipment:			
Custody Seal No.: $\Delta$ Yes $\Delta$ No		Cooler Temperature(s) °C and Other Remarks: 1.2/1.2			

**Chain of Custody Record**

016-6257843

<b>Client Information</b> Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com PWSID:		Sample: <i>GABRIEL ALON</i> Phases: <i>008-639-8434</i> Carrier Tracking No(s): <i>71572</i> State of Origin: Hawaii Page 1 of 1 Job #:		COC No: 2303W2AFEAO5 Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Due Date Requested: see subcontract TAT Requested (days): <b>Rush - ASAP</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSO#:		Analysis Requested Total Number of Containers: 3 Special Instructions/Note:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)		Special Instructions/Note:	
Sample Date: <i>03/13/23</i> Sample Time: <i>110</i> Sample Type: <i>G</i> Matrix: <i>W</i> Preservation Code:		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> 8015C_DAL_GL_DS/2-butylethoxy-ethanol		Total Number of Containers: 3 Special Instructions/Note:		Special Instructions/Note:	
Sample Identification AF-RHMW12A-WGN01LF-2303W2 RF-RHMW12A-WGFD01LF-2303W2 Of 146		Sample Date: <i>03/13/23</i> Sample Time: <i>1</i> Sample Type: <i>G</i> Matrix: <i>W</i> Preservation Code:		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> 8015C_DAL_GL_DS/2-butylethoxy-ethanol		Total Number of Containers: 3 Special Instructions/Note:	
Possible Hazard Identification <input 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		Sample Date: <i>03/13/23</i> Sample Time: <i>1</i> Sample Type: <i>G</i> Matrix: <i>W</i> Preservation Code:		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> 8015C_DAL_GL_DS/2-butylethoxy-ethanol		Total Number of Containers: 3 Special Instructions/Note:	
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements: DOD GSM project.	
Relinquished by: <i>GABRIEL ALON</i> Relinquished by: <i>ALEX EDWARDS</i> Relinquished by:		Date/Time: <i>03/13/23 1506</i> Date/Time: <i>3/15/23 1400</i> Date/Time:		Date/Time: <i>3/13/23 1300</i> Date/Time: <i>3/17/23 1300</i> Date/Time:		Company: <i>AECOM</i> Company: <i>AECOM</i> Company: <i>ETS SA</i>	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 01/16/2019	

**Chain of Custody Record**

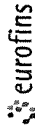


Unit # AWG 016 62578847

<b>Client Information</b>		Sampler: <i>DMG Shively</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): 2303W2AFEA03	COC No: 2303W2AFEA03
Client Contact:		Phone: 856-938-7770	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: AECOM		PWSID		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		TAT Requested (days): Rush - ASAP	
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #:	
State Zip: Hawaii 96813		WO #:		Project #: 60697810	
Phone: 808-954-4512 / 770-331-0794		Email: Watson.Tanji@aeom.com / Mark.Kromis@aeom.com		SSOW#:	
Site: RH5F		Sample Date: 3/11/23 1255		Sample Time: G	
Sample Identification: AF-RHMW10-WGN01LF-2303W2		Sample Type (C=Comp, G=grab): G		Matrix (Water, Solid, On-water/Oil, BT-Tissue, A-Air)	
Sample Date: 3/11/23 1255		Sample Time: G		Preservation Code: W	
Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> No		Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> No		Field Filled Sample (Yes or No): <input checked="" type="checkbox"/> No	
8016C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		A		X	
Total Number of containers: 3		Special Instructions/Note:		580-124965 Chain of Custody	
Possible Hazard Identification: <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		Prelim data (Level 1 or 2) - see TAT above DoD Stage 4-report standard TAT - AECOM-EQUIS EDD.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <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)		Date: 3/14/23		Special Instructions/QC Requirements: DOD QSM project.	
Empty Kit Relinquished by: <i>DMG Shively</i>		Date/Time: 3/15/23 1400		Method of Shipment:	
Relinquished by: <i>James Mason</i>		Date/Time: 3/14/23 1500		Company: AECOM	
Relinquished by: <i>James Mason</i>		Date/Time: 3/16/23 1300		Company: AECOM	
Relinquished by: <i>James Mason</i>		Date/Time: 3/16/23 1300		Company: AECOM	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: 1.2/1.2		Cooler Temperature(s) °C and Other Remarks:	



# Chain of Custody Record



016-62577743

<b>Client Information</b>		Lab PIV: Elaine Walker		COC No: 2303W2AFE04	
Sender: <b>Olga Shively</b>		E-Mail: Elaine Walker@EurofinsET.com		Page: Page 1 of 1	
Address: 1001 Bishop St, Suite 1600		State of Origin: Hawaii		Job #:	
City: Honolulu		PWSID		Analysis Requested	
State, Zip: Hawaii 96813		Due Date Requested: see subcontract		TAT Requested (days): <b>Rush - ASAP</b>	
Phone: 808-954-4512 / 770-331-0794		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #: 60697810		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
Site: RHSF		SSOW#:		1501514123	
<b>Sample Identification</b>		Sample Date		Sample Time	
AF-HDMW225303-WGN01LF-2303W2		3/14/23		1040	
Sample Type (C=Comp, G=grab)		Sample Time		Matrix (W=water, S=solid, O=oil, B=bio, A=air)	
G		1040		W	
Preservation Code:		A		X	
Special Instructions/Note:		Total Number of containers		3	
M - Hexane					
N - None					
O - ASNaO2					
P - Na2O4S					
Q - Na2SO3					
R - NaHSO4					
F - MeOH					
G - Amchlor					
H - Ascorbic Acid					
I - Ice					
J - DI Water					
V - MCAA					
W - pH 4-5					
L - EDTA					
Z - other (specify)					
Other:					
<b>Possible Hazard Identification</b>					
<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 checked="" type="checkbox"/> Radiological					
Deliverable Requested I, II, III IV Other (specify) 4 report standard TAT - AECOM EQMIS EDD.					
Empty Kit Relinquished by: <b>Olga Shively</b> Date: 3/14/23					
Relinquished by: <b>James Mason</b> Date: 3/14/23					
Relinquished by: <b>James Mason</b> Date: 3/18/23					
Relinquished by: <b>James Mason</b> Date: 3/18/23					
Custody Seal No. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Cooler Temperature(s) °C and Other Remarks: 1.2/1.2					

# Chain of Custody Record

016-6237843

<b>Client Information</b> Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com) Project Name: CTO N6274223F0104 Site: RHSF		Lab PM: Elaine Walker E-Mail: Elaine.Walker@EurofinsEI.com PWSID		COG No: 2303W2AFEA05 Page: Page 1 of 1 Job #:	
Due Date Requested (see subcontract) TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSO#:		Carrier Tracking No(s): FedEx UNITED State of Origin: Hawaii		Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification AF-RHMW12A-WGND1LF-2303W2 AF-RHMW12A-WGFD01LF-2303W2 <i>[Handwritten signature]</i> 03/13/23		Sample Date 03/13/23 03/13/23		Sample Type (C=Comp, G=grab) G G	
Matrix (Newwater, Seawater, On-water, Aseptic) W W		Sample Time 110 140		Preservation Code: W W	
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> X 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol		Total Number of Containers 3 3		Special Instructions/Note: <i>[Large handwritten signature and scribbles]</i>	
Possible Hazard Identification <input 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 Deliverable Requested I II III IV, Other (specify) _____ Prelim data (Level 1 or 2)=see TAT above DoD Stage 4 report standard TAT AECOM EQUIS EDD Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements DOD QSM project.					
Empty Kit Relinquished by: <i>GABRIEL ALLEN</i> Relinquished by: <i>[Signature]</i> Relinquished by:		Date: 03/13/23 / 140 Date/Time: 3/13/23 1400 Date/Time:		Date/Time: 3/13/23 1300 Date/Time:	
Company: AECOM Company: AECOM		Company: AECOM Company: AECOM		Company: ETS SA Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No. <i>12/102</i> Cooler Temperature(s) °C and Other Remarks:					



# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-124965-1

**Login Number: 124965**  
**List Number: 1**  
**Creator: Presley, Kim A**

**List Source: Eurofins Seattle**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
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.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-124965-1

**Login Number: 124965**  
**List Number: 2**  
**Creator: Meincke, Griffin E**

**List Source: Eurofins Savannah**  
**List Creation: 03/22/23 12:09 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		