

 **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**

580-128172-1

# Eurofins Seattle

## Job Notes

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

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

## Authorization



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# Definitions/Glossary

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

Job ID: 580-128172-1

## Qualifiers

### GC Semi VOA

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

## Glossary

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

## CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling  
Report Number: 580-128172-1

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.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs 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

Six samples were received on 6/10/2023 9:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.0° 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-RHMW17-WGN01LF-2306 (580-128172-1), AF-RHMW17D-WGN01LF-2306 (580-128172-2), AF-RHMW17D-WQFB01-2306 (580-128172-3), AF-RHMW17S-WGN01LF-2306 (580-128172-4), AF-RHMW17S-WQEB01-2306 (580-128172-5) and AF-RHMW225401-WGN01B-2306 (580-128172-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI.** The samples were analyzed on 06/14/2023.

The continuing calibration verification (CCV) associated with batch 680-783204 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.

No additional 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: 580-128172-1

**Client Sample ID: AF-RHMW17-WGN01LF-2306**

**Lab Sample ID: 580-128172-1**

No Detections.

**Client Sample ID: AF-RHMW17D-WGN01LF-2306**

**Lab Sample ID: 580-128172-2**

No Detections.

**Client Sample ID: AF-RHMW17D-WQFB01-2306**

**Lab Sample ID: 580-128172-3**

No Detections.

**Client Sample ID: AF-RHMW17S-WGN01LF-2306**

**Lab Sample ID: 580-128172-4**

No Detections.

**Client Sample ID: AF-RHMW17S-WQEB01-2306**

**Lab Sample ID: 580-128172-5**

No Detections.

**Client Sample ID: AF-RHMW225401-WGN01B-2306**

**Lab Sample ID: 580-128172-6**

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: 580-128172-1

**Client Sample ID: AF-RHMW17-WGN01LF-2306**

**Lab Sample ID: 580-128172-1**

Date Collected: 06/08/23 12:00

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 03:57	1

**Client Sample ID: AF-RHMW17D-WGN01LF-2306**

**Lab Sample ID: 580-128172-2**

Date Collected: 06/08/23 10:45

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 05:06	1

**Client Sample ID: AF-RHMW17D-WQFB01-2306**

**Lab Sample ID: 580-128172-3**

Date Collected: 06/08/23 10:10

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 05:29	1

**Client Sample ID: AF-RHMW17S-WGN01LF-2306**

**Lab Sample ID: 580-128172-4**

Date Collected: 06/08/23 09:20

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 05:53	1

**Client Sample ID: AF-RHMW17S-WQEB01-2306**

**Lab Sample ID: 580-128172-5**

Date Collected: 06/08/23 09:45

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 06:16	1

**Client Sample ID: AF-RHMW225401-WGN01B-2306**

**Lab Sample ID: 580-128172-6**

Date Collected: 06/08/23 09:15

Matrix: Water

Date Received: 06/10/23 09:32

**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	5.0	1.1	mg/L			06/14/23 06:39	1



# Default Detection Limits

Client: AECOM

Job ID: 580-128172-1

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: 580-128172-1

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

**Lab Sample ID: MB 680-783204/10**  
**Matrix: Water**  
**Analysis Batch: 783204**

**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	5.0	1.1	mg/L			06/13/23 19:49	1

**Lab Sample ID: LCS 680-783204/5**  
**Matrix: Water**  
**Analysis Batch: 783204**

**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	21.7		mg/L		109	50 - 150

**Lab Sample ID: LCSD 680-783204/6**  
**Matrix: Water**  
**Analysis Batch: 783204**

**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	22.4		mg/L		112	50 - 150	3	50

**Lab Sample ID: 580-128172-1 MS**  
**Matrix: Water**  
**Analysis Batch: 783204**

**Client Sample ID: AF-RHMW17-WGN01LF-2306**  
**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	20.0	27.4		mg/L		137	50 - 150

**Lab Sample ID: 580-128172-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 783204**

**Client Sample ID: AF-RHMW17-WGN01LF-2306**  
**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	20.0	27.3		mg/L		137	50 - 150	0	50

# QC Association Summary

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

Job ID: 580-128172-1

## GC Semi VOA

### Analysis Batch: 783204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-128172-1	AF-RHMW17-WGN01LF-2306	Total/NA	Water	8015C GLY	
580-128172-2	AF-RHMW17D-WGN01LF-2306	Total/NA	Water	8015C GLY	
580-128172-3	AF-RHMW17D-WQFB01-2306	Total/NA	Water	8015C GLY	
580-128172-4	AF-RHMW17S-WGN01LF-2306	Total/NA	Water	8015C GLY	
580-128172-5	AF-RHMW17S-WQEB01-2306	Total/NA	Water	8015C GLY	
580-128172-6	AF-RHMW225401-WGN01B-2306	Total/NA	Water	8015C GLY	
MB 680-783204/10	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-783204/5	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-783204/6	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-128172-1 MS	AF-RHMW17-WGN01LF-2306	Total/NA	Water	8015C GLY	
580-128172-1 MSD	AF-RHMW17-WGN01LF-2306	Total/NA	Water	8015C GLY	

# Lab Chronicle

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

Job ID: 580-128172-1

**Client Sample ID: AF-RHMW17-WGN01LF-2306**

**Lab Sample ID: 580-128172-1**

Date Collected: 06/08/23 12:00

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 03:57

**Client Sample ID: AF-RHMW17D-WGN01LF-2306**

**Lab Sample ID: 580-128172-2**

Date Collected: 06/08/23 10:45

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 05:06

**Client Sample ID: AF-RHMW17D-WQFB01-2306**

**Lab Sample ID: 580-128172-3**

Date Collected: 06/08/23 10:10

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 05:29

**Client Sample ID: AF-RHMW17S-WGN01LF-2306**

**Lab Sample ID: 580-128172-4**

Date Collected: 06/08/23 09:20

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 05:53

**Client Sample ID: AF-RHMW17S-WQEB01-2306**

**Lab Sample ID: 580-128172-5**

Date Collected: 06/08/23 09:45

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 06:16

**Client Sample ID: AF-RHMW225401-WGN01B-2306**

**Lab Sample ID: 580-128172-6**

Date Collected: 06/08/23 09:15

Matrix: Water

Date Received: 06/10/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	783204	DBM	EET SAV	06/14/23 06:39

## Laboratory References:

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

# Accreditation/Certification Summary

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

Job ID: 580-128172-1

## Laboratory: Eurofins Savannah

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

# Method Summary

Client: AECOM

Job ID: 580-128172-1

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: 580-128172-1

Project/Site: Red Hill - AFFF Assessment Sampling

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
580-128172-1	AF-RHMW17-WGN01LF-2306	Water	06/08/23 12:00	06/10/23 09:32
580-128172-2	AF-RHMW17D-WGN01LF-2306	Water	06/08/23 10:45	06/10/23 09:32
580-128172-3	AF-RHMW17D-WQFB01-2306	Water	06/08/23 10:10	06/10/23 09:32
580-128172-4	AF-RHMW17S-WGN01LF-2306	Water	06/08/23 09:20	06/10/23 09:32
580-128172-5	AF-RHMW17S-WQEB01-2306	Water	06/08/23 09:45	06/10/23 09:32
580-128172-6	AF-RHMW225401-WGN01B-2306	Water	06/08/23 09:15	06/10/23 09:32

## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Instrument ID: CVGG2 Analysis Batch Number: 780821Lab Sample ID: IC 680-780821/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 19:09 Lab File ID: GE27004.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Hydroxy-4-methyl-2-pentanone	2.24	Incomplete Integration	SK9U	05/30/23 10:42
2-Butoxyethanol	2.37	Incomplete Integration	SK9U	05/30/23 10:42
n-Heptyl Alcohol	2.59	Incomplete Integration	SK9U	05/30/23 10:42
Propylene glycol	3.88	Baseline Smoothing	SK9U	05/30/23 10:47
Ethylene glycol	4.16	Baseline Smoothing	SK9U	05/30/23 10:48
Triethylene Glycol	9.73	Incomplete Integration	SK9U	05/30/23 10:42
Tetraethylene Glycol	10.56	Incomplete Integration	SK9U	05/30/23 10:42

Lab Sample ID: IC 680-780821/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 19:32 Lab File ID: GE27005.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Hydroxy-4-methyl-2-pentanone	2.25	Incomplete Integration	SK9U	05/30/23 10:41
2-Butoxyethanol	2.37	Incomplete Integration	SK9U	05/30/23 10:41
n-Heptyl Alcohol	2.59	Incomplete Integration	SK9U	05/30/23 10:41
Propylene glycol	3.88	Split Peak	SK9U	05/30/23 10:47
Ethylene glycol	4.16	Split Peak	SK9U	05/30/23 10:47

Lab Sample ID: IC 680-780821/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 19:55 Lab File ID: GE27006.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Hydroxy-4-methyl-2-pentanone	2.24	Incomplete Integration	SK9U	05/30/23 10:41
2-Butoxyethanol	2.37	Incomplete Integration	SK9U	05/30/23 10:41
n-Heptyl Alcohol	2.59	Incomplete Integration	SK9U	05/30/23 10:40
Propylene glycol	3.87	Incomplete Integration	SK9U	05/30/23 10:40
Ethylene glycol	4.15	Incomplete Integration	SK9U	05/30/23 10:40
Tetraethylene Glycol	10.56	Incomplete Integration	SK9U	05/30/23 10:40

8015C GLY



## GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Instrument ID: CVGG2 Analysis Batch Number: 780821Lab Sample ID: ICIS 680-780821/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 20:18 Lab File ID: GE27007.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	2.37	Incomplete Integration	SK9U	05/30/23 10:40
n-Heptyl Alcohol	2.58	Incomplete Integration	SK9U	05/30/23 10:40
Dipropylene Glycol Methyl Ether	3.20	Incomplete Integration	SK9U	05/30/23 10:40
Propylene glycol	3.89	Incomplete Integration	SK9U	05/30/23 10:40
Ethylene glycol	4.16	Split Peak	SK9U	05/30/23 10:47

Lab Sample ID: IC 680-780821/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 20:41 Lab File ID: GE27008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptyl Alcohol	2.59	Incomplete Integration	SK9U	05/30/23 10:39
Dipropylene Glycol Methyl Ether	3.19	Incomplete Integration	SK9U	05/30/23 10:39
Propylene glycol	3.89	Incomplete Integration	SK9U	05/30/23 10:39
Ethylene glycol	4.16	Split Peak	SK9U	05/30/23 10:46

Lab Sample ID: IC 680-780821/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/27/23 21:04 Lab File ID: GE27009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	2.37	Incomplete Integration	SK9U	05/30/23 10:38
n-Heptyl Alcohol	2.58	Incomplete Integration	SK9U	05/30/23 10:38
Dipropylene Glycol Methyl Ether	3.20	Incomplete Integration	SK9U	05/30/23 10:38
Propylene glycol	3.99	Incomplete Integration	SK9U	05/30/23 10:39
Ethylene glycol	4.16	Incomplete Integration	SK9U	05/30/23 10:39
Tetraethylene Glycol	10.56	Incomplete Integration	SK9U	05/30/23 10:38

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Instrument ID: CVGG2 Analysis Batch Number: 780821

Lab Sample ID: IC 680-780821/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/27/23 21:27 Lab File ID: GE27010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dipropylene Glycol Methyl Ether	3.20	Split Peak	SK9U	05/30/23 10:37
Propylene glycol	3.99	Incomplete Integration	SK9U	05/30/23 10:38
Ethylene glycol	4.16	Baseline Smoothing	SK9U	05/30/23 10:37
2-(2-Butoxyethoxy)ethanol	5.68	Baseline Smoothing	SK9U	05/30/23 10:37
Tetraethylene Glycol	10.56	Split Peak	SK9U	05/30/23 10:36

Lab Sample ID: ICV 680-780821/11 CCV Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/27/23 21:51 Lab File ID: GE27011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dipropylene Glycol Methyl Ether	3.20	Baseline Smoothing	SK9U	05/30/23 10:52
Propylene glycol	3.88	Baseline Smoothing	SK9U	05/30/23 10:52
Ethylene glycol	4.16	Baseline Smoothing	SK9U	05/30/23 10:52
2,2'-Oxybisethanol	7.80	Baseline Smoothing	SK9U	05/30/23 10:50
Triethylene Glycol	9.72	Baseline Smoothing	SK9U	05/30/23 10:50

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Instrument ID: CVGG2 Analysis Batch Number: 783204

Lab Sample ID: CCVIS 680-783204/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/13/23 17:29 Lab File ID: GF12004.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	1.85	Sample matrix interference	SFL9	06/13/23 17:58
4-Hydroxy-4-methyl-2-pentanone	2.20	Baseline Smoothing	SFL9	06/13/23 17:59
Dipropylene Glycol Methyl Ether	3.08	Sample matrix interference	SFL9	06/13/23 17:58
Propylene glycol	3.72	Sample matrix interference	SFL9	06/13/23 17:58
Ethylene glycol	4.00	Sample matrix interference	SFL9	06/13/23 17:58
2-(2-Butoxyethoxy)ethanol	5.48	Sample matrix interference	SFL9	06/13/23 17:58
2,2'-Oxybisethanol	7.56	Sample matrix interference	SFL9	06/13/23 17:58

Lab Sample ID: 580-128172-3 Client Sample ID: AF-RHMW17D-WQFB01-2306

Date Analyzed: 06/14/23 05:29 Lab File ID: GF12035.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	AR8P	06/14/23 15:09

Lab Sample ID: 580-128172-5 Client Sample ID: AF-RHMW17S-WQEB01-2306

Date Analyzed: 06/14/23 06:16 Lab File ID: GF12037.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	AR8P	06/14/23 15:09

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00051	08/08/23		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
SG_GLY_ISTD_00115	08/24/23		Agilent, Lot 0006738806			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
SG_GLY_ISTD_00119	06/12/25		Agilent, Lot 0006738806			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00058	07/01/23		o2si, Lot 454407			(Purchased Reagent)	2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

---

**SG\_Gly\_CAL\_00051**



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

# 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.

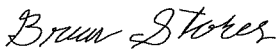
## Expiration Information:

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

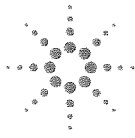
Quality Control Team Lead



Reagent

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**SG\_GLY\_ISTD\_00115**



**Agilent**

Trusted Answers

**ISO 17034**

**Reference Material Certificate  
Product Information Sheet**

**Product Name:** Custom Standard

**Lot Number:** 0006738806

**Product Number:** CUS-6046

**Lot Issue Date:** 05-Apr-2023

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

**Expiration Date:** 31-May-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
n-heptanol	5008	± 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 (RM) 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. Purity values are taken from approved vendor raw material certificates.

**Traceability:**

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

**Homogeneity:**

This analytical reference (RM) 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:**

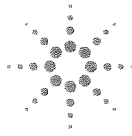
Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

**Intended Use:**

This analytical reference (RM) 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 (RM) 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.



**Agilent**

Trusted Answers

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

---

**Sample lot approver:**

Monica Bourgeois

QMS Representative



ISO 17034 Cert  
No. AR-1936

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

Page: 2 of 2

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

CSD-QA-015.1

ISO 17025

Reagent

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**SG\_GLY\_ISTD\_00119**

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

**Product Name:** Custom Standard

**Lot Number:** 0006738806

**Product Number:** CUS-6046

**Lot Issue Date:** 05-Apr-2023

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

**Expiration Date:** 31-May-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
n-heptanol	5008	± 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 (RM) 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. Purity values are taken from approved vendor raw material certificates.

**Traceability:**

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

**Homogeneity:**

This analytical reference (RM) 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 (RM) 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 (RM) 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 17034 Cert  
No. AR-1936

ISO 17025

Reagent

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**SG\_GlyICV\_00058**



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

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: ≤ -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

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

Manufactured By:

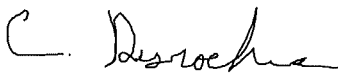


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

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# Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

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

## Expiration Information:

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

## Quality Standard Documentation:

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

**Manufactured By:**

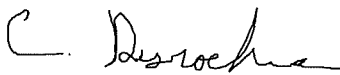


Jared Ball

1 -Jul-2021

**Quality Control Chemist I**

**Certified By:**

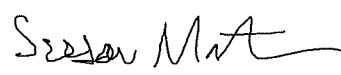


Claire Desrochers

7 -Jul-2021

**Quality Control Chemist I**

**Released By:**



Susan Mathews

8 -Jul-2021

**Quality Control Team Lead**

7290B Investment Drive • North Charleston, SC 29418  
Phone: 866.272.0932 • Fax: 866.509.5146 www.o2si.com

# 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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: GF12005.D  
 Lab ID: LCS 680-783204/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	21.7	109	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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: GF12006.D  
 Lab ID: LCSD 680-783204/6 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	22.4	112	3	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.: 580-128172-1

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

Matrix: Water Level: Low Lab File ID: GF12032.D

Lab ID: 580-128172-1 MS Client ID: AF-RHMW17-WGN01LF-2306 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	27.4	137	50-150	

# Column to be used to flag recovery and RPD values

FORM III  
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Matrix: Water Level: Low Lab File ID: GF12033.D

Lab ID: 580-128172-1 MSD Client ID: AF-RHMW17-WGN01LF-2306 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	27.3	137	0	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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 680-783204/10  
 Matrix: Water Date Extracted: \_\_\_\_\_  
 Lab File ID: (1) GF12010.D Lab File ID: (2) \_\_\_\_\_  
 Date Analyzed: (1) 06/13/2023 19:49 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 680-783204/5	06/13/2023 17:53	
	LCSD 680-783204/6	06/13/2023 18:16	
AF-RHMW17-WGN01LF-2306	580-128172-1	06/14/2023 03:57	
AF-RHMW17-WGN01LF-2306 MS	580-128172-1 MS	06/14/2023 04:20	
AF-RHMW17-WGN01LF-2306 MSD	580-128172-1 MSD	06/14/2023 04:43	
AF-RHMW17D-WGN01LF-2306	580-128172-2	06/14/2023 05:06	
AF-RHMW17D-WQFB01-2306	580-128172-3	06/14/2023 05:29	
AF-RHMW17S-WGN01LF-2306	580-128172-4	06/14/2023 05:53	
AF-RHMW17S-WQEB01-2306	580-128172-5	06/14/2023 06:16	
AF-RHMW225401-WGN01B-2306	580-128172-6	06/14/2023 06:39	



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

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 680-783204/4 Date Analyzed: 06/13/2023 17:29  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)  
 Lab File ID (Standard): GF12004.D Heated Purge: (Y/N) N  
 Calibration ID: 91126

	nHPA		#	RT #	#	RT #
	AREA #	RT #				
12/24 HOUR STD	4384489	2.50				
UPPER LIMIT	8768978	3.00				
LOWER LIMIT	2192245	2.00				
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 680-783204/5		4506564	2.50			
LCSD 680-783204/6		4482277	2.50			
MB 680-783204/10		4170660	2.50			
CCV 680-783204/18		4336530	2.49			
CCV 680-783204/29		4243503	2.49			
CCV 680-783204/40		3876156	2.49			

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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW17-WGN01LF-2306 Lab Sample ID: 580-128172-1  
 Matrix: Water Lab File ID: GF12031.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 12:00  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 03:57  
 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.: 783204 Units: mg/L

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

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12031.D  
 Lims ID: 580-128172-C-1  
 Client ID: AF-RHMW17-WGN01LF-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 03:57:46 ALS Bottle#: 0 Worklist Smp#: 31  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-031  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P Date: 14-Jun-2023 11:11:48

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 4 n-Heptyl Alcohol					
2.492	2.493	-0.001	3912730	50.0	
7 Ethylene glycol					
3.978	3.999	-0.021	67009	0.5978	7
LOD = 0.6600					
8 2-(2-Butoxyethoxy)ethanol					
5.466	5.473	-0.007	7259	0.1733	7
LOD = 0.5000					
9 2,2'-Oxybisethanol					
7.557	7.563	-0.006	43065	2.58	
10 Triethylene Glycol					
9.650	9.651	-0.001	55064	3.36	
11 Tetraethylene Glycol					
10.483	10.484	-0.001	66750	4.10	7
LOD = 4.50					

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12031.D

Injection Date: 14-Jun-2023 03:57:46

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-C-1

Lab Sample ID: 680-128172-1

Worklist Smp#: 31

Client ID: AF-RHMW17-WGN01LF-2306

Injection Vol: 1.0 ul

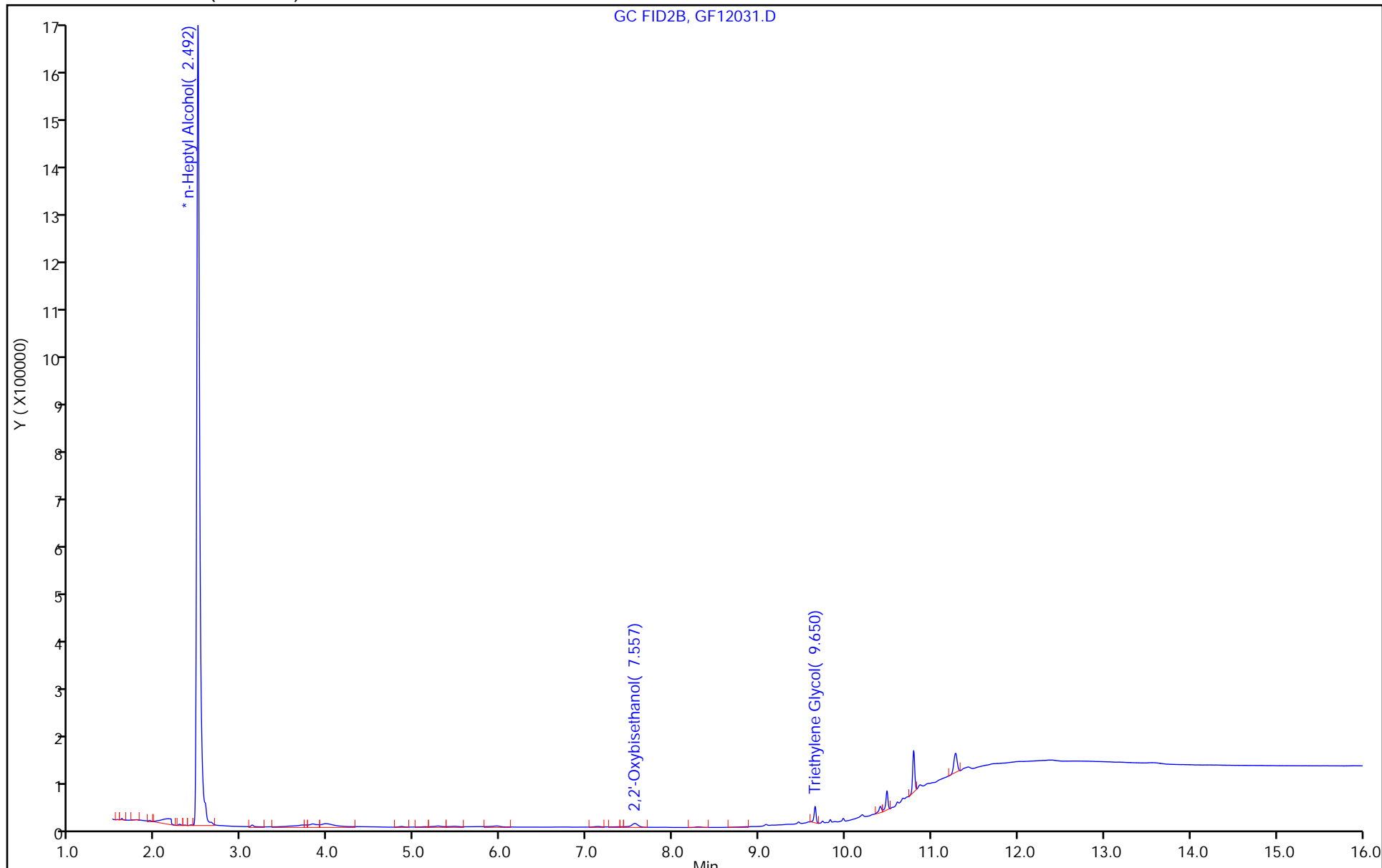
Dil. Factor: 1.0000

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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW17D-WGN01LF-2306 Lab Sample ID: 580-128172-2  
 Matrix: Water Lab File ID: GF12034.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 10:45  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 05:06  
 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.: 783204 Units: mg/L

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

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12034.D  
 Lims ID: 580-128172-A-2  
 Client ID: AF-RHMW17D-WGN01LF-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 05:06:45 ALS Bottle#: 0 Worklist Smp#: 34  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-034  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 2.492 2.493 -0.001 3781055 50.0  
 8 2-(2-Butoxyethoxy)ethanol 7  
 5.466 5.473 -0.007 8851 0.2186 7  
 LOD = 0.5000

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12034.D

Injection Date: 14-Jun-2023 05:06:45

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-A-2

Lab Sample ID: 680-128172-2

Worklist Smp#: 34

Client ID: AF-RHMW17D-WGN01LF-2306

Injection Vol: 1.0 ul

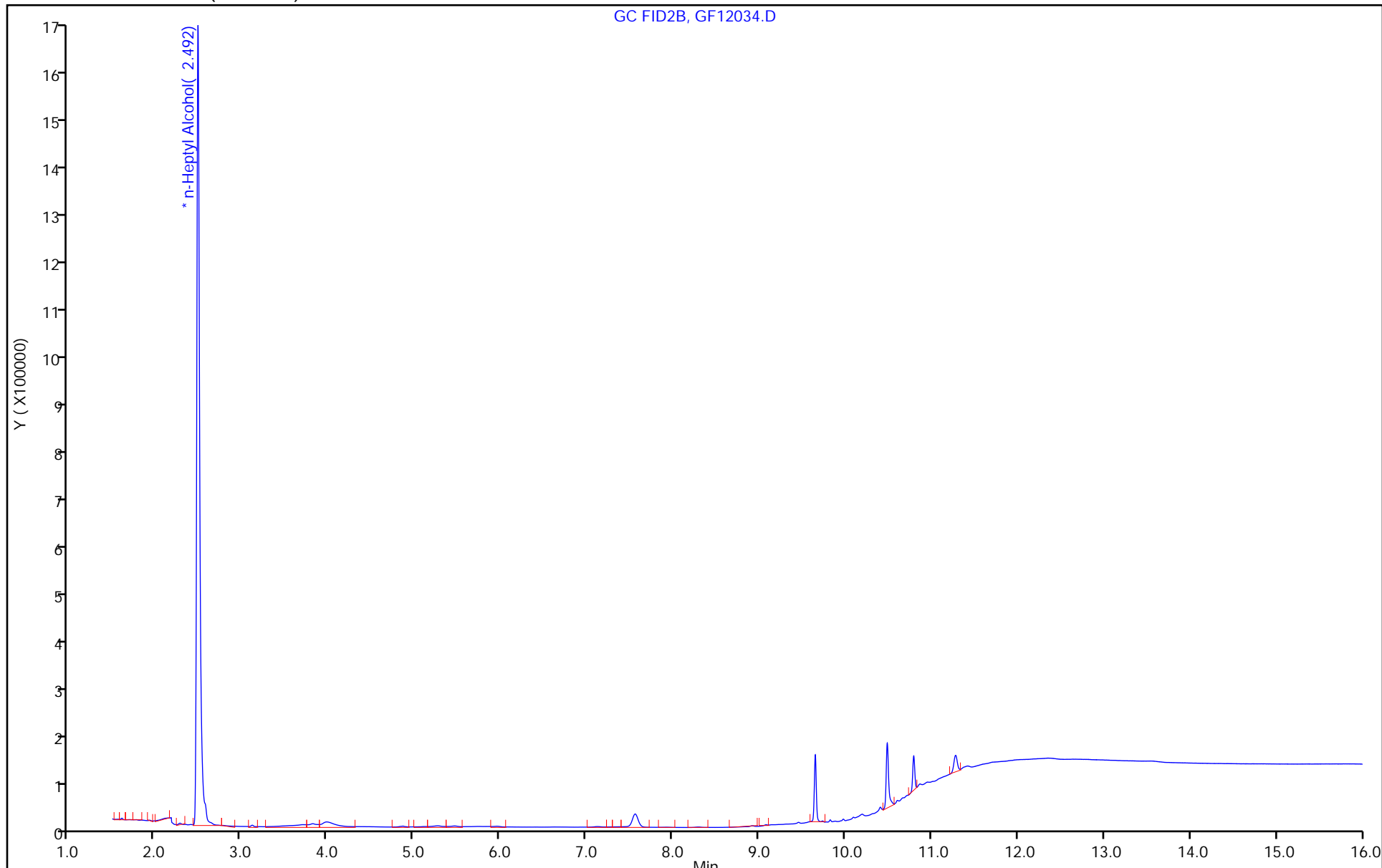
Dil. Factor: 1.0000

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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW17D-WQFB01-2306 Lab Sample ID: 580-128172-3  
 Matrix: Water Lab File ID: GF12035.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 10:10  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 05:29  
 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.: 783204 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\20230612-86698.b\GF12035.D  
 Lims ID: 580-128172-A-3  
 Client ID: AF-RHMW17D-WQFB01-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 05:29:57 ALS Bottle#: 0 Worklist Smp#: 35  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-035  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P Date: 14-Jun-2023 15:09:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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\* 4 n-Heptyl Alcohol  
 2.492 2.493 -0.001 3911099 50.0

**Reagents:**

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12035.D

Injection Date: 14-Jun-2023 05:29:57

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-A-3

Lab Sample ID: 680-128172-3

Worklist Smp#: 35

Client ID: AF-RHMW17D-WQFB01-2306

Injection Vol: 1.0 ul

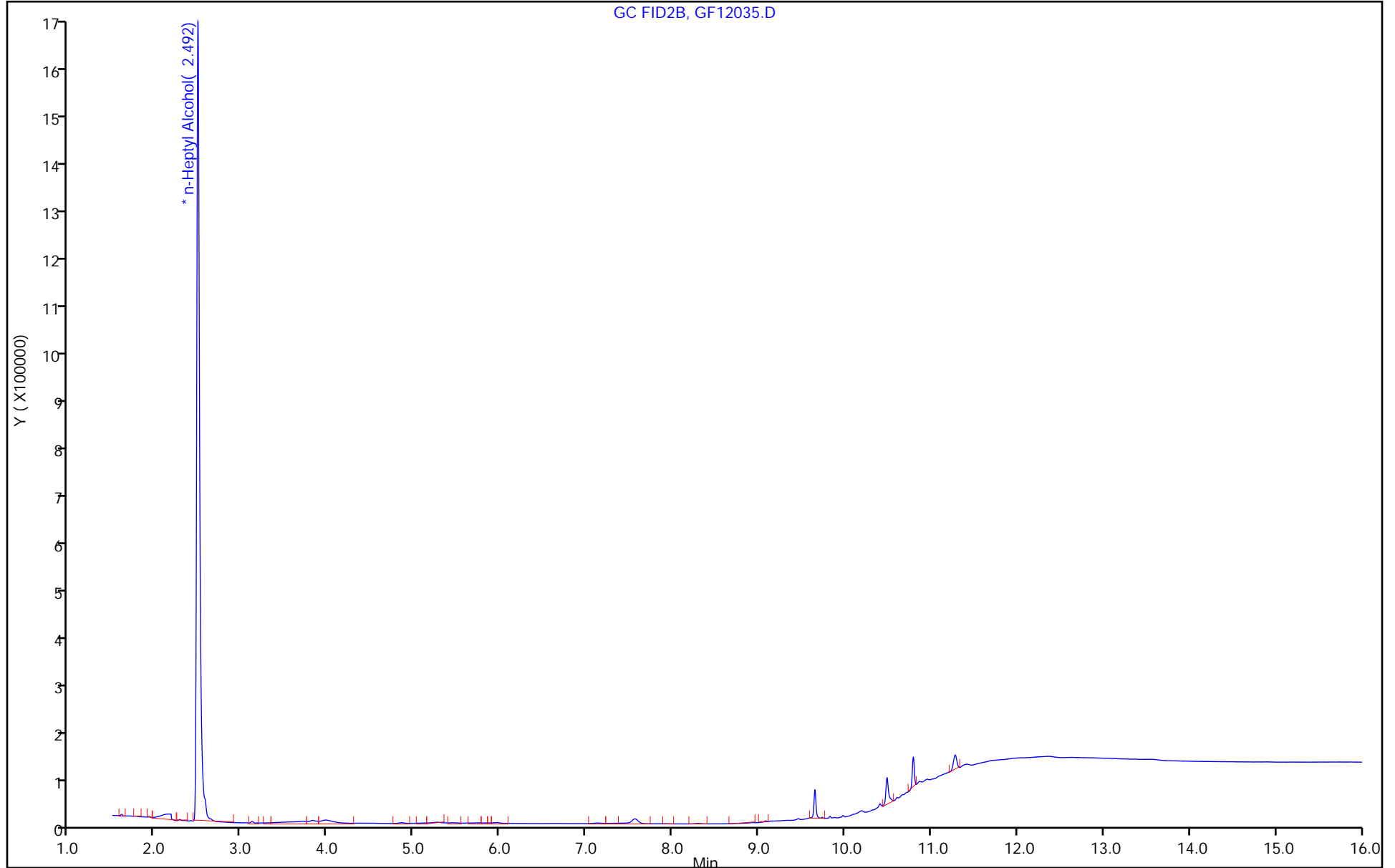
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GF12035.D

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW17S-WGN01LF-2306 Lab Sample ID: 580-128172-4  
 Matrix: Water Lab File ID: GF12036.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 09:20  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 05:53  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 783204 Units: mg/L

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

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12036.D  
 Lims ID: 580-128172-A-4  
 Client ID: AF-RHMW17S-WGN01LF-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 05:53:08 ALS Bottle#: 0 Worklist Smp#: 36  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-036  
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

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

\* 4 n-Heptyl Alcohol  
 2.492 2.493 -0.001 4226421 50.0  
 8 2-(2-Butoxyethoxy)ethanol 7  
 5.438 5.473 -0.035 11961 0.2643 7  
 LOD = 0.5000

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12036.D

Injection Date: 14-Jun-2023 05:53:08

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-A-4

Lab Sample ID: 680-128172-4

Worklist Smp#: 36

Client ID: AF-RHMW17S-WGN01LF-2306

Injection Vol: 1.0 ul

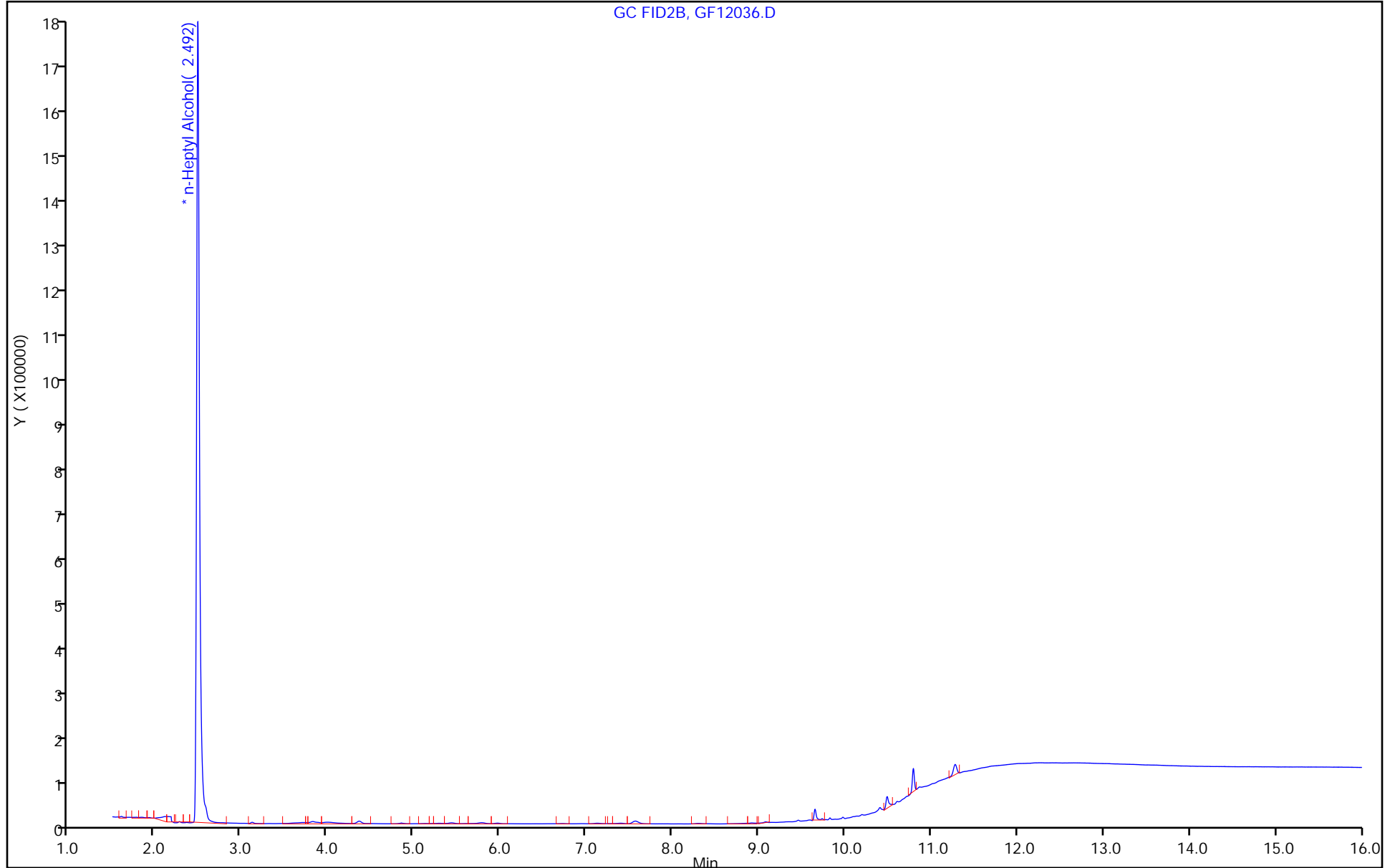
Dil. Factor: 1.0000

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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHWW17S-WQEB01-2306 Lab Sample ID: 580-128172-5  
 Matrix: Water Lab File ID: GF12037.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 09:45  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 06:16  
 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.: 783204 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\20230612-86698.b\GF12037.D  
 Lims ID: 580-128172-B-5  
 Client ID: AF-RHMW17S-WQEB01-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 06:16:24      ALS Bottle#: 0      Worklist Smp#: 37  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0086698-037  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05      Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P      Date: 14-Jun-2023 15:09:43

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

\* 4 n-Heptyl Alcohol  
 2.490    2.493    -0.003    4453811    50.0

**Reagents:**

SG\_GLY\_ISTD\_00119      Amount Added: 10.00      Units: uL      Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12037.D

Injection Date: 14-Jun-2023 06:16:24

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-B-5

Lab Sample ID: 680-128172-5

Worklist Smp#: 37

Client ID: AF-RHMW17S-WQEB01-2306

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

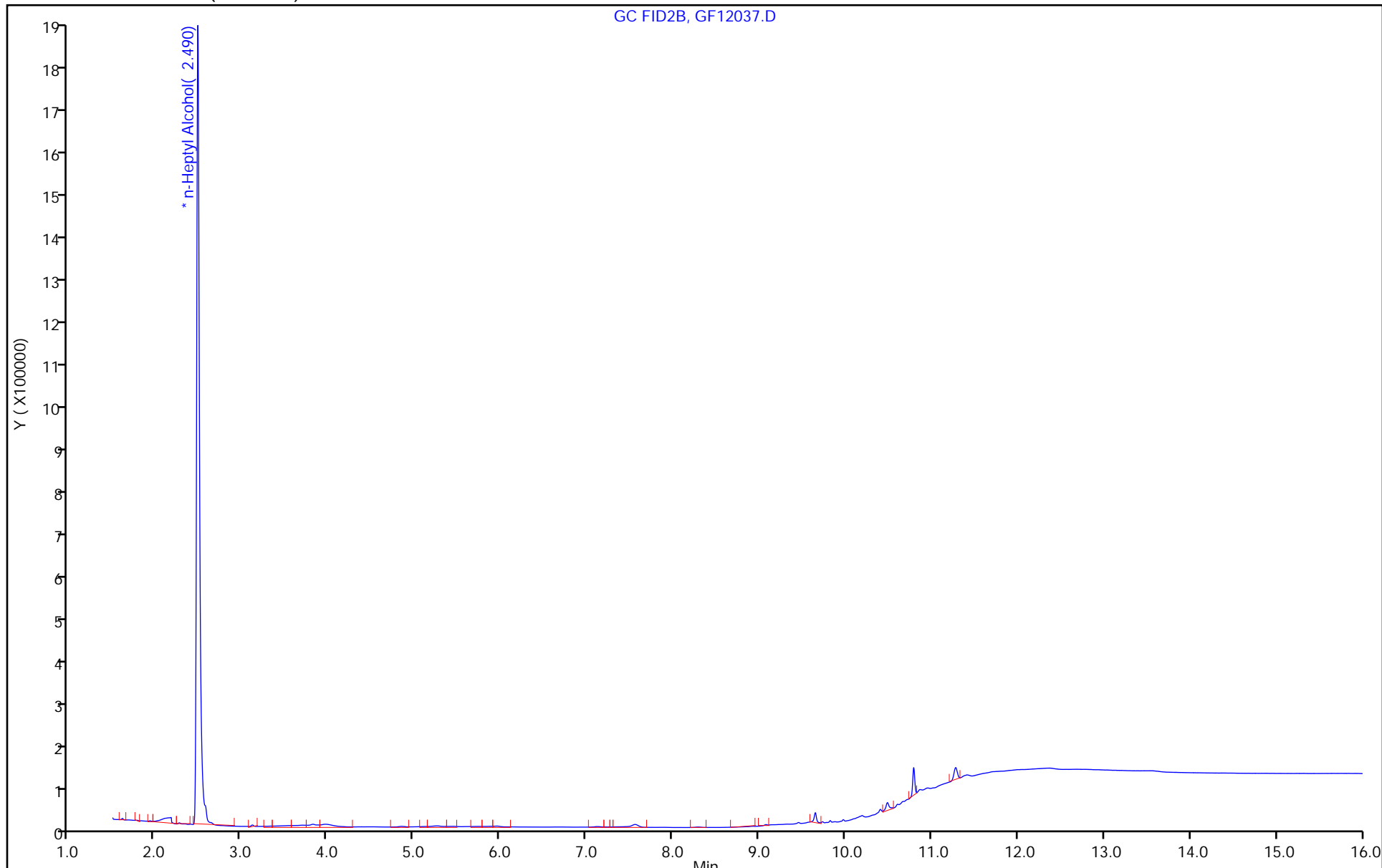
ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, GF12037.D





FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW225401-WGN01B-2306 Lab Sample ID: 580-128172-6  
 Matrix: Water Lab File ID: GF12038.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 09:15  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 06:39  
 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.: 783204 Units: mg/L

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

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12038.D  
 Lims ID: 580-128172-C-6  
 Client ID: AF-RHMW225401-WGN01B-2306  
 Sample Type: Client  
 Inject. Date: 14-Jun-2023 06:39:36 ALS Bottle#: 0 Worklist Smp#: 38  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-038  
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

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

\* 4 n-Heptyl Alcohol  
 2.491 2.493 -0.002 4458431 50.0

Reagents:

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12038.D

Injection Date: 14-Jun-2023 06:39:36

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-C-6

Lab Sample ID: 680-128172-6

Worklist Smp#: 38

Client ID: AF-RHMW225401-WGN01B-2306

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

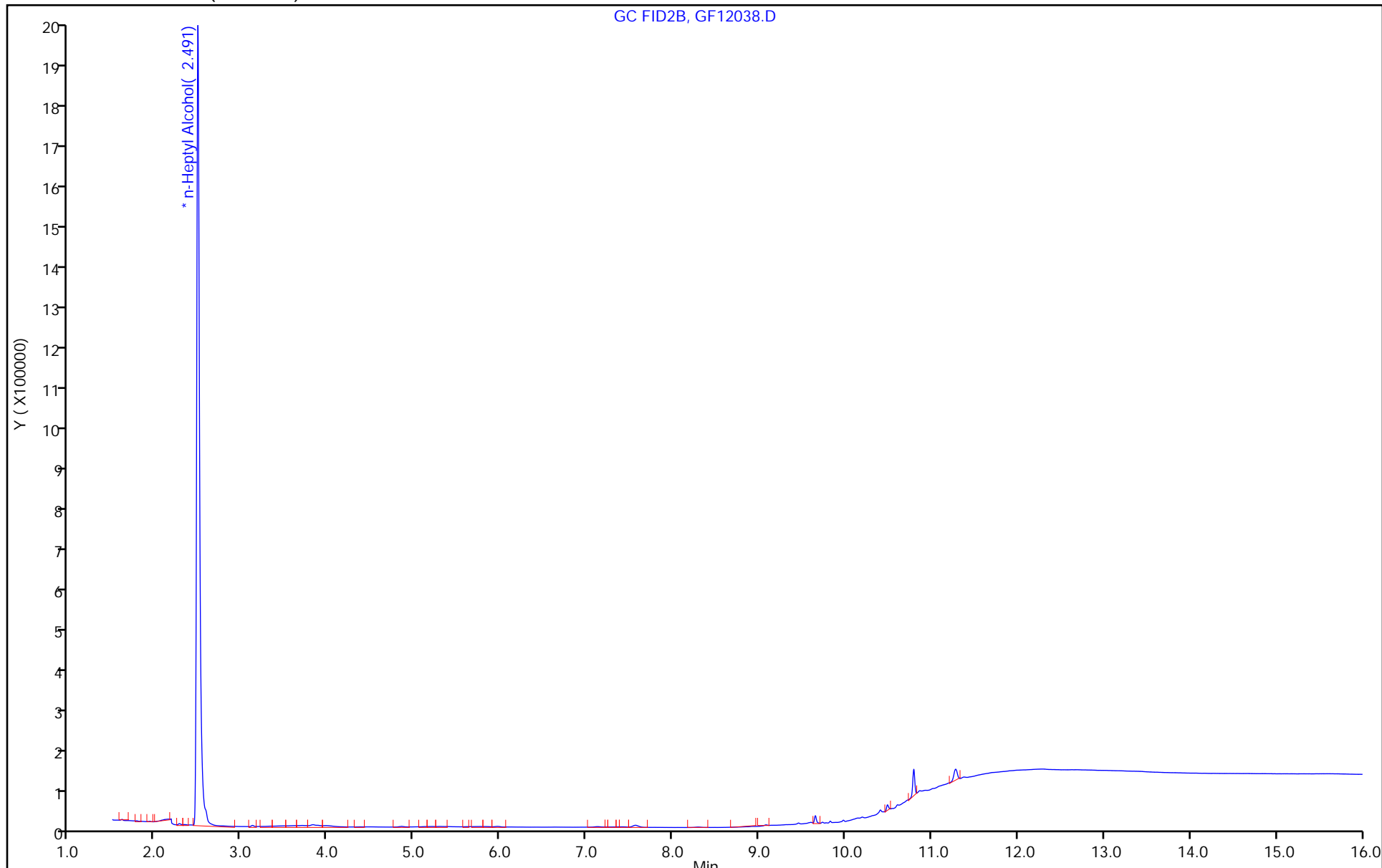
ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, GF12038.D



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

Lab Name: Eurofins Savannah Job No.: 580-128172-1 Analy Batch No.: 780821  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 05/27/2023 19:09 Calibration End Date: 05/27/2023 21:27 Calibration ID: 91126

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-780821/10	GE27010.D
Level 2	IC 680-780821/9	GE27009.D
Level 3	IC 680-780821/8	GE27008.D
Level 4	ICIS 680-780821/7	GE27007.D
Level 5	IC 680-780821/6	GE27006.D
Level 6	IC 680-780821/5	GE27005.D
Level 7	IC 680-780821/4	GE27004.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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Ethanol, 2-propoxy	0.7251 0.6058	0.7904 0.5666	0.7091	0.7251	0.6119	Ave		0.676 3			12.1		20.0				
4-Hydroxy-4-methyl-2-pentanone	0.6821 0.5579	0.6814 0.5173	0.6103	0.6646	0.5471	Ave		0.608 7			11.3		20.0				
2-Butoxyethanol	0.8512 0.6506	0.7983 0.6136	0.7455	0.7595	0.6616	Ave		0.725 8			11.9		20.0				
Dipropylene Glycol Methyl Ether	0.0459 0.0487	0.0564 0.0453	0.0583	0.0599	0.0465	Ave		0.051 6			12.3		20.0				
Propylene glycol	0.2341 0.1879	0.2301 0.1794	0.2094	0.2146	0.1778	LinF		0.183 0						0.9970		0.9900	
Ethylene glycol	++++ 0.3069	0.4303 0.2953	0.3730	0.3612	0.3097	Lin2	0.675 9	0.301 9						0.9970		0.9900	
2-(2-Butoxyethoxy)ethanol	0.6024 0.4867	0.6175 0.4564	0.5375	0.5822	0.4648	Ave		0.535 3			12.5		20.0				
2,2'-Oxybisethanol	++++ 0.2158	0.3007 0.2094	0.2549	0.2574	0.2136	LinF		0.213 4						0.9960		0.9900	
Triethylene Glycol	++++ 0.2112	0.2747 0.2072	0.2392	0.2412	0.2047	LinF		0.209 2						0.9980		0.9900	
Tetraethylene Glycol	++++ 0.2157	0.2841 0.2009	0.2381	0.2498	0.2099	LinF		0.208 2						0.9940		0.9900	

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

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

Lab Name: Eurofins Savannah Job No.: 580-128172-1 Analy Batch No.: 780821

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

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

Calibration Start Date: 05/27/2023 19:09 Calibration End Date: 05/27/2023 21:27 Calibration ID: 91126

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-780821/10	GE27010.D
Level 2	IC 680-780821/9	GE27009.D
Level 3	IC 680-780821/8	GE27008.D
Level 4	ICIS 680-780821/7	GE27007.D
Level 5	IC 680-780821/6	GE27006.D
Level 6	IC 680-780821/5	GE27005.D
Level 7	IC 680-780821/4	GE27004.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	Ave	165979 4995082	429605 5914265	785874	1381185	3097751	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	156134 4600322	370399 5400372	676356	1265970	2769381	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Butoxyethanol	nHPA	Ave	194841 5364455	433909 6405910	826175	1446705	3349347	2.00 80.0	5.00 100	10.0	20.0	50.0
Dipropylene Glycol Methyl Ether	nHPA	Ave	10508 401593	30652 472539	64658	114024	235508	2.00 80.0	5.00 100	10.0	20.0	50.0
Propylene glycol	nHPA	LinF	53578 1549786	125067 1872881	232103	408680	900023	2.00 80.0	5.00 100	10.0	20.0	50.0
Ethylene glycol	nHPA	Lin2	++++ 2530637	233900 3082518	413355	687994	1567945	++++ 80.0	5.00 100	10.0	20.0	50.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	137878 4012990	335653 4764775	595674	1108879	2352877	2.00 80.0	5.00 100	10.0	20.0	50.0
2,2'-Oxybisethanol	nHPA	LinF	++++ 1779832	163465 2185500	282517	490379	1081542	++++ 80.0	5.00 100	10.0	20.0	50.0
Triethylene Glycol	nHPA	LinF	++++ 1741578	149292 2163291	265082	459388	1036349	++++ 80.0	5.00 100	10.0	20.0	50.0
Tetraethylene Glycol	nHPA	LinF	++++ 3557048	308881 4194209	527792	951610	2124929	++++ 160	10.0 200	20.0	40.0	100

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
LinF = Linear ISTD forced zero

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

Lab Name: Eurofins Savannah Job No.: 580-128172-1 Analy Batch No.: 780821

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

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

Calibration Start Date: 05/27/2023 19:09 Calibration End Date: 05/27/2023 21:27 Calibration ID: 91126

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-780821/10	GE27010.D
Level 2	IC 680-780821/9	GE27009.D
Level 3	IC 680-780821/8	GE27008.D
Level 4	ICIS 680-780821/7	GE27007.D
Level 5	IC 680-780821/6	GE27006.D
Level 6	IC 680-780821/5	GE27005.D
Level 7	IC 680-780821/4	GE27004.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	7.2 -16.2	16.9	4.9	7.2	-9.5	-10.4	20 20	20	20	20	20	20
4-Hydroxy-4-methyl-2-pentanone	12.1 -15.0	12.0	0.3	9.2	-10.1	-8.3	20 20	20	20	20	20	20
2-Butoxyethanol	17.3 -15.4	10.0	2.7	4.7	-8.8	-10.4	20 20	20	20	20	20	20
Dipropylene Glycol Methyl Ether	-11.0 -12.2	9.3	13.1	16.1	-9.8	-5.6	20 20	20	20	20	20	20
Ethylene glycol	++++ -4.4	-2.2	1.2	8.5	-1.9	-1.1	20	20	20	20	20	20
2-(2-Butoxyethoxy)ethanol	12.5 -14.7	15.3	0.4	8.7	-13.2	-9.1	20 20	20	20	20	20	20

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
 Lims ID: ic g7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 27-May-2023 19:09:01 ALS Bottle#: 0 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-004  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:19 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 10:42:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.936	1.936	0.000	5914265	100.0	83.8	
2 4-Hydroxy-4-methyl-2-pentanone						
2.244	2.244	0.000	5400372	100.0	85.0	M
3 2-Butoxyethanol						
2.369	2.369	0.000	6405910	100.0	84.6	M
* 4 n-Heptyl Alcohol						
2.590	2.590	0.000	5219516	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.195	3.195	0.000	472539	100.0	87.8	
6 Propylene glycol						
3.880	3.880	0.000	1872881	100.0	98.1	Ma
7 Ethylene glycol						
4.156	4.156	0.000	3082518	100.0	95.6	M
8 2-(2-Butoxyethoxy)ethanol						
5.684	5.684	0.000	4764775	100.0	85.3	
9 2,2'-Oxybisethanol						
7.804	7.804	0.000	2185500	100.0	98.1	
10 Triethylene Glycol						
9.725	9.725	0.000	2163291	100.0	99.1	M
11 Tetraethylene Glycol						
10.558	10.558	0.000	4194209	200.0	193.0	M

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 50.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D

Injection Date: 27-May-2023 19:09:01

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

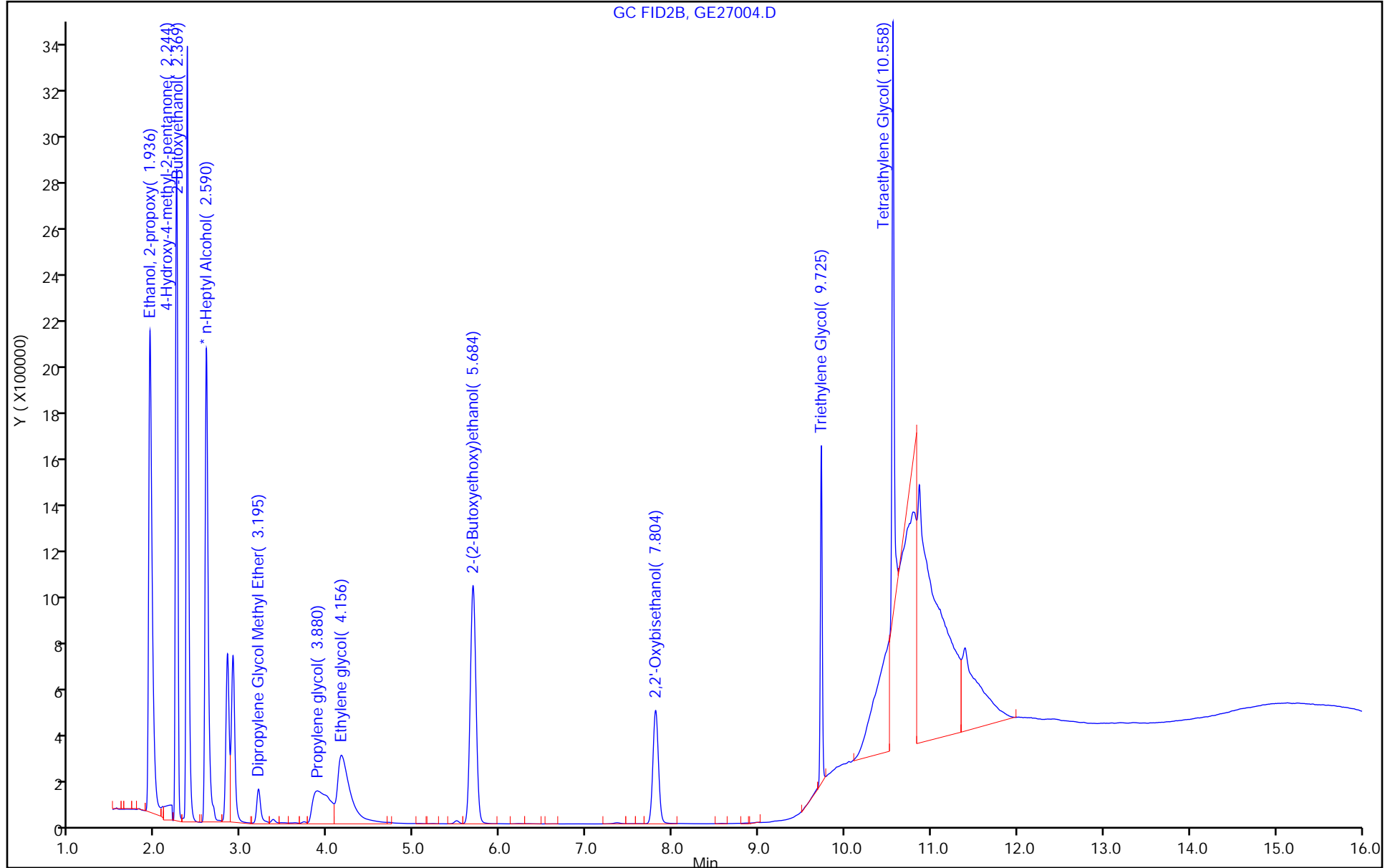
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

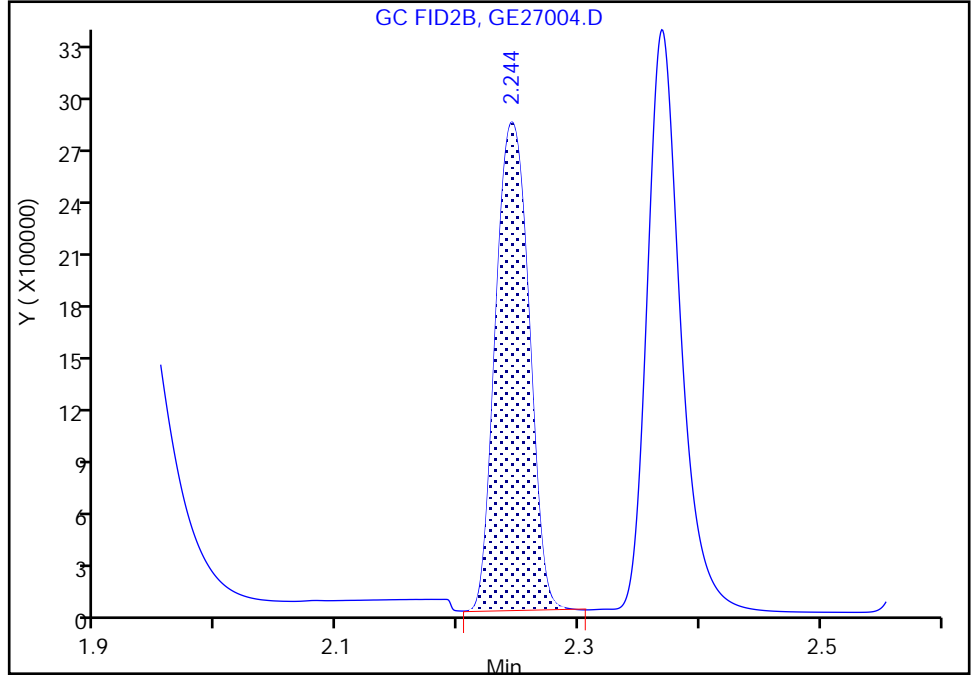
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

2 4-Hydroxy-4-methyl-2-pentanone, CAS: 123-42-2

Signal: 1

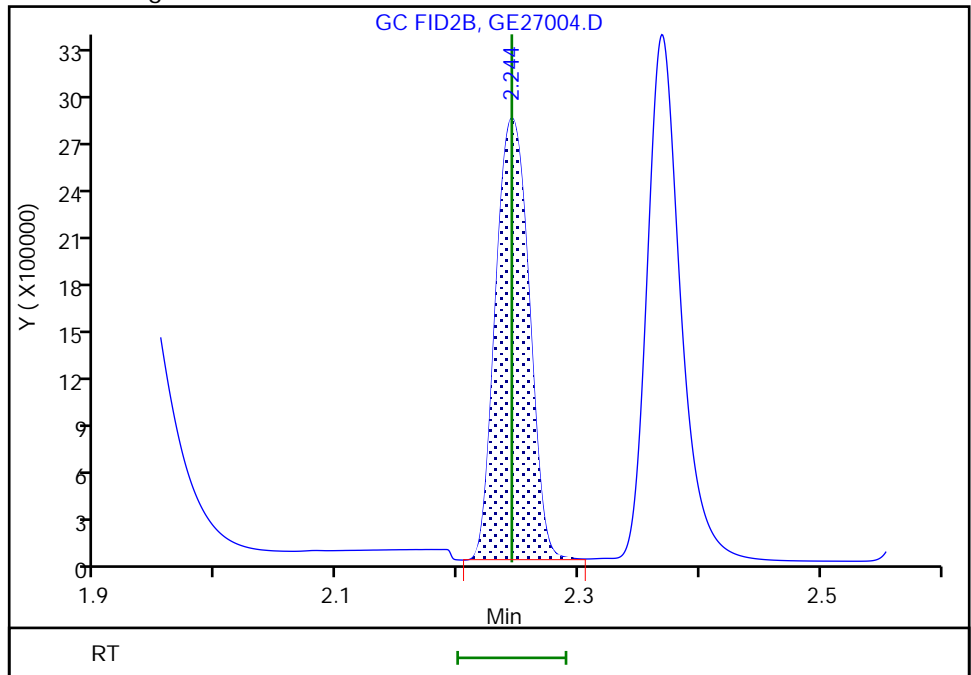
RT: 2.24  
Area: 5377398  
Amount: 84.673321  
Amount Units: ug/ml

Processing Integration Results



RT: 2.24  
Area: 5400372  
Amount: 84.991151  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:42:35 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

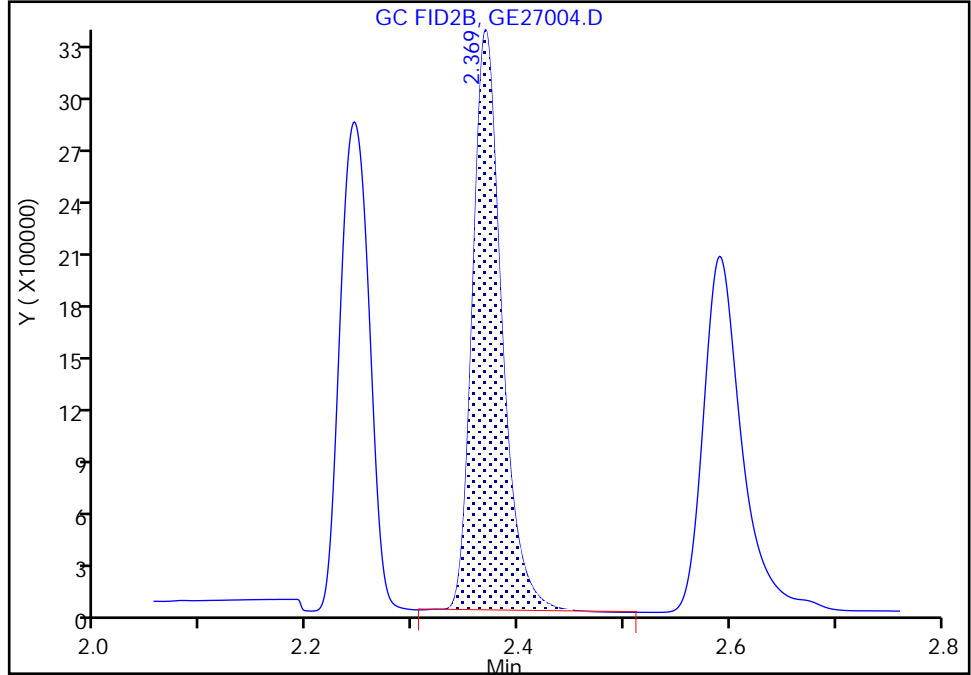
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

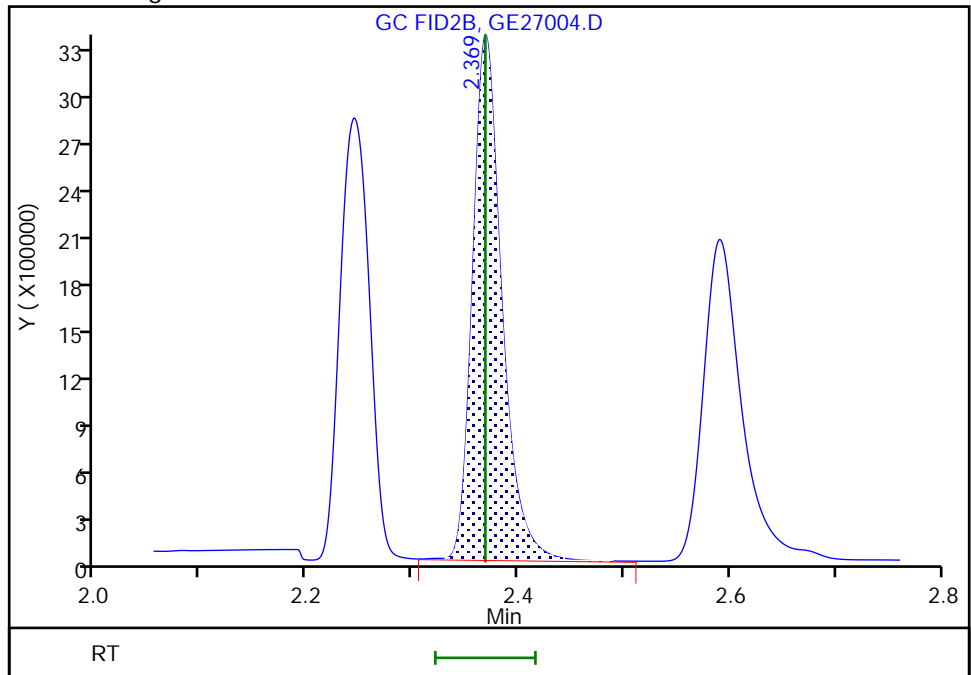
RT: 2.37  
Area: 6356429  
Amount: 83.977564  
Amount Units: ug/ml

Processing Integration Results



RT: 2.37  
Area: 6405910  
Amount: 84.552317  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:42:35 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

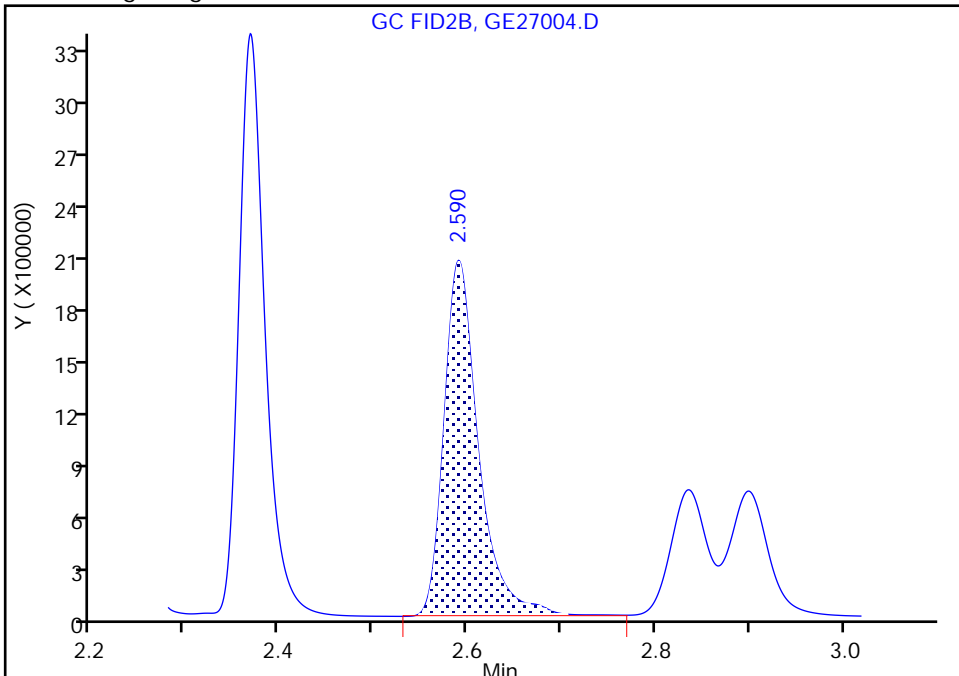
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

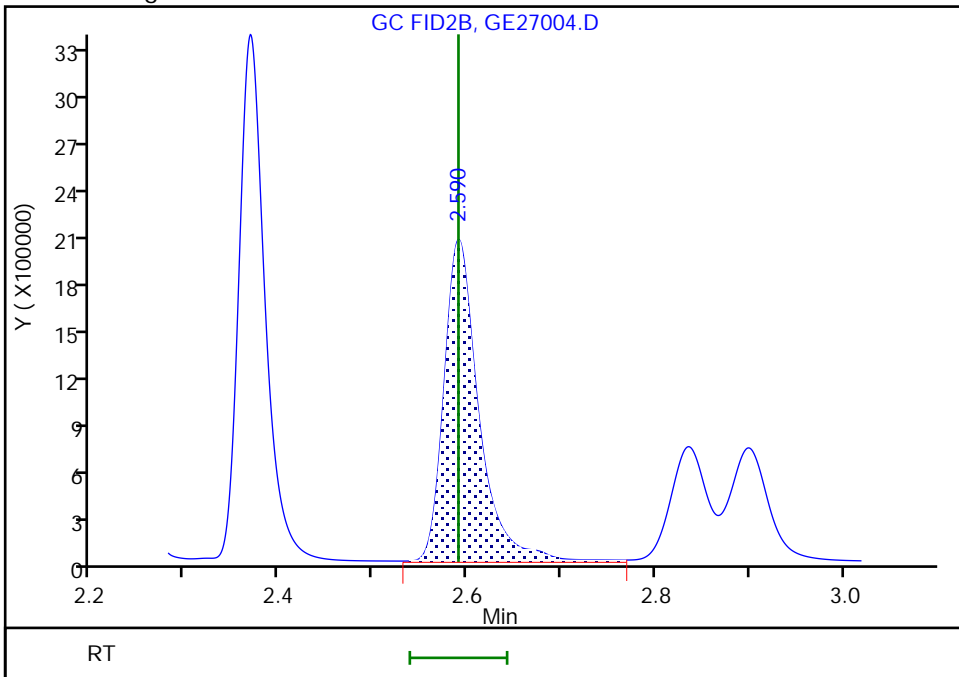
RT: 2.59  
Area: 5164554  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 2.59  
Area: 5219516  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:42:33 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

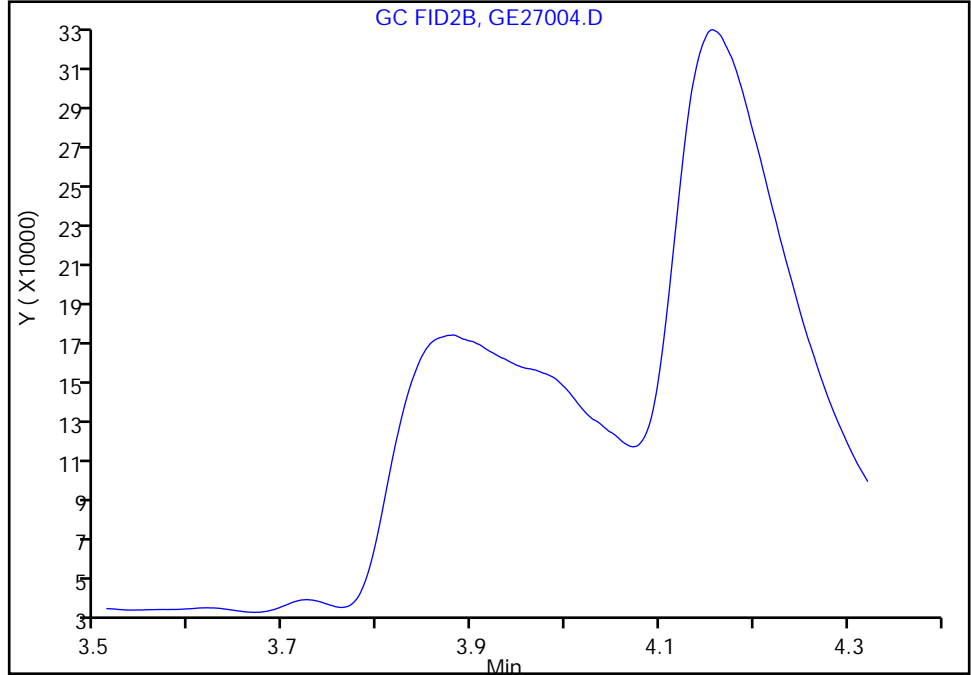
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

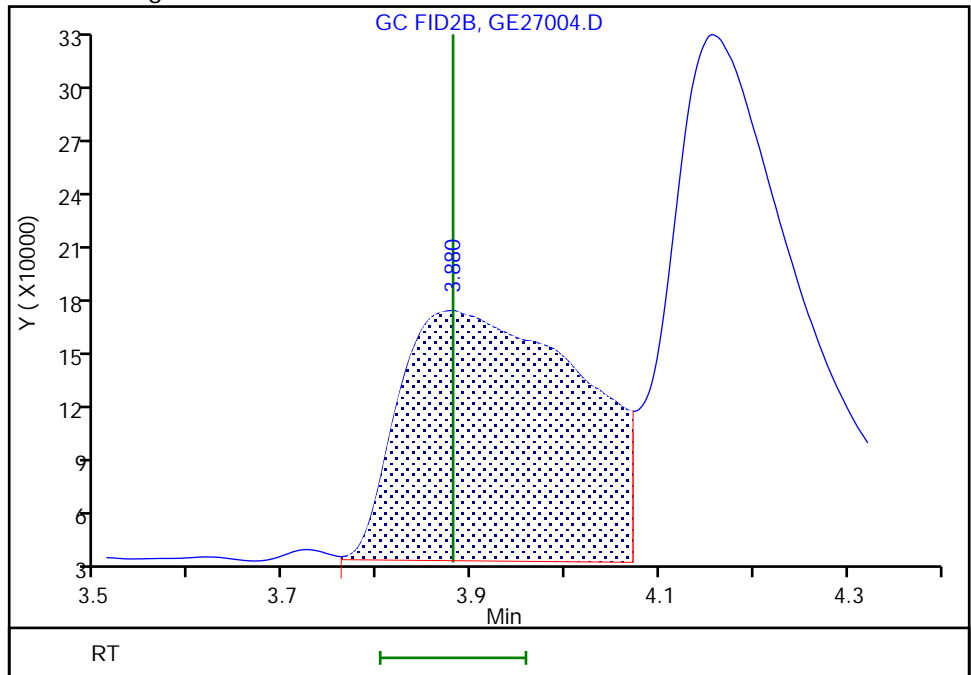
Not Detected  
Expected RT: 3.88

Processing Integration Results



RT: 3.88  
Area: 1872881  
Amount: 98.055441  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:47:58 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

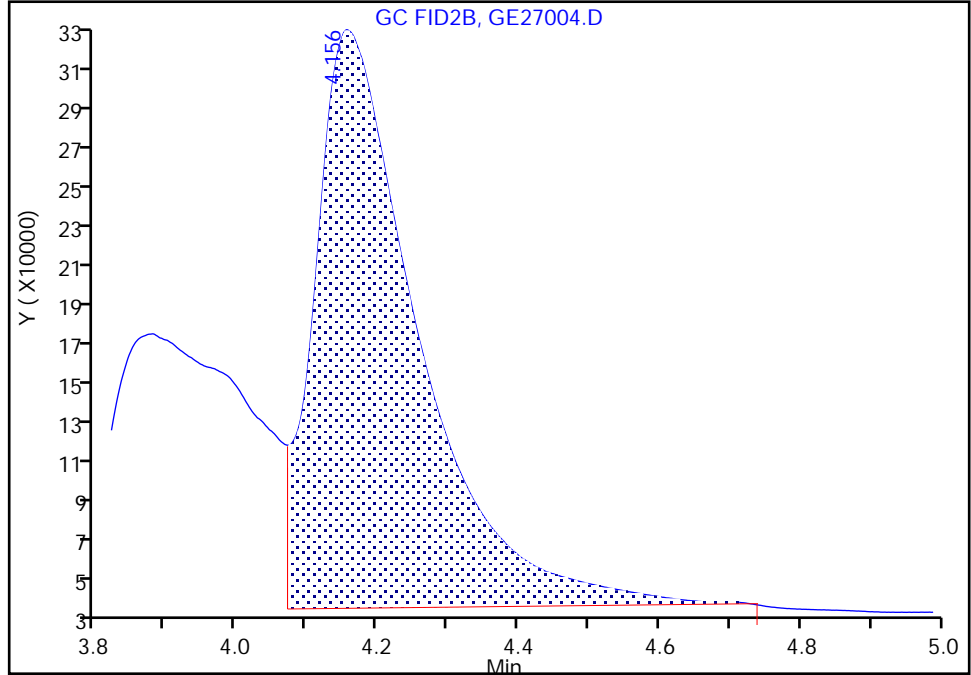
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

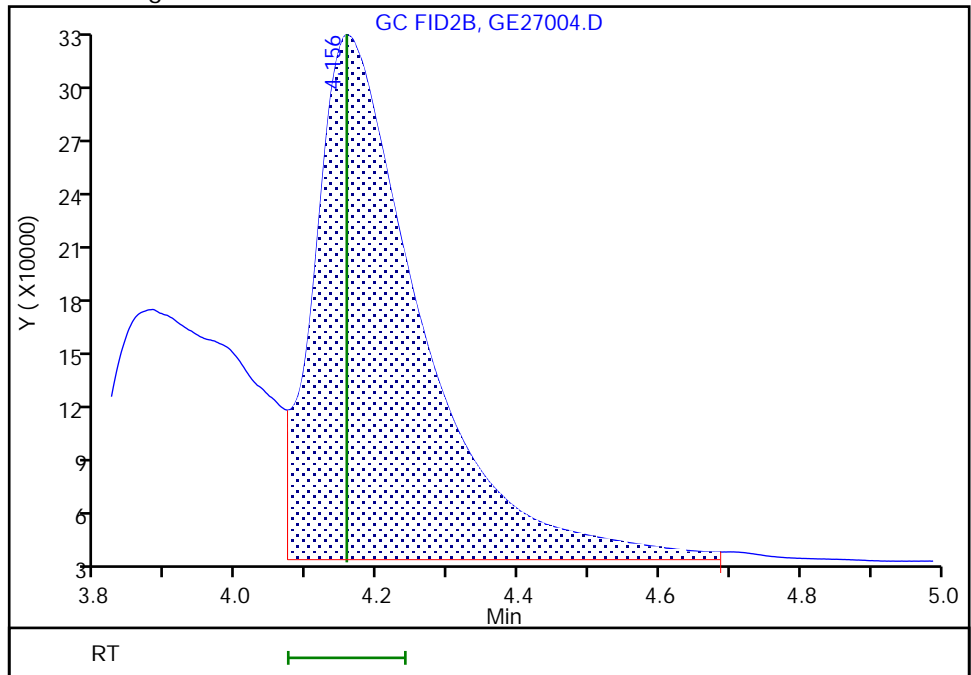
RT: 4.16  
Area: 3001163  
Amount: 99.161818  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 3082518  
Amount: 95.585548  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:48:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

Eurofins Savannah

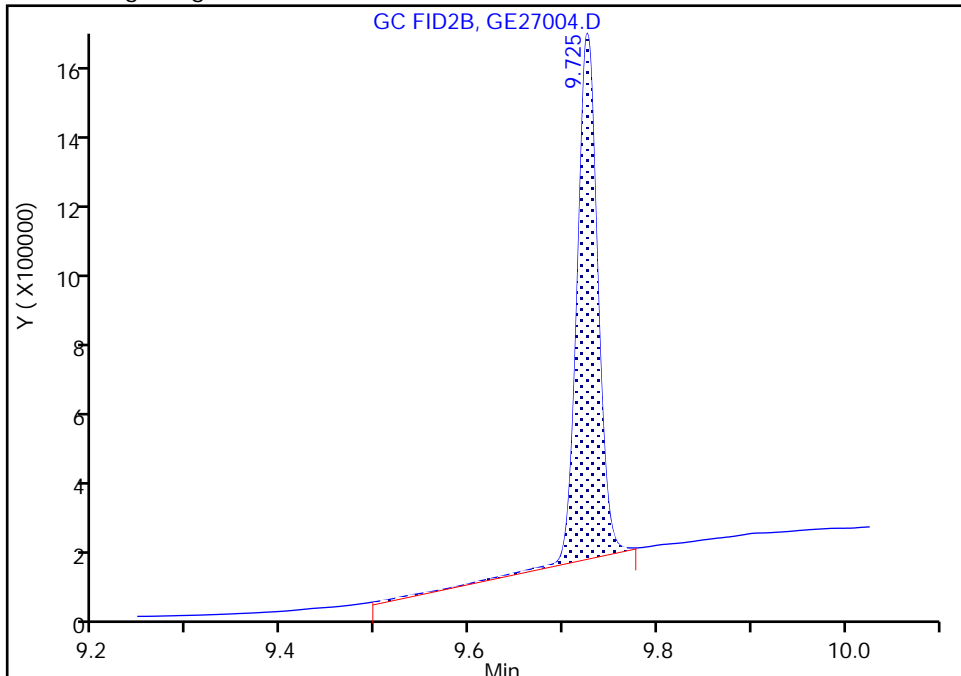
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

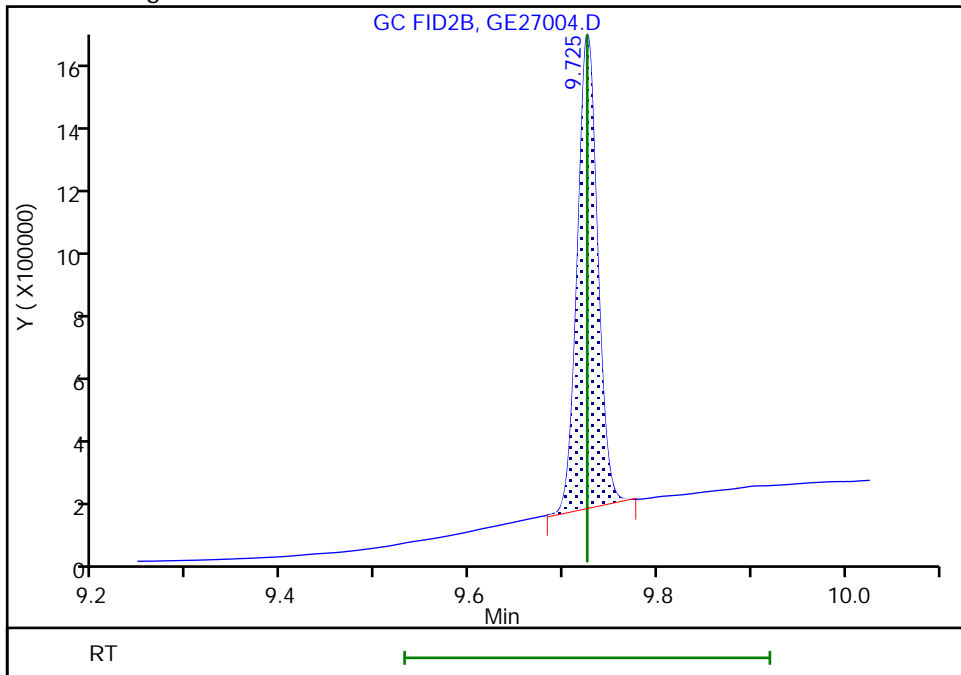
RT: 9.73  
Area: 2193449  
Amount: 89.205684  
Amount Units: ug/ml

Processing Integration Results



RT: 9.73  
Area: 2163291  
Amount: 99.073826  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:42:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Savannah

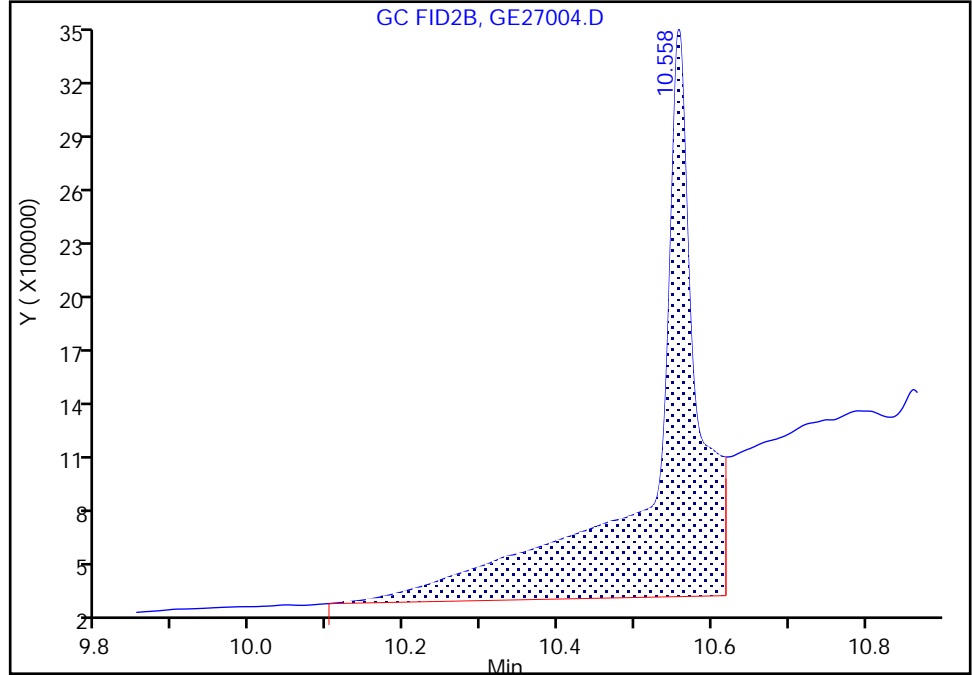
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27004.D  
Injection Date: 27-May-2023 19:09:01 Instrument ID: CVGG2  
Lims ID: ic g7  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

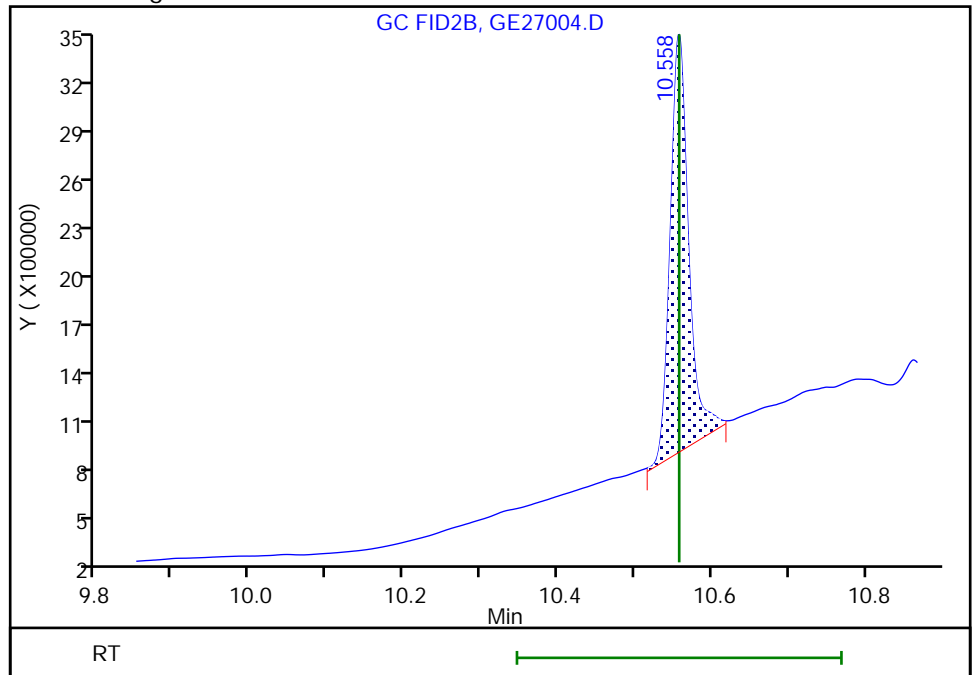
RT: 10.56  
Area: 13047007  
Amount: 422.7497  
Amount Units: ug/ml

Processing Integration Results



RT: 10.56  
Area: 4194209  
Amount: 192.9521  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:42:07 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
 Lims ID: ic g6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 27-May-2023 19:32:10 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-005  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:21 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U

Date: 30-May-2023 10:41:40

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

1 Ethanol, 2-propoxy	1.936	1.936	0.000	4995082	80.0	71.7	
2 4-Hydroxy-4-methyl-2-pentanone	2.245	2.244	0.001	4600322	80.0	73.3	M
3 2-Butoxyethanol	2.369	2.369	0.000	5364455	80.0	71.7	M
* 4 n-Heptyl Alcohol	2.589	2.590	-0.001	5153651	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether	3.202	3.195	0.007	401593	80.0	75.6	
6 Propylene glycol	3.877	3.880	-0.003	1549786	80.0	82.2	Ma
7 Ethylene glycol	4.163	4.156	0.007	2530637	80.0	79.1	M
8 2-(2-Butoxyethoxy)ethanol	5.686	5.684	0.002	4012990	80.0	72.7	
9 2,2'-Oxybisethanol	7.802	7.804	-0.002	1779832	80.0	80.9	
10 Triethylene Glycol	9.724	9.725	-0.001	1741578	80.0	80.8	
11 Tetraethylene Glycol	10.557	10.558	-0.001	3557048	160.0	165.7	

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 40.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D

Injection Date: 27-May-2023 19:32:10

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

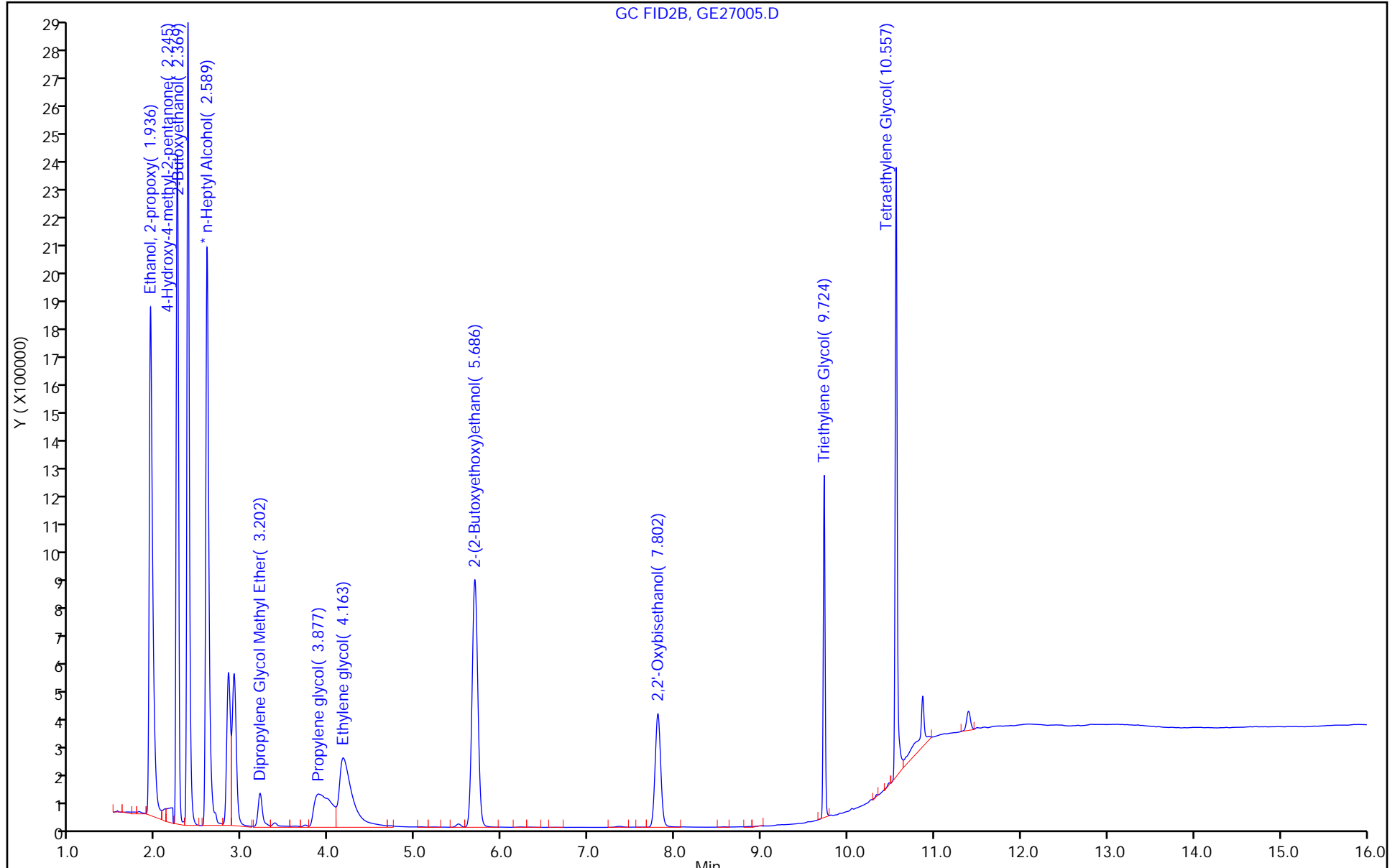
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Euofins Savannah

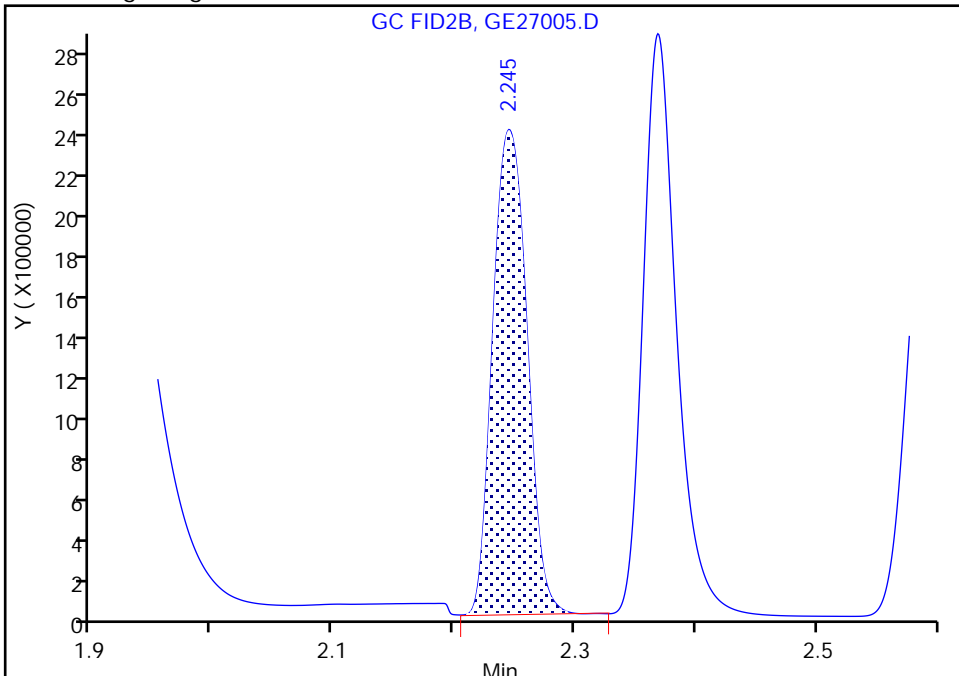
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
Injection Date: 27-May-2023 19:32:10 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

2 4-Hydroxy-4-methyl-2-pentanone, CAS: 123-42-2

Signal: 1

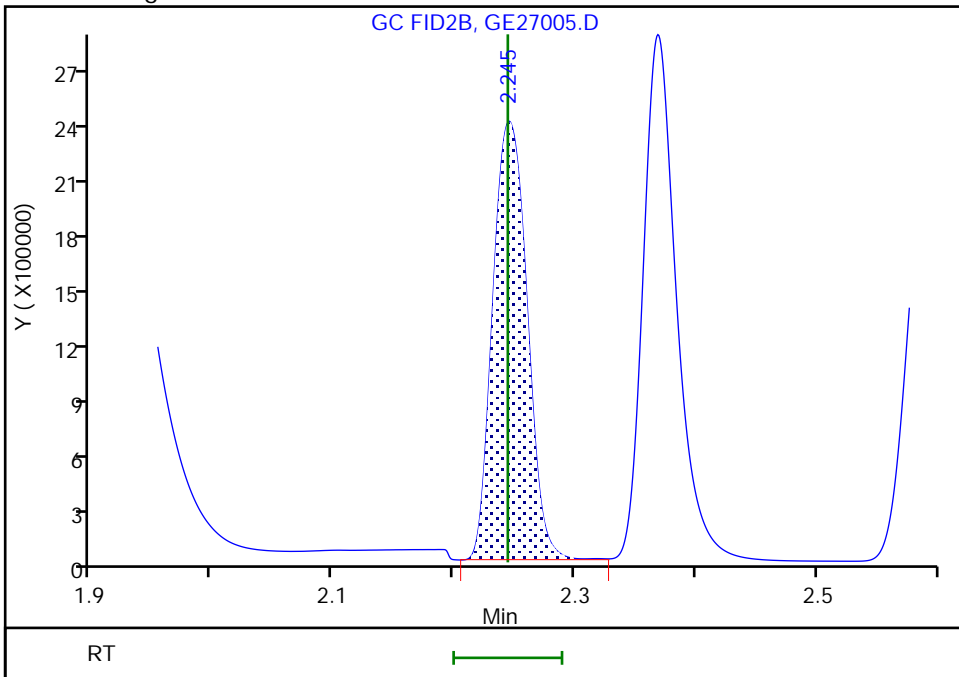
RT: 2.25  
Area: 4568247  
Amount: 73.382626  
Amount Units: ug/ml

Processing Integration Results



RT: 2.25  
Area: 4600322  
Amount: 73.325240  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:41:32 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

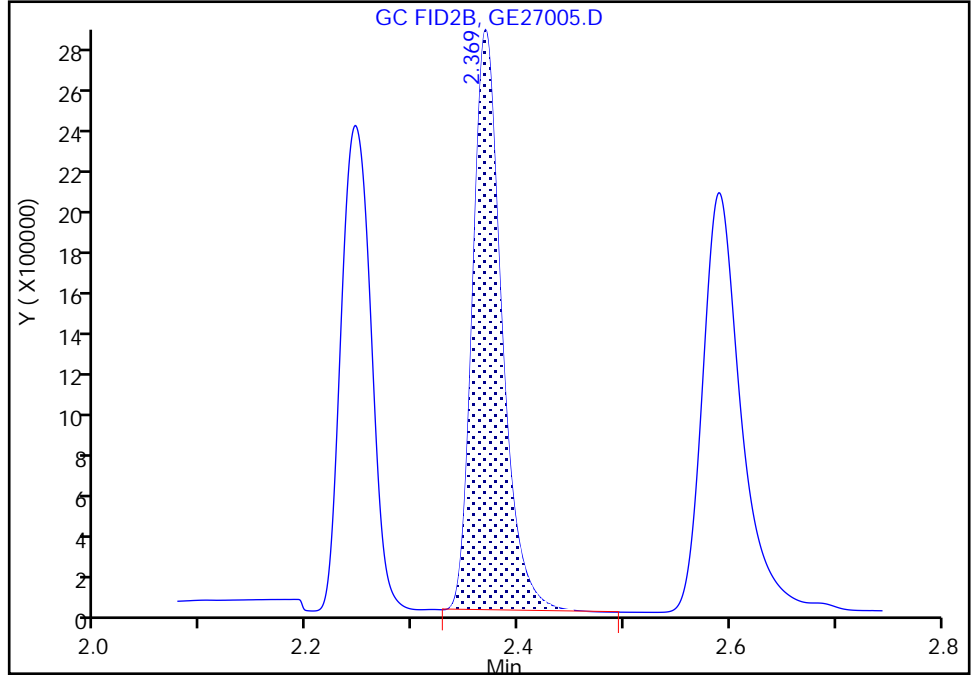
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
Injection Date: 27-May-2023 19:32:10 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

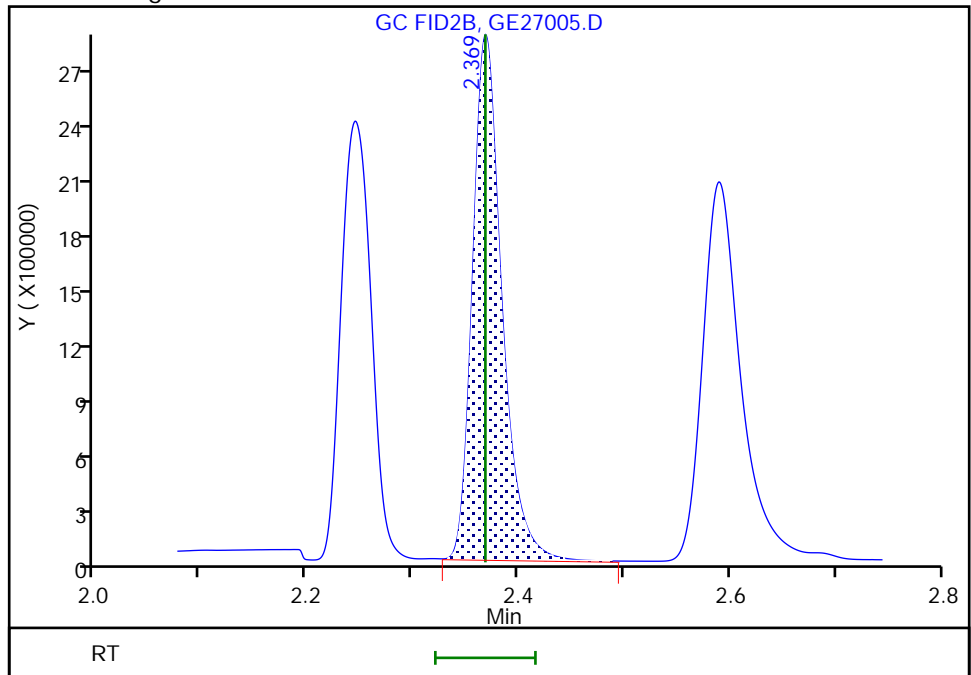
RT: 2.37  
Area: 5323845  
Amount: 71.760431  
Amount Units: ug/ml

Processing Integration Results



RT: 2.37  
Area: 5364455  
Amount: 71.710957  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:41:32 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

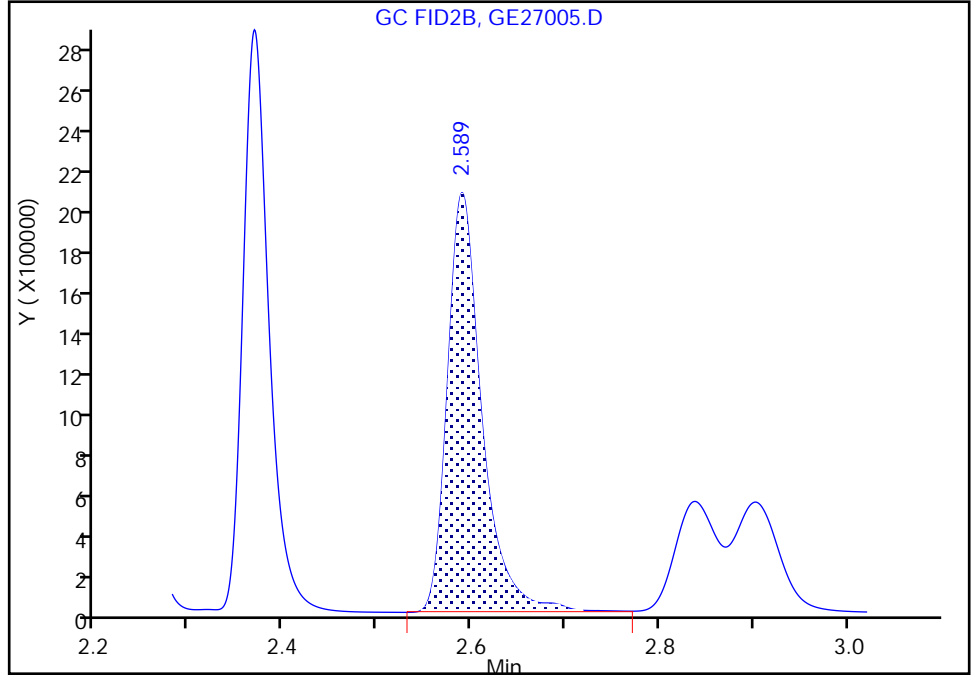
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
Injection Date: 27-May-2023 19:32:10 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

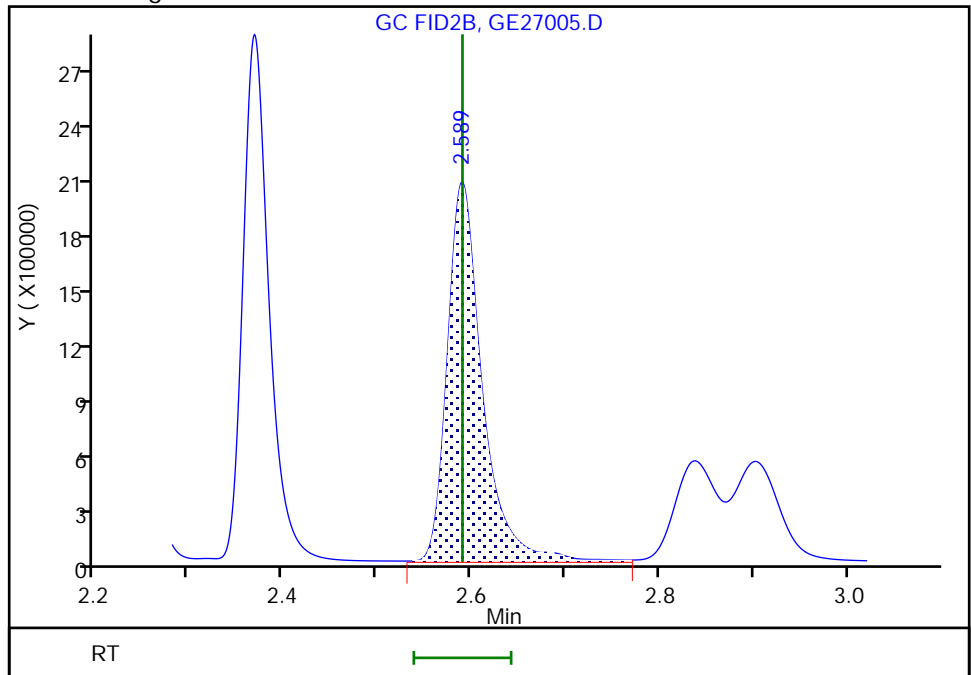
RT: 2.59  
Area: 5108586  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 2.59  
Area: 5153651  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:41:35 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

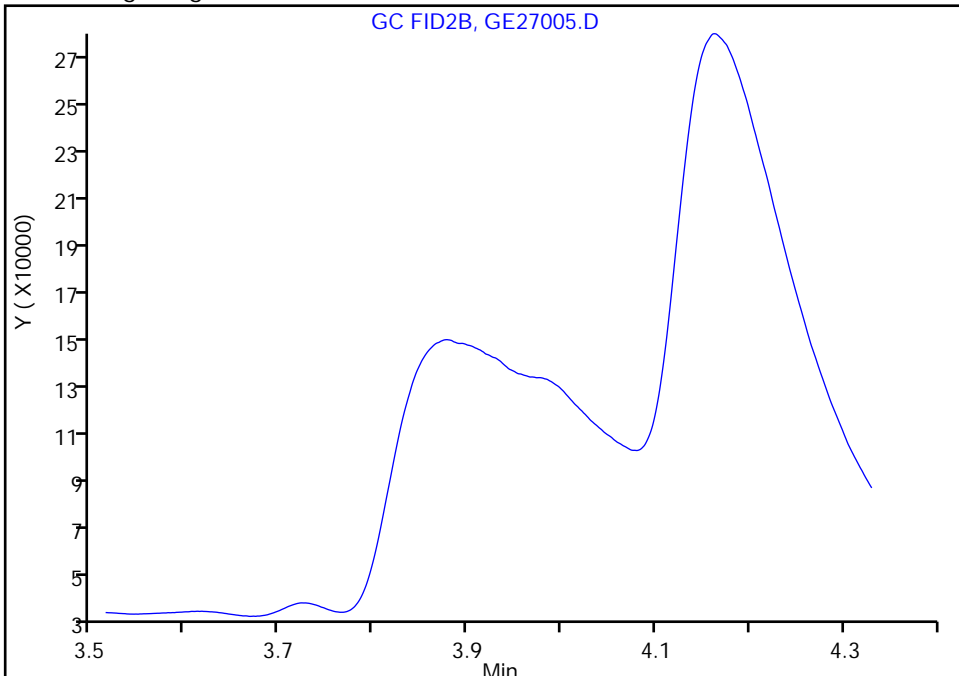
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
Injection Date: 27-May-2023 19:32:10 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

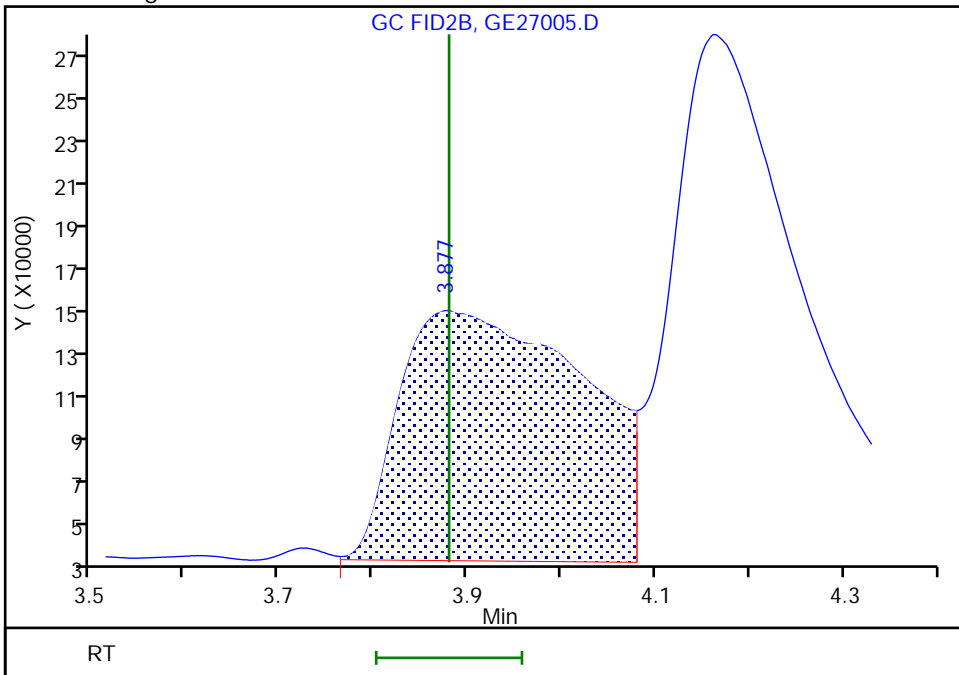
Not Detected  
Expected RT: 3.88

Processing Integration Results



RT: 3.88  
Area: 1549786  
Amount: 82.176658  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:47:33 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Split Peak

Eurofins Savannah

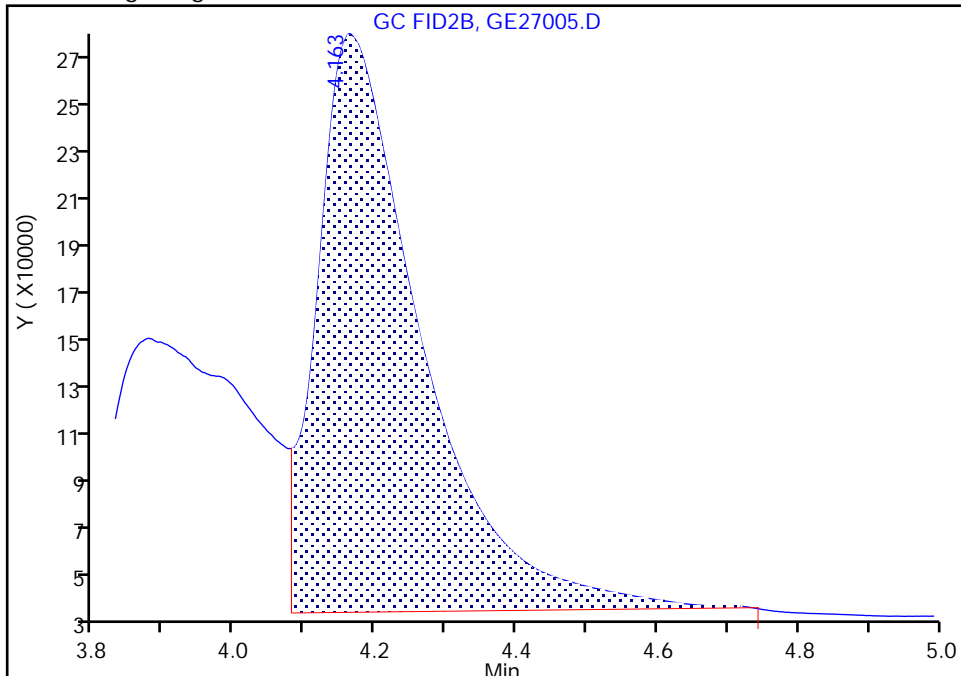
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27005.D  
Injection Date: 27-May-2023 19:32:10 Instrument ID: CVGG2  
Lims ID: ic g6  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

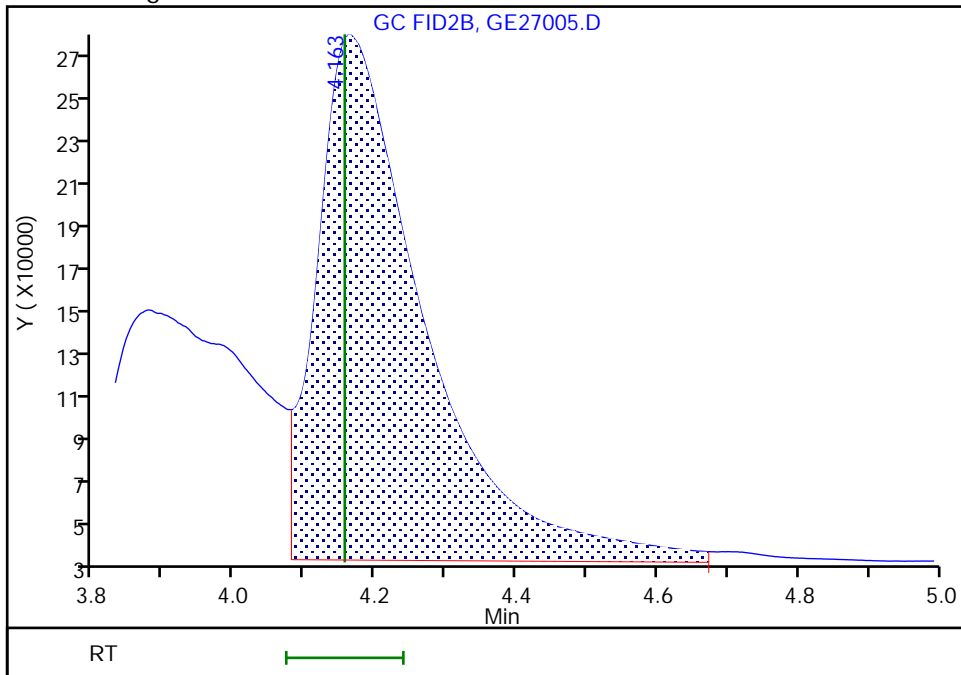
RT: 4.16  
Area: 2459422  
Amount: 80.198866  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 2530637  
Amount: 79.097841  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:47:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
 Lims ID: ic g5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 27-May-2023 19:55:17 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-006  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:22 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 10:41:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.934	1.936	-0.002	3097751	50.0	45.2	
2 4-Hydroxy-4-methyl-2-pentanone						
2.242	2.244	-0.002	2769381	50.0	44.9	M
3 2-Butoxyethanol						
2.368	2.369	-0.001	3349347	50.0	45.6	M
* 4 n-Heptyl Alcohol						
2.591	2.590	0.001	5062230	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.192	3.195	-0.003	235508	50.0	45.1	
6 Propylene glycol						
3.871	3.880	-0.009	900023	50.0	48.6	Ma
7 Ethylene glycol						
4.154	4.156	-0.002	1567945	50.0	49.1	M
8 2-(2-Butoxyethoxy)ethanol						
5.683	5.684	-0.001	2352877	50.0	43.4	
9 2,2'-Oxybisethanol						
7.800	7.804	-0.004	1081542	50.0	50.1	
10 Triethylene Glycol						
9.724	9.725	-0.001	1036349	50.0	48.9	
11 Tetraethylene Glycol						
10.556	10.558	-0.002	2124929	100.0	100.8	M

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 25.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D

Injection Date: 27-May-2023 19:55:17

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

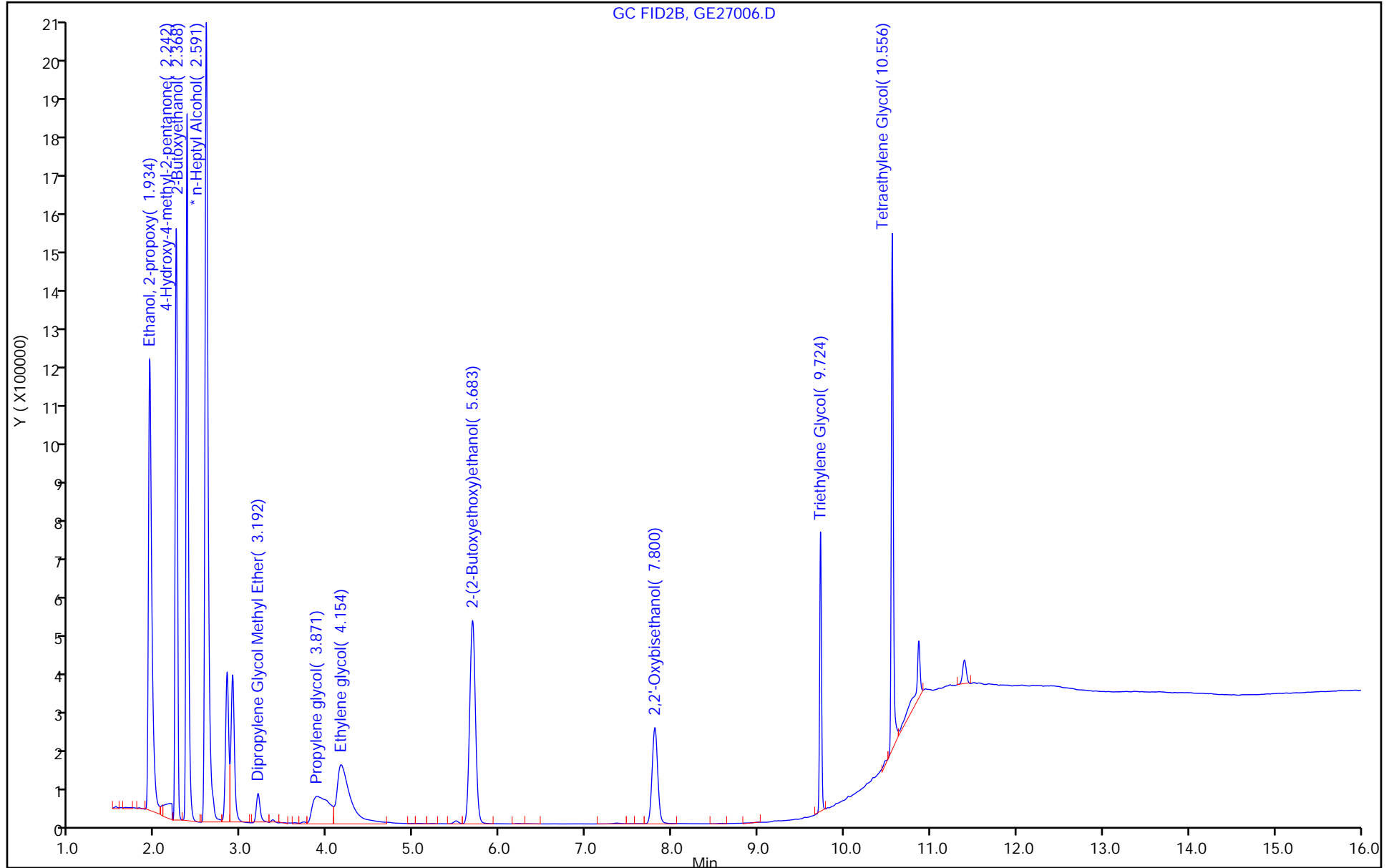
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

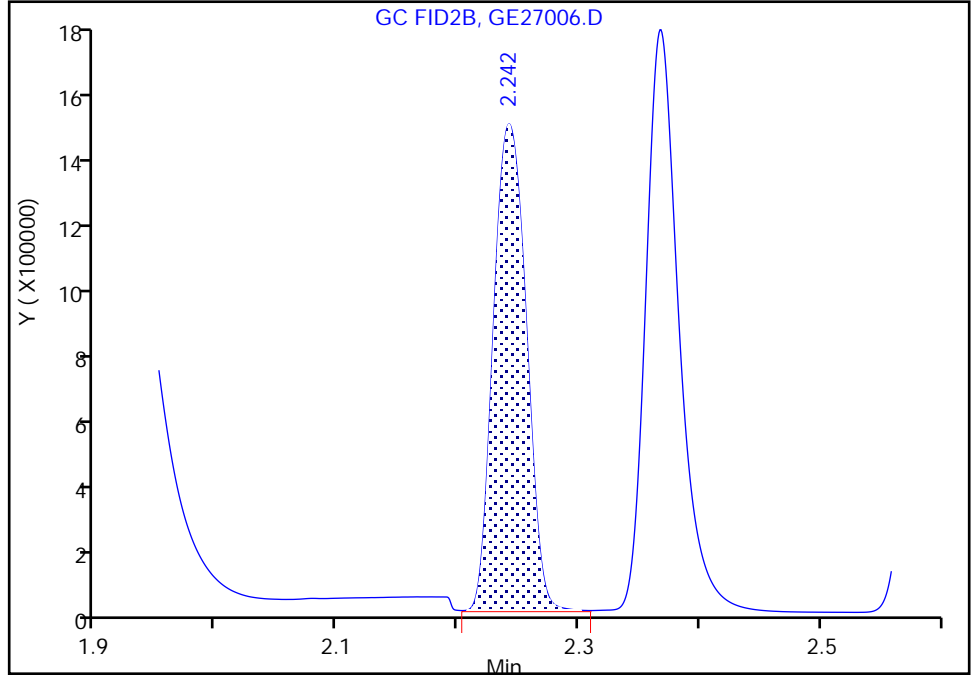
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

2 4-Hydroxy-4-methyl-2-pentanone, CAS: 123-42-2

Signal: 1

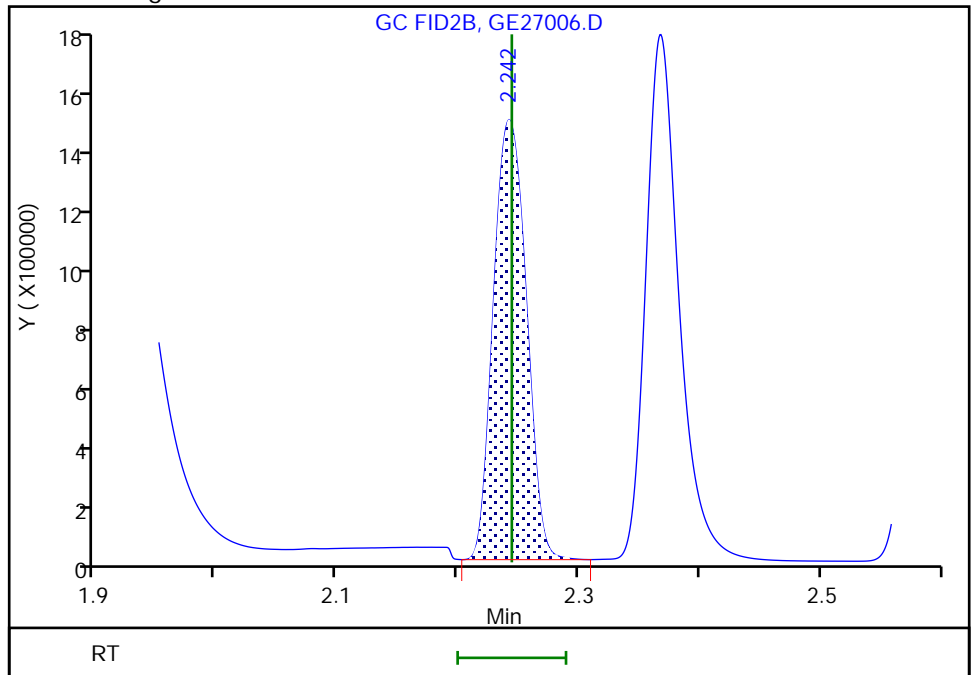
RT: 2.24  
Area: 2762657  
Amount: 44.798632  
Amount Units: ug/ml

Processing Integration Results



RT: 2.24  
Area: 2769381  
Amount: 44.938762  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:41:05 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Euofins Savannah

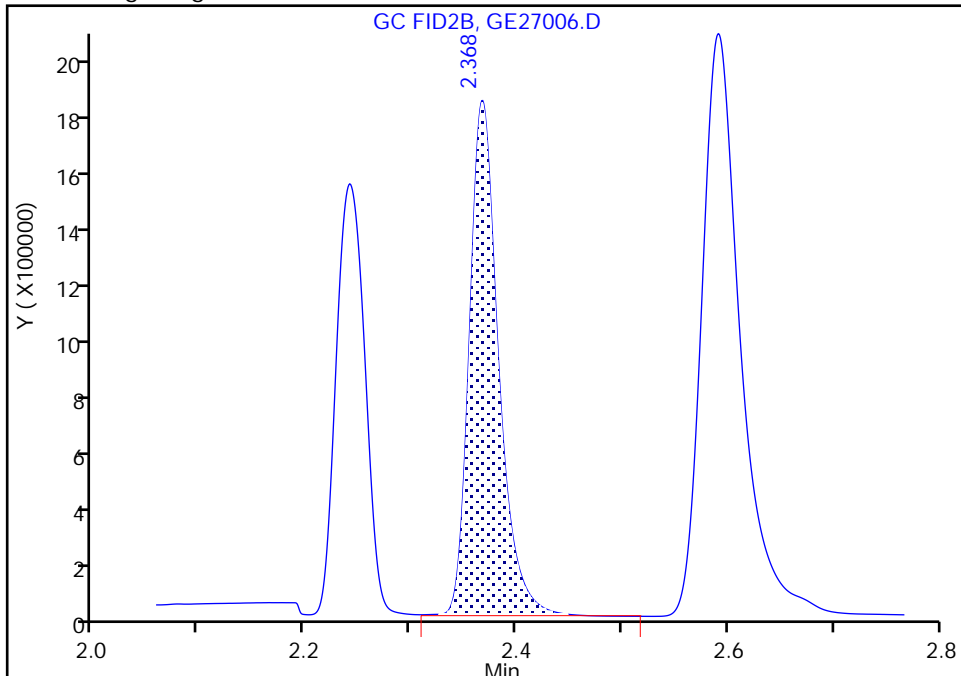
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

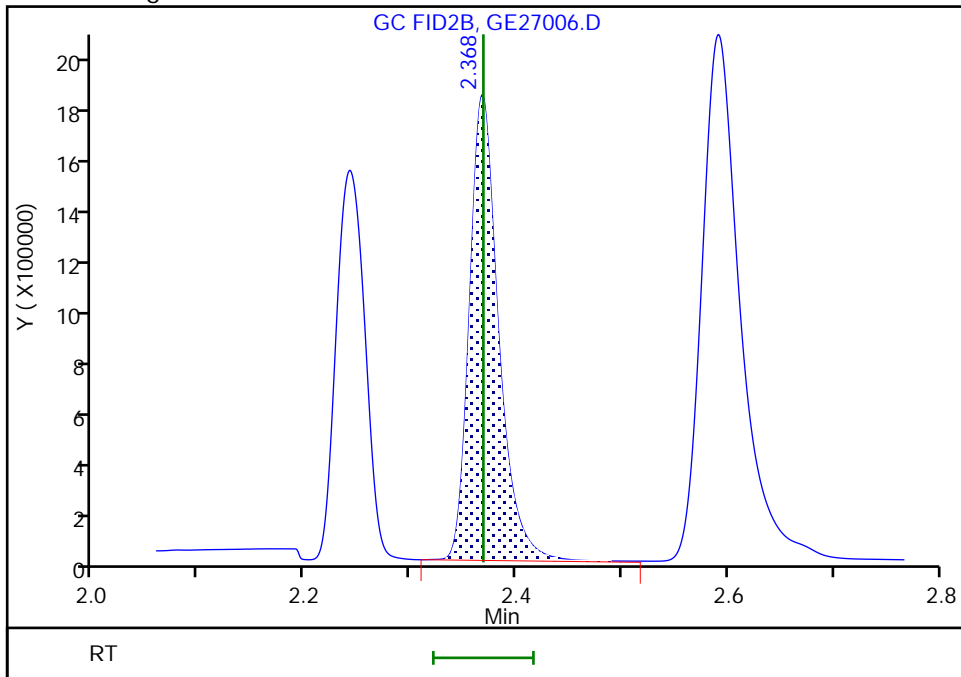
RT: 2.37  
Area: 3335665  
Amount: 45.397495  
Amount Units: ug/ml

Processing Integration Results



RT: 2.37  
Area: 3349347  
Amount: 45.581980  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:41:05 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

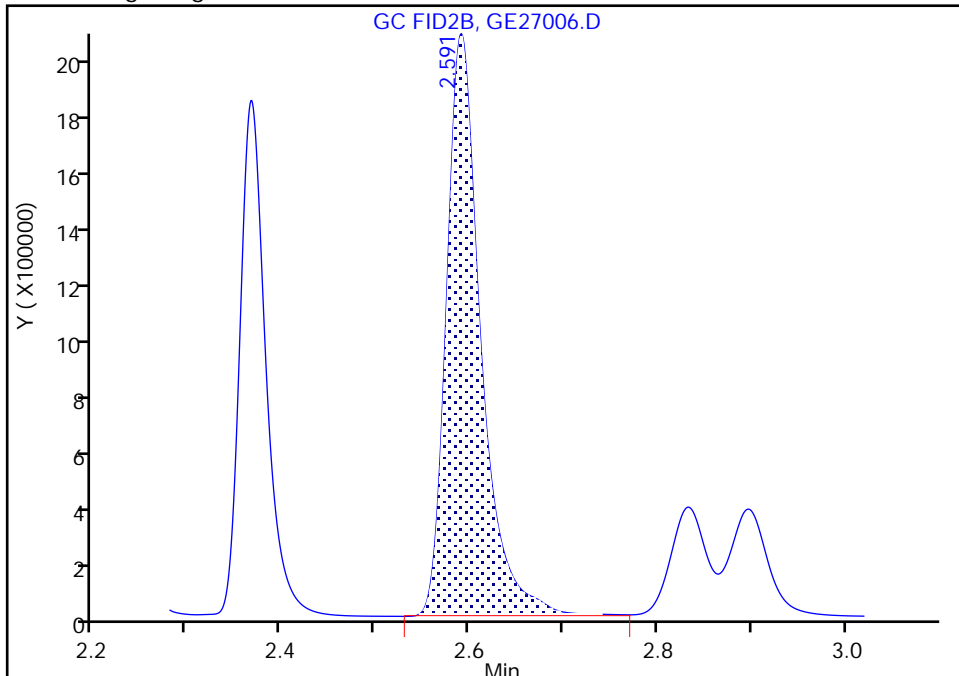
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

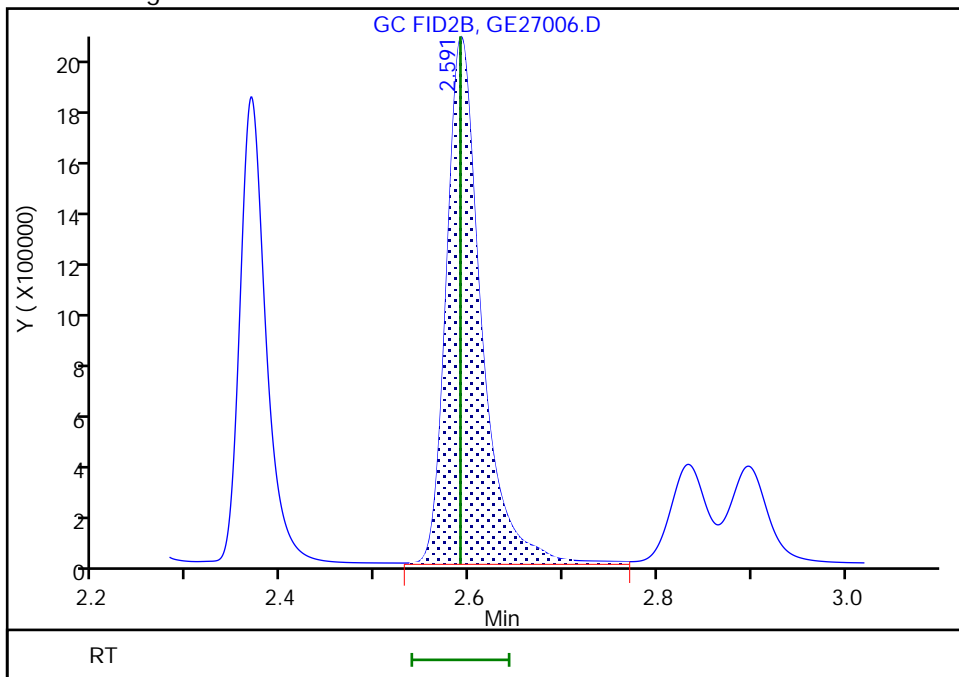
Processing Integration Results

RT: 2.59  
Area: 5018368  
Amount: 50.000000  
Amount Units: ug/ml



Manual Integration Results

RT: 2.59  
Area: 5062230  
Amount: 50.000000  
Amount Units: ug/ml



Reviewer: SK9U, 30-May-2023 10:40:54 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

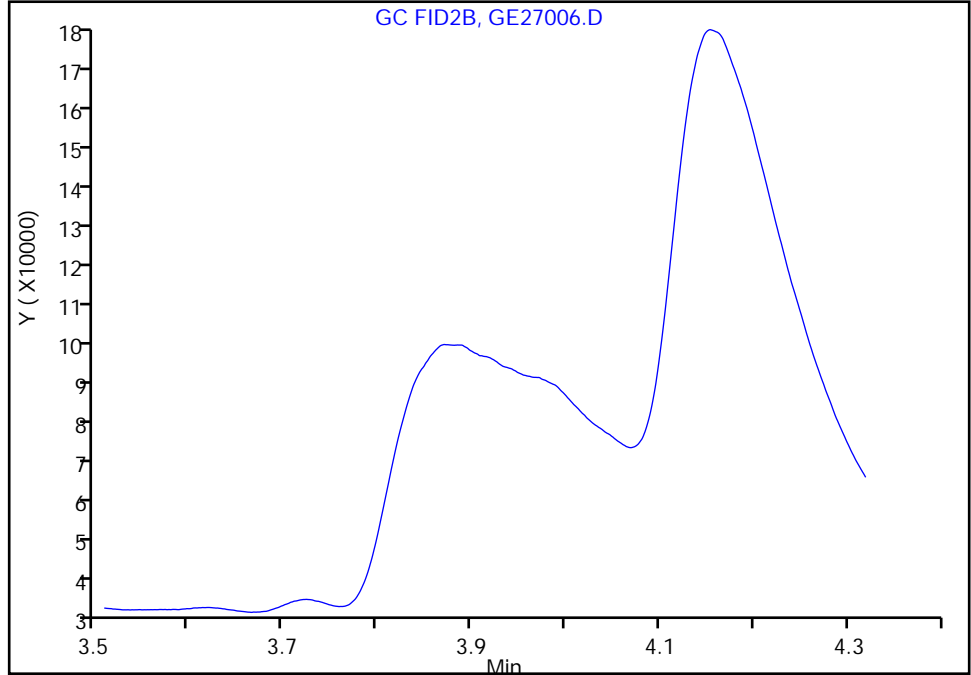
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

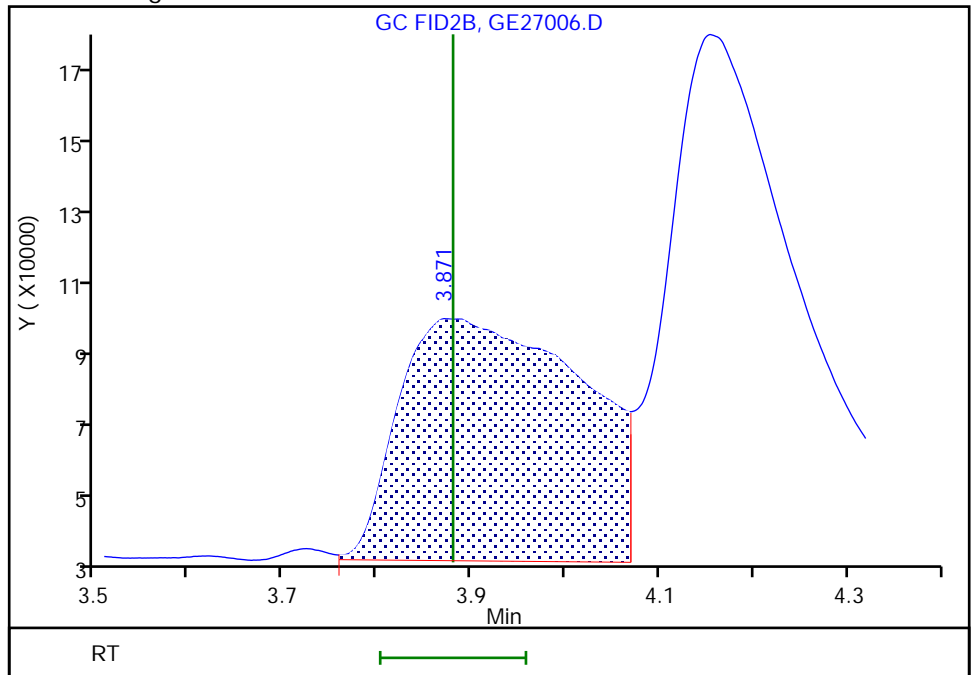
Not Detected  
Expected RT: 3.88

Processing Integration Results



Manual Integration Results

RT: 3.87  
Area: 900023  
Amount: 48.585142  
Amount Units: ug/ml



Eurofins Savannah

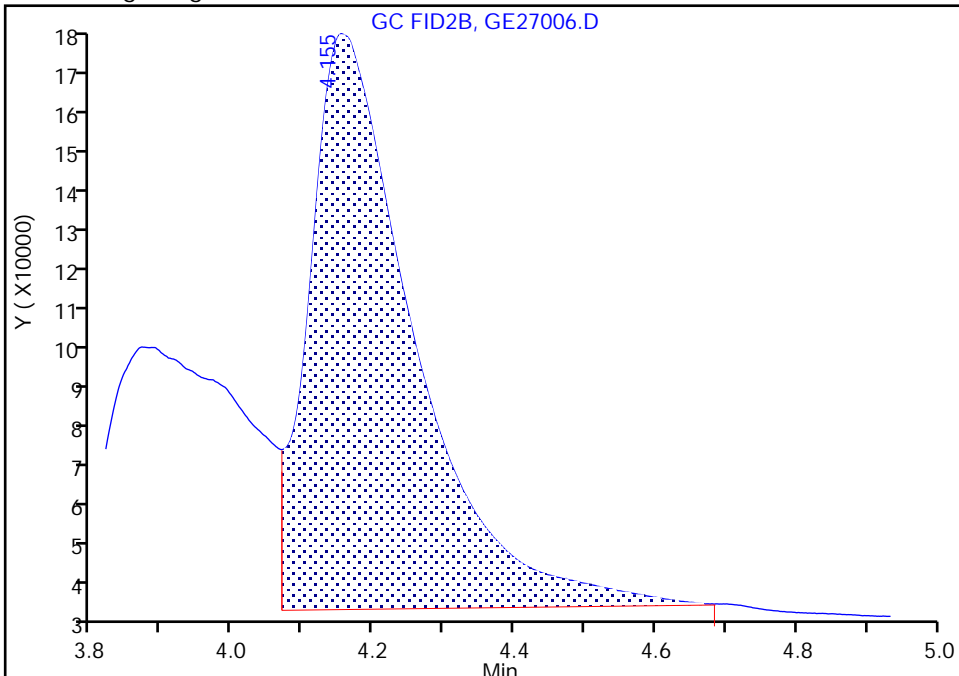
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

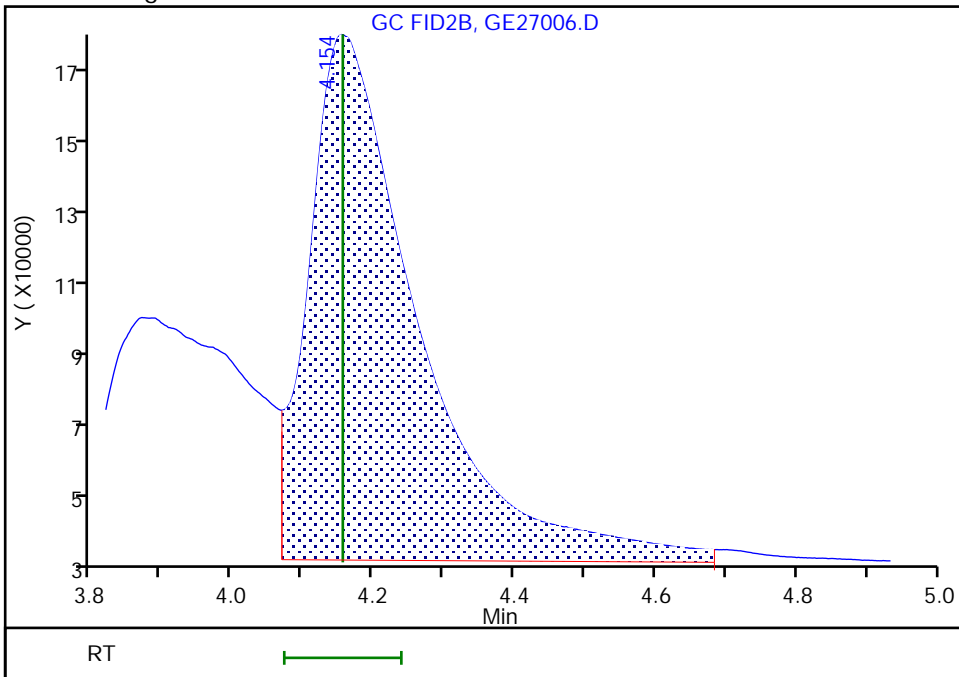
RT: 4.15  
Area: 1487999  
Amount: 47.069259  
Amount Units: ug/ml

Processing Integration Results



RT: 4.15  
Area: 1567945  
Amount: 49.066199  
Amount Units: ug/ml

Manual Integration Results





Eurofins Savannah

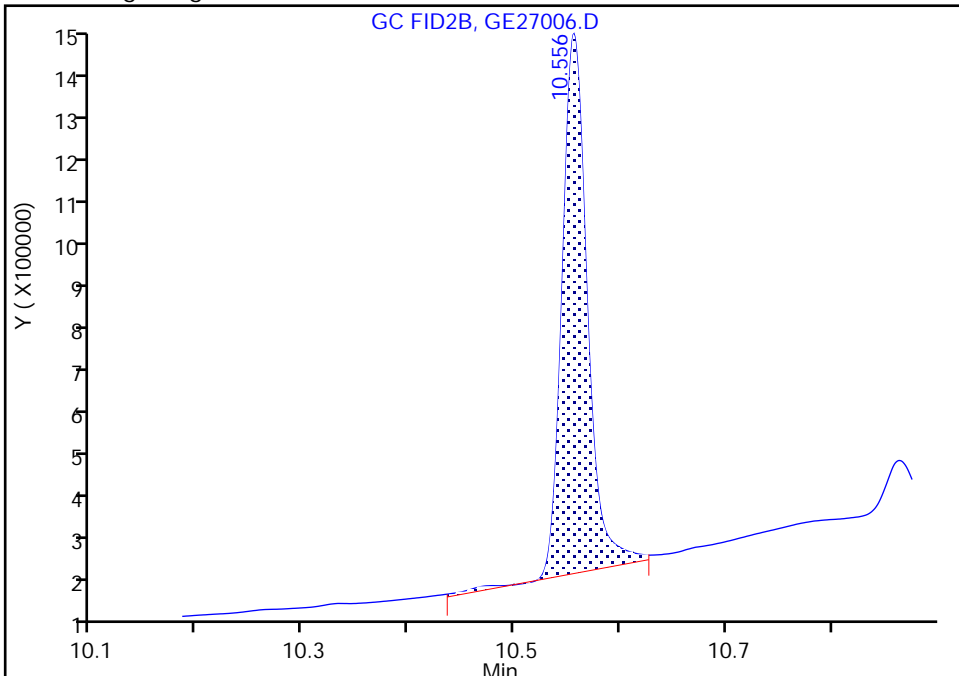
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27006.D  
Injection Date: 27-May-2023 19:55:17 Instrument ID: CVGG2  
Lims ID: ic g5  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

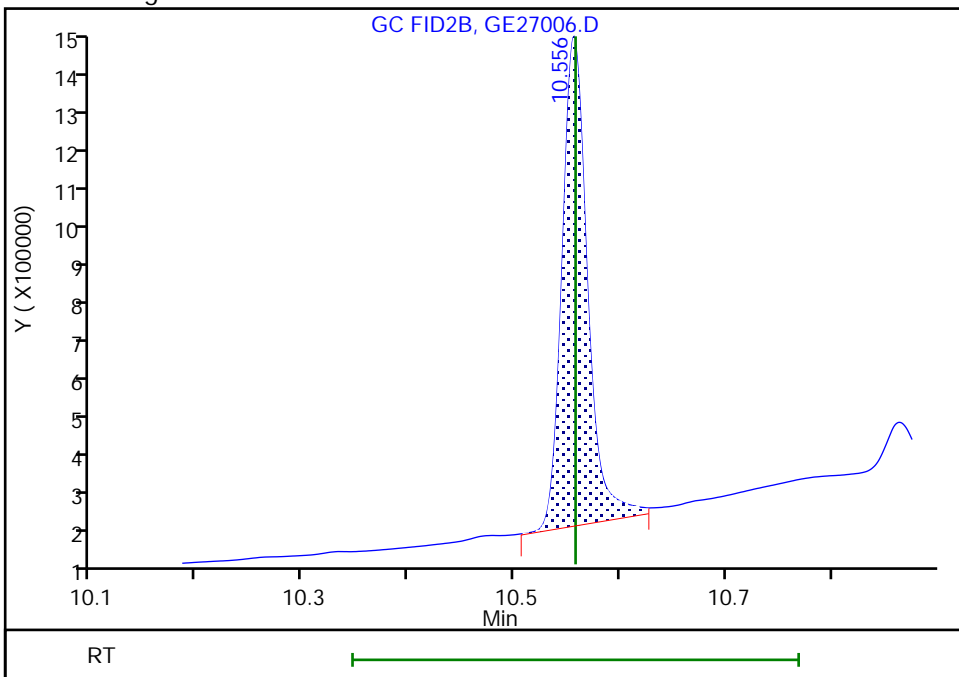
Processing Integration Results

RT: 10.56  
Area: 2154320  
Amount: 71.609582  
Amount Units: ug/ml



Manual Integration Results

RT: 10.56  
Area: 2124929  
Amount: 100.7934  
Amount Units: ug/ml



Reviewer: SK9U, 30-May-2023 10:40:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
 Lims ID: icis g4  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 27-May-2023 20:18:31 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-007  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:23 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 10:40:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.937	1.937	0.000	1381185	20.0	21.4	
2 4-Hydroxy-4-methyl-2-pentanone						
2.247	2.247	0.000	1265970	20.0	21.8	
3 2-Butoxyethanol						
2.367	2.367	0.000	1446705	20.0	20.9	M
* 4 n-Heptyl Alcohol						
2.584	2.584	0.000	4761954	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.198	3.198	0.000	114024	20.0	23.2	M
6 Propylene glycol						
3.888	3.888	0.000	408680	20.0	23.5	a
7 Ethylene glycol						
4.161	4.161	0.000	687994	20.0	21.7	M
8 2-(2-Butoxyethoxy)ethanol						
5.683	5.683	0.000	1108879	20.0	21.7	
9 2,2'-Oxybisethanol						
7.799	7.799	0.000	490379	20.0	24.1	
10 Triethylene Glycol						
9.724	9.724	0.000	459388	20.0	23.1	
11 Tetraethylene Glycol						
10.556	10.556	0.000	951610	40.0	48.0	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D

Injection Date: 27-May-2023 20:18:31

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

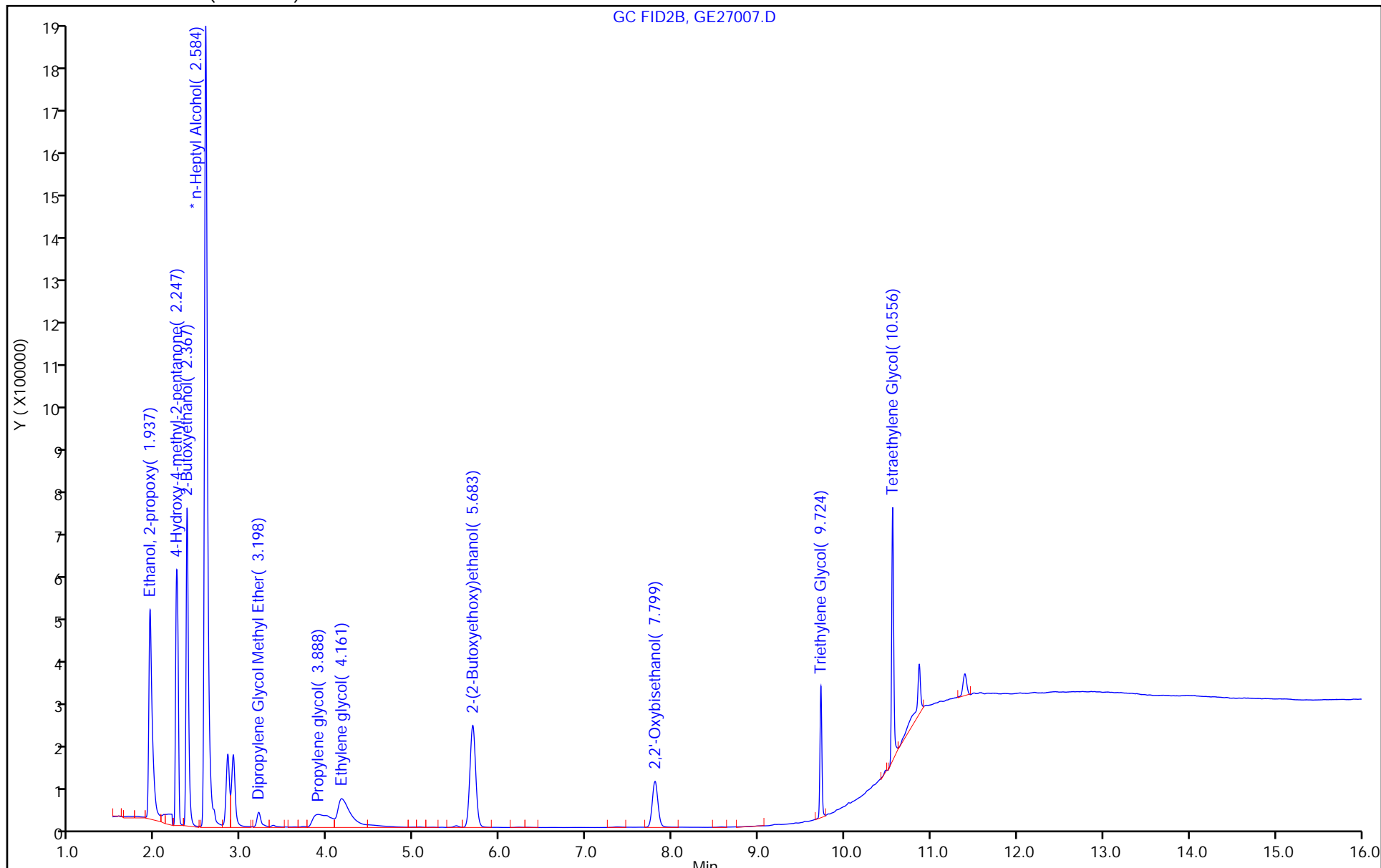
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

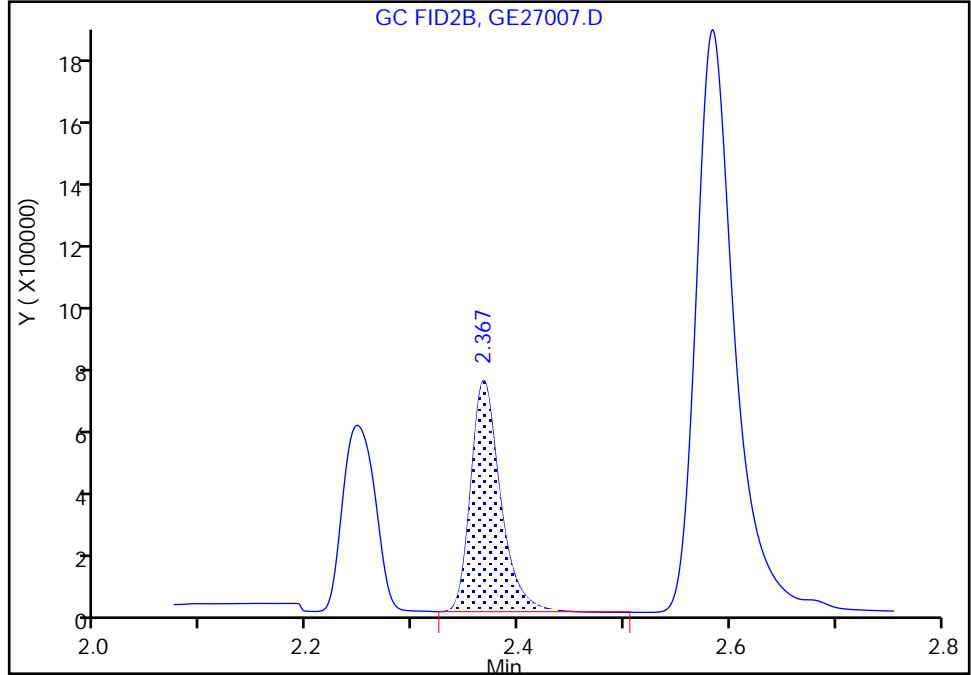
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
Injection Date: 27-May-2023 20:18:31 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

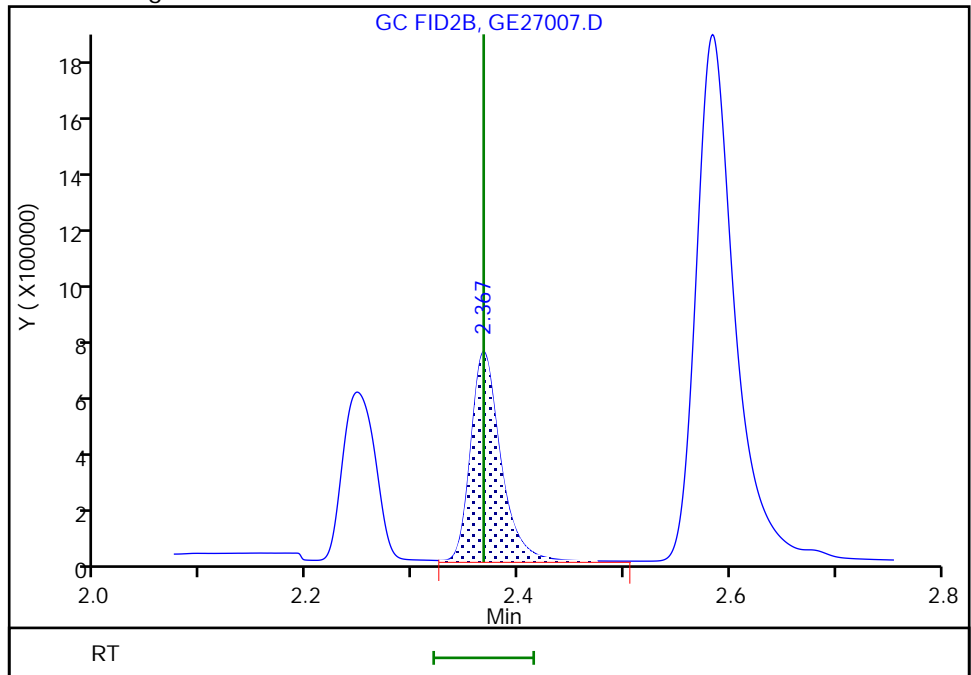
RT: 2.37  
Area: 1432432  
Amount: 20.839830  
Amount Units: ug/ml

Processing Integration Results



RT: 2.37  
Area: 1446705  
Amount: 20.930023  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:40:23 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

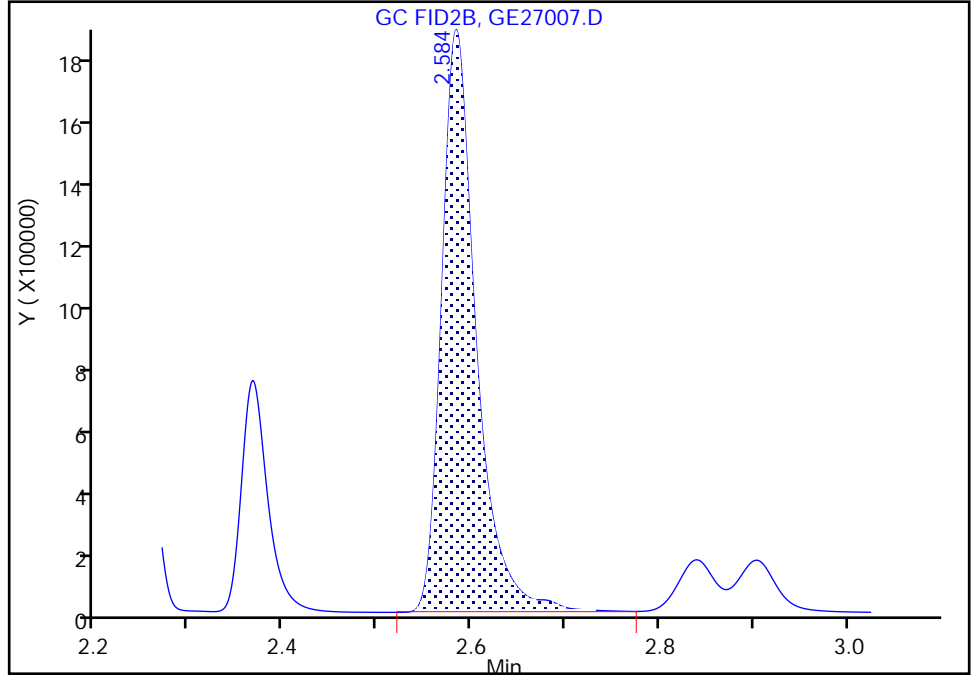
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
Injection Date: 27-May-2023 20:18:31 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

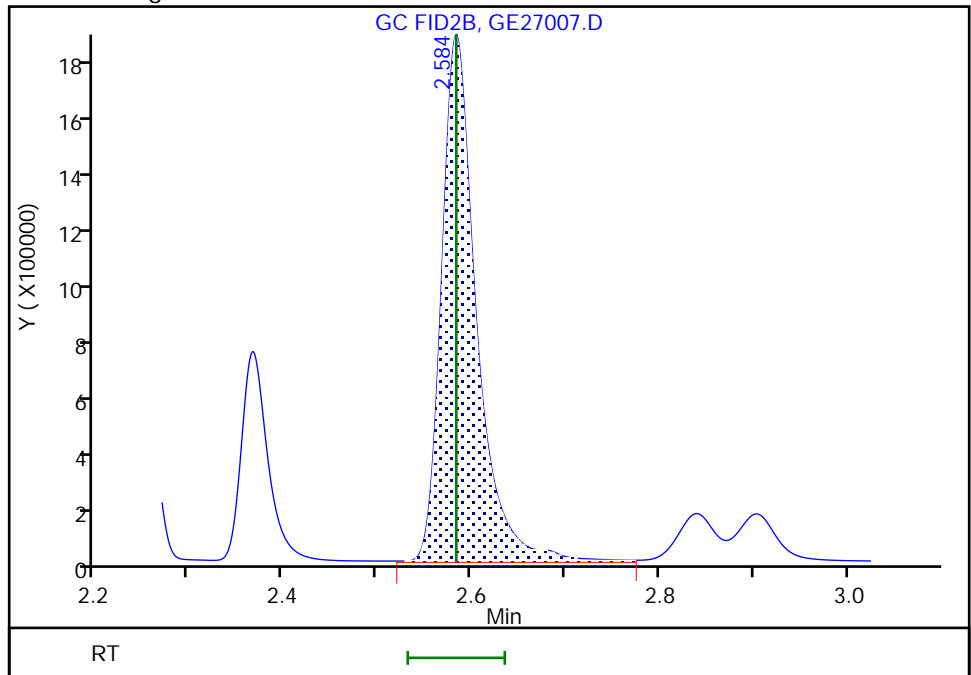
Processing Integration Results

RT: 2.58  
Area: 4732868  
Amount: 50.000000  
Amount Units: ug/ml



Manual Integration Results

RT: 2.58  
Area: 4761954  
Amount: 50.000000  
Amount Units: ug/ml



Reviewer: SK9U, 30-May-2023 10:40:23 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

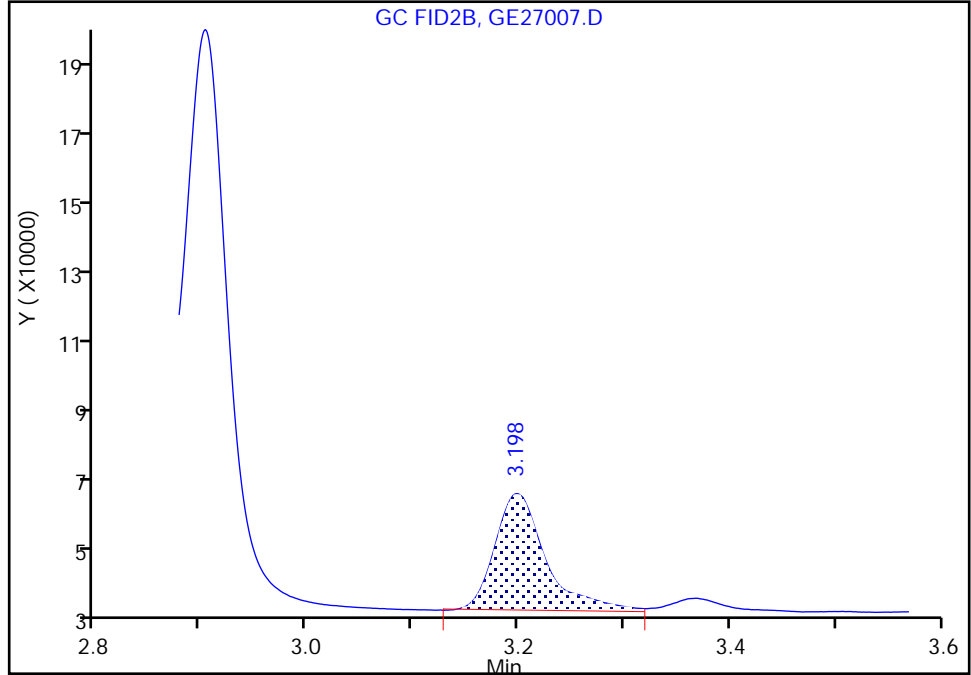
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
Injection Date: 27-May-2023 20:18:31 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

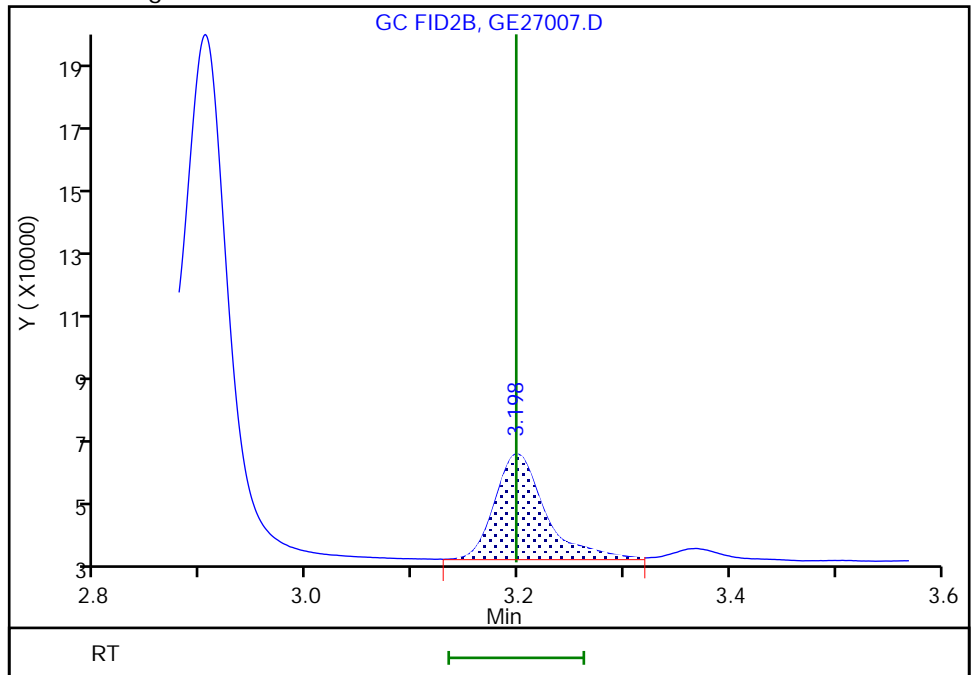
RT: 3.20  
Area: 112897  
Amount: 23.057650  
Amount Units: ug/ml

Processing Integration Results



RT: 3.20  
Area: 114024  
Amount: 23.215504  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:40:23 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

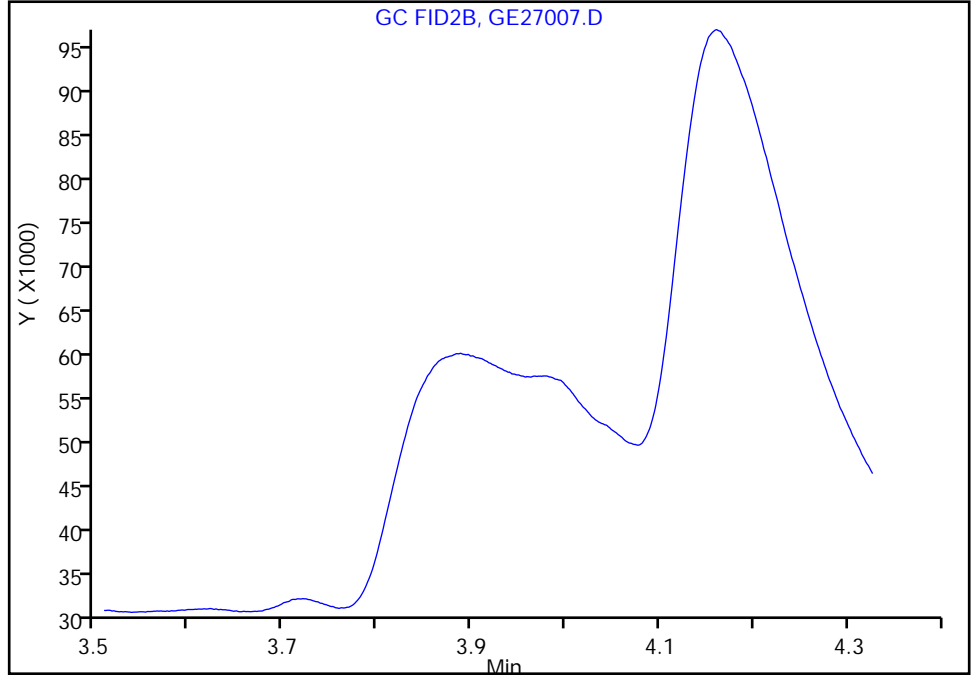
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
Injection Date: 27-May-2023 20:18:31 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

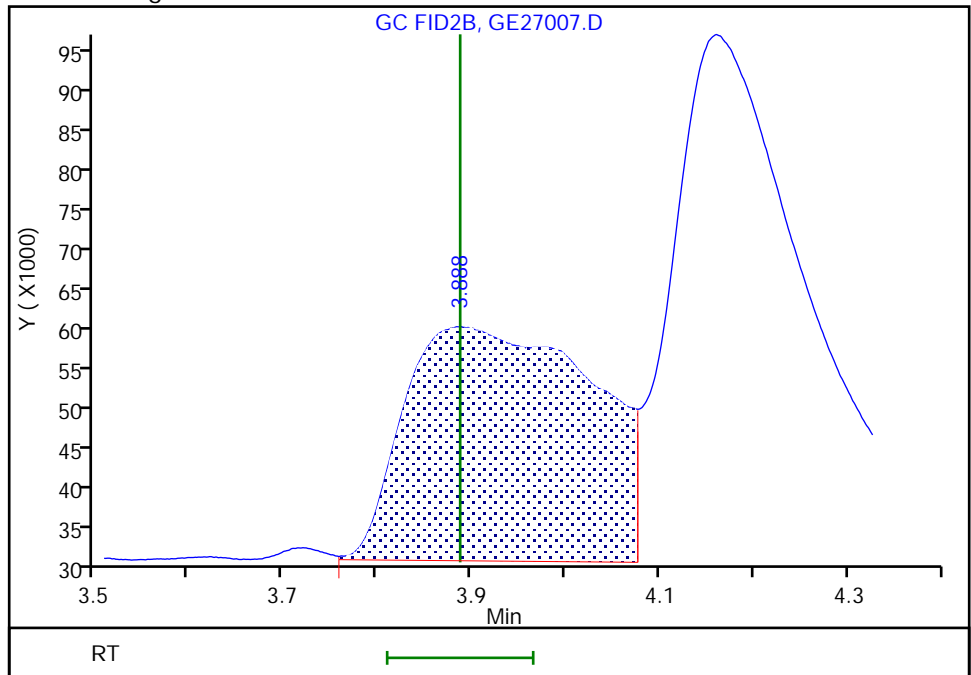
Not Detected  
Expected RT: 3.89

Processing Integration Results



RT: 3.89  
Area: 408680  
Amount: 23.452543  
Amount Units: ug/ml

Manual Integration Results





Eurofins Savannah

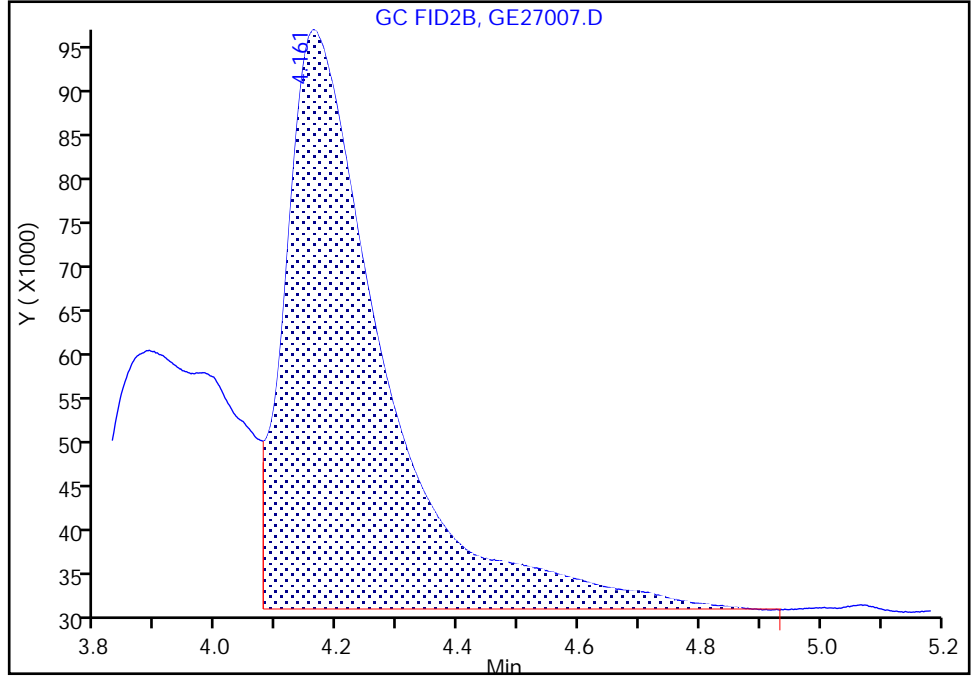
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27007.D  
Injection Date: 27-May-2023 20:18:31 Instrument ID: CVGG2  
Lims ID: icis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

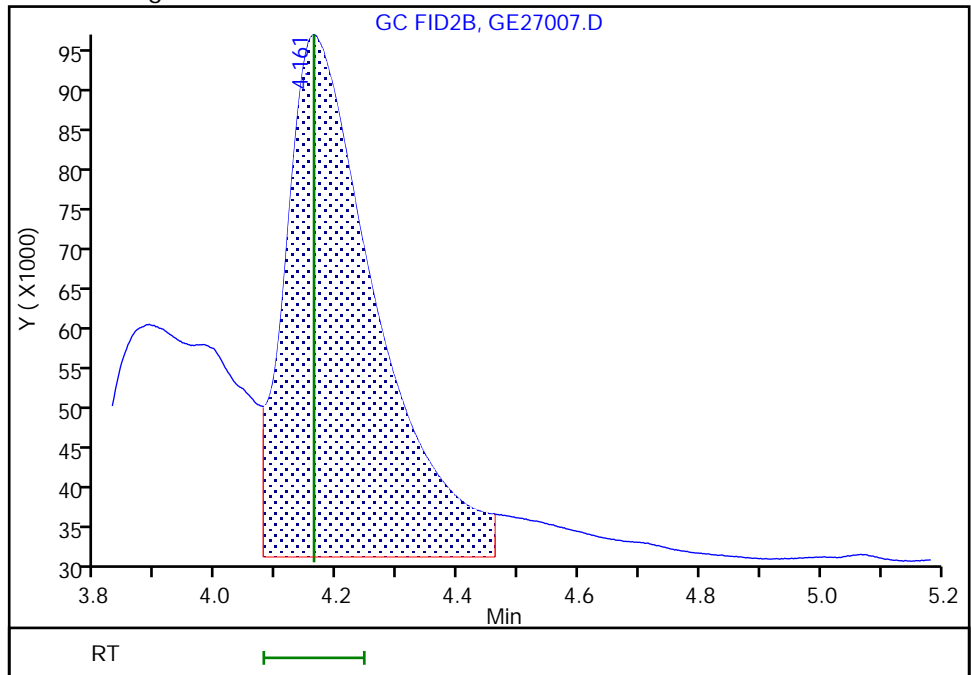
RT: 4.16  
Area: 751968  
Amount: 22.773019  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 687994  
Amount: 21.692602  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:47:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D  
 Lims ID: ic g3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 27-May-2023 20:41:37 ALS Bottle#: 0 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-008  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:25 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 10:39:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.933	1.937	-0.004	785874	10.0	10.5	
2 4-Hydroxy-4-methyl-2-pentanone						
2.244	2.247	-0.003	676356	10.0	10.0	
3 2-Butoxyethanol						
2.367	2.367	0.000	826175	10.0	10.3	
* 4 n-Heptyl Alcohol						
2.587	2.584	0.003	5541416	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.193	3.198	-0.005	64658	10.0	11.3	M
6 Propylene glycol						
3.886	3.888	-0.002	232103	10.0	11.4	Ma
7 Ethylene glycol						
4.157	4.161	-0.004	413355	10.0	10.1	M
8 2-(2-Butoxyethoxy)ethanol						
5.681	5.683	-0.002	595674	10.0	10.0	
9 2,2'-Oxybisethanol						
7.796	7.799	-0.003	282517	10.0	11.9	
10 Triethylene Glycol						
9.723	9.724	-0.001	265082	10.0	11.4	
11 Tetraethylene Glycol						
10.555	10.556	-0.001	527792	20.0	22.9	

QC Flag Legend  
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 5.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D

Injection Date: 27-May-2023 20:41:37

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

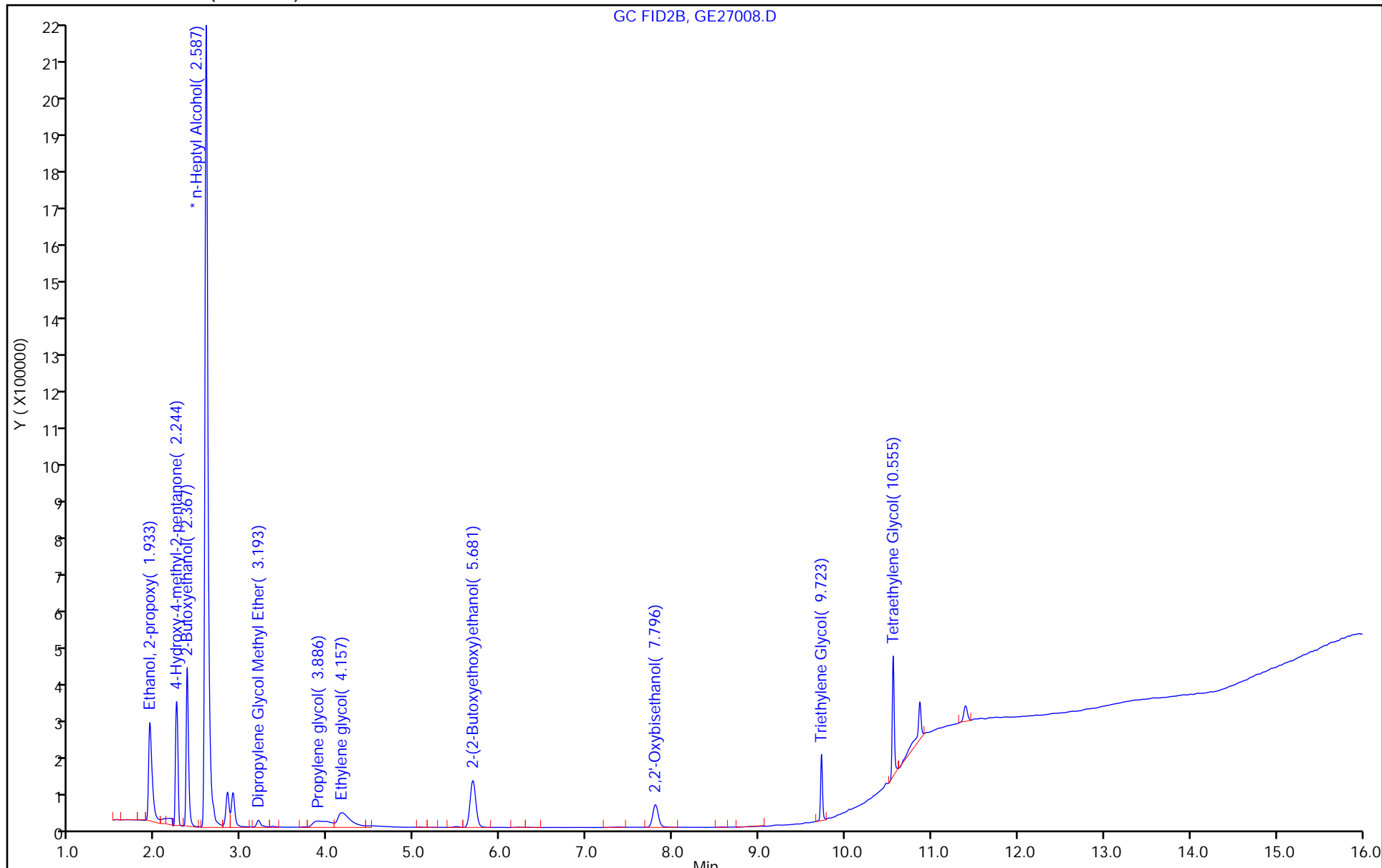
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

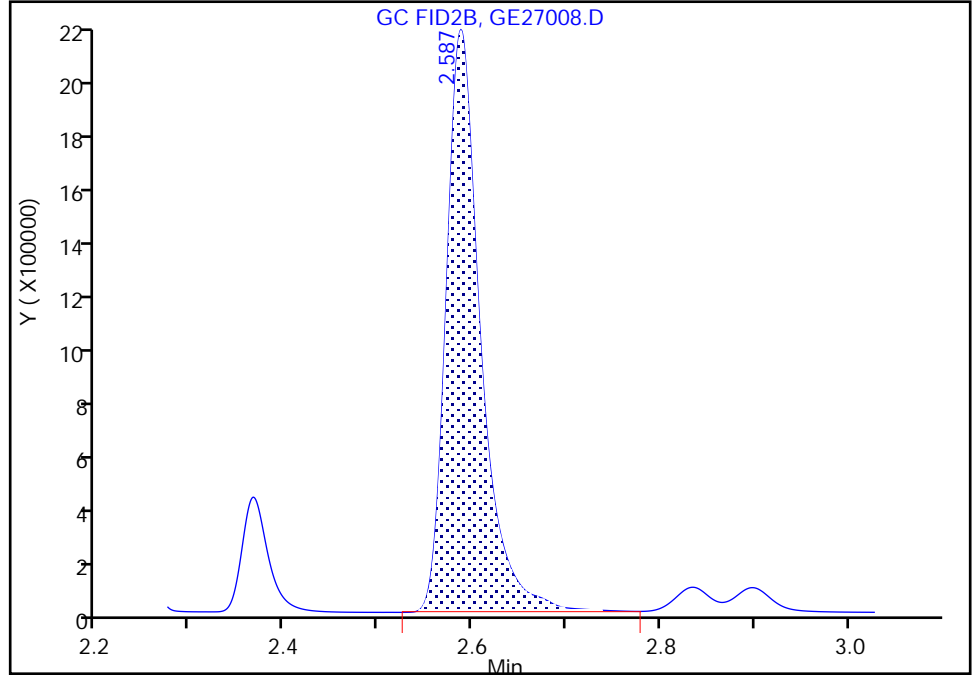
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D  
Injection Date: 27-May-2023 20:41:37 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

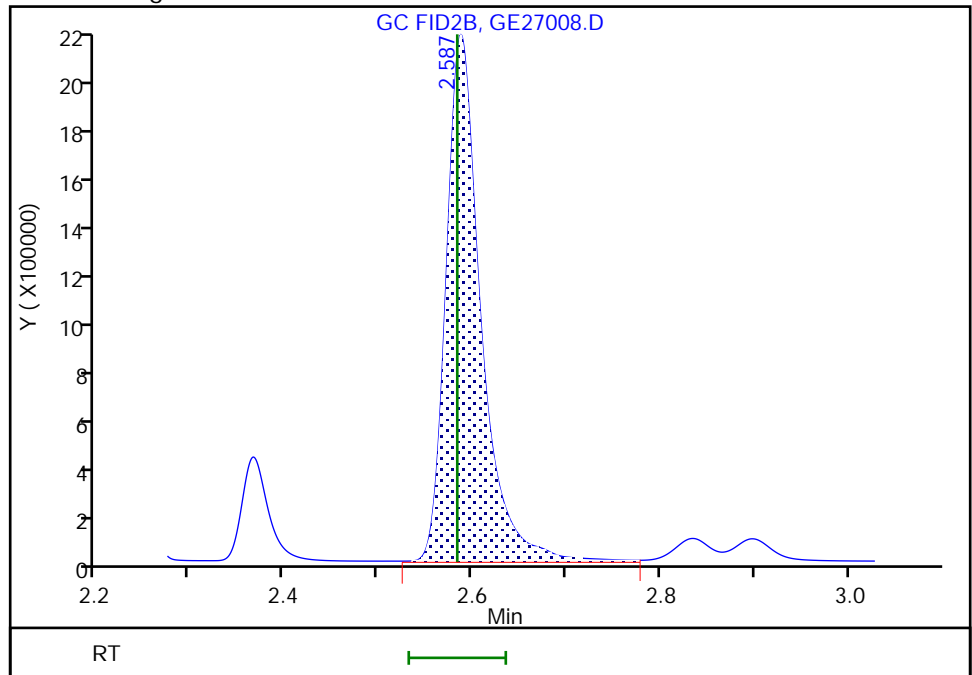
RT: 2.59  
Area: 5510940  
Amount: 50.000000  
Amount Units: ug/ml

Processing Integration Results



RT: 2.59  
Area: 5541416  
Amount: 50.000000  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:39:43 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

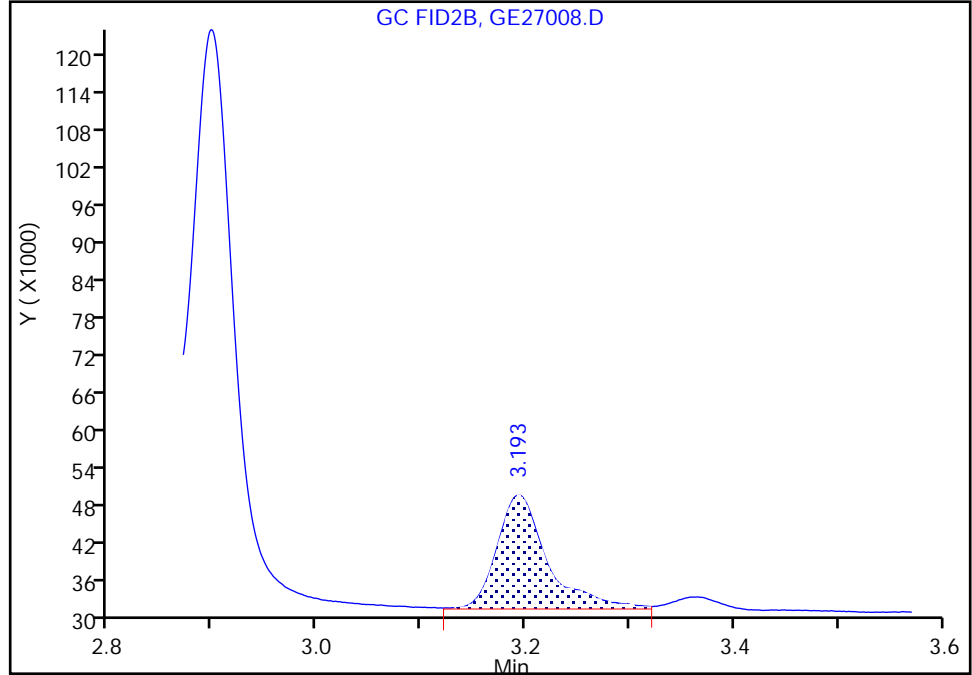
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D  
Injection Date: 27-May-2023 20:41:37 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

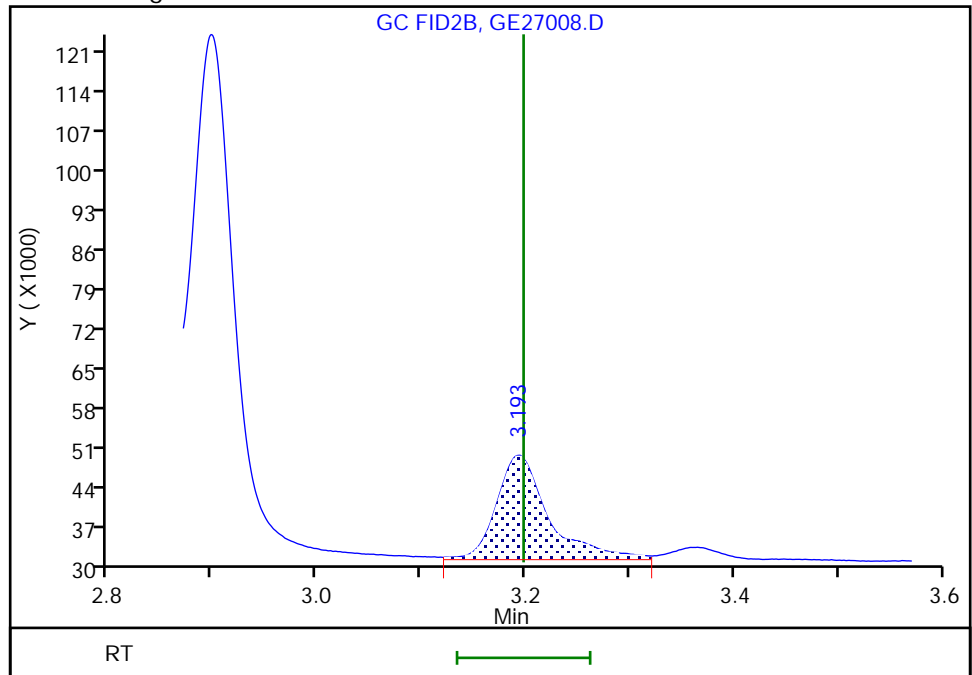
RT: 3.19  
Area: 61184  
Amount: 10.816234  
Amount Units: ug/ml

Processing Integration Results



RT: 3.19  
Area: 64658  
Amount: 11.312760  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:39:43 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

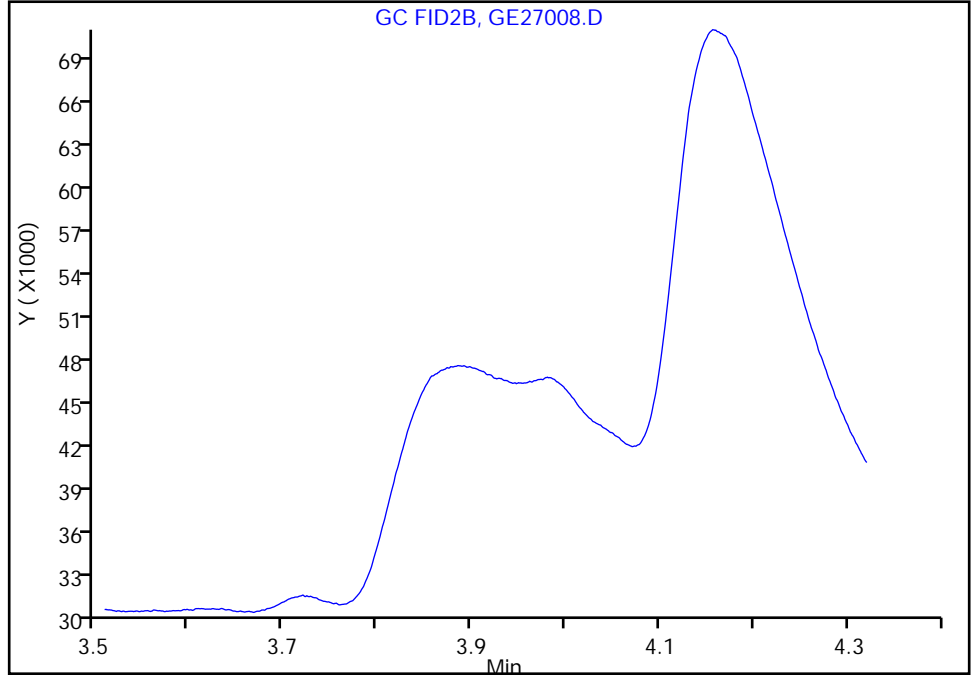
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D  
Injection Date: 27-May-2023 20:41:37 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

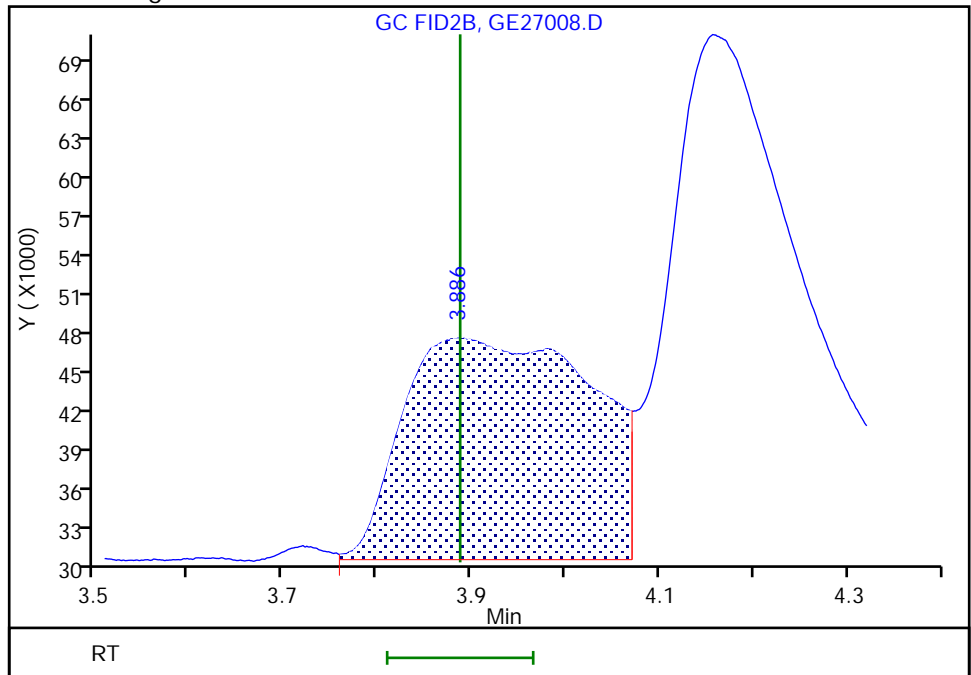
Not Detected  
Expected RT: 3.89

Processing Integration Results



RT: 3.89  
Area: 232103  
Amount: 11.445947  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:39:54 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Savannah

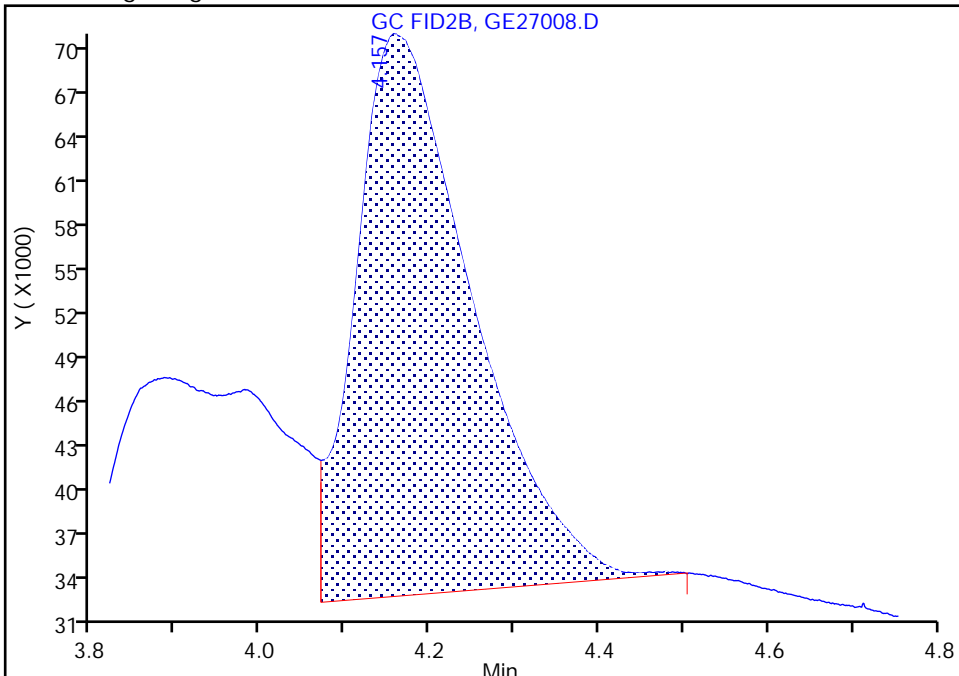
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27008.D  
Injection Date: 27-May-2023 20:41:37 Instrument ID: CVGG2  
Lims ID: ic g3  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

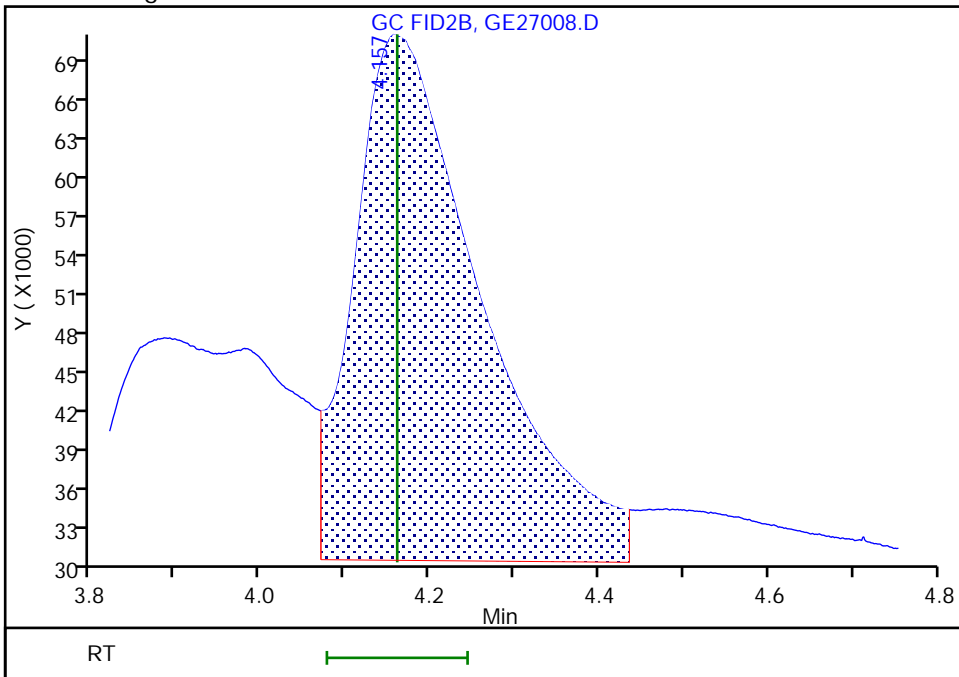
RT: 4.16  
Area: 357110  
Amount: 8.536401  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 413355  
Amount: 10.116906  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:46:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D  
 Lims ID: ic g2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 27-May-2023 21:04:44 ALS Bottle#: 0 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-009  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:27 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U

Date: 30-May-2023 10:39:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.937	1.937	0.000	429605	5.00	5.84	
2 4-Hydroxy-4-methyl-2-pentanone						
2.249	2.247	0.002	370399	5.00	5.60	
3 2-Butoxyethanol						
2.366	2.367	-0.001	433909	5.00	5.50	M
* 4 n-Heptyl Alcohol						
2.580	2.584	-0.004	5435525	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.198	3.198	0.000	30652	5.00	5.47	M
6 Propylene glycol						
3.989	3.888	0.101	125067	5.00	6.29	M
7 Ethylene glycol						
4.163	4.161	0.002	233900	5.00	4.89	M
8 2-(2-Butoxyethoxy)ethanol						
5.681	5.683	-0.002	335653	5.00	5.77	
9 2,2'-Oxybisethanol						
7.796	7.799	-0.003	163465	5.00	7.05	
10 Triethylene Glycol						
9.723	9.724	-0.001	149292	5.00	6.57	
11 Tetraethylene Glycol						
10.555	10.556	-0.001	308881	10.0	13.6	M

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 2.50

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D

Injection Date: 27-May-2023 21:04:44

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

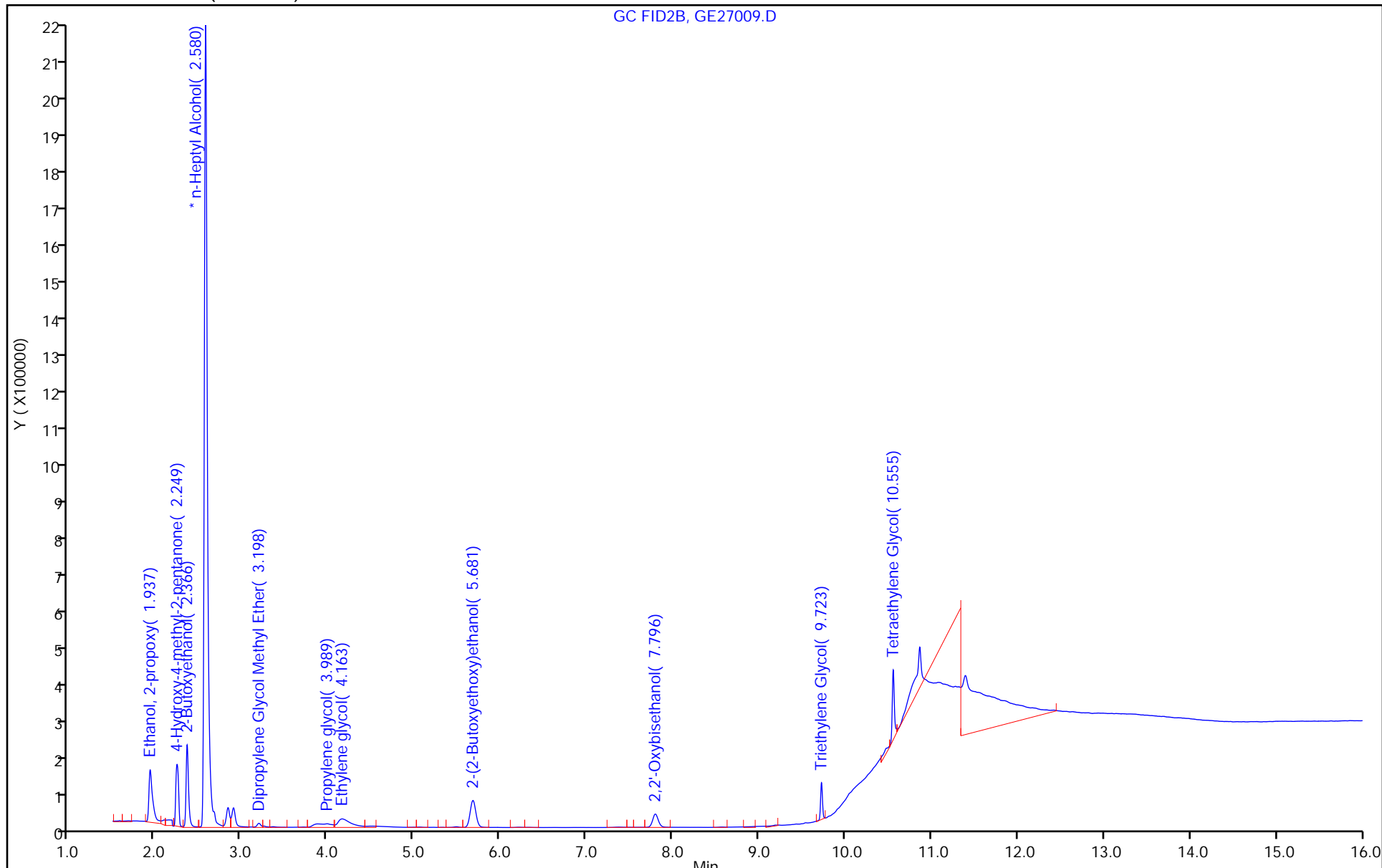
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

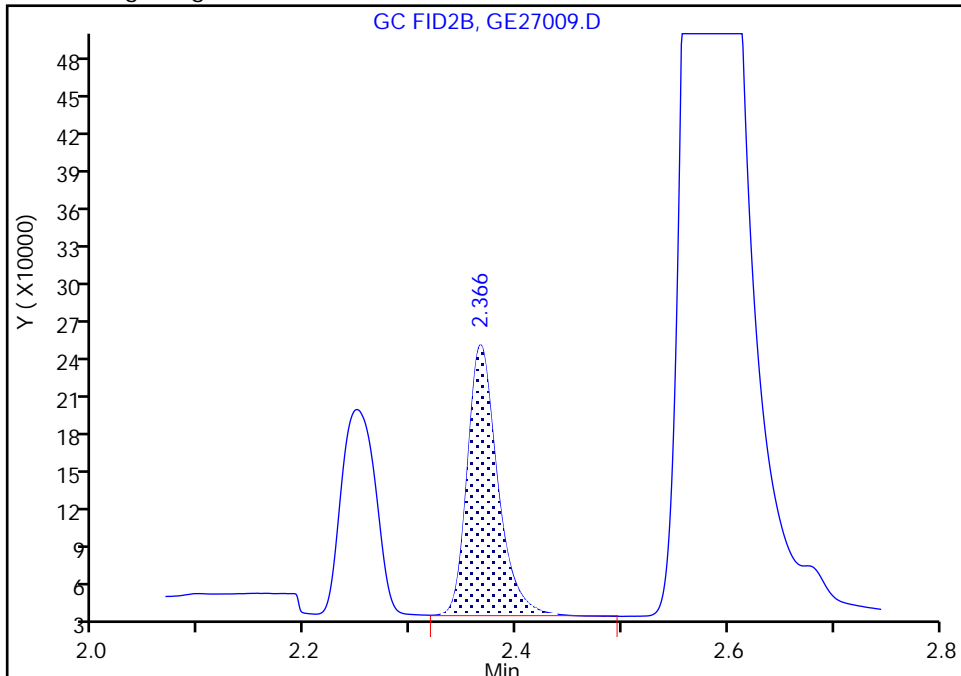
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D  
Injection Date: 27-May-2023 21:04:44 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2

Signal: 1

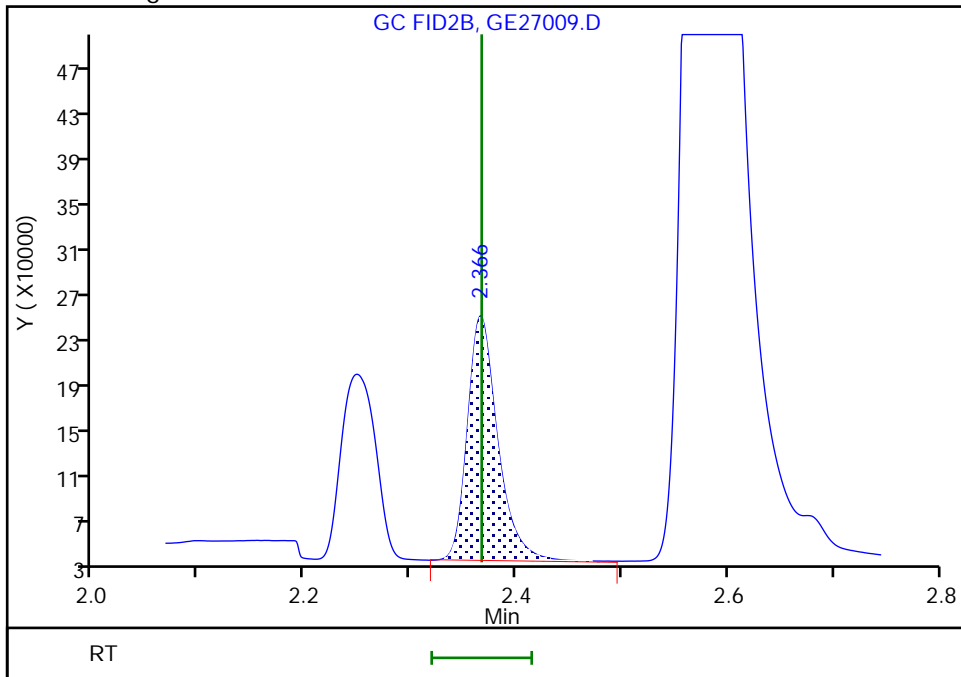
RT: 2.37  
Area: 430682  
Amount: 5.478797  
Amount Units: ug/ml

Processing Integration Results



RT: 2.37  
Area: 433909  
Amount: 5.499612  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:38:46 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

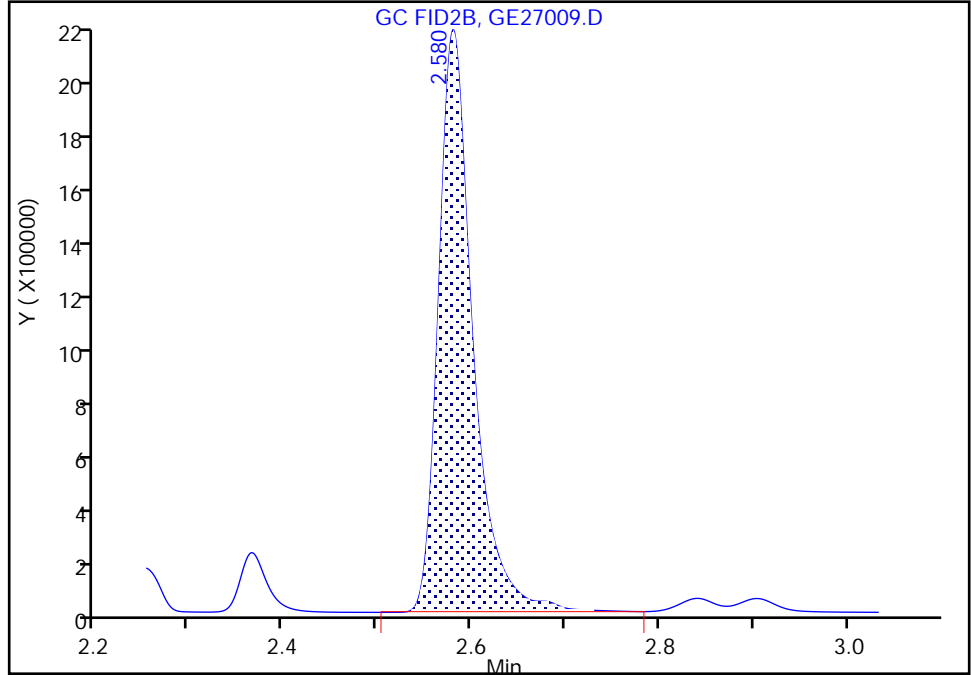
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D  
Injection Date: 27-May-2023 21:04:44 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

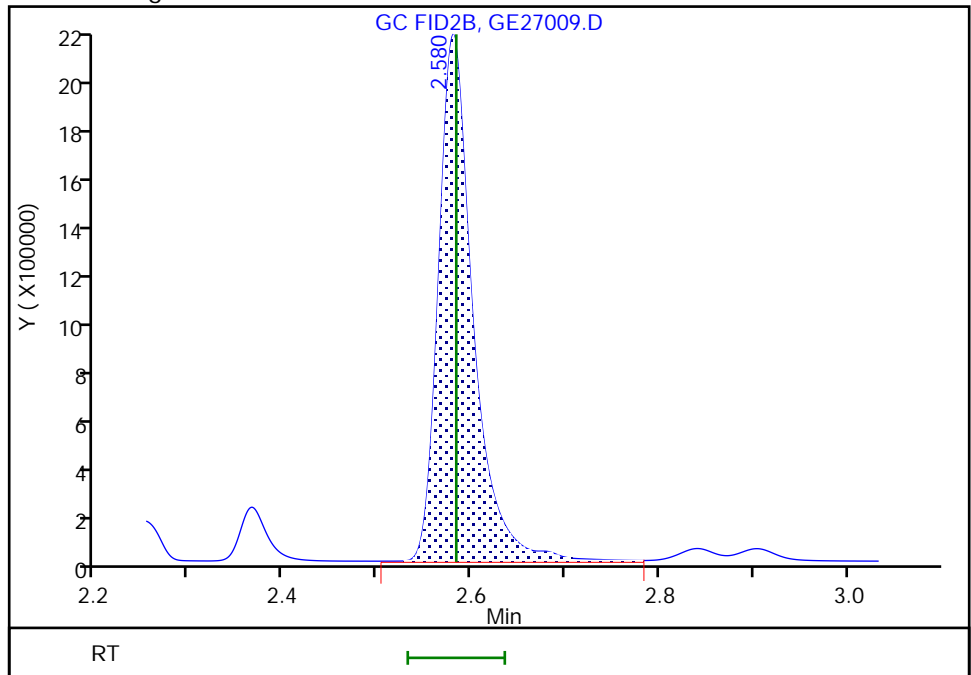
Processing Integration Results

RT: 2.58  
Area: 5410804  
Amount: 50.000000  
Amount Units: ug/ml



Manual Integration Results

RT: 2.58  
Area: 5435525  
Amount: 50.000000  
Amount Units: ug/ml



Reviewer: SK9U, 30-May-2023 10:38:46 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

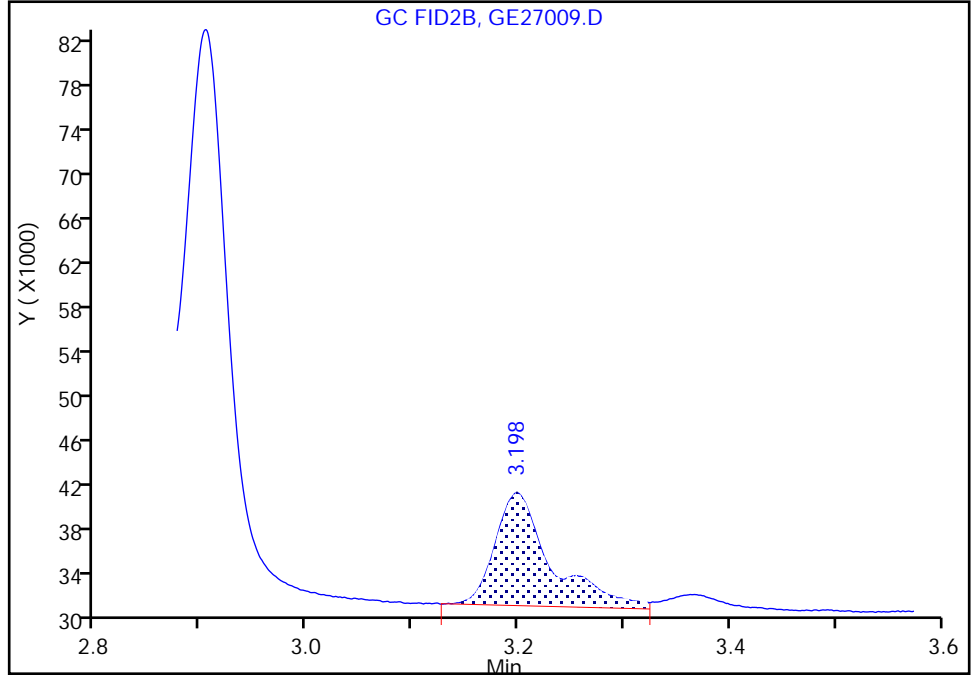
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D  
Injection Date: 27-May-2023 21:04:44 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

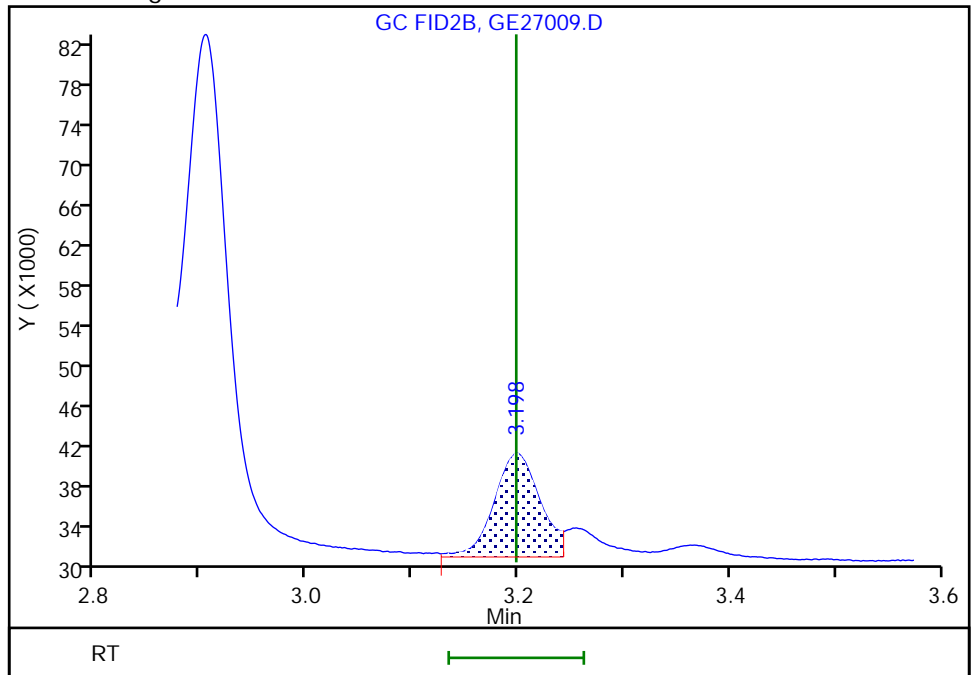
RT: 3.20  
Area: 36575  
Amount: 5.531433  
Amount Units: ug/ml

Processing Integration Results



RT: 3.20  
Area: 30652  
Amount: 5.467444  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:38:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Savannah

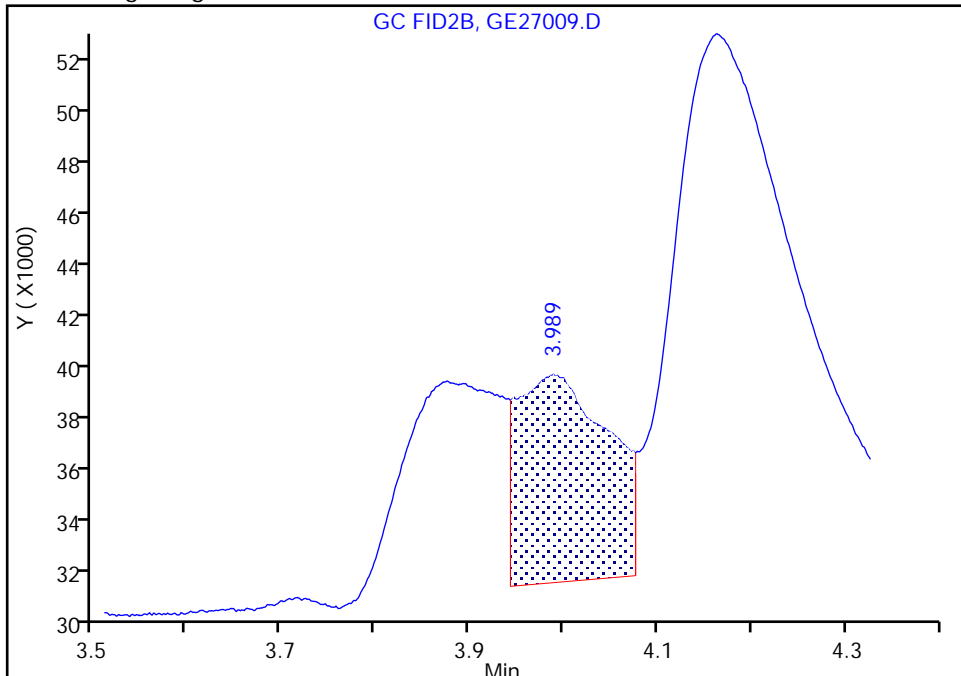
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D		
Injection Date:	27-May-2023 21:04:44	Instrument ID:	CVGG2
Lims ID:	ic g2		
Client ID:			
Operator ID:		ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX ( 0.45 mm)	Detector:	GC FID2B
		Worklist Smp#:	9

6 Propylene glycol, CAS: 57-55-6

Signal: 1

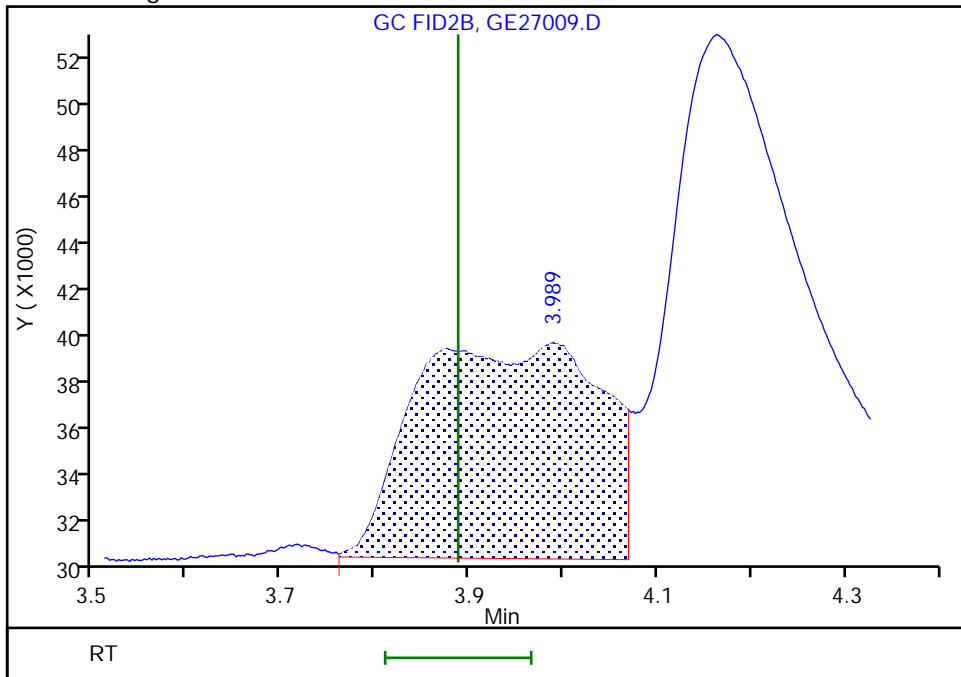
RT: 3.99  
 Area: 53124  
 Amount: 5.000000  
 Amount Units: ug/ml

Processing Integration Results



RT: 3.99  
 Area: 125067  
 Amount: 6.287717  
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:39:18 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah

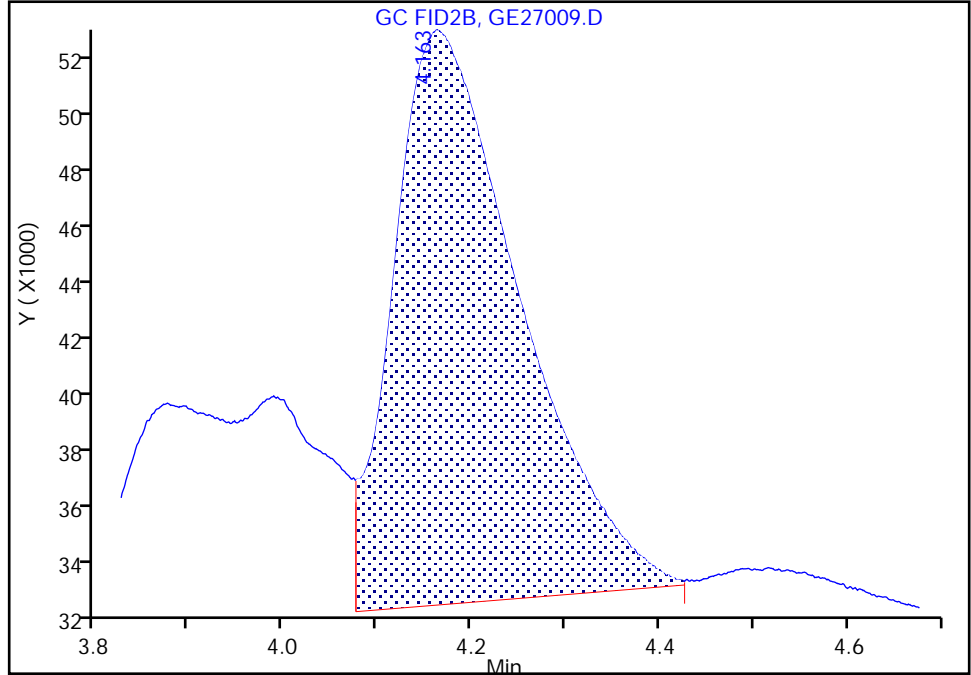
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D  
Injection Date: 27-May-2023 21:04:44 Instrument ID: CVGG2  
Lims ID: ic g2  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

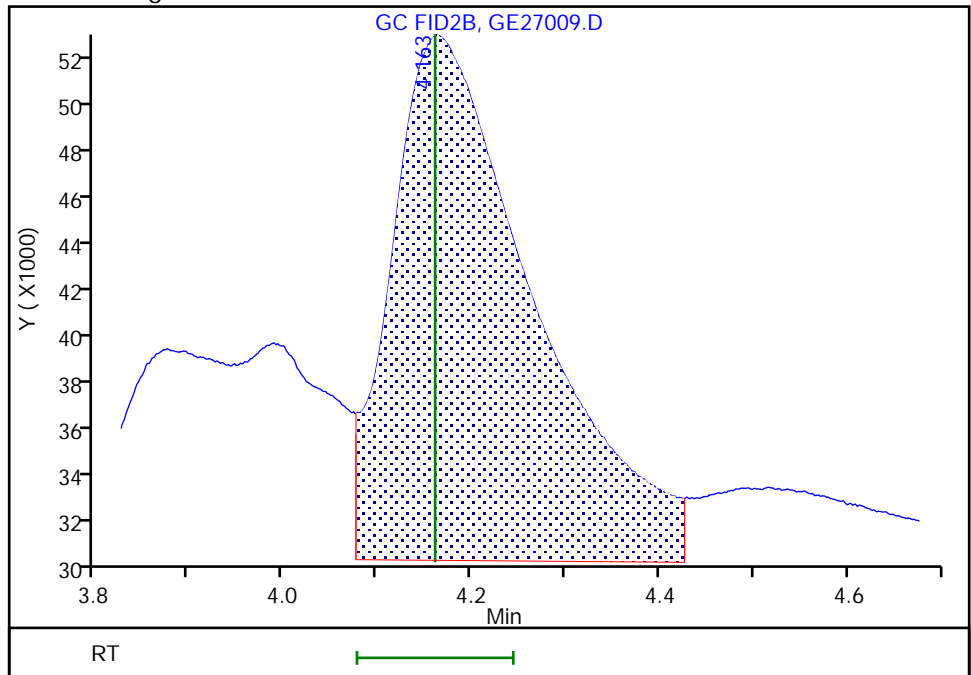
RT: 4.16  
Area: 191879  
Amount: 4.243533  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 233900  
Amount: 4.888884  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:39:18 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration



Eurofins Savannah

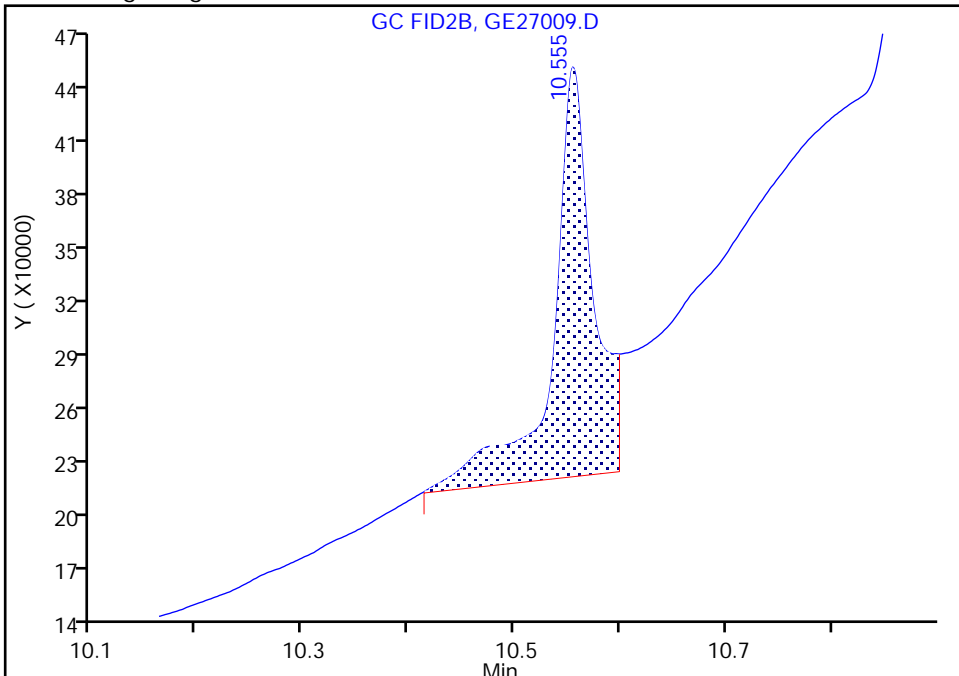
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27009.D		
Injection Date:	27-May-2023 21:04:44	Instrument ID:	CVGG2
Lims ID:	ic g2		
Client ID:			
Operator ID:		ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX ( 0.45 mm)	Detector:	GC FID2B
		Worklist Smp#:	9

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

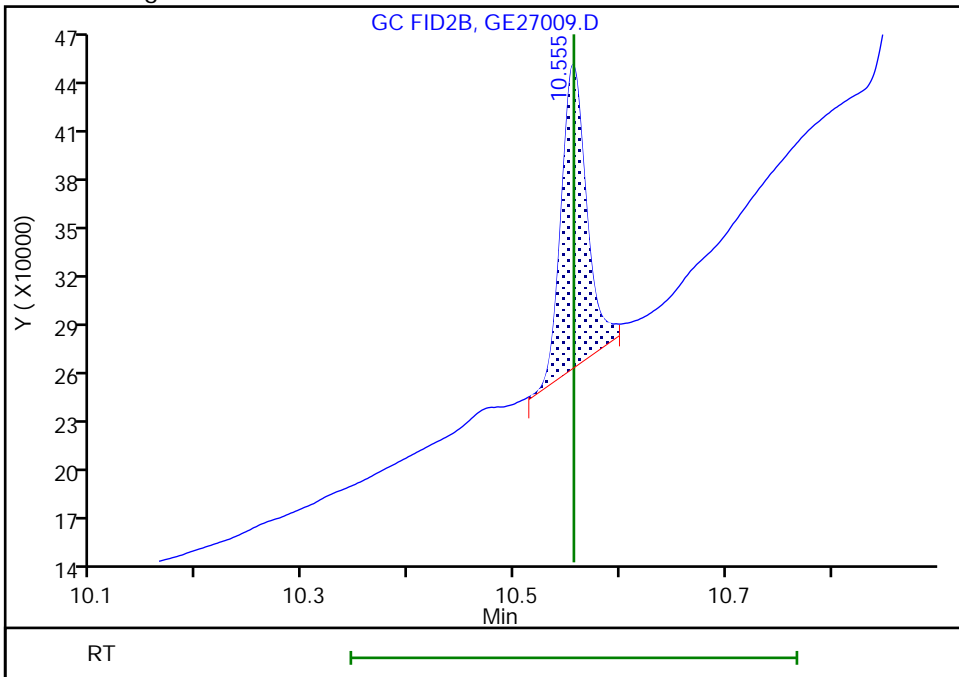
RT: 10.56  
 Area: 600891  
 Amount: 16.385304  
 Amount Units: ug/ml

Processing Integration Results



RT: 10.56  
 Area: 308881  
 Amount: 13.645181  
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:38:33 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Lims ID: ic g1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 27-May-2023 21:27:56 ALS Bottle#: 0 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-010  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 11:14:29 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 11:13:53

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.938	1.937	0.001	165979	2.00	2.14	
2 4-Hydroxy-4-methyl-2-pentanone						
2.248	2.247	0.001	156134	2.00	2.24	
3 2-Butoxyethanol						
2.368	2.367	0.001	194841	2.00	2.35	
* 4 n-Heptyl Alcohol						
2.585	2.584	0.001	5722242	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.196	3.198	-0.002	10508	2.00	1.78	M
6 Propylene glycol						
3.992	3.888	0.104	53578	2.00	2.56	M
7 Ethylene glycol						
4.164	4.161	0.003	104707	2.00	0.7920	M
8 2-(2-Butoxyethoxy)ethanol						
5.681	5.683	-0.002	137878	2.00	2.25	M
9 2,2'-Oxybisethanol						
7.800	7.799	0.001	66971	2.00	2.74	
10 Triethylene Glycol						
9.724	9.724	0.000	64790	2.00	2.71	
11 Tetraethylene Glycol						
10.556	10.556	0.000	120099	4.00	5.04	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 1.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D

Injection Date: 27-May-2023 21:27:56

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

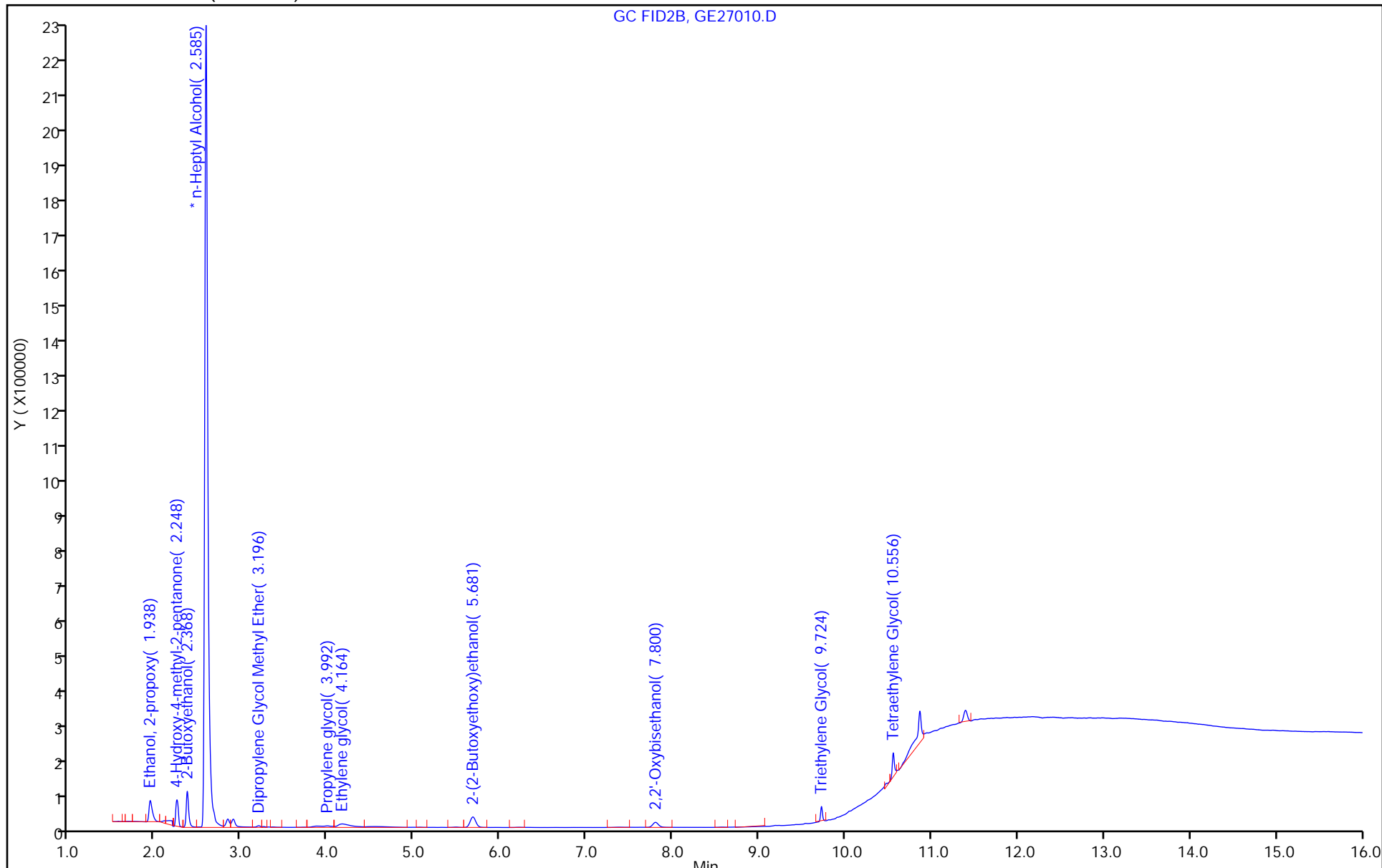
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

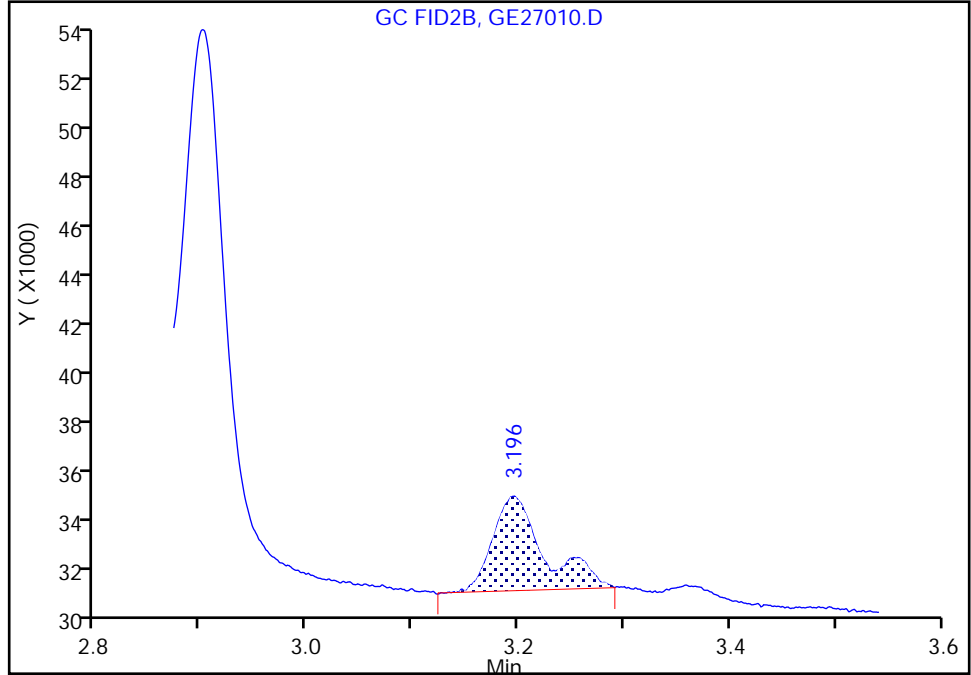
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
Injection Date: 27-May-2023 21:27:56 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

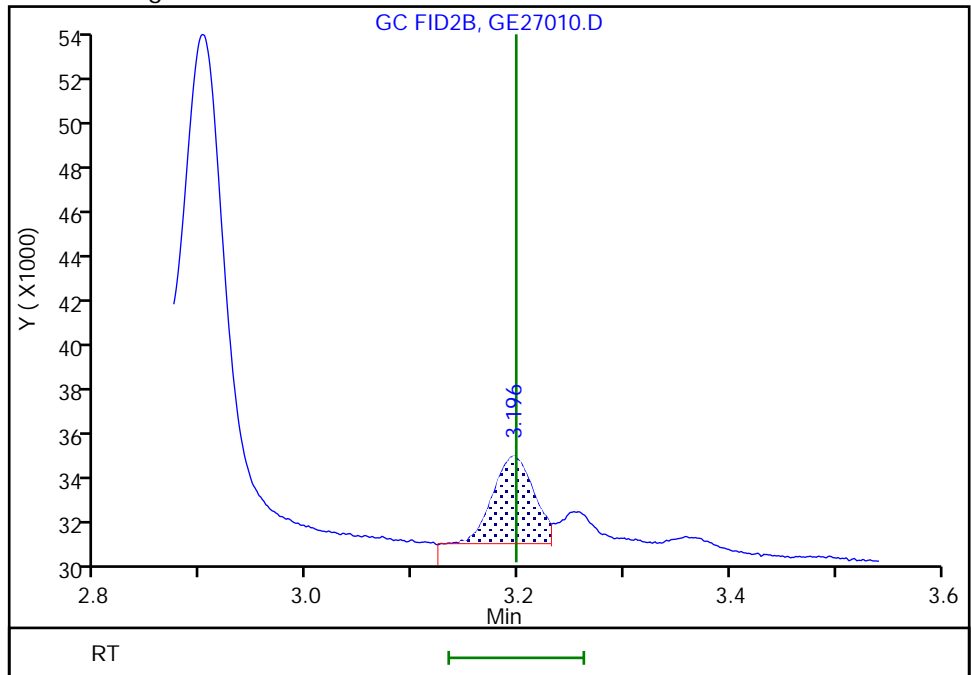
RT: 3.20  
Area: 12607  
Amount: 0.982497  
Amount Units: ug/ml

Processing Integration Results



RT: 3.20  
Area: 10508  
Amount: 1.780414  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:37:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Savannah

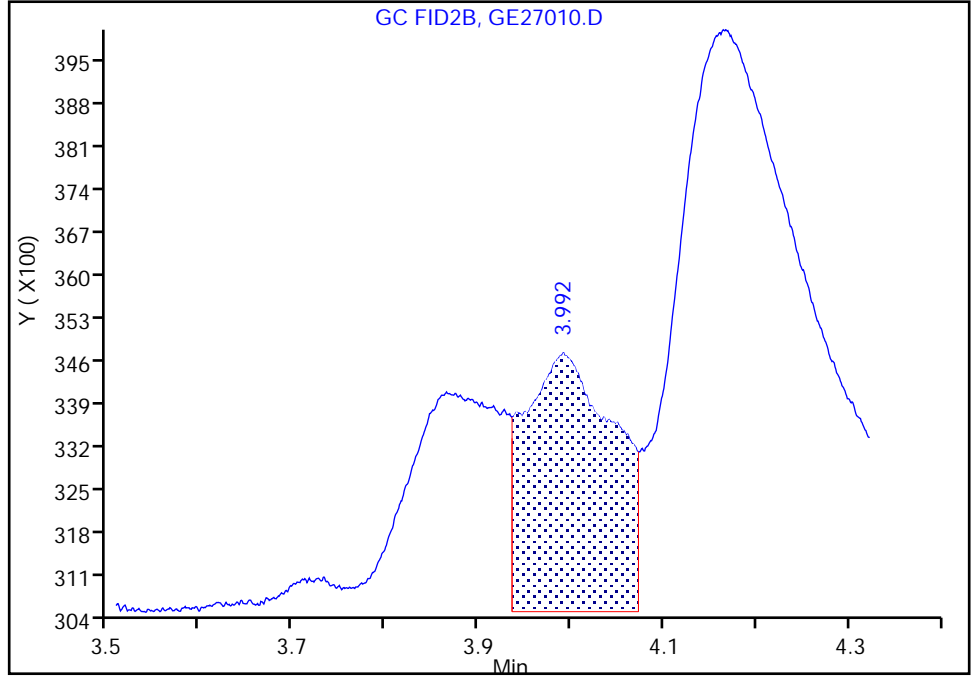
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
Injection Date: 27-May-2023 21:27:56 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

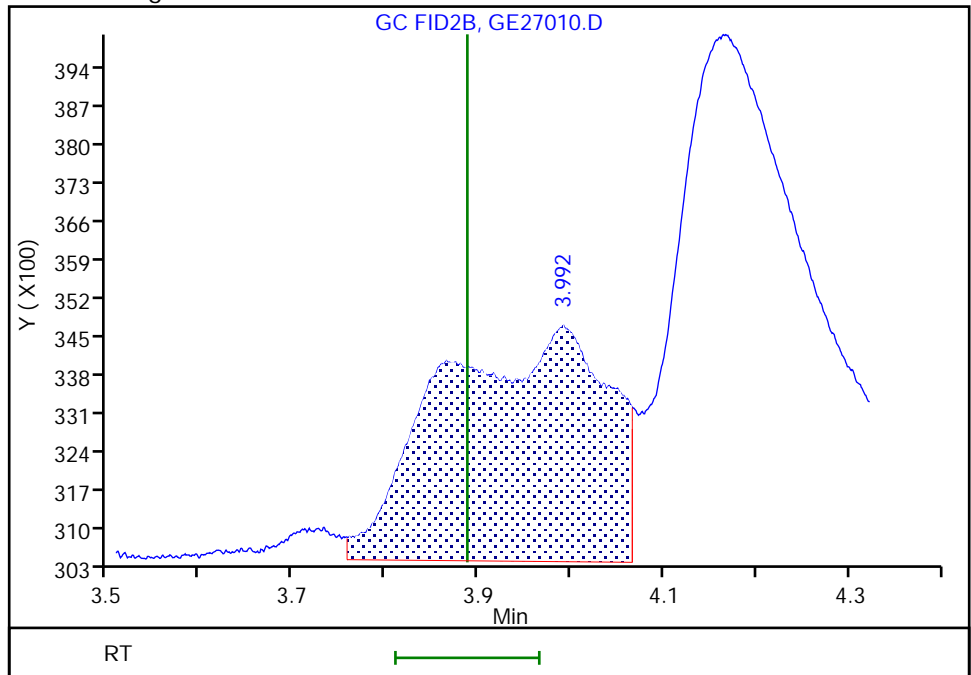
RT: 3.99  
Area: 28453  
Amount: 2.234864  
Amount Units: ug/ml

Processing Integration Results



RT: 3.99  
Area: 53578  
Amount: 2.558657  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:38:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah

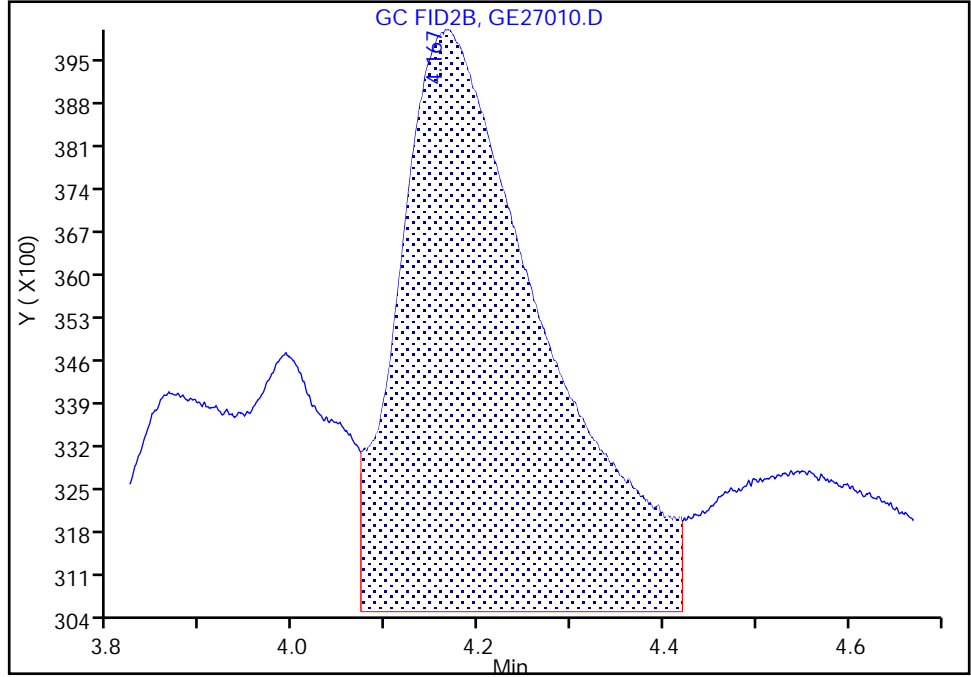
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
Injection Date: 27-May-2023 21:27:56 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

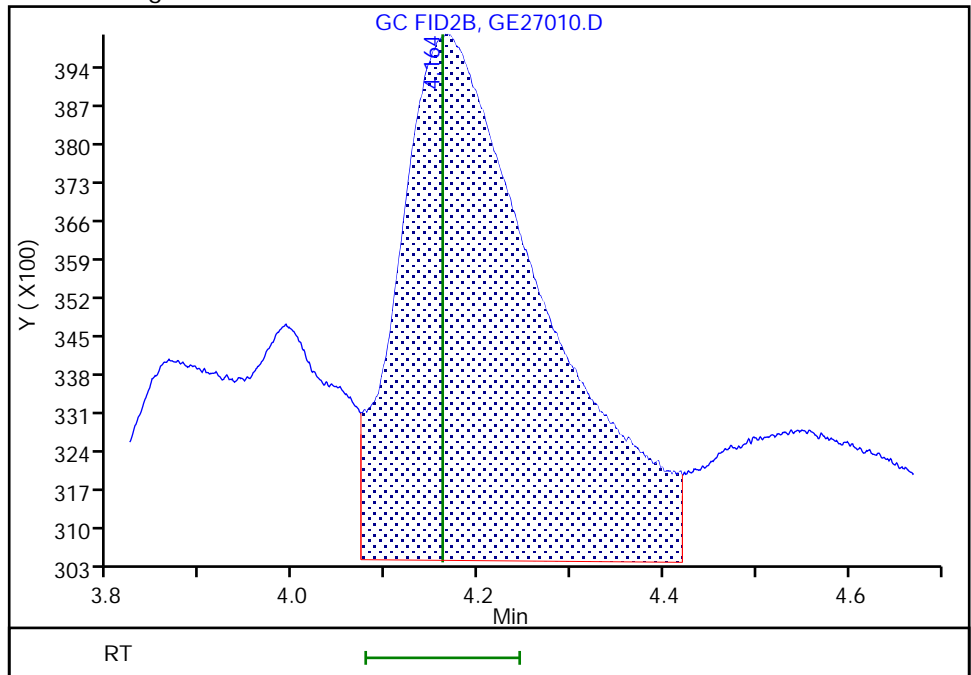
RT: 4.17  
Area: 103518  
Amount: 1.546992  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 104707  
Amount: 0.791963  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:37:03 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

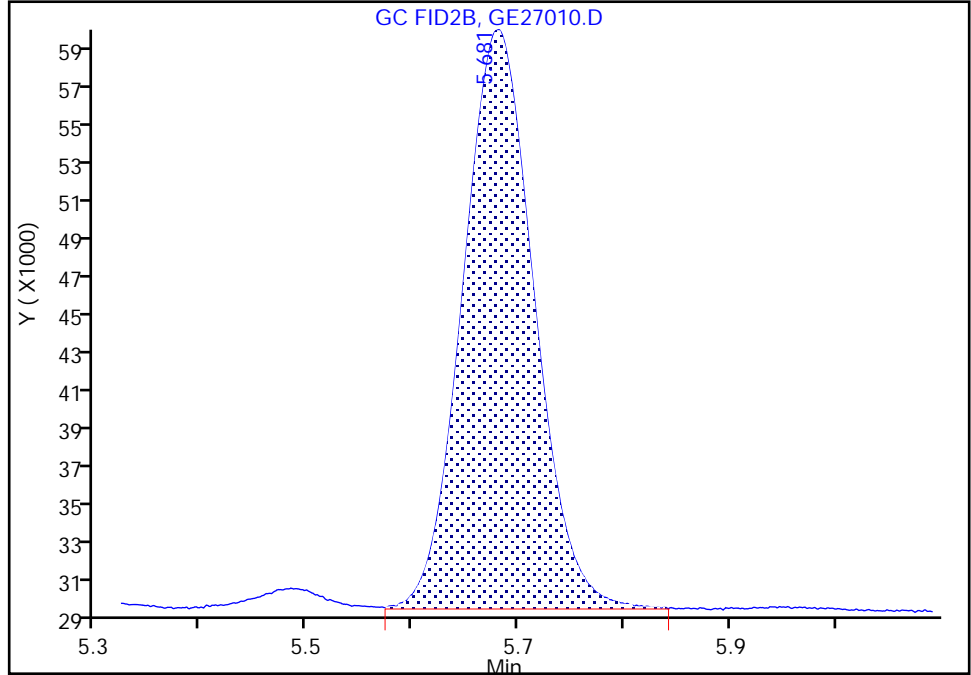
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
Injection Date: 27-May-2023 21:27:56 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

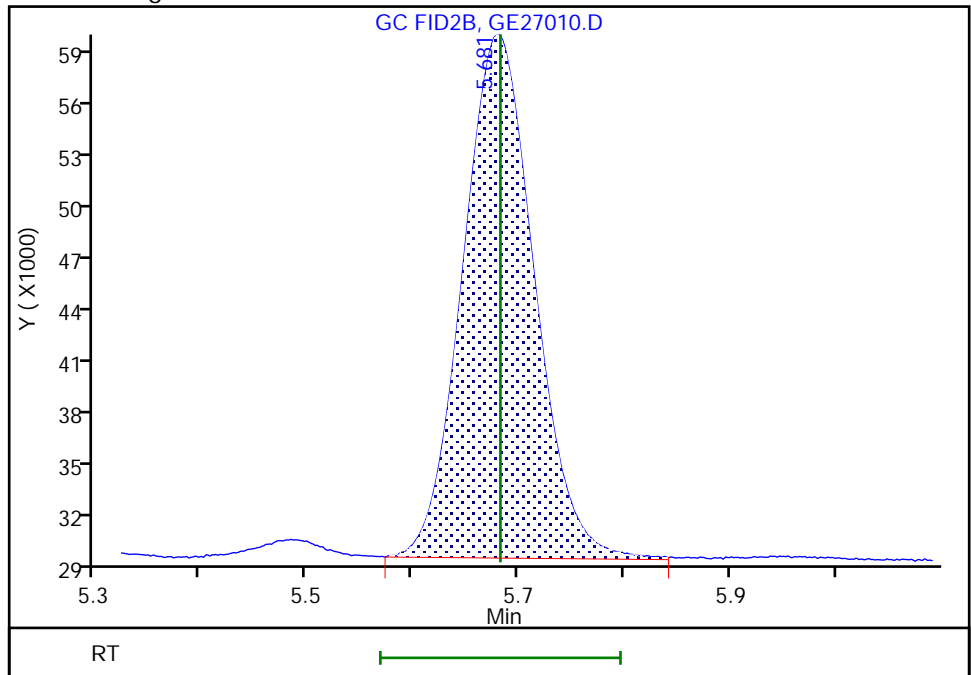
RT: 5.68  
Area: 137395  
Amount: 2.230354  
Amount Units: ug/ml

Processing Integration Results



RT: 5.68  
Area: 137878  
Amount: 2.250423  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:37:03 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing



Eurofins Savannah

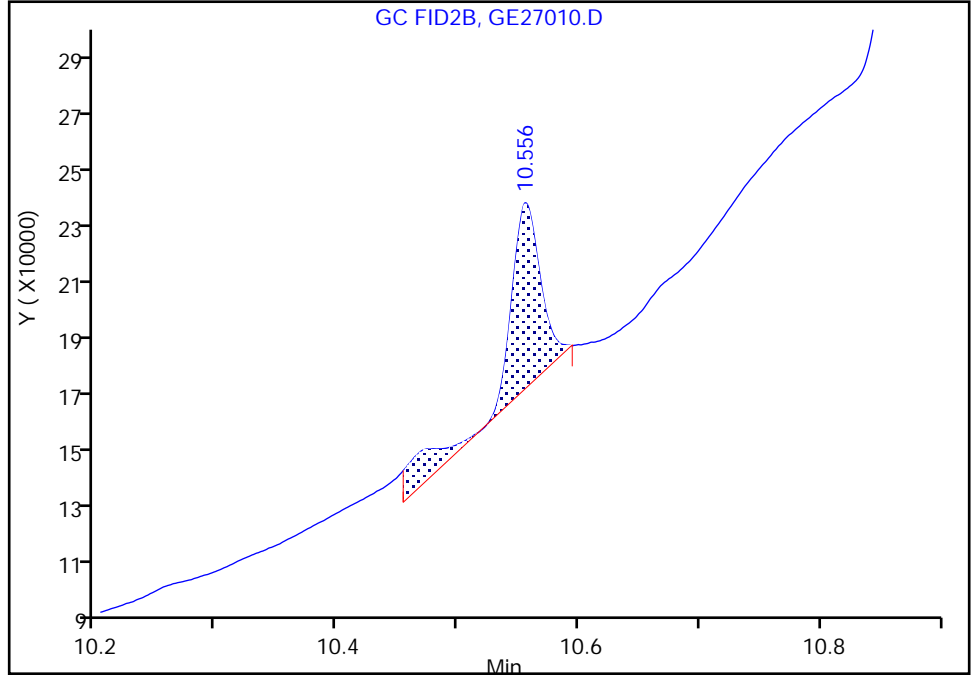
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
Injection Date: 27-May-2023 21:27:56 Instrument ID: CVGG2  
Lims ID: ic g1  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

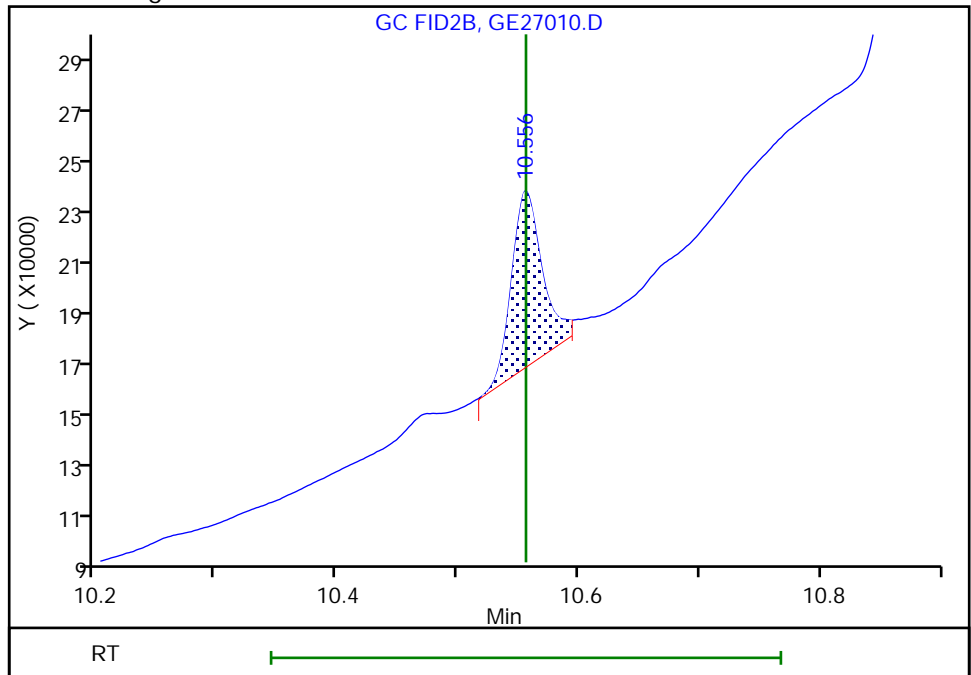
RT: 10.56  
Area: 130645  
Amount: 3.336183  
Amount Units: ug/ml

Processing Integration Results



RT: 10.56  
Area: 120099  
Amount: 5.039678  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:36:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

**Calibration**

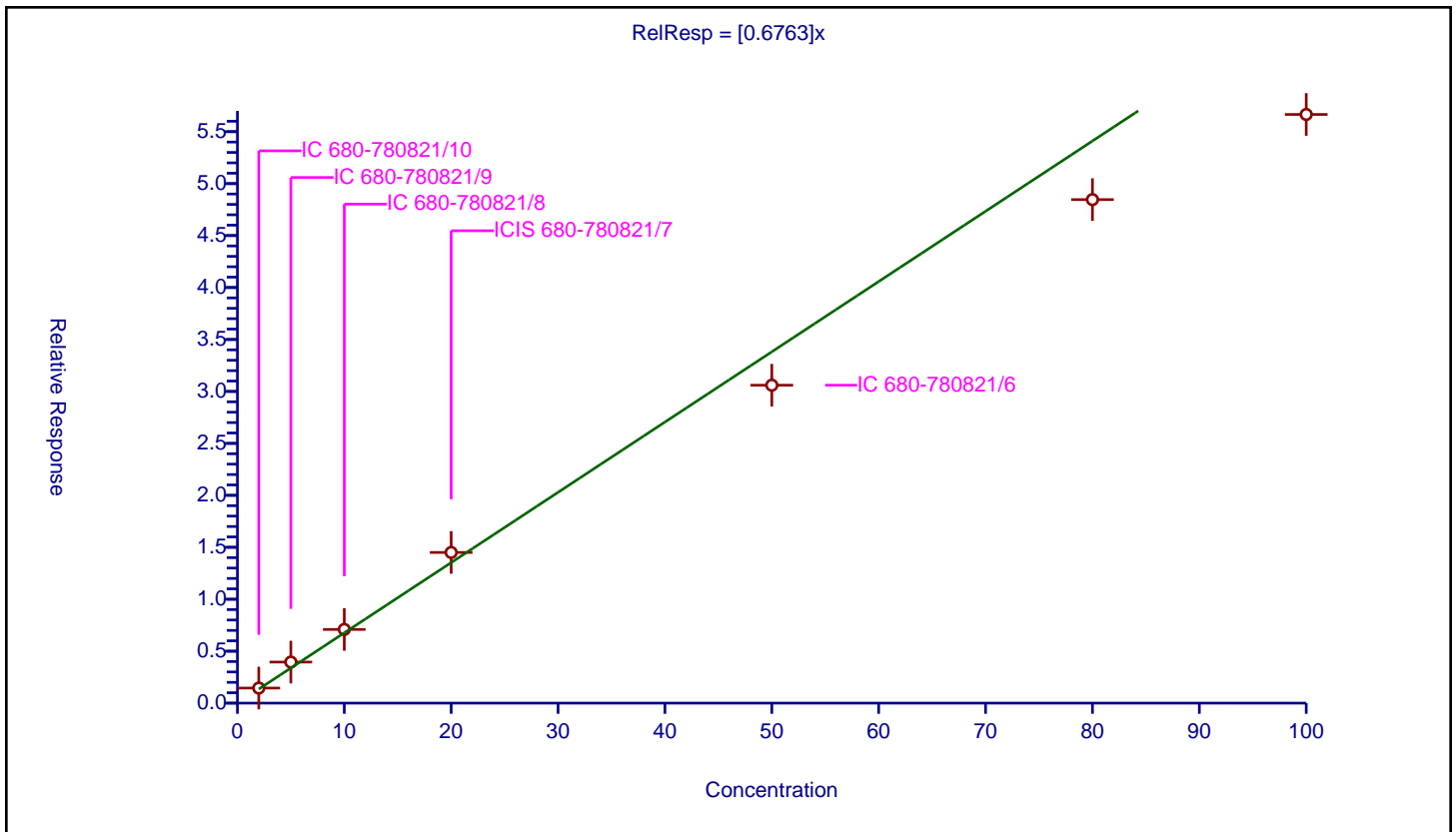
/ Ethanol, 2-propoxy

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

Curve Coefficients	
Intercept:	0
Slope:	0.6763

Error Coefficients	
Standard Error:	3470000
Relative Standard Error:	12.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	1.450297	50.0	5722242.0	0.725148	Y
2	IC 680-780821/9	5.0	3.951826	50.0	5435525.0	0.790365	Y
3	IC 680-780821/8	10.0	7.090913	50.0	5541416.0	0.709091	Y
4	ICIS 680-780821/7	20.0	14.502293	50.0	4761954.0	0.725115	Y
5	IC 680-780821/6	50.0	30.596703	50.0	5062230.0	0.611934	Y
6	IC 680-780821/5	80.0	48.461586	50.0	5153651.0	0.60577	Y
7	IC 680-780821/4	100.0	56.655301	50.0	5219516.0	0.566553	Y



**Calibration**

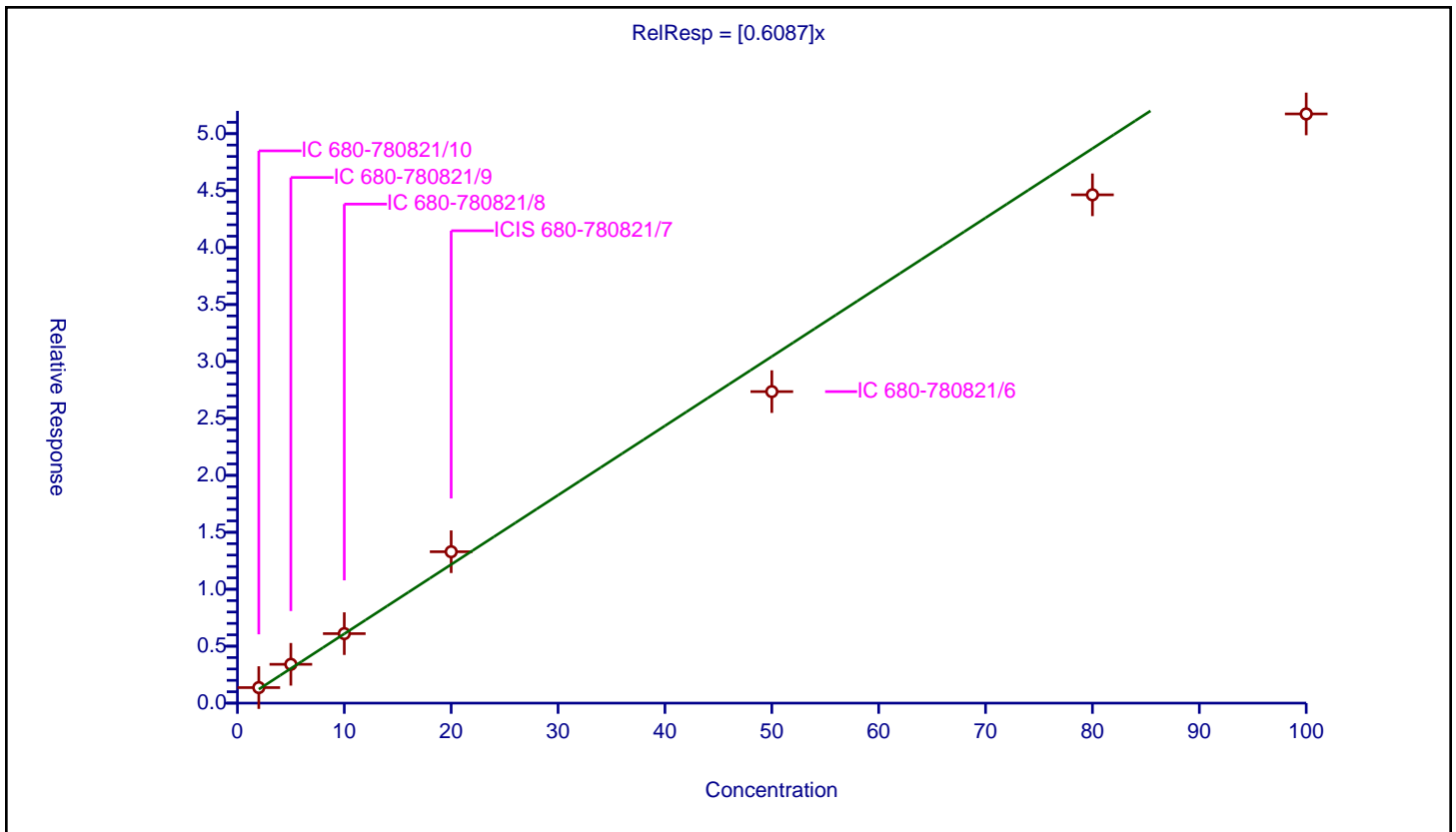
**/ 4-Hydroxy-4-methyl-2-pentanone**

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

Curve Coefficients	
Intercept:	0
Slope:	0.6087

Error Coefficients	
Standard Error:	3170000
Relative Standard Error:	11.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	1.364273	50.0	5722242.0	0.682136	Y
2	IC 680-780821/9	5.0	3.407205	50.0	5435525.0	0.681441	Y
3	IC 680-780821/8	10.0	6.102736	50.0	5541416.0	0.610274	Y
4	ICIS 680-780821/7	20.0	13.292548	50.0	4761954.0	0.664627	Y
5	IC 680-780821/6	50.0	27.35337	50.0	5062230.0	0.547067	Y
6	IC 680-780821/5	80.0	44.63168	50.0	5153651.0	0.557896	Y
7	IC 680-780821/4	100.0	51.732498	50.0	5219516.0	0.517325	Y



Calibration

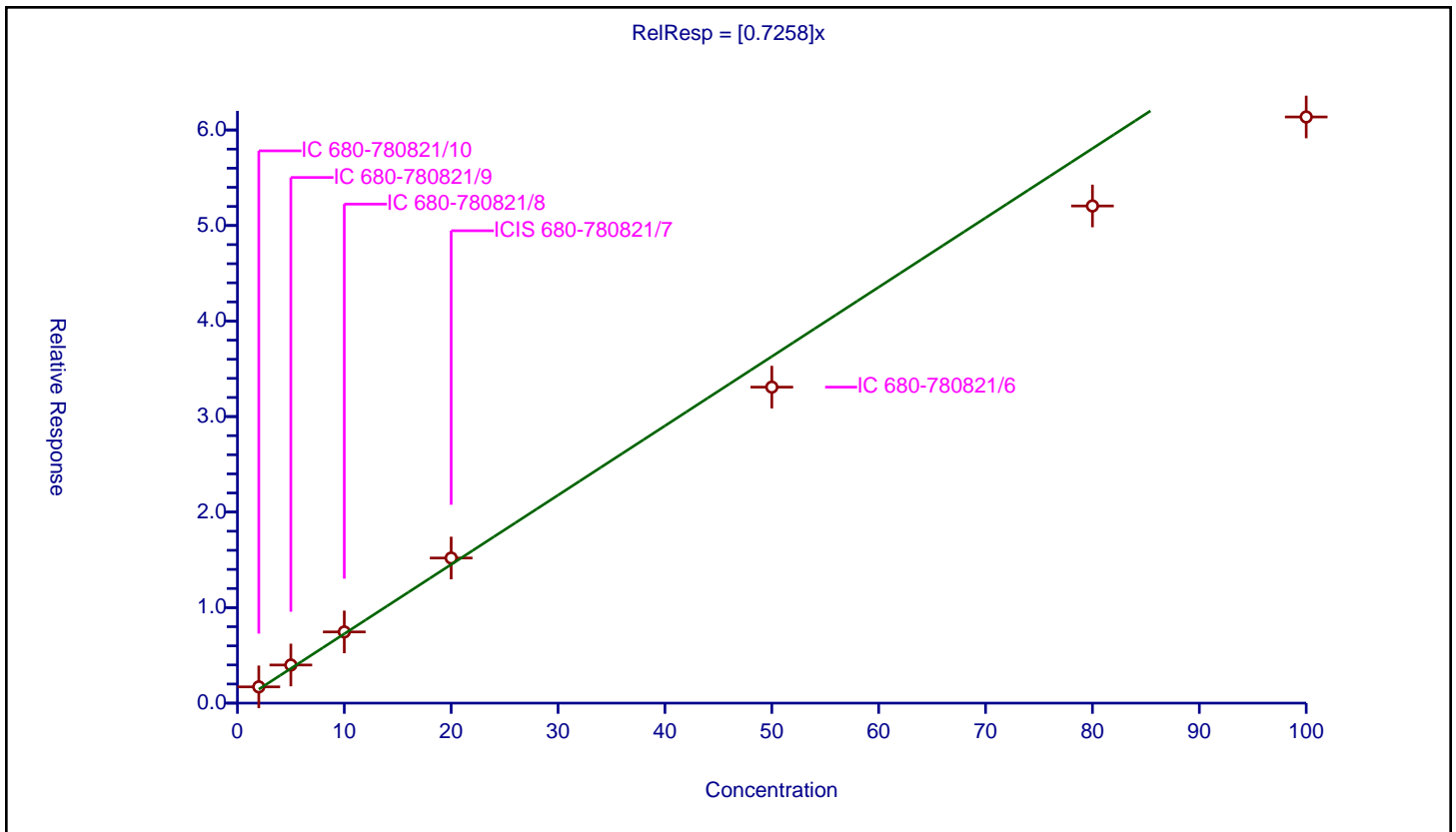
/ 2-Butoxyethanol

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

Curve Coefficients	
Intercept:	0
Slope:	0.7258

Error Coefficients	
Standard Error:	3740000
Relative Standard Error:	11.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	1.702488	50.0	5722242.0	0.851244	Y
2	IC 680-780821/9	5.0	3.991418	50.0	5435525.0	0.798284	Y
3	IC 680-780821/8	10.0	7.454548	50.0	5541416.0	0.745455	Y
4	ICIS 680-780821/7	20.0	15.190245	50.0	4761954.0	0.759512	Y
5	IC 680-780821/6	50.0	33.081735	50.0	5062230.0	0.661635	Y
6	IC 680-780821/5	80.0	52.045191	50.0	5153651.0	0.650565	Y
7	IC 680-780821/4	100.0	61.364981	50.0	5219516.0	0.61365	Y



**Calibration**

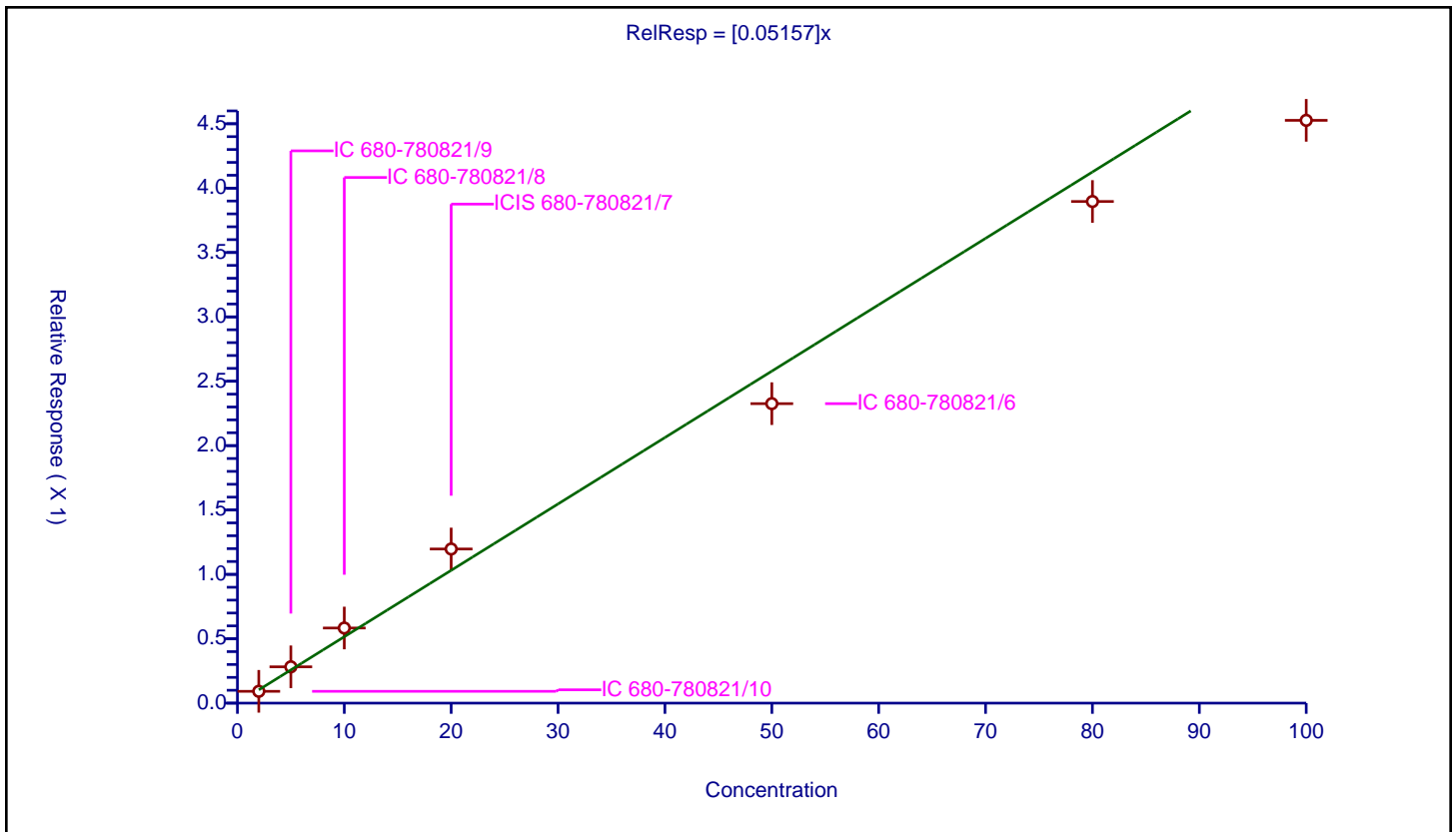
/ Dipropylene Glycol Methyl Ether

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

Curve Coefficients	
Intercept:	0
Slope:	0.05157

Error Coefficients	
Standard Error:	276000
Relative Standard Error:	12.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	0.091817	50.0	5722242.0	0.045909	Y
2	IC 680-780821/9	5.0	0.28196	50.0	5435525.0	0.056392	Y
3	IC 680-780821/8	10.0	0.583407	50.0	5541416.0	0.058341	Y
4	ICIS 680-780821/7	20.0	1.19724	50.0	4761954.0	0.059862	Y
5	IC 680-780821/6	50.0	2.326129	50.0	5062230.0	0.046523	Y
6	IC 680-780821/5	80.0	3.896199	50.0	5153651.0	0.048702	Y
7	IC 680-780821/4	100.0	4.526655	50.0	5219516.0	0.045267	Y



**Calibration**

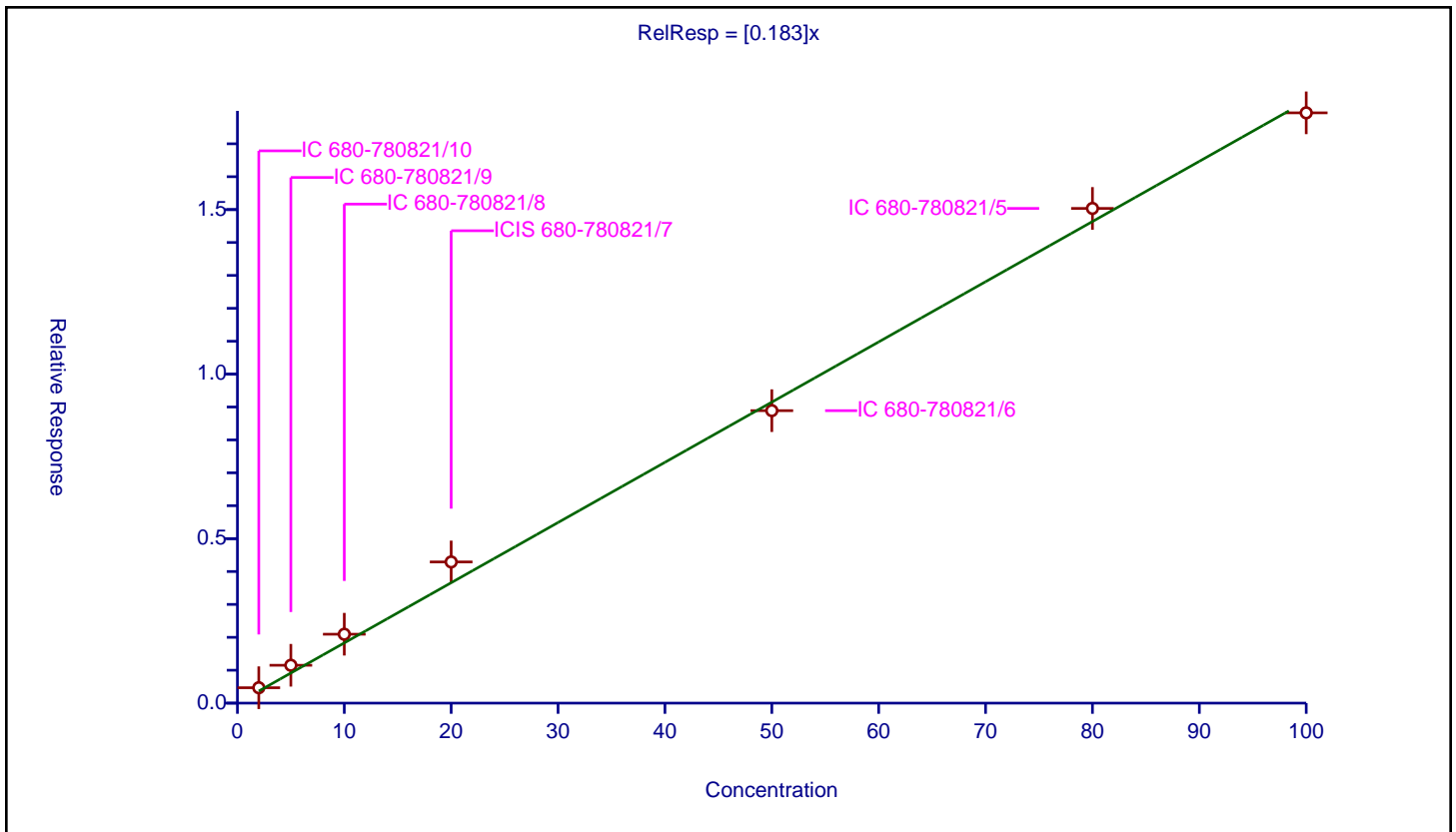
/ Propylene glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.183

Error Coefficients	
Standard Error:	1080000
Relative Standard Error:	18.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	0.468156	50.0	5722242.0	0.234078	Y
2	IC 680-780821/9	5.0	1.150459	50.0	5435525.0	0.230092	Y
3	IC 680-780821/8	10.0	2.094257	50.0	5541416.0	0.209426	Y
4	ICIS 680-780821/7	20.0	4.291096	50.0	4761954.0	0.214555	Y
5	IC 680-780821/6	50.0	8.88959	50.0	5062230.0	0.177792	Y
6	IC 680-780821/5	80.0	15.035807	50.0	5153651.0	0.187948	Y
7	IC 680-780821/4	100.0	17.941137	50.0	5219516.0	0.179411	Y



**Calibration**

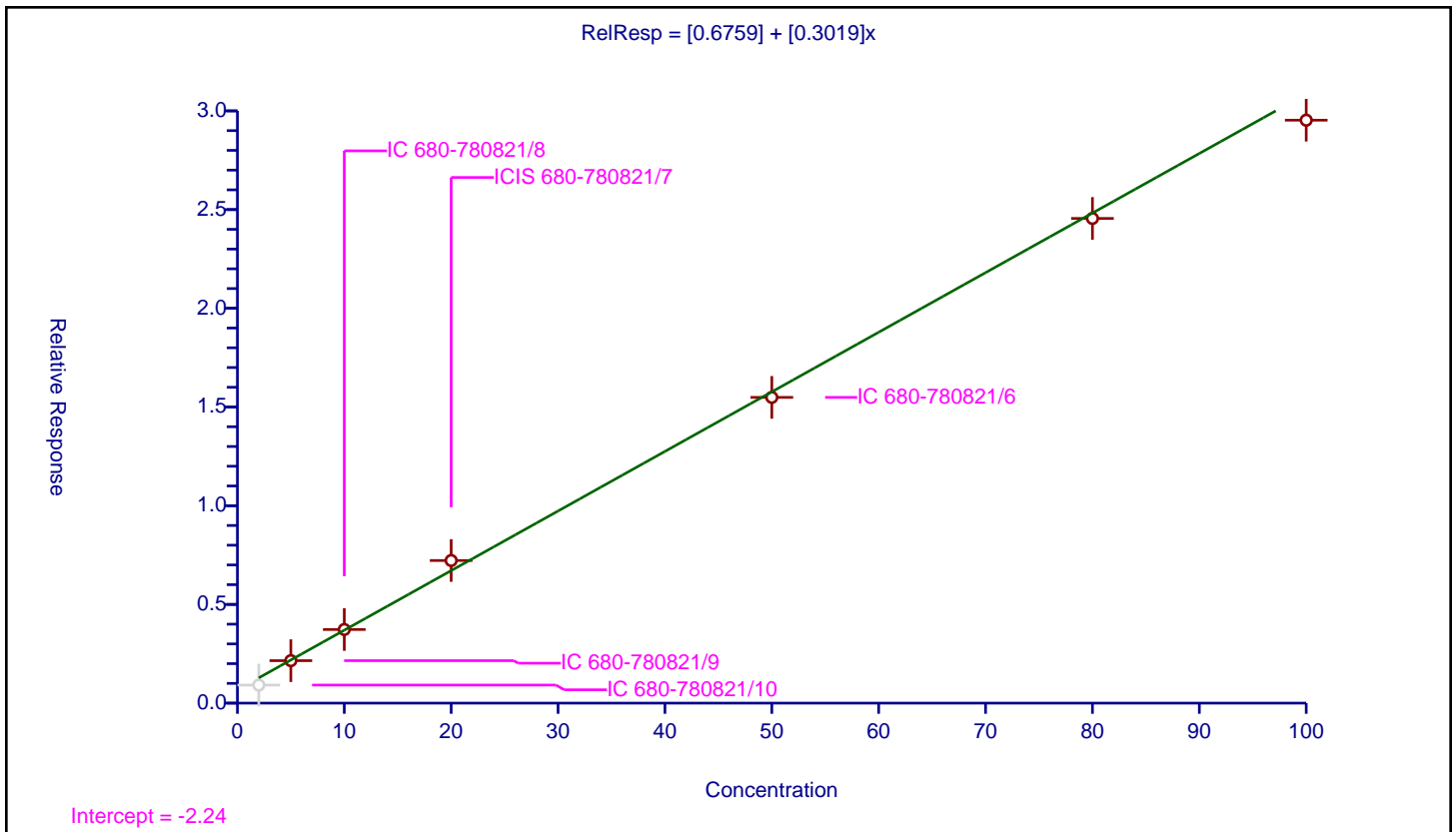
/ Ethylene glycol

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

Curve Coefficients	
Intercept:	0.6759
Slope:	0.3019

Error Coefficients	
Standard Error:	2180000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	0.914912	50.0	5722242.0	0.457456	N
2	IC 680-780821/9	5.0	2.151586	50.0	5435525.0	0.430317	Y
3	IC 680-780821/8	10.0	3.729688	50.0	5541416.0	0.372969	Y
4	ICIS 680-780821/7	20.0	7.223862	50.0	4761954.0	0.361193	Y
5	IC 680-780821/6	50.0	15.486703	50.0	5062230.0	0.309734	Y
6	IC 680-780821/5	80.0	24.551886	50.0	5153651.0	0.306899	Y
7	IC 680-780821/4	100.0	29.528772	50.0	5219516.0	0.295288	Y



**Calibration**

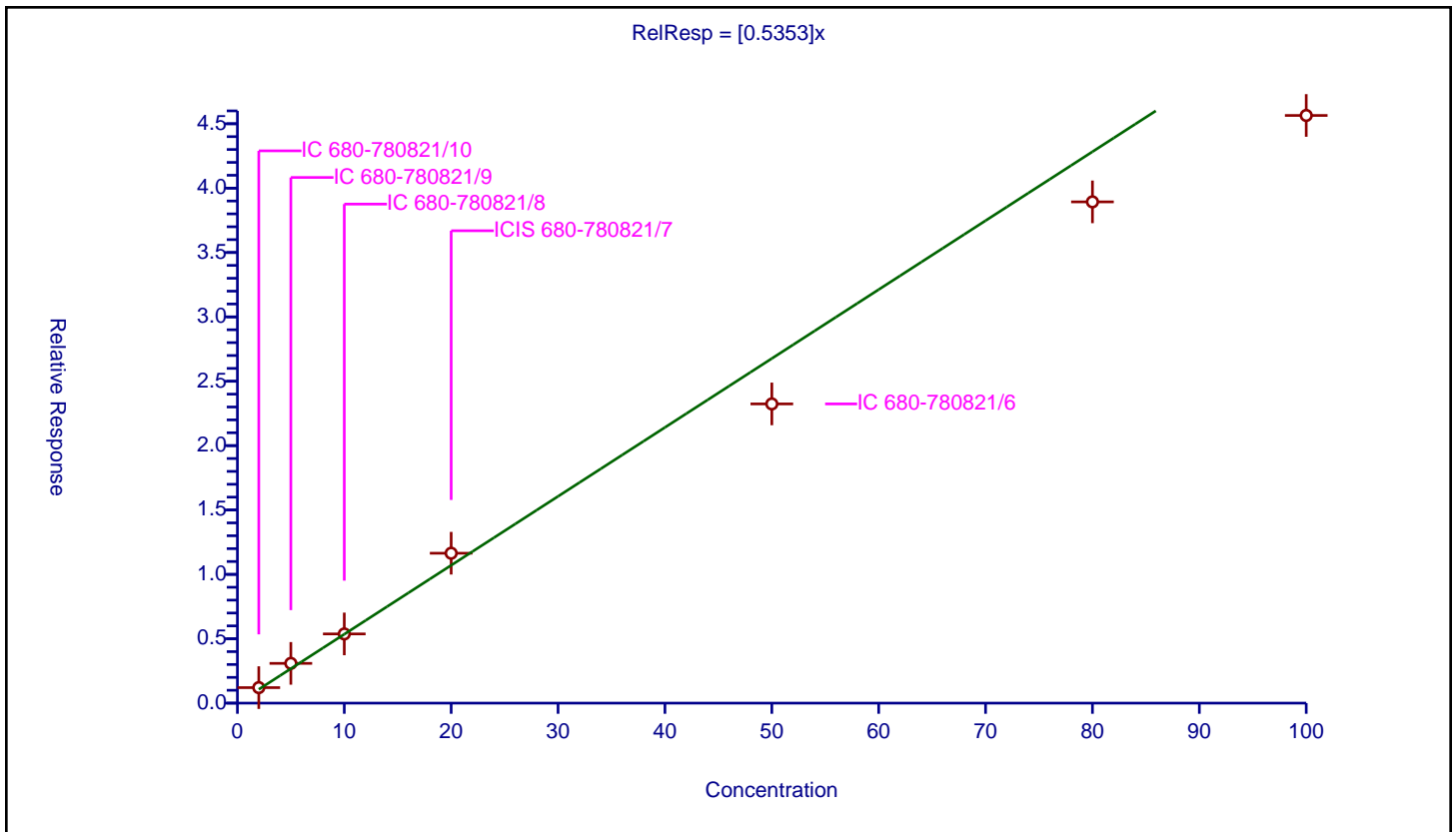
/ 2-(2-Butoxyethoxy)ethanol

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

Curve Coefficients	
Intercept:	0
Slope:	0.5353

Error Coefficients	
Standard Error:	2770000
Relative Standard Error:	12.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	1.204755	50.0	5722242.0	0.602378	Y
2	IC 680-780821/9	5.0	3.087586	50.0	5435525.0	0.617517	Y
3	IC 680-780821/8	10.0	5.374745	50.0	5541416.0	0.537475	Y
4	ICIS 680-780821/7	20.0	11.643109	50.0	4761954.0	0.582155	Y
5	IC 680-780821/6	50.0	23.239531	50.0	5062230.0	0.464791	Y
6	IC 680-780821/5	80.0	38.933467	50.0	5153651.0	0.486668	Y
7	IC 680-780821/4	100.0	45.643839	50.0	5219516.0	0.456438	Y





**Calibration**

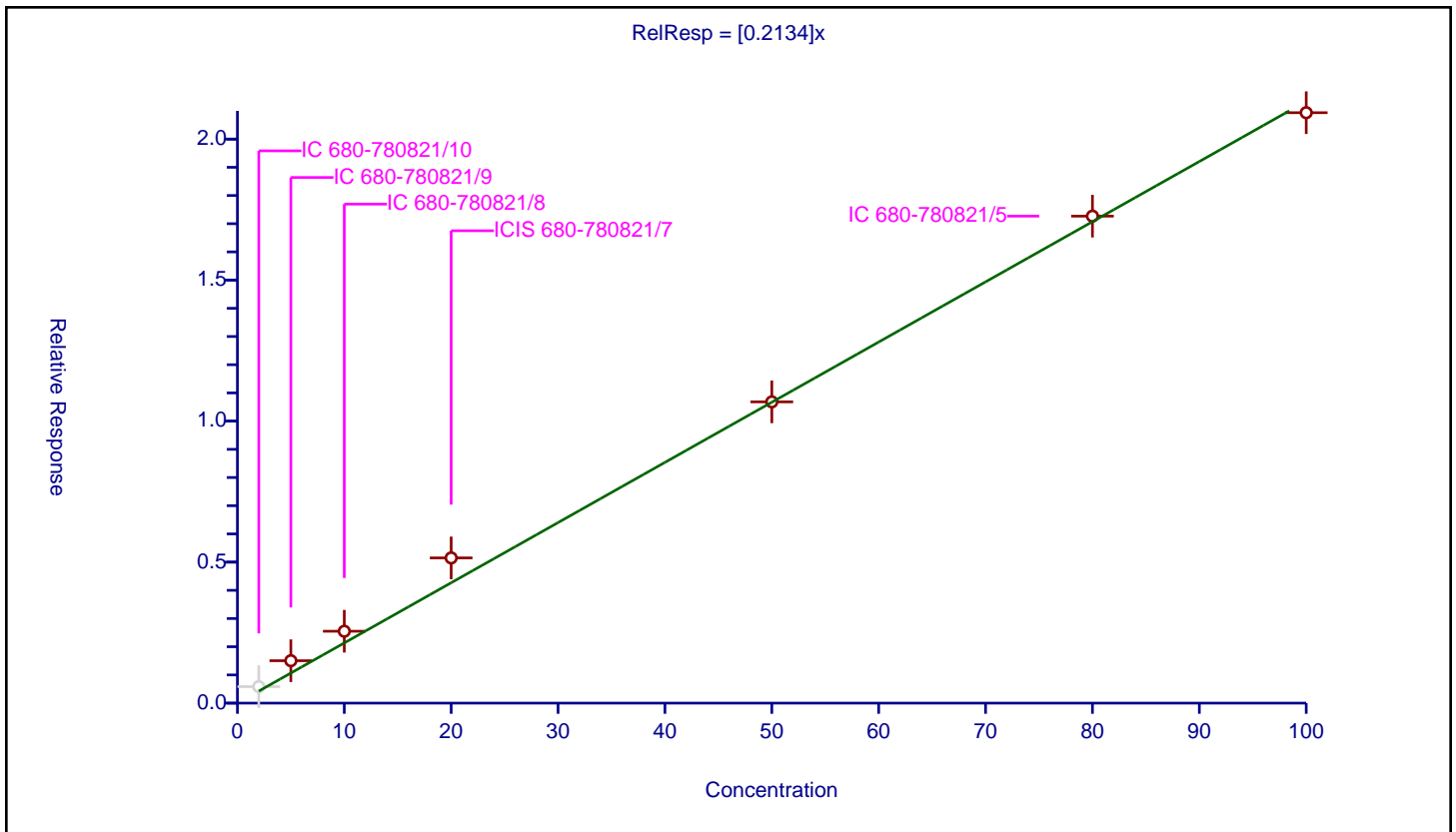
**/ 2,2'-Oxybisethanol**

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

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	0.2134

Error Coefficients	
<b>Standard Error:</b>	1380000
<b>Relative Standard Error:</b>	22.3
<b>Correlation Coefficient:</b>	0.999
<b>Coefficient of Determination (Adjusted):</b>	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	0.585181	50.0	5722242.0	0.292591	N
2	IC 680-780821/9	5.0	1.503673	50.0	5435525.0	0.300735	Y
3	IC 680-780821/8	10.0	2.549141	50.0	5541416.0	0.254914	Y
4	ICIS 680-780821/7	20.0	5.148926	50.0	4761954.0	0.257446	Y
5	IC 680-780821/6	50.0	10.682466	50.0	5062230.0	0.213649	Y
6	IC 680-780821/5	80.0	17.267681	50.0	5153651.0	0.215846	Y
7	IC 680-780821/4	100.0	20.935849	50.0	5219516.0	0.209358	Y



**Calibration**

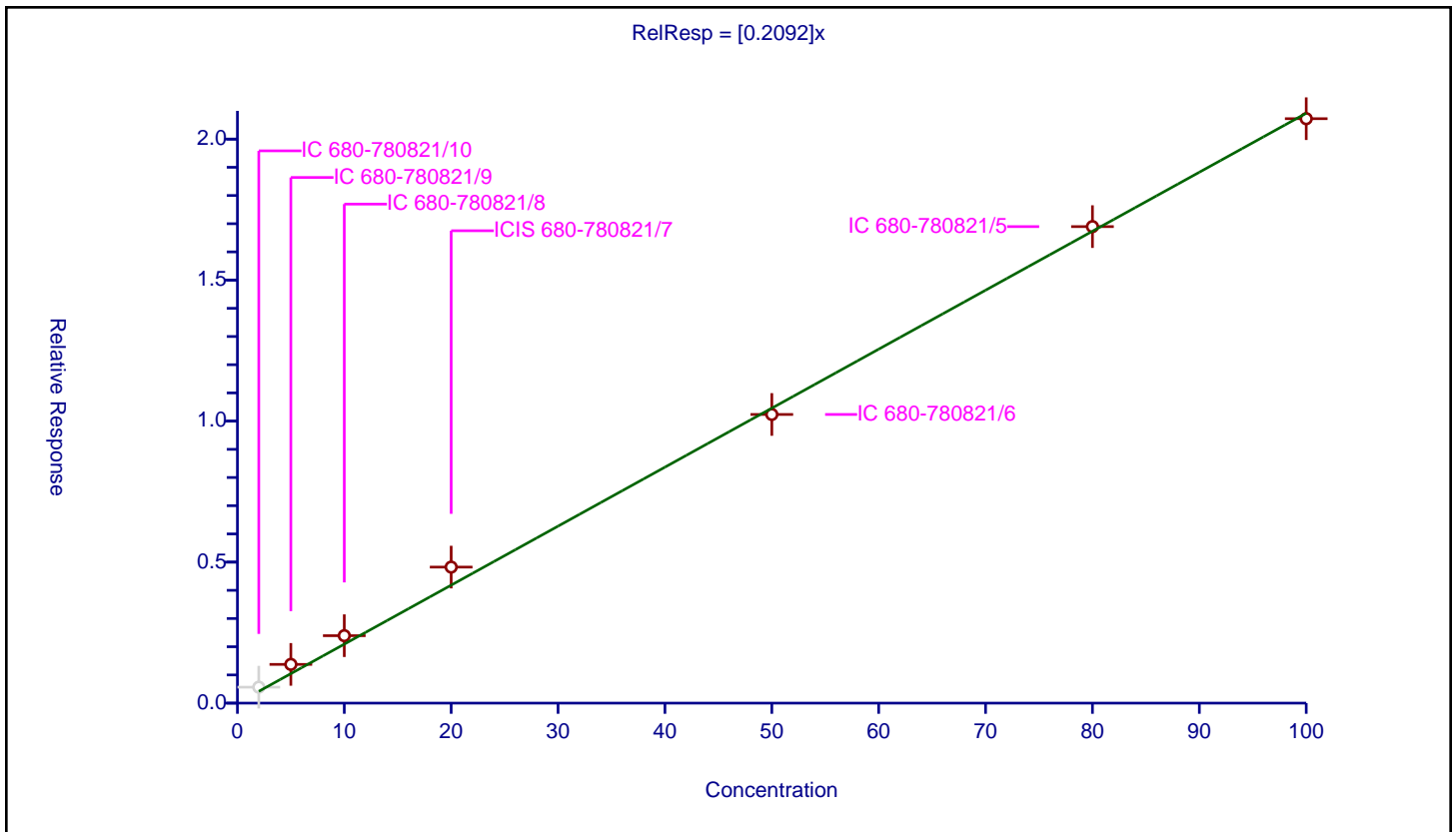
/ Triethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2092

Error Coefficients	
Standard Error:	1350000
Relative Standard Error:	16.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	2.0	0.566124	50.0	5722242.0	0.283062	N
2	IC 680-780821/9	5.0	1.373299	50.0	5435525.0	0.27466	Y
3	IC 680-780821/8	10.0	2.391825	50.0	5541416.0	0.239183	Y
4	ICIS 680-780821/7	20.0	4.823524	50.0	4761954.0	0.241176	Y
5	IC 680-780821/6	50.0	10.236092	50.0	5062230.0	0.204722	Y
6	IC 680-780821/5	80.0	16.896546	50.0	5153651.0	0.211207	Y
7	IC 680-780821/4	100.0	20.7231	50.0	5219516.0	0.207231	Y



**Calibration**

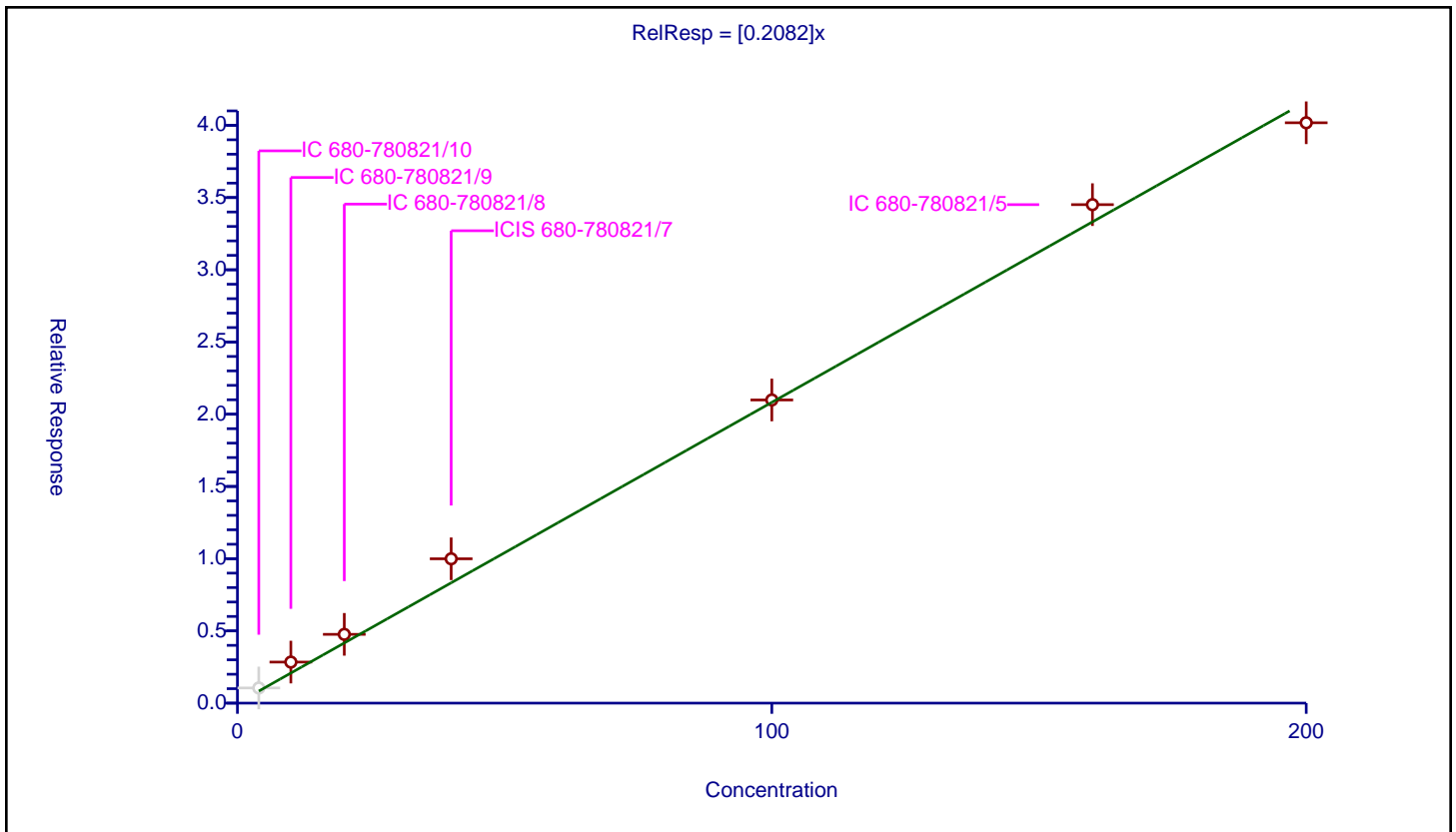
/ Tetraethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2082

Error Coefficients	
Standard Error:	2680000
Relative Standard Error:	19.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-780821/10	4.0	1.049405	50.0	5722242.0	0.262351	N
2	IC 680-780821/9	10.0	2.841317	50.0	5435525.0	0.284132	Y
3	IC 680-780821/8	20.0	4.762248	50.0	5541416.0	0.238112	Y
4	ICIS 680-780821/7	40.0	9.991802	50.0	4761954.0	0.249795	Y
5	IC 680-780821/6	100.0	20.988072	50.0	5062230.0	0.209881	Y
6	IC 680-780821/5	160.0	34.509981	50.0	5153651.0	0.215687	Y
7	IC 680-780821/4	200.0	40.178141	50.0	5219516.0	0.200891	Y



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-780821/11 Calibration Date: 05/27/2023 21:51  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GE27011.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.6763	0.6654		19.7	20.0	-1.6	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6087	0.5801		19.1	20.0	-4.7	20.0
2-Butoxyethanol	Ave	0.7258	0.7349		20.3	20.0	1.3	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0516	0.0475		18.4	20.0	-7.8	20.0
Propylene glycol	LinF		0.1555		17.0	20.0	-15.0	20.0
Ethylene glycol	Lin2		0.2957		17.4	20.0	-13.2	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5353	0.4811		18.0	20.0	-10.1	20.0
2,2'-Oxybisethanol	LinF		0.1814		17.0	20.0	-15.0	20.0
Triethylene Glycol	LinF		0.1849		17.7	20.0	-11.6	20.0
Tetraethylene Glycol	LinF		0.1809		34.7	40.0	-13.1	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 680-780821/11 Calibration Date: 05/27/2023 21:51  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GE27011.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	1.94	1.90	1.97
4-Hydroxy-4-methyl-2-pentanone	2.25	2.20	2.29
2-Butoxyethanol	2.37	2.32	2.41
Dipropylene Glycol Methyl Ether	3.20	3.13	3.26
Propylene glycol	3.88	3.81	3.97
Ethylene glycol	4.16	4.08	4.24
2-(2-Butoxyethoxy)ethanol	5.68	5.57	5.79
2,2'-Oxybisethanol	7.80	7.64	7.95
Triethylene Glycol	9.72	9.53	9.92
Tetraethylene Glycol	10.56	10.34	10.77

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
 Lims ID: icv gly  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 27-May-2023 21:51:01 ALS Bottle#: 0 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086326-011  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 30-May-2023 12:31:26 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1641

First Level Reviewer: SK9U Date: 30-May-2023 10:50:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.938	1.936	0.002	1447206	20.0	19.7	
2 4-Hydroxy-4-methyl-2-pentanone						
2.247	2.246	0.001	1261704	20.0	19.1	
3 2-Butoxyethanol						
2.368	2.367	0.001	1598479	20.0	20.3	
* 4 n-Heptyl Alcohol						
2.588	2.586	0.002	5437554	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.195	3.194	0.001	103416	20.0	18.4	M
6 Propylene glycol						
3.877	3.892	-0.015	338317	20.0	17.0	Ma
7 Ethylene glycol						
4.157	4.160	-0.003	643219	20.0	17.4	M
8 2-(2-Butoxyethoxy)ethanol						
5.679	5.679	0.000	1046357	20.0	18.0	
9 2,2'-Oxybisethanol						
7.796	7.794	0.002	394479	20.0	17.0	M
10 Triethylene Glycol						
9.722	9.722	0.000	402184	20.0	17.7	M
11 Tetraethylene Glycol						
10.555	10.554	0.001	786831	40.0	34.7	

**QC Flag Legend**  
Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_GlyICV\_00058

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00115

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D

Injection Date: 27-May-2023 21:51:01

Instrument ID: CVGG2

Operator ID:

Lims ID: icv gly

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

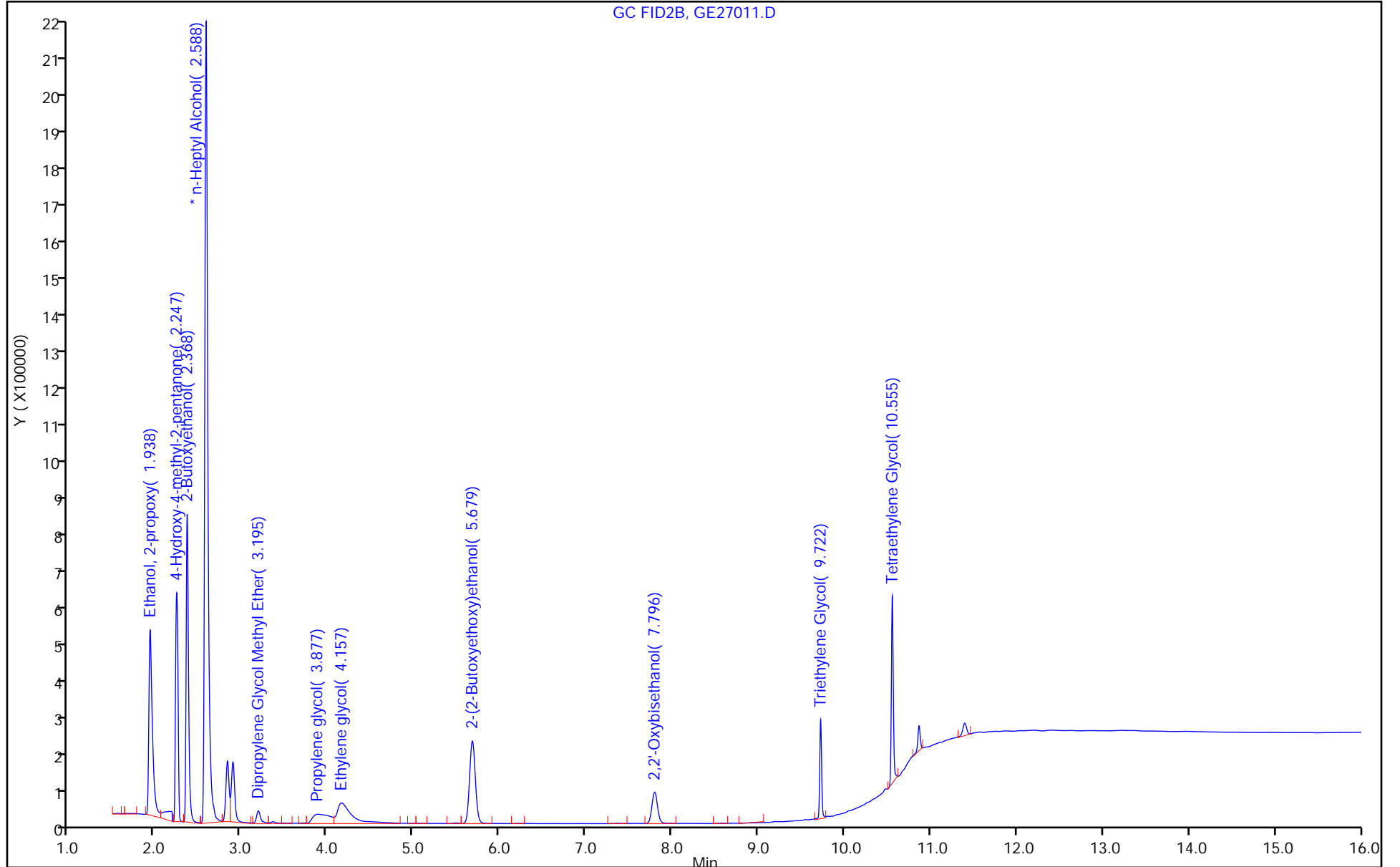
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)





Eurofins Savannah

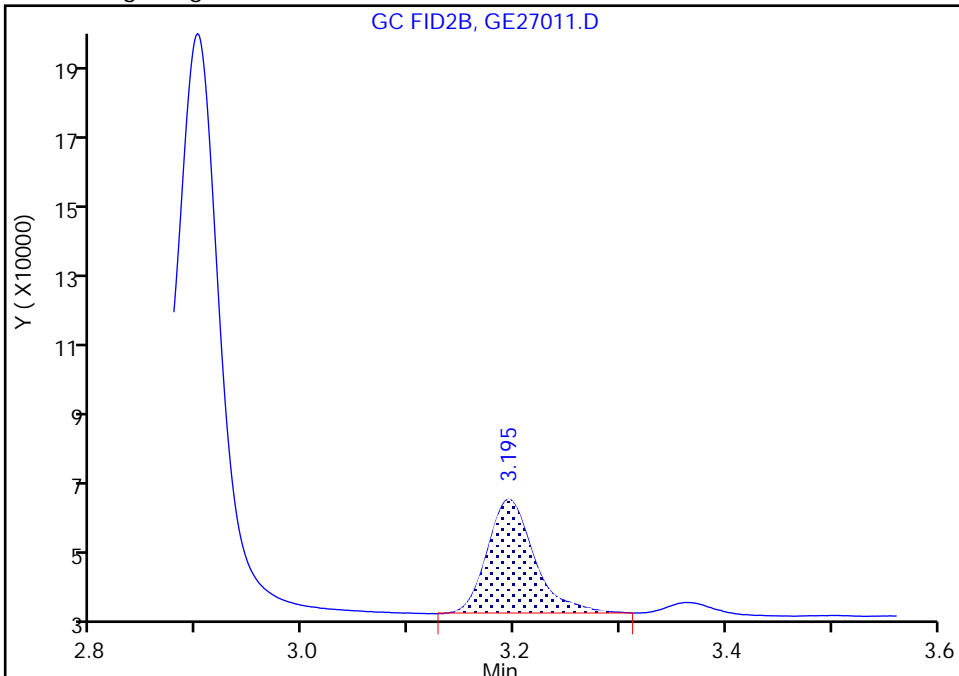
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
Injection Date: 27-May-2023 21:51:01 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

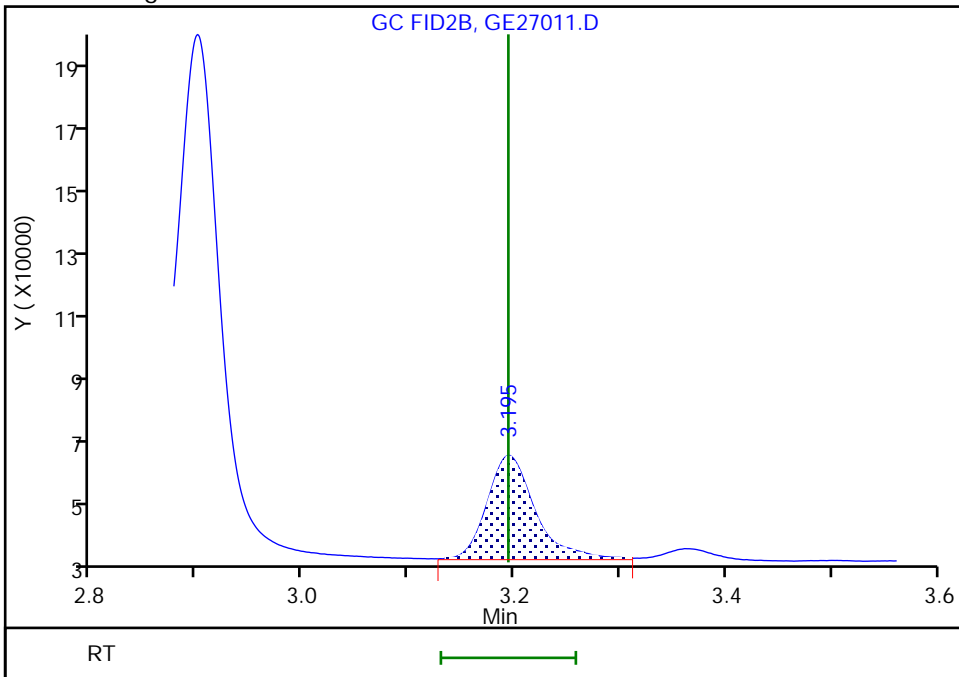
RT: 3.19  
Area: 100134  
Amount: 17.854391  
Amount Units: ug/ml

Processing Integration Results



RT: 3.19  
Area: 103416  
Amount: 18.439587  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:52:12 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

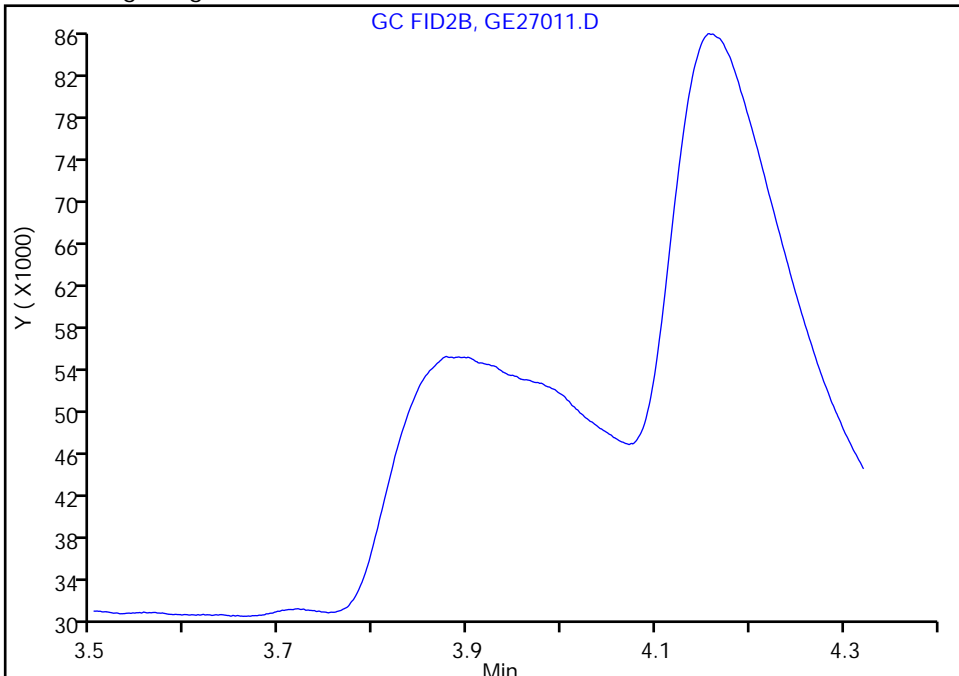
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
Injection Date: 27-May-2023 21:51:01 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

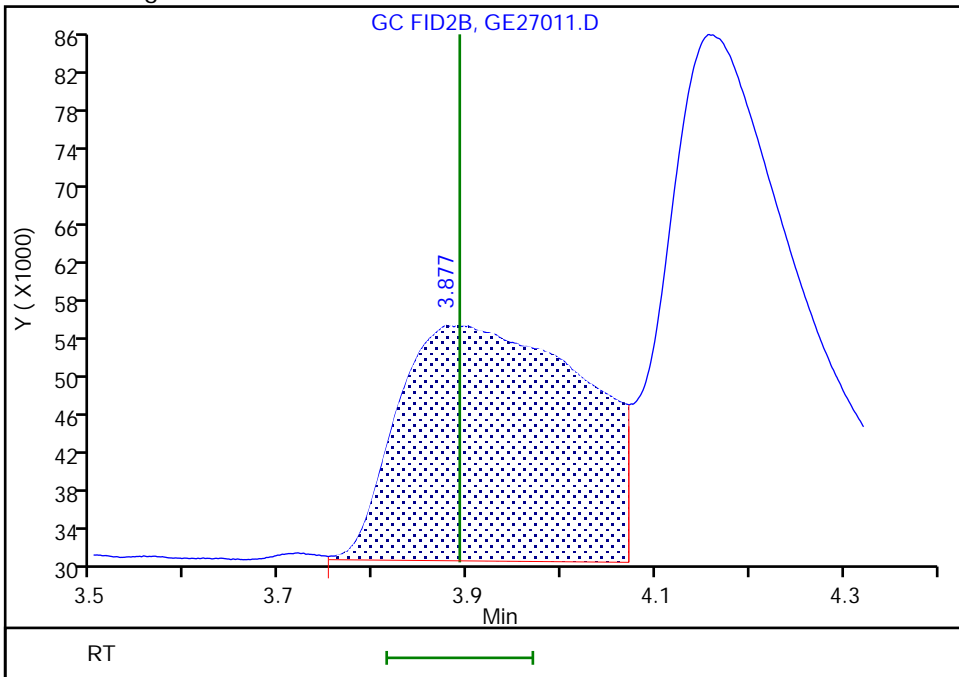
Not Detected  
Expected RT: 3.89

Processing Integration Results



RT: 3.88  
Area: 338317  
Amount: 17.002469  
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

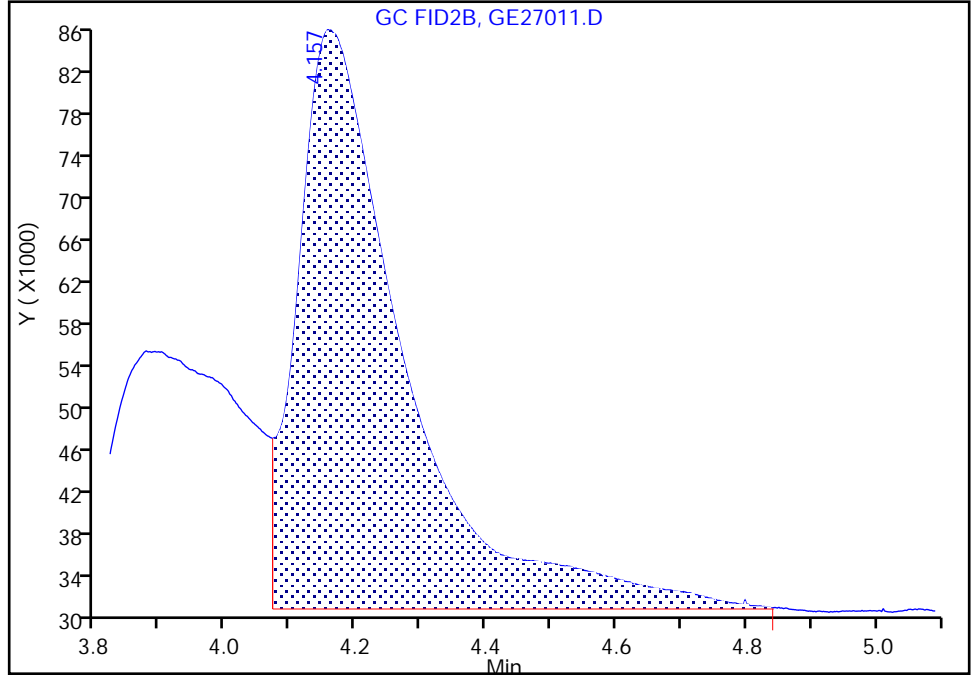
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
Injection Date: 27-May-2023 21:51:01 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

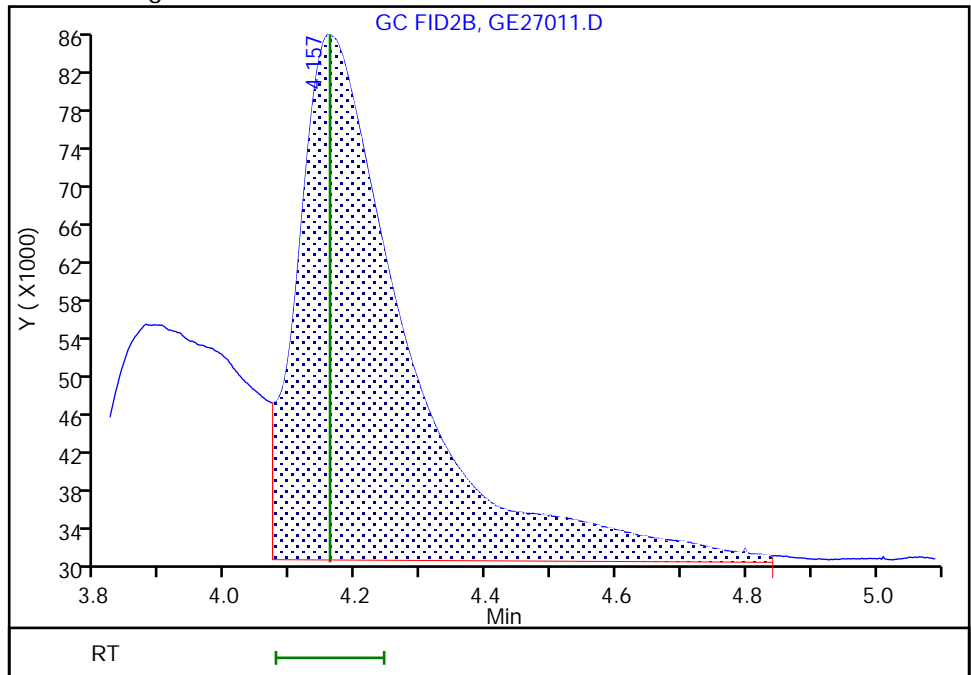
RT: 4.16  
Area: 625567  
Amount: 16.817473  
Amount Units: ug/ml

Processing Integration Results



RT: 4.16  
Area: 643219  
Amount: 17.355201  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:52:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

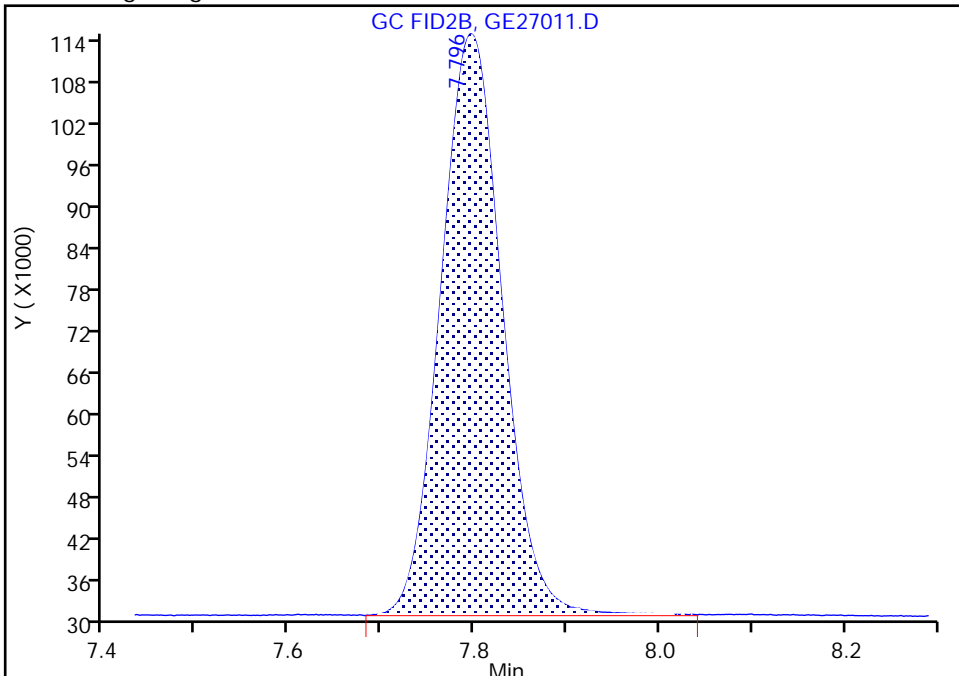
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
Injection Date: 27-May-2023 21:51:01 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

9 2,2'-Oxybisethanol, CAS: 111-46-6

Signal: 1

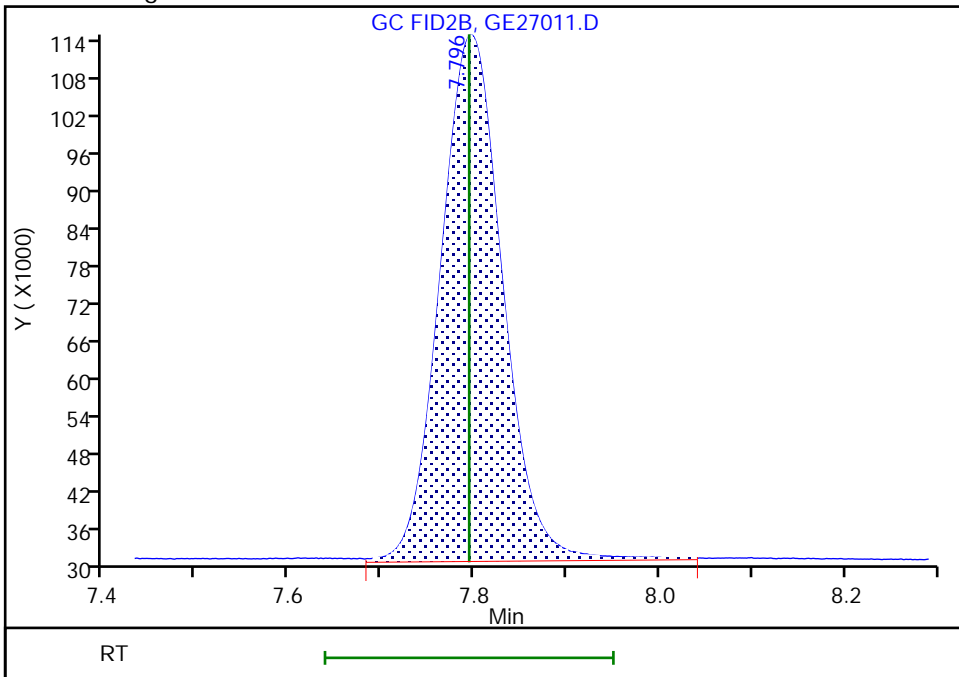
RT: 7.80  
Area: 387890  
Amount: 14.661834  
Amount Units: ug/ml

Processing Integration Results



RT: 7.80  
Area: 394479  
Amount: 16.998679  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:50:21 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

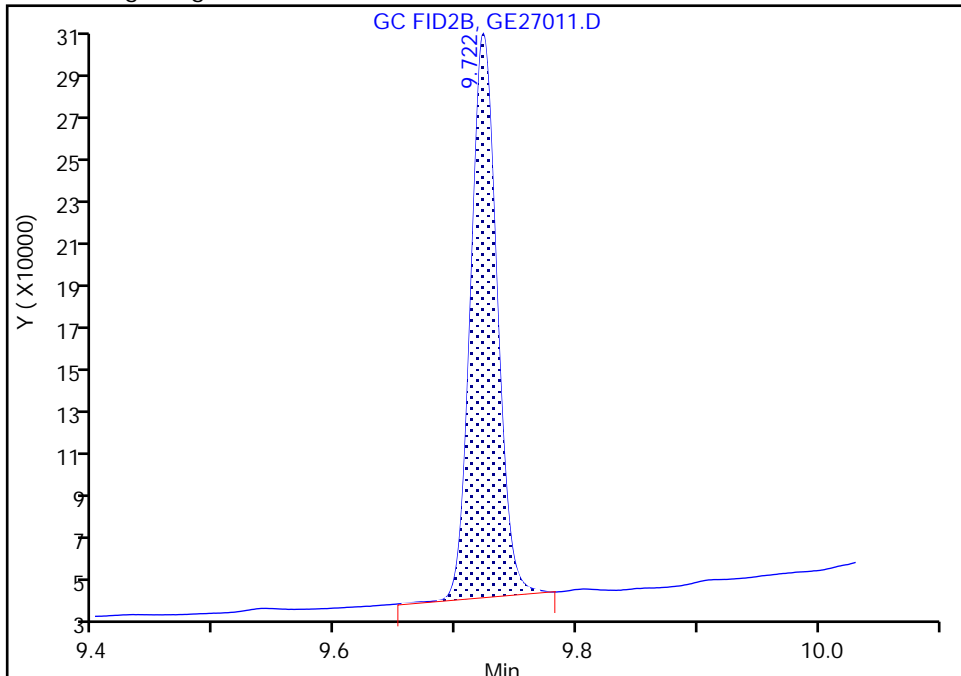
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27011.D  
Injection Date: 27-May-2023 21:51:01 Instrument ID: CVGG2  
Lims ID: icv gly  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

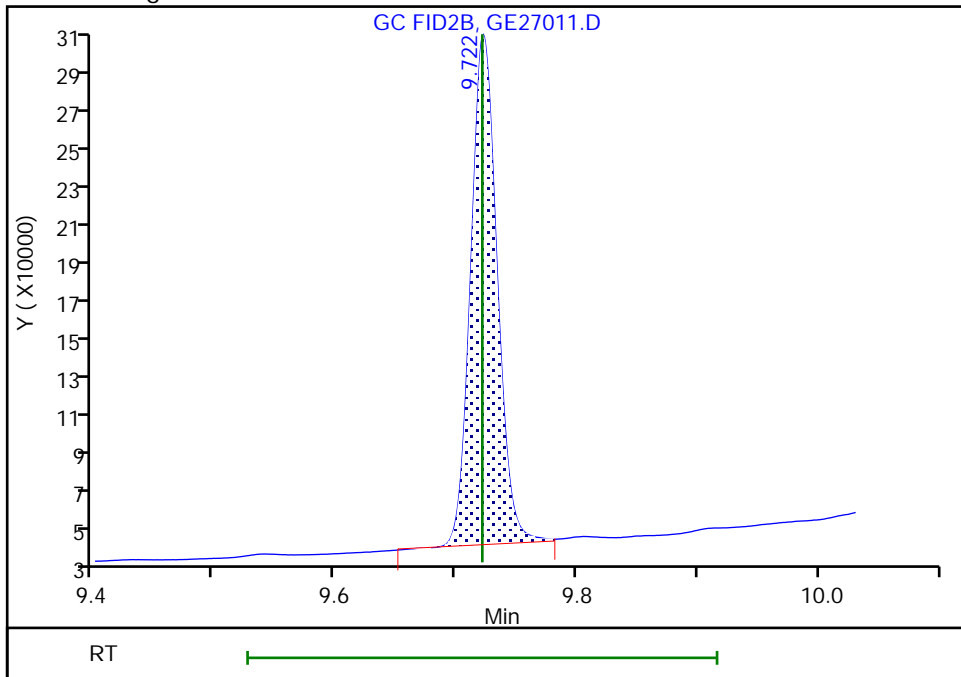
RT: 9.72  
Area: 398307  
Amount: 15.432985  
Amount Units: ug/ml

Processing Integration Results



RT: 9.72  
Area: 402184  
Amount: 17.680536  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 30-May-2023 10:50:02 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-783204/4 Calibration Date: 06/13/2023 17:29  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12004.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.6763	0.6664		19.7	20.0	-1.5	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6087	0.6290		20.7	20.0	3.3	20.0
2-Butoxyethanol	Ave	0.7258	0.7564		20.8	20.0	4.2	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0516	0.0574		22.2	20.0	11.2	20.0
Propylene glycol	LinF		0.2079		22.7	20.0	13.6	20.0
Ethylene glycol	Lin2		0.3407		20.3	20.0	1.7	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5353	0.6004		22.4	20.0	12.2	20.0
2,2'-Oxybisethanol	LinF		0.2531		23.7	20.0	18.6	20.0
Triethylene Glycol	LinF		0.2691		25.7	20.0	28.7*	20.0
Tetraethylene Glycol	LinF		0.2726		52.4	40.0	30.9*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 680-783204/4 Calibration Date: 06/13/2023 17:29  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12004.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	1.85	1.81	1.89
4-Hydroxy-4-methyl-2-pentanone	2.20	2.15	2.24
2-Butoxyethanol	2.30	2.25	2.34
Dipropylene Glycol Methyl Ether	3.08	3.02	3.15
Propylene glycol	3.72	3.65	3.80
Ethylene glycol	4.00	3.92	4.08
2-(2-Butoxyethoxy)ethanol	5.48	5.37	5.59
2,2'-Oxybisethanol	7.56	7.41	7.71
Triethylene Glycol	9.65	9.46	9.85
Tetraethylene Glycol	10.49	10.28	10.70

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
 Lims ID: ccvis g4  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 13-Jun-2023 17:29:46 ALS Bottle#: 0 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698004  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 14:40:38 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: SFL9 Date: 13-Jun-2023 17:59:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					a
1.848	1.848	0.000	1168670	20.0	19.7	a
2	4-Hydroxy-4-methyl-2-pentanone					M
2.196	2.196	0.000	1103123	20.0	20.7	M
3	2-Butoxyethanol					
2.297	2.297	0.000	1326549	20.0	20.8	
* 4	n-Heptyl Alcohol					a
2.500	2.500	0.000	4384489	50.0	50.0	a
5	Dipropylene Glycol Methyl Ether					a
3.084	3.084	0.000	100614	20.0	22.2	a
6	Propylene glycol					a
3.721	3.721	0.000	364555	20.0	22.7	a
7	Ethylene glycol					a
4.001	4.001	0.000	597489	20.0	20.3	a
8	2-(2-Butoxyethoxy)ethanol					a
5.478	5.478	0.000	1053023	20.0	22.4	a
9	2,2'-Oxybisethanol					a
7.561	7.561	0.000	443936	20.0	23.7	a
10	Triethylene Glycol					
9.652	9.652	0.000	472015	20.0	25.7	
11	Tetraethylene Glycol					
10.485	10.485	0.000	956163	40.0	52.4	

**QC Flag Legend**  
Processing Flags



Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00119

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D

Injection Date: 13-Jun-2023 17:29:46

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g4

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

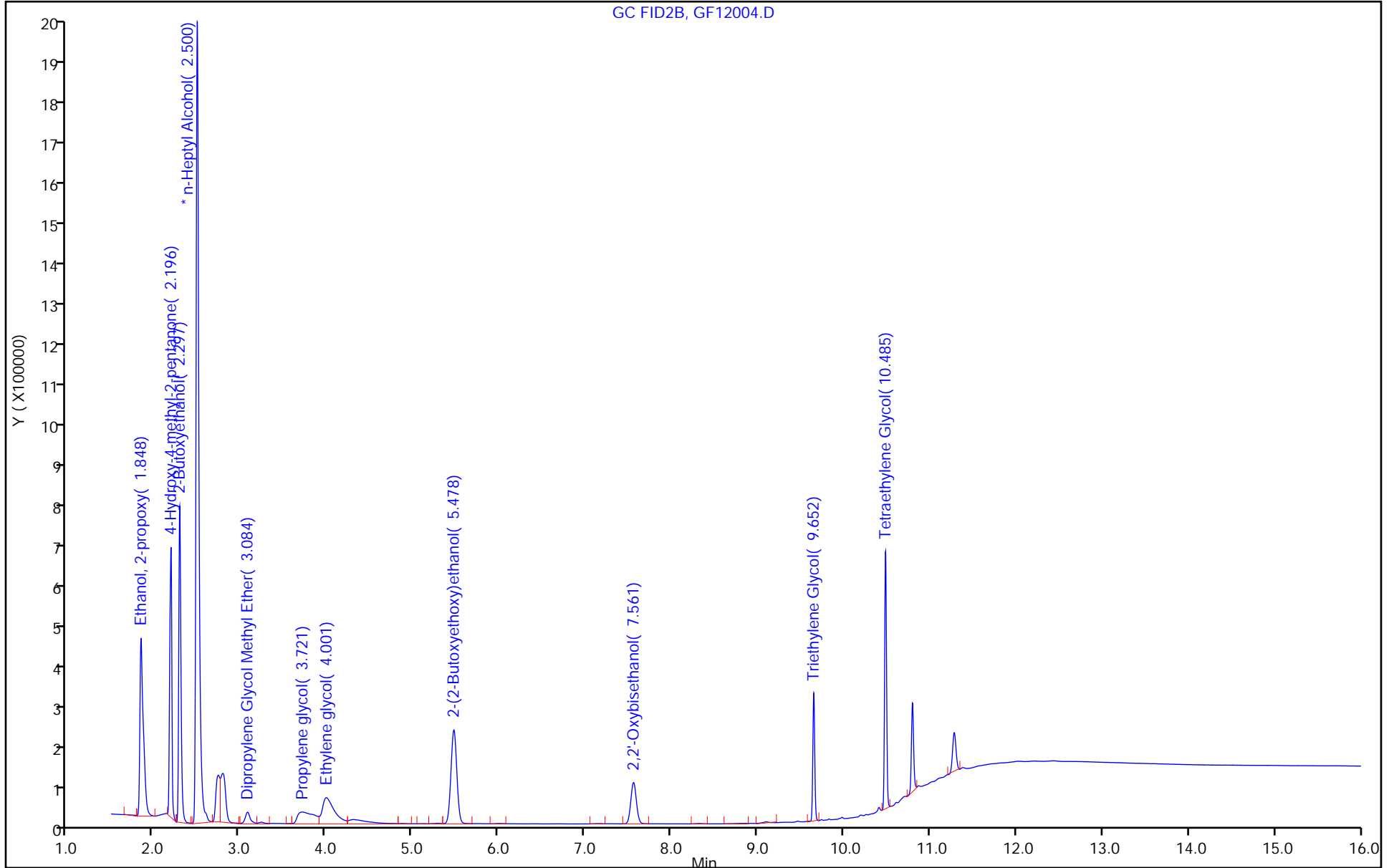
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

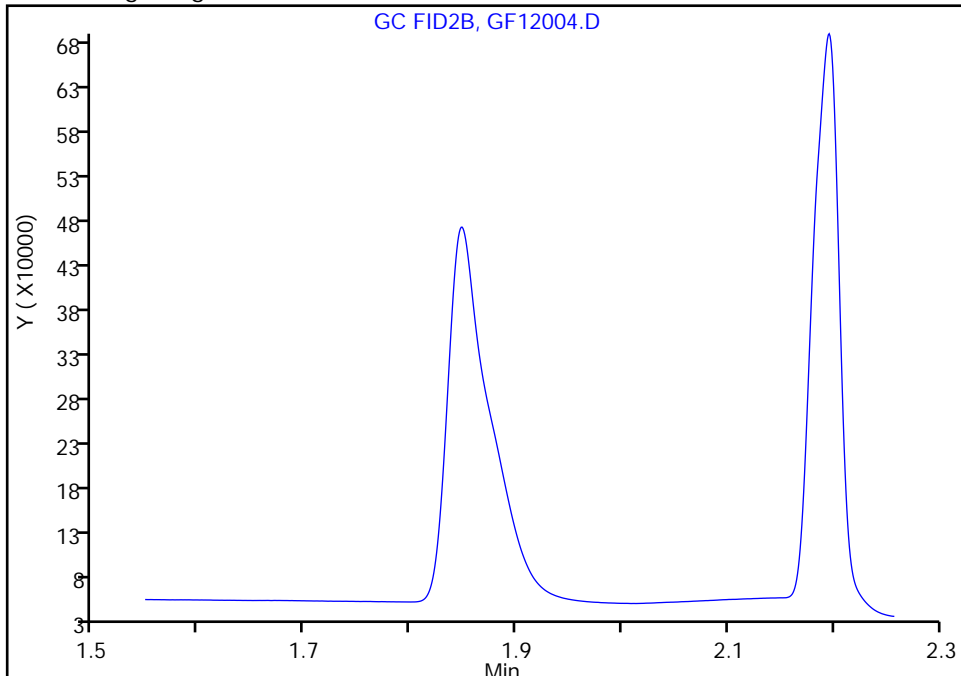
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

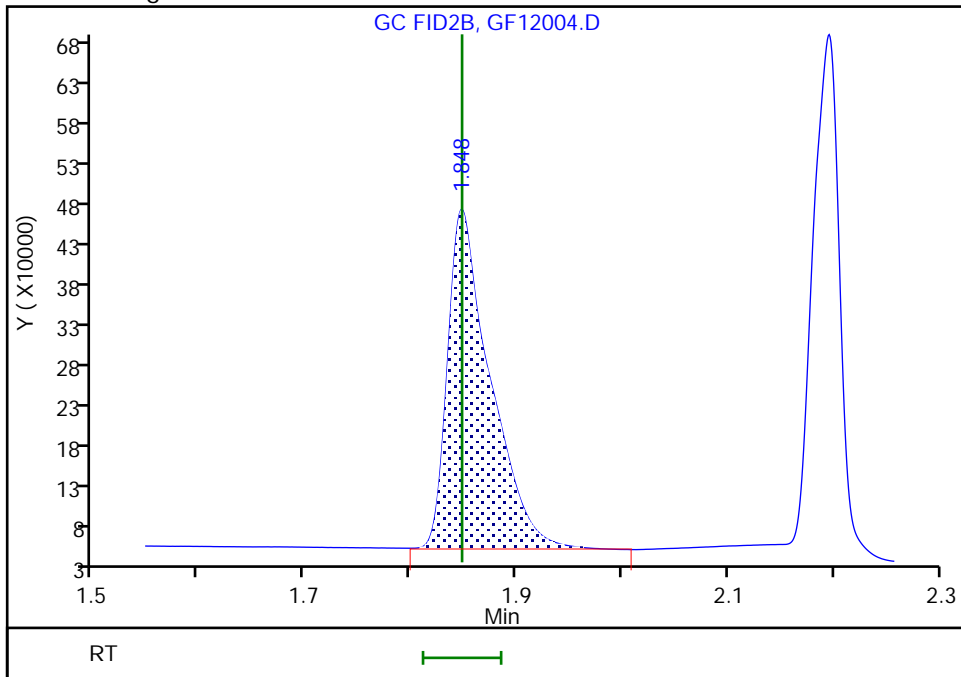
Not Detected  
Expected RT: 1.85

Processing Integration Results



Manual Integration Results

RT: 1.85  
Area: 1168670  
Amount: 19.706743  
Amount Units: ug/ml



Eurofins Savannah

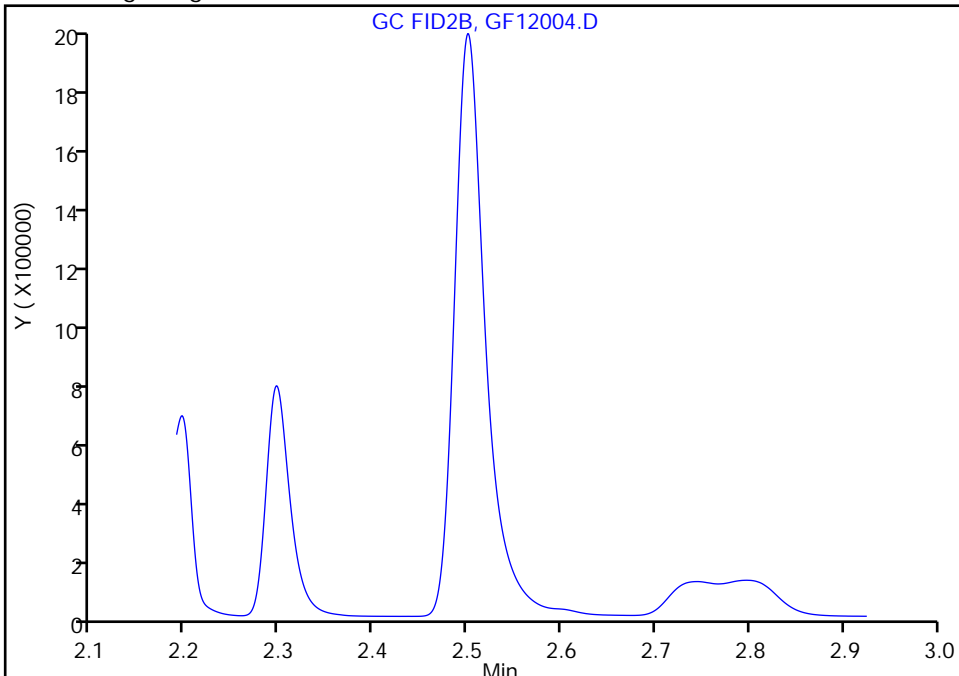
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

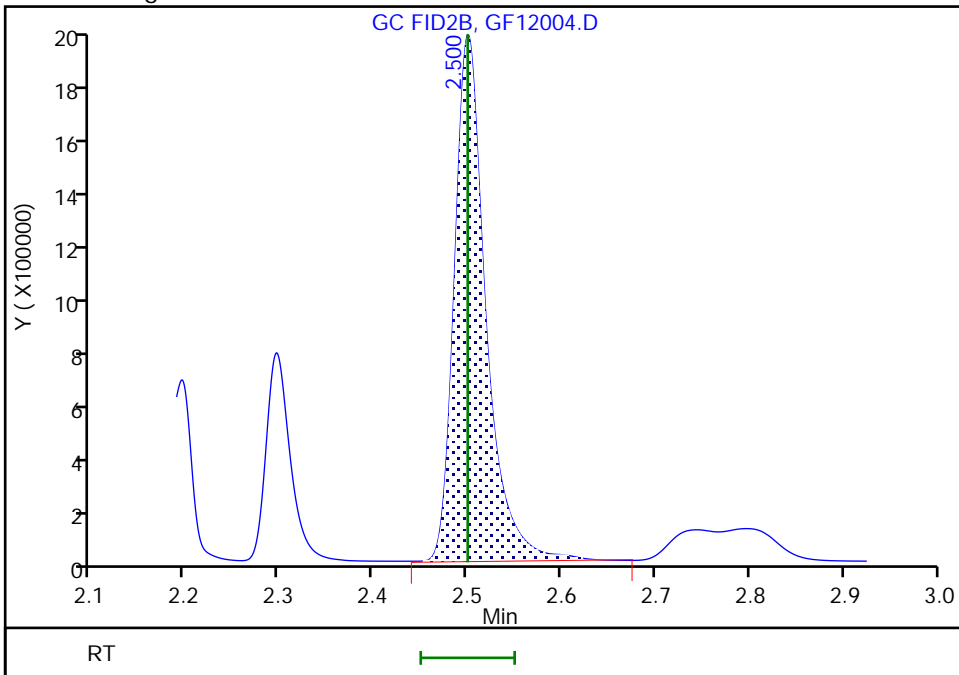
Processing Integration Results

Not Detected  
Expected RT: 2.50



Manual Integration Results

RT: 2.50  
Area: 4384489  
Amount: 50.000000  
Amount Units: ug/ml



Reviewer: SFL9, 13-Jun-2023 17:58:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference

Eurofins Savannah

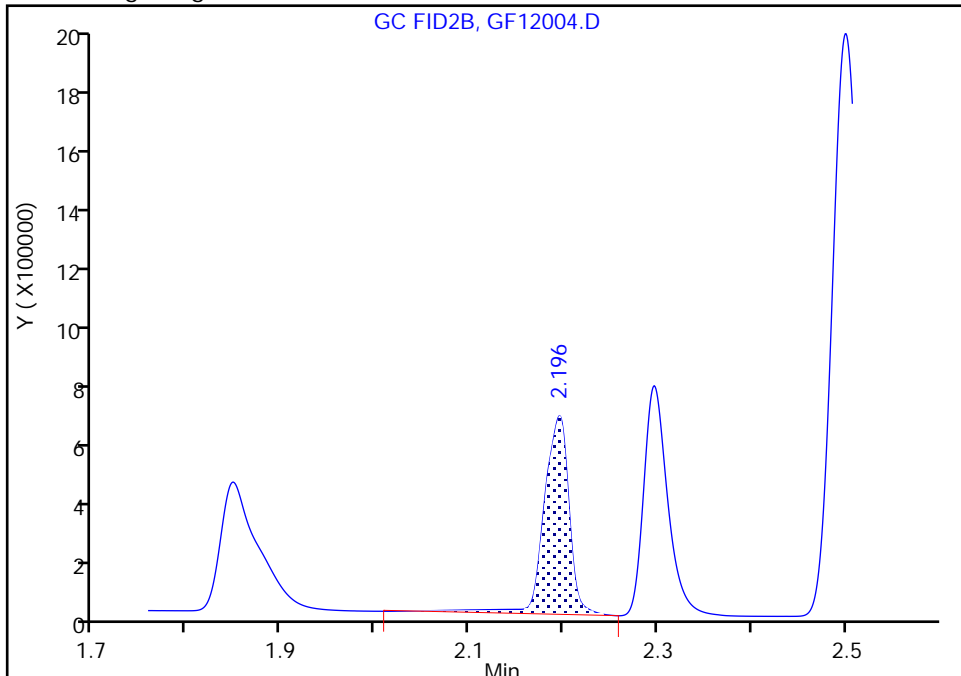
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

2 4-Hydroxy-4-methyl-2-pentanone, CAS: 123-42-2

Signal: 1

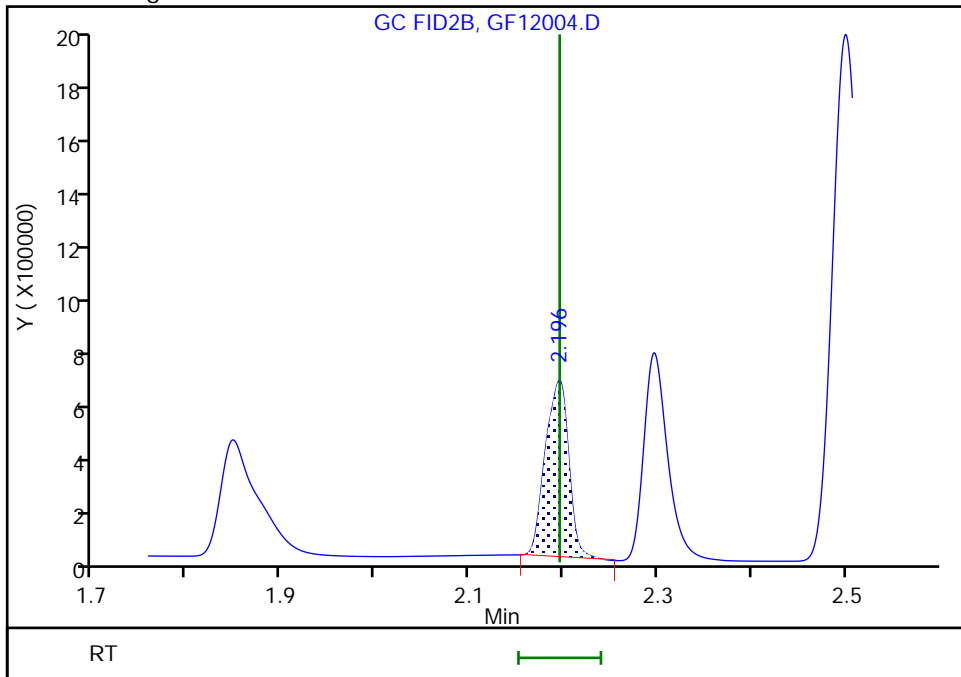
RT: 2.20  
Area: 1208094  
Amount: 22.634036  
Amount Units: ug/ml

Processing Integration Results



RT: 2.20  
Area: 1103123  
Amount: 20.667370  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SFL9, 13-Jun-2023 17:59:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

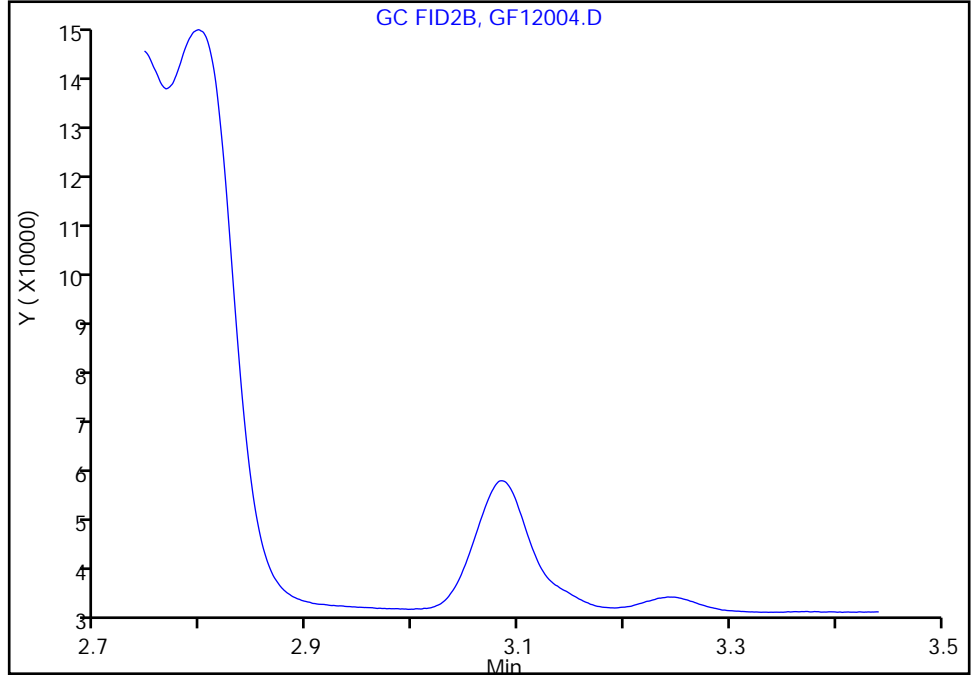
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

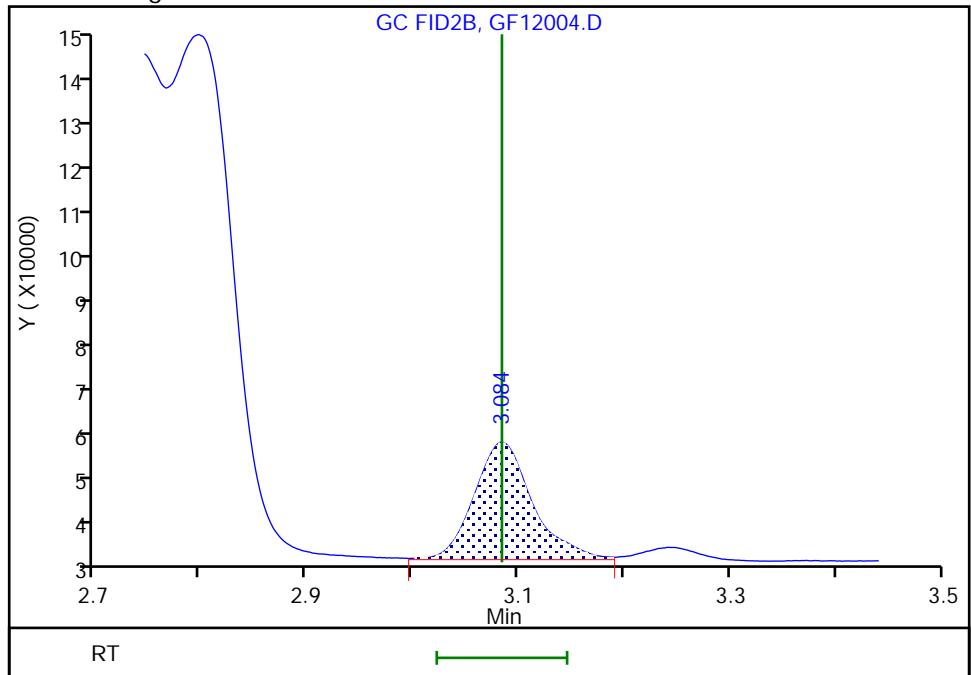
Not Detected  
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 100614  
Amount: 22.248794  
Amount Units: ug/ml



Reviewer: SFL9, 13-Jun-2023 17:58:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference

Eurofins Savannah

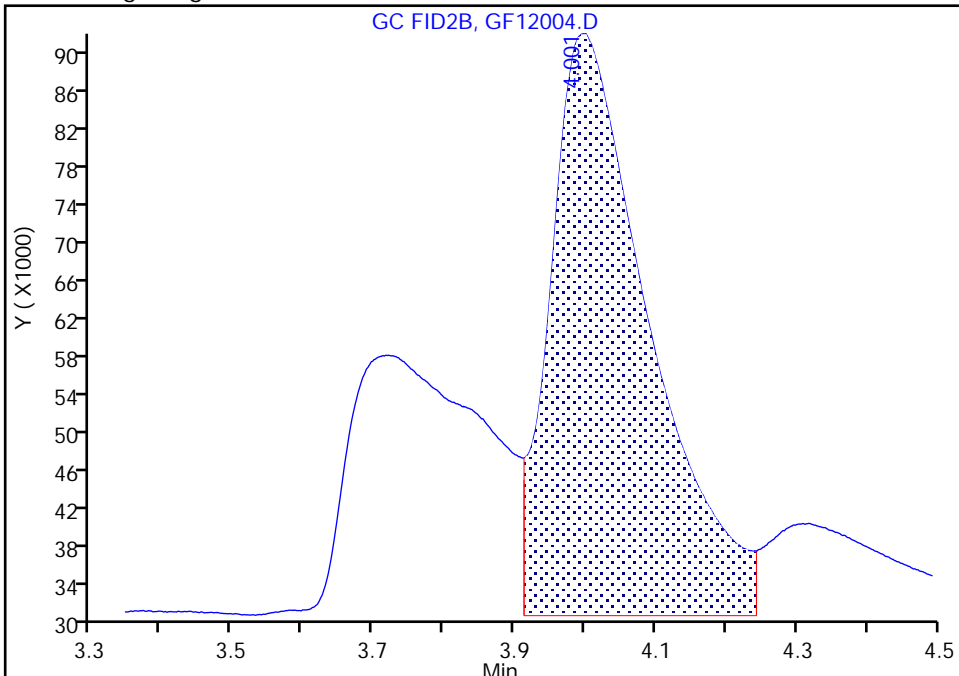
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

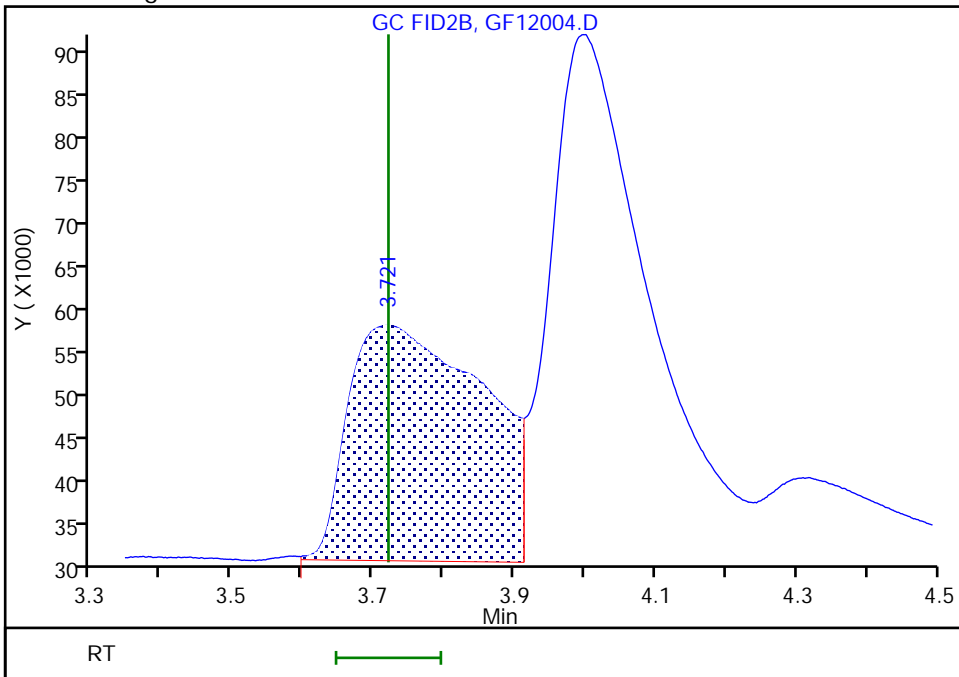
RT: 4.00  
Area: 597489  
Amount: 37.239400  
Amount Units: ug/ml

Processing Integration Results



RT: 3.72  
Area: 364555  
Amount: 22.721438  
Amount Units: ug/ml

Manual Integration Results



Reviewer: SFL9, 13-Jun-2023 17:58:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference

Eurofins Savannah

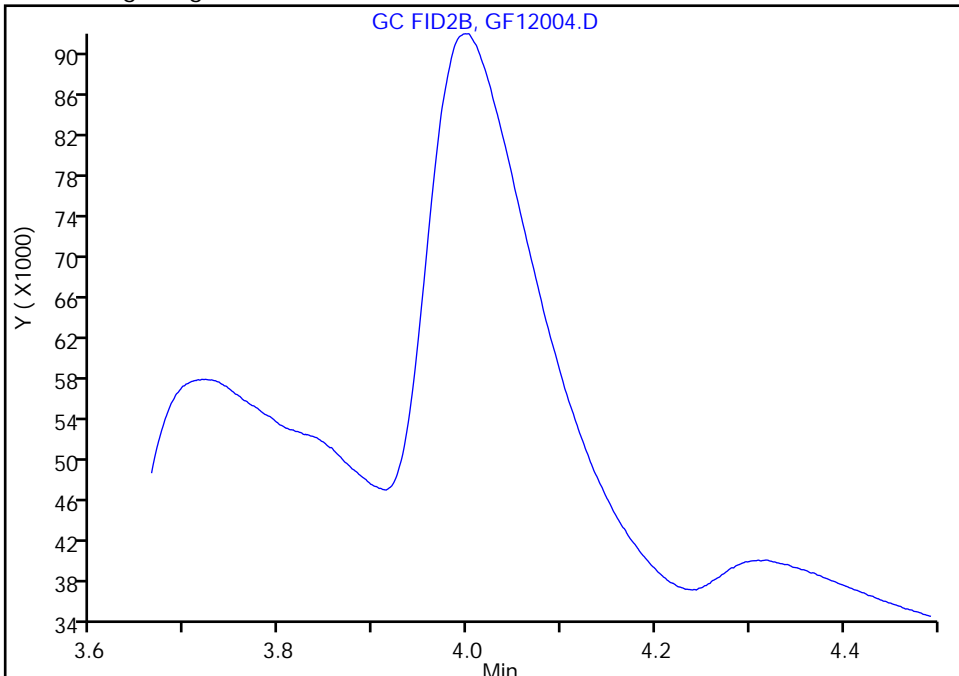
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

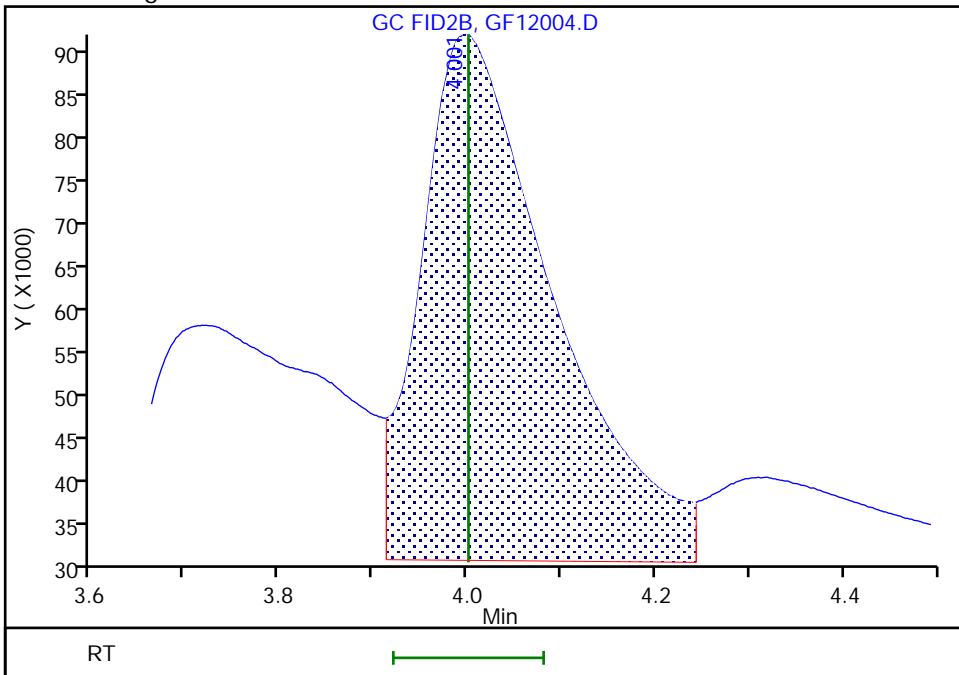
Not Detected  
Expected RT: 4.00

Processing Integration Results



Manual Integration Results

RT: 4.00  
Area: 597489  
Amount: 20.333686  
Amount Units: ug/ml



Reviewer: SFL9, 13-Jun-2023 17:58:24 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference



Eurofins Savannah

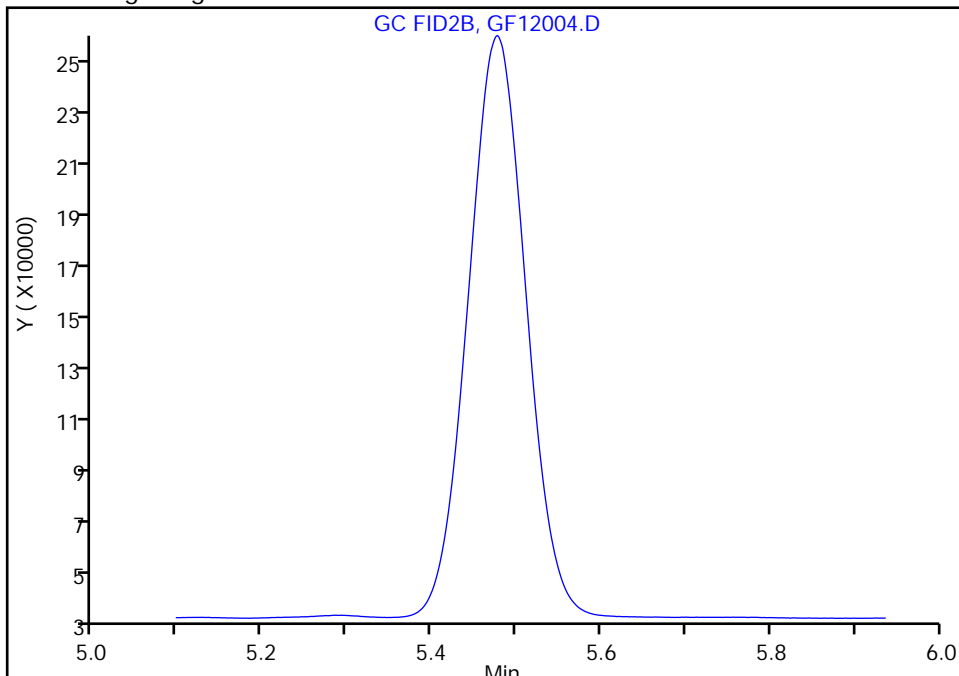
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

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

Signal: 1

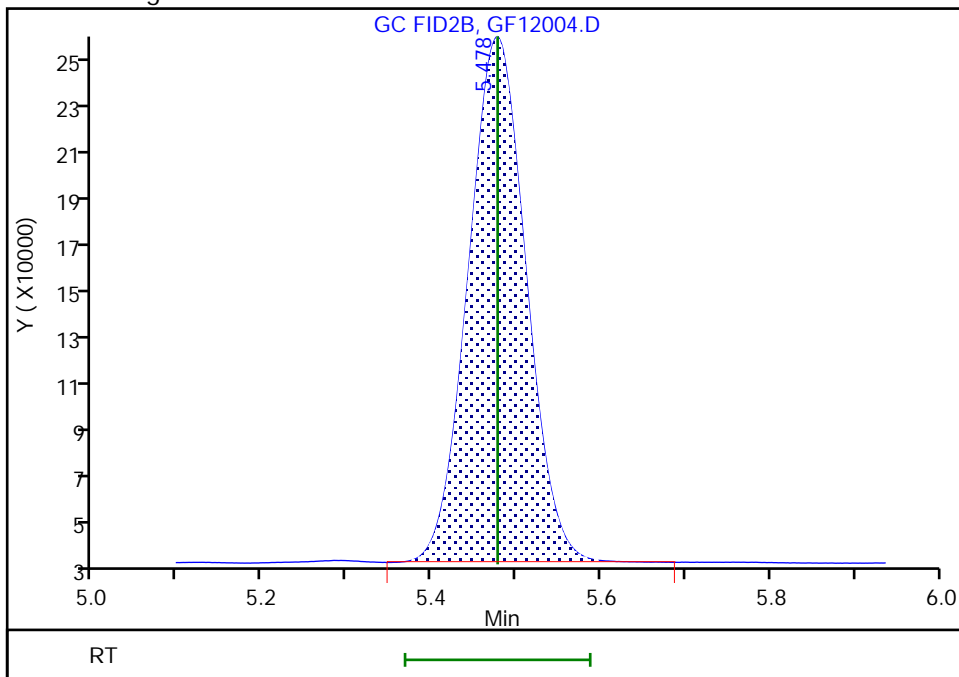
Not Detected  
Expected RT: 5.48

Processing Integration Results



Manual Integration Results

RT: 5.48  
Area: 1053023  
Amount: 22.431293  
Amount Units: ug/ml



Reviewer: SFL9, 13-Jun-2023 17:58:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference

Eurofins Savannah

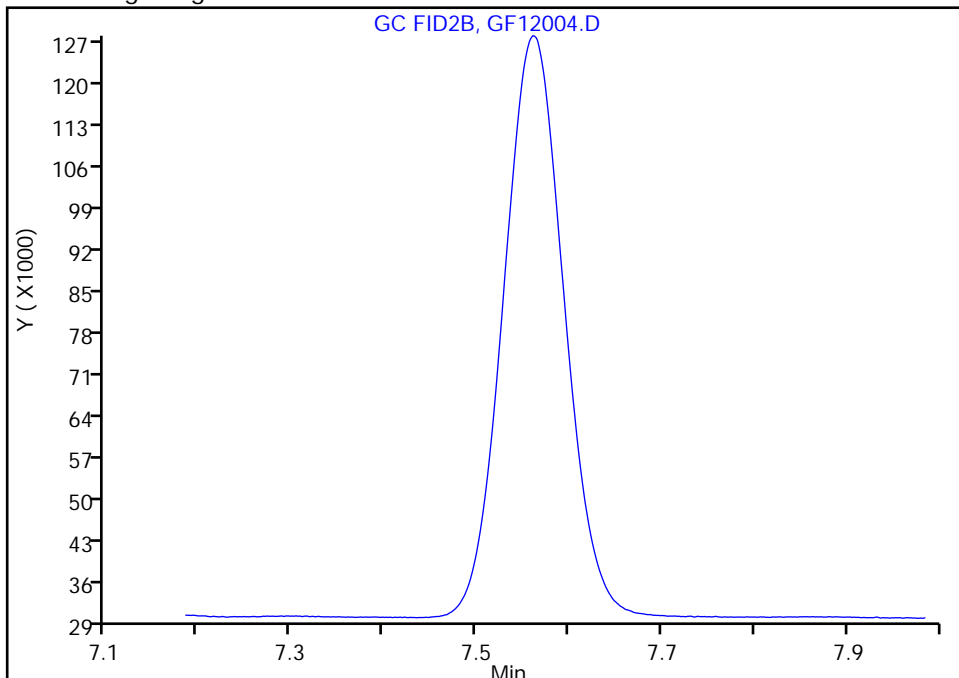
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12004.D  
Injection Date: 13-Jun-2023 17:29:46 Instrument ID: CVGG2  
Lims ID: ccvis g4  
Client ID:  
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8015\_GLY\_VGG Limit Group: 8015C\_DAI  
Column: J&W DB WAX ( 0.45 mm) Detector: GC FID2B

9 2,2'-Oxybisethanol, CAS: 111-46-6

Signal: 1

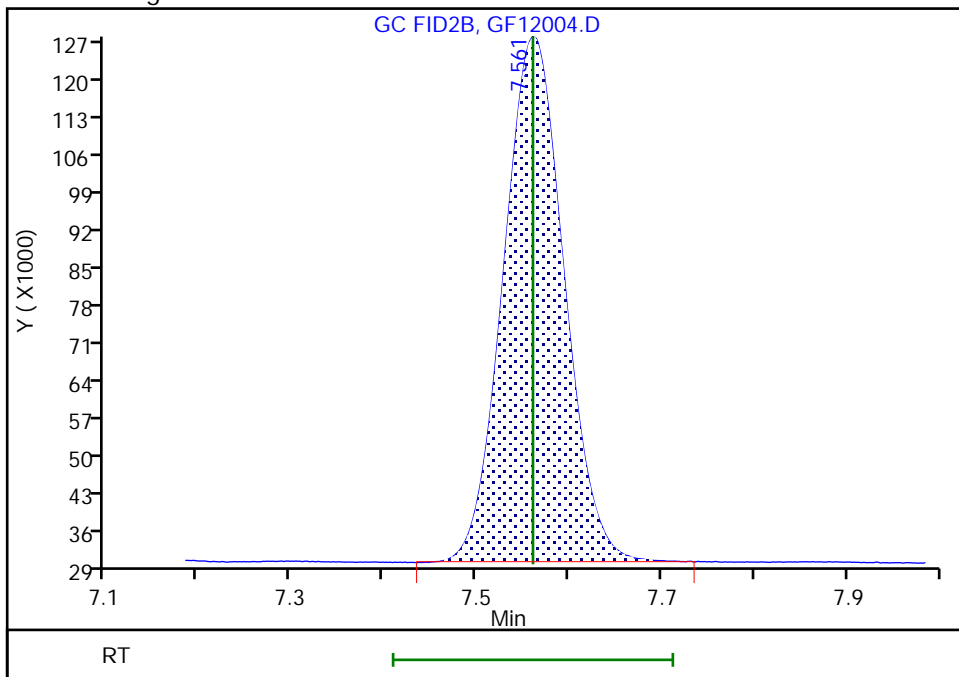
Not Detected  
Expected RT: 7.56

Processing Integration Results



Manual Integration Results

RT: 7.56  
Area: 443936  
Amount: 23.724455  
Amount Units: ug/ml



Reviewer: SFL9, 13-Jun-2023 17:58:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Sample matrix interference

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/18 Calibration Date: 06/13/2023 22:55  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12018.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.6763	0.6968		20.6	20.0	3.0	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6087	0.7055		23.2	20.0	15.9	20.0
2-Butoxyethanol	Ave	0.7258	0.7772		21.4	20.0	7.1	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0516	0.0565		21.9	20.0	9.5	20.0
Propylene glycol	LinF		0.2402		26.3	20.0	31.3*	20.0
Ethylene glycol	Lin2		0.3701		22.3	20.0	11.4	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5353	0.6482		24.2	20.0	21.1*	20.0
2,2'-Oxybisethanol	LinF		0.2563		24.0	20.0	20.1*	20.0
Triethylene Glycol	LinF		0.2609		24.9	20.0	24.7*	20.0
Tetraethylene Glycol	LinF		0.2172		41.7	40.0	4.3	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/18 Calibration Date: 06/13/2023 22:55  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12018.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	1.84	1.80	1.87
4-Hydroxy-4-methyl-2-pentanone	2.18	2.14	2.23
2-Butoxyethanol	2.29	2.24	2.34
Dipropylene Glycol Methyl Ether	3.07	3.01	3.13
Propylene glycol	3.70	3.63	3.78
Ethylene glycol	3.98	3.90	4.06
2-(2-Butoxyethoxy)ethanol	5.47	5.36	5.58
2,2'-Oxybisethanol	7.56	7.41	7.71
Triethylene Glycol	9.65	9.46	9.84
Tetraethylene Glycol	10.48	10.27	10.69

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12018.D  
 Lims ID: ccvis g4  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 13-Jun-2023 22:55:42      ALS Bottle#: 0      Worklist Smp#: 18  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0086698-018  
 Operator ID:      Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:37      Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P      Date: 14-Jun-2023 15:06:48

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.836	1.836	0.000	1208727	20.0	20.6	
2 4-Hydroxy-4-methyl-2-pentanone						
2.184	2.184	0.000	1223716	20.0	23.2	
3 2-Butoxyethanol						
2.289	2.289	0.000	1348110	20.0	21.4	
* 4 n-Heptyl Alcohol						
2.490	2.490	0.000	4336530	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.069	3.069	0.000	97971	20.0	21.9	
6 Propylene glycol						
3.701	3.701	0.000	416695	20.0	26.3	
7 Ethylene glycol						
3.984	3.984	0.000	641914	20.0	22.3	
8 2-(2-Butoxyethoxy)ethanol						
5.471	5.471	0.000	1124339	20.0	24.2	
9 2,2'-Oxybisethanol						
7.557	7.557	0.000	444649	20.0	24.0	
10 Triethylene Glycol						
9.649	9.649	0.000	452486	20.0	24.9	
11 Tetraethylene Glycol						
10.483	10.483	0.000	753513	40.0	41.7	

**QC Flag Legend**  
Processing Flags

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00119

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12018.D

Injection Date: 13-Jun-2023 22:55:42

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g4

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

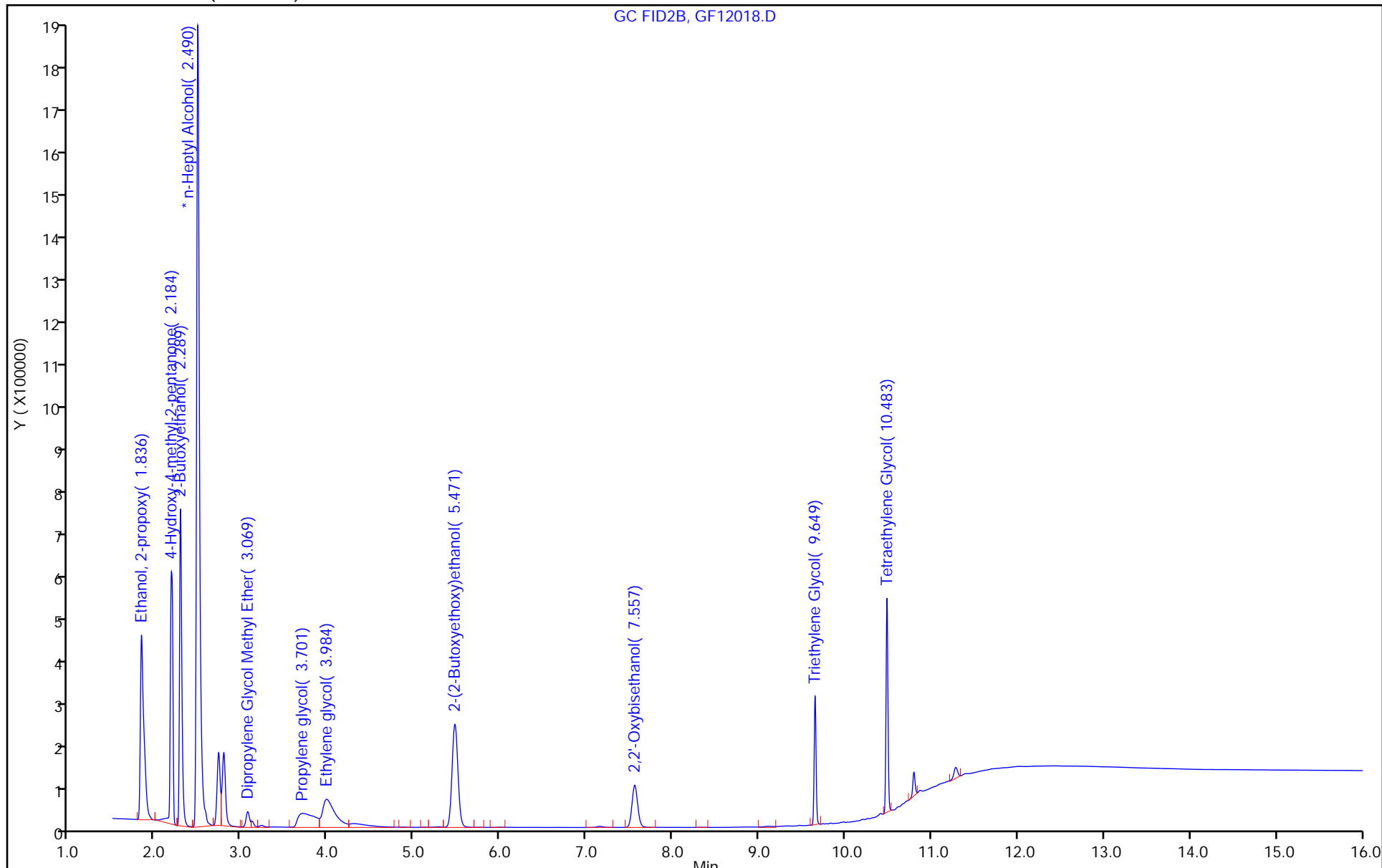
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/29 Calibration Date: 06/14/2023 03:11  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12029.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.6763	0.7426		22.0	20.0	9.8	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6087	0.7241		23.8	20.0	19.0	20.0
2-Butoxyethanol	Ave	0.7258	0.8352		23.0	20.0	15.1	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0516	0.0597		23.1	20.0	15.7	20.0
Propylene glycol	LinF		0.1957		21.4	20.0	7.0	20.0
Ethylene glycol	Lin2		0.3970		24.1	20.0	20.3*	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5353	0.6081		22.7	20.0	13.6	20.0
2,2'-Oxybisethanol	LinF		0.2382		22.3	20.0	11.6	20.0
Triethylene Glycol	LinF		0.1997		19.1	20.0	-4.5	20.0
Tetraethylene Glycol	LinF		0.1024		19.7	40.0	-50.8*	20.0



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/29 Calibration Date: 06/14/2023 03:11  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12029.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	1.84	1.80	1.87
4-Hydroxy-4-methyl-2-pentanone	2.19	2.15	2.23
2-Butoxyethanol	2.29	2.24	2.34
Dipropylene Glycol Methyl Ether	3.07	3.01	3.13
Propylene glycol	3.75	3.67	3.82
Ethylene glycol	4.00	3.92	4.08
2-(2-Butoxyethoxy)ethanol	5.47	5.36	5.58
2,2'-Oxybisethanol	7.56	7.41	7.71
Triethylene Glycol	9.65	9.46	9.84
Tetraethylene Glycol	10.48	10.27	10.69

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12029.D  
 Lims ID: ccvis g4  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 14-Jun-2023 03:11:15 ALS Bottle#: 0 Worklist Smp#: 29  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-029  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:38 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

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

1 Ethanol, 2-propoxy	1.836	1.836	0.000	1260450	20.0	22.0
2 4-Hydroxy-4-methyl-2-pentanone	2.188	2.188	0.000	1229148	20.0	23.8
3 2-Butoxyethanol	2.289	2.289	0.000	1417722	20.0	23.0
* 4 n-Heptyl Alcohol	2.494	2.494	0.000	4243503	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.069	3.069	0.000	101276	20.0	23.1
6 Propylene glycol	3.745	3.745	0.000	332165	20.0	21.4
7 Ethylene glycol	3.995	3.995	0.000	673909	20.0	24.1
8 2-(2-Butoxyethoxy)ethanol	5.470	5.470	0.000	1032134	20.0	22.7
9 2,2'-Oxybisethanol	7.558	7.558	0.000	404355	20.0	22.3
10 Triethylene Glycol	9.650	9.650	0.000	338940	20.0	19.1
11 Tetraethylene Glycol	10.483	10.483	0.000	347528	40.0	19.7

Reagents:

SG\_Gly\_CAL\_00051 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12029.D

Injection Date: 14-Jun-2023 03:11:15

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g4

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

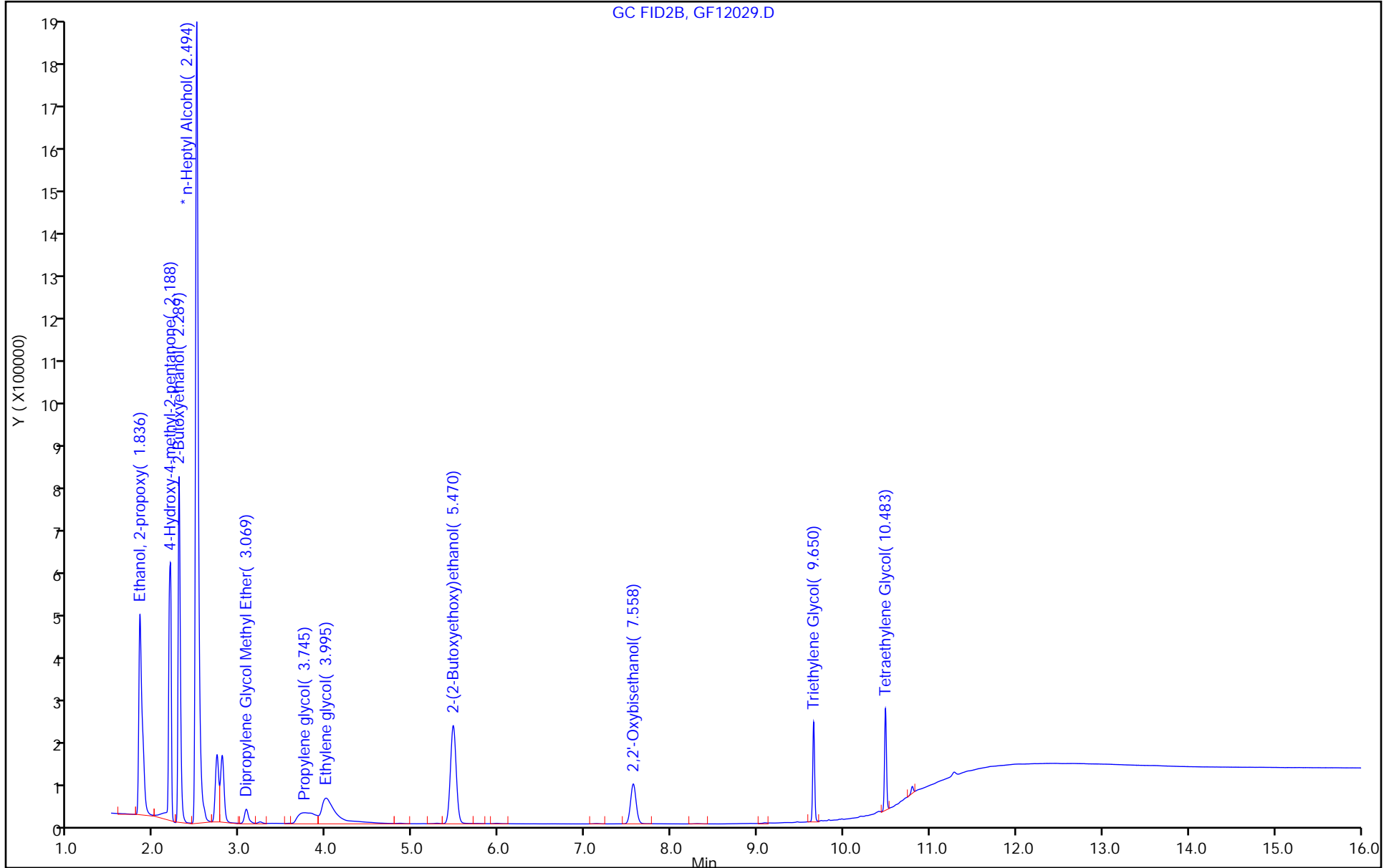
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/40 Calibration Date: 06/14/2023 07:26  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12040.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Ave	0.6763	0.7942		23.5	20.0	17.4	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6087	0.7728		25.4	20.0	27.0*	20.0
2-Butoxyethanol	Ave	0.7258	0.8833		24.3	20.0	21.7*	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0516	0.0680		26.4	20.0	31.8*	20.0
Ethylene glycol	Lin2		0.4596		28.2	20.0	41.1*	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.5353	0.6858		25.6	20.0	28.1*	20.0
2,2'-Oxybisethanol	LinF		0.2727		25.6	20.0	27.8*	20.0
Triethylene Glycol	LinF		0.2254		21.6	20.0	7.8	20.0
Tetraethylene Glycol	LinF		0.1088		20.9	40.0	-47.8*	20.0
Propylene glycol	LinF				2.00	20.0	-100.0*	20.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 680-783204/40 Calibration Date: 06/14/2023 07:26  
 Instrument ID: CVGG2 Calib Start Date: 05/27/2023 19:09  
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/27/2023 21:27  
 Lab File ID: GF12040.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	1.84	1.80	1.87
4-Hydroxy-4-methyl-2-pentanone	2.18	2.14	2.23
2-Butoxyethanol	2.29	2.24	2.34
Dipropylene Glycol Methyl Ether	3.07	3.01	3.13
Ethylene glycol	4.00	3.92	4.08
2-(2-Butoxyethoxy)ethanol	5.47	5.36	5.58
2,2'-Oxybisethanol	7.56	7.41	7.72
Triethylene Glycol	9.65	9.46	9.84
Tetraethylene Glycol	10.48	10.27	10.69
Propylene glycol			

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12040.D  
 Lims ID: ccvis g4  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 14-Jun-2023 07:26:04 ALS Bottle#: 0 Worklist Smp#: 40  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-040  
 Operator ID: Instrument ID: CVGG2  
 Sublist: chrom-8015\_GLY\_VGG\*sub2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:39 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P Date: 14-Jun-2023 15:10:05

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

1 Ethanol, 2-propoxy	1.837	1.837	0.000	1231320	20.0	23.5
2 4-Hydroxy-4-methyl-2-pentanone	2.182	2.182	0.000	1198208	20.0	25.4
3 2-Butoxyethanol	2.289	2.289	0.000	1369479	20.0	24.3
* 4 n-Heptyl Alcohol	2.493	2.493	0.000	3876156	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.068	3.068	0.000	105424	20.0	26.4
7 Ethylene glycol	3.999	3.999	0.000	712668	20.0	28.2
8 2-(2-Butoxyethoxy)ethanol	5.473	5.473	0.000	1063311	20.0	25.6
9 2,2'-Oxybisethanol	7.563	7.563	0.000	422815	20.0	25.6
10 Triethylene Glycol	9.651	9.651	0.000	349467	20.0	21.6
11 Tetraethylene Glycol	10.484	10.484	0.000	337330	40.0	20.9

QC Flag Legend  
Processing Flags

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00119

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12040.D

Injection Date: 14-Jun-2023 07:26:04

Instrument ID: CVGG2

Operator ID:

Lims ID: ccvis g4

Worklist Smp#: 40

Client ID:

Injection Vol: 1.0 ul

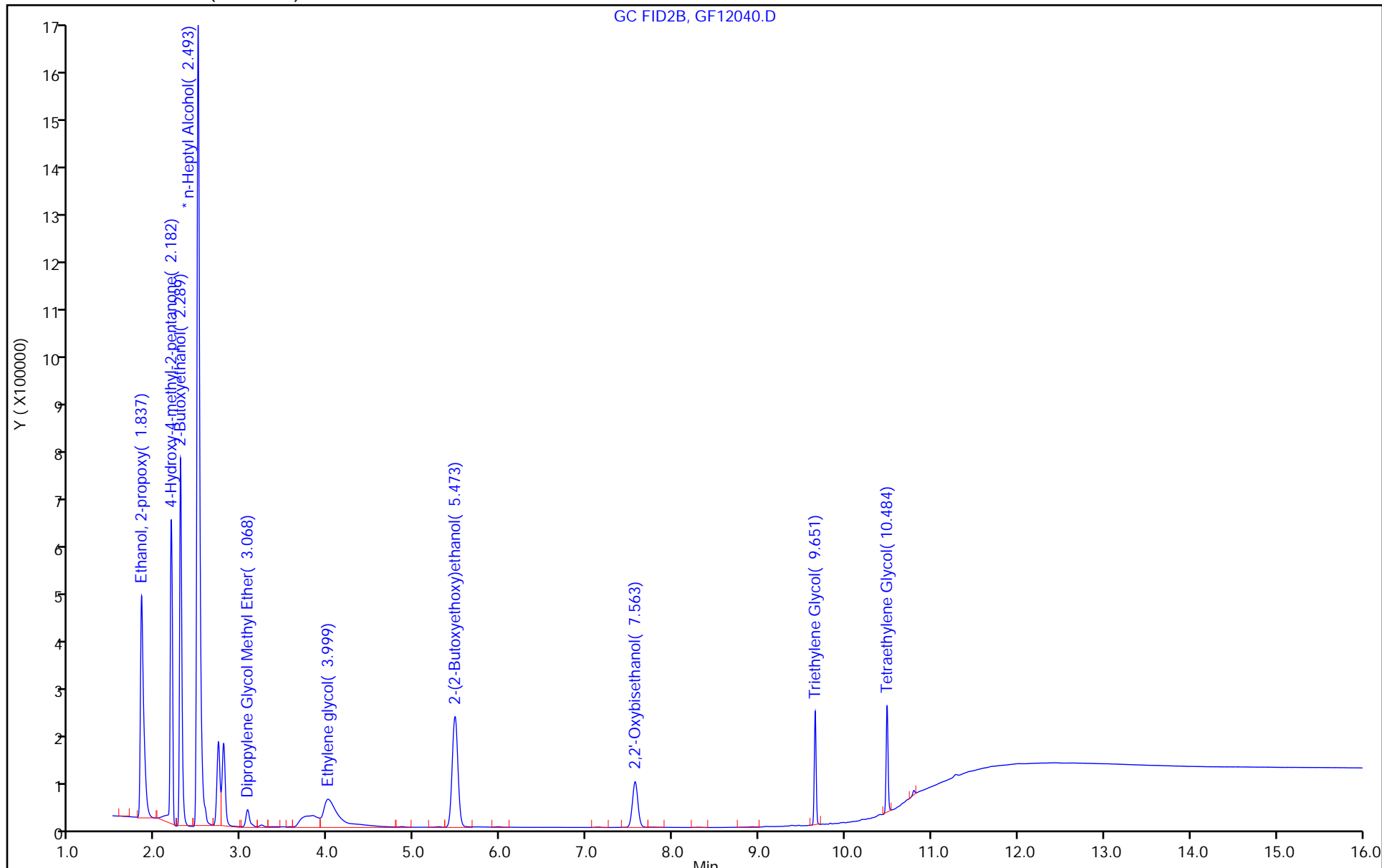
Dil. Factor: 1.0000

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.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 680-783204/10  
 Matrix: Water Lab File ID: GF12010.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/13/2023 19:49  
 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.: 783204 Units: mg/L

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

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12010.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 13-Jun-2023 19:49:40 ALS Bottle#: 0 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-010  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 14:36:40 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

RT (min.)	Exp RT (min.)	Diff RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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3 2-Butoxyethanol						7
2.284	2.289	-0.005	10239		0.1691	7
LOD =	0.5000					
* 4 n-Heptyl Alcohol						
2.498	2.493	0.005	4170660	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.131	3.068	0.063	3422		0.7955	
6 Propylene glycol						7
3.708	3.745	-0.037	2073		0.1358	7
LOD =	0.5000					
7 Ethylene glycol						7
3.989	3.999	-0.010	20841		-1.41	7
LOD =	0.6600					
9 2,2'-Oxybisethanol						7
7.564	7.563	0.001	6701		0.3765	7
LOD =	1.60					
11 Tetraethylene Glycol						7
10.484	10.484	0.000	14650		0.8435	7
LOD =	4.50					

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12010.D

Injection Date: 13-Jun-2023 19:49:40

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

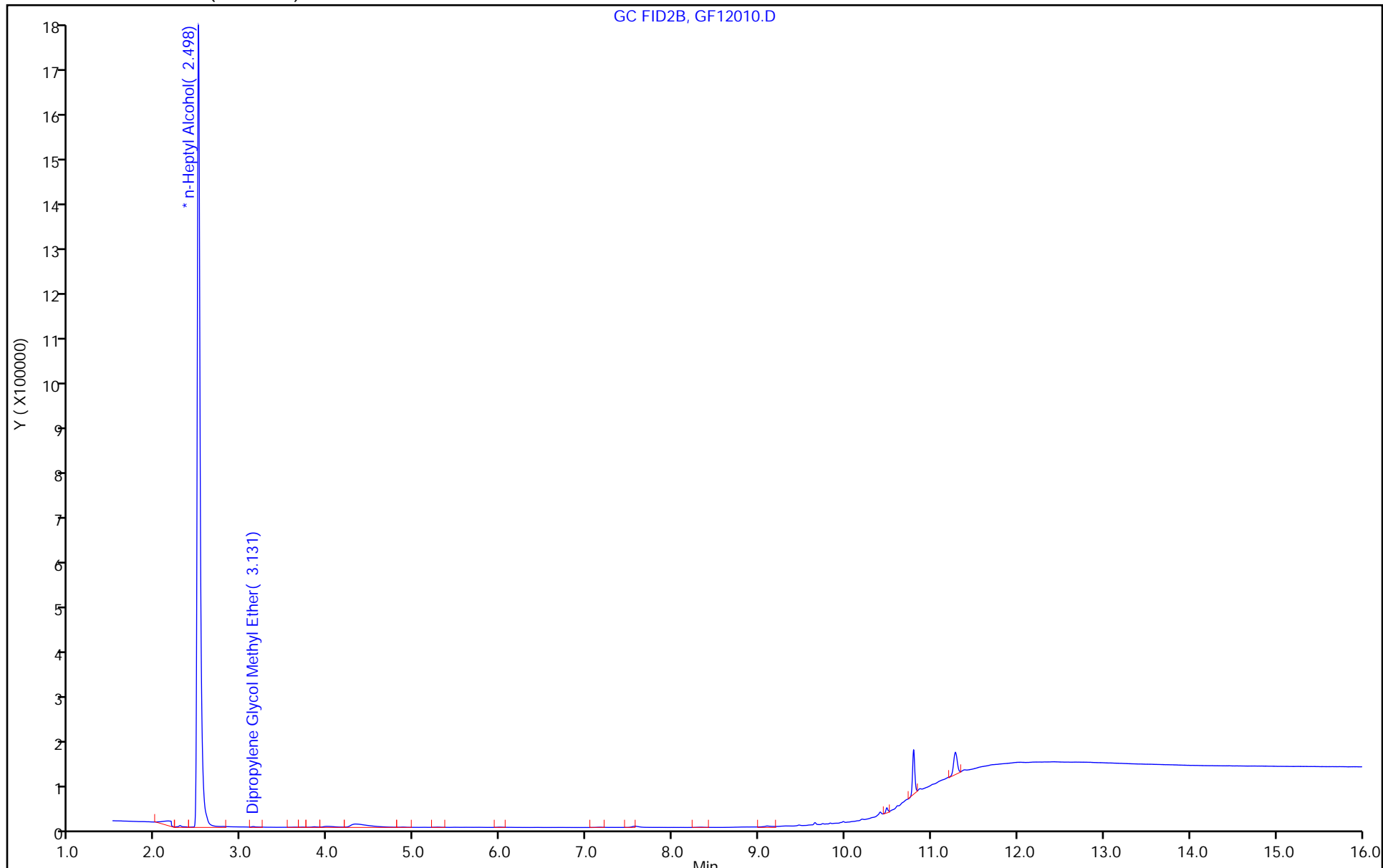
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 680-783204/5  
 Matrix: Water Lab File ID: GF12005.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/13/2023 17:53  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Cleanup Factor: \_\_\_\_\_  
 Analysis Batch No.: 783204 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	21.7		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12005.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 13-Jun-2023 17:53:04      ALS Bottle#: 0      Worklist Smp#: 5  
 Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
 Sample Info: 680-0086698005  
 Operator ID:      Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 14:40:38      Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm)      Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: SFL9      Date: 13-Jun-2023 18:31:34

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
1.843	1.848	-0.005	1268209	20.0	20.8	
2 4-Hydroxy-4-methyl-2-pentanone						
2.192	2.196	-0.004	1299795	20.0	23.7	
3 2-Butoxyethanol						
2.293	2.297	-0.004	1437836	20.0	22.0	
* 4 n-Heptyl Alcohol						
2.498	2.500	-0.002	4506564	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.077	3.084	-0.007	97990	20.0	21.1	
6 Propylene glycol						
3.714	3.721	-0.007	356699	20.0	21.6	
7 Ethylene glycol						
3.994	4.001	-0.007	594308	20.0	19.6	
8 2-(2-Butoxyethoxy)ethanol						
5.475	5.478	-0.003	1047923	20.0	21.7	
9 2,2'-Oxybisethanol						
7.561	7.561	0.000	441467	20.0	23.0	
10 Triethylene Glycol						
9.652	9.652	0.000	460659	20.0	24.4	
11 Tetraethylene Glycol						
10.484	10.485	-0.001	936356	40.0	49.9	

**QC Flag Legend**

Processing Flags

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00119

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12005.D

Injection Date: 13-Jun-2023 17:53:04

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

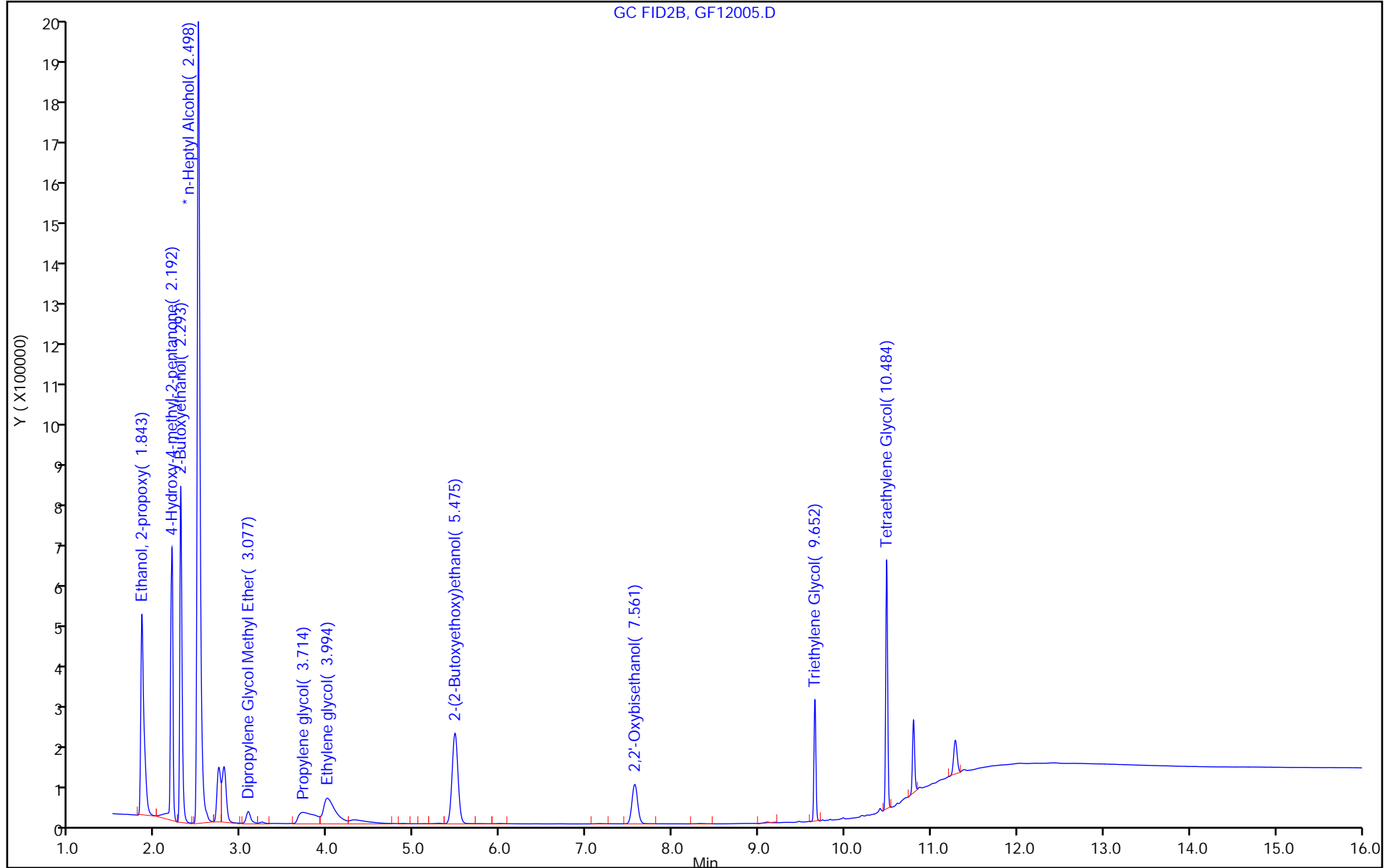
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 680-783204/6  
 Matrix: Water Lab File ID: GF12006.D  
 Analysis Method: 8015C GLY Date Collected: \_\_\_\_\_  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/13/2023 18:16  
 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.: 783204 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	22.4		5.0	3.0	1.1



Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12006.D  
 Lims ID: lcsd  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 13-Jun-2023 18:16:21 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-006  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 14:40:38 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

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	1.839	1.848	-0.009	1274558	20.0	21.0
2 4-Hydroxy-4-methyl-2-pentanone	2.192	2.196	-0.004	1305535	20.0	23.9
3 2-Butoxyethanol	2.291	2.297	-0.006	1440121	20.0	22.1
* 4 n-Heptyl Alcohol	2.495	2.500	-0.005	4482277	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.074	3.084	-0.010	100397	20.0	21.7
6 Propylene glycol	3.716	3.721	-0.005	366679	20.0	22.4
7 Ethylene glycol	3.996	4.001	-0.005	614988	20.0	20.5
8 2-(2-Butoxyethoxy)ethanol	5.474	5.478	-0.004	1074214	20.0	22.4
9 2,2'-Oxybisethanol	7.559	7.561	-0.002	455460	20.0	23.8
10 Triethylene Glycol	9.651	9.652	-0.001	477805	20.0	25.5
11 Tetraethylene Glycol	10.484	10.485	-0.001	972917	40.0	52.1

**Reagents:**

SG\_Gly\_CAL\_00051 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12006.D

Injection Date: 13-Jun-2023 18:16:21

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

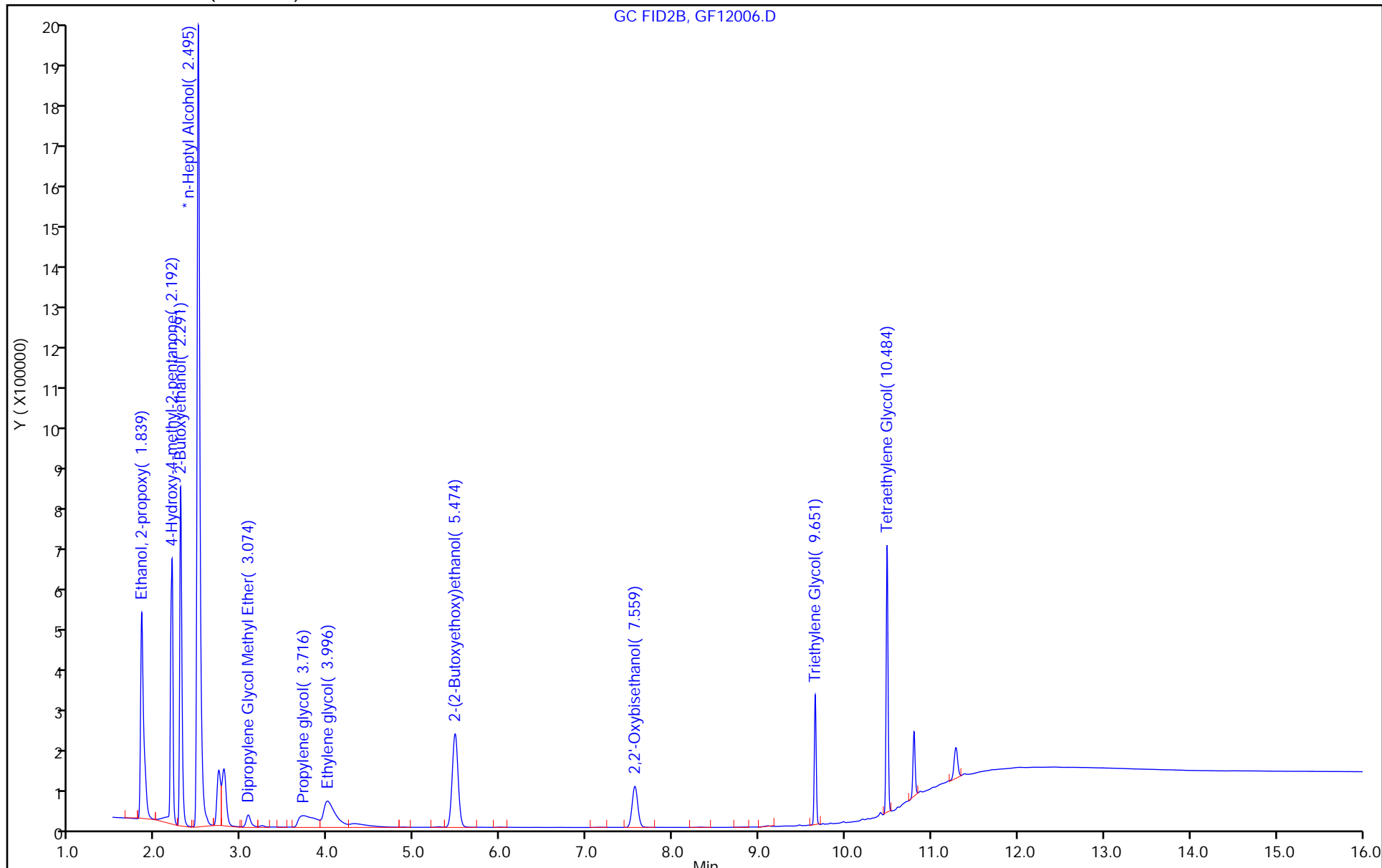
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015\_GLY\_VGG

Limit Group: 8015C\_DAI

Column: J&W DB WAX (0.45 mm)



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AF-RHMW17-WGN01LF-2306 MS Lab Sample ID: 580-128172-1 MS  
 Matrix: Water Lab File ID: GF12032.D  
 Analysis Method: 8015C GLY Date Collected: 06/08/2023 12:00  
 Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
 Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 04:20  
 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.: 783204 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	27.4		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12032.D  
 Lims ID: 580-128172-C-1 MS  
 Client ID:  
 Sample Type: MS  
 Inject. Date: 14-Jun-2023 04:20:17 ALS Bottle#: 0 Worklist Smp#: 32  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-032  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

First Level Reviewer: AR8P Date: 14-Jun-2023 15:09:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags	
1	Ethanol, 2-propoxy	1.837	1.837	0.000	446320	20.0	8.32
2	4-Hydroxy-4-methyl-2-pentanone	2.182	2.182	0.000	1331336	20.0	27.6
3	2-Butoxyethanol	2.290	2.289	0.001	1489617	20.0	25.9
*	4 n-Heptyl Alcohol	2.495	2.493	0.002	3965054	50.0	50.0
5	Dipropylene Glycol Methyl Ether	3.068	3.068	0.000	114400	20.0	28.0
6	Propylene glycol	3.737	3.701	0.036	219196	20.0	15.1
7	Ethylene glycol	3.990	3.999	-0.009	705381	20.0	27.2
8	2-(2-Butoxyethoxy)ethanol	5.474	5.473	0.001	1162825	20.0	27.4
9	2,2'-Oxybisethanol	7.562	7.563	-0.001	391031	20.0	23.1
10	Triethylene Glycol	9.650	9.651	-0.001	281611	20.0	17.0
11	Tetraethylene Glycol	10.483	10.484	-0.001	217572	40.0	13.2

QC Flag Legend

Processing Flags

Reagents:

SG\_Gly\_CAL\_00051

Amount Added: 10.00

Units: uL

SG\_GLY\_ISTD\_00119

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12032.D

Injection Date: 14-Jun-2023 04:20:17

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-C-1 MS

Worklist Smp#: 32

Client ID:

Injection Vol: 1.0 ul

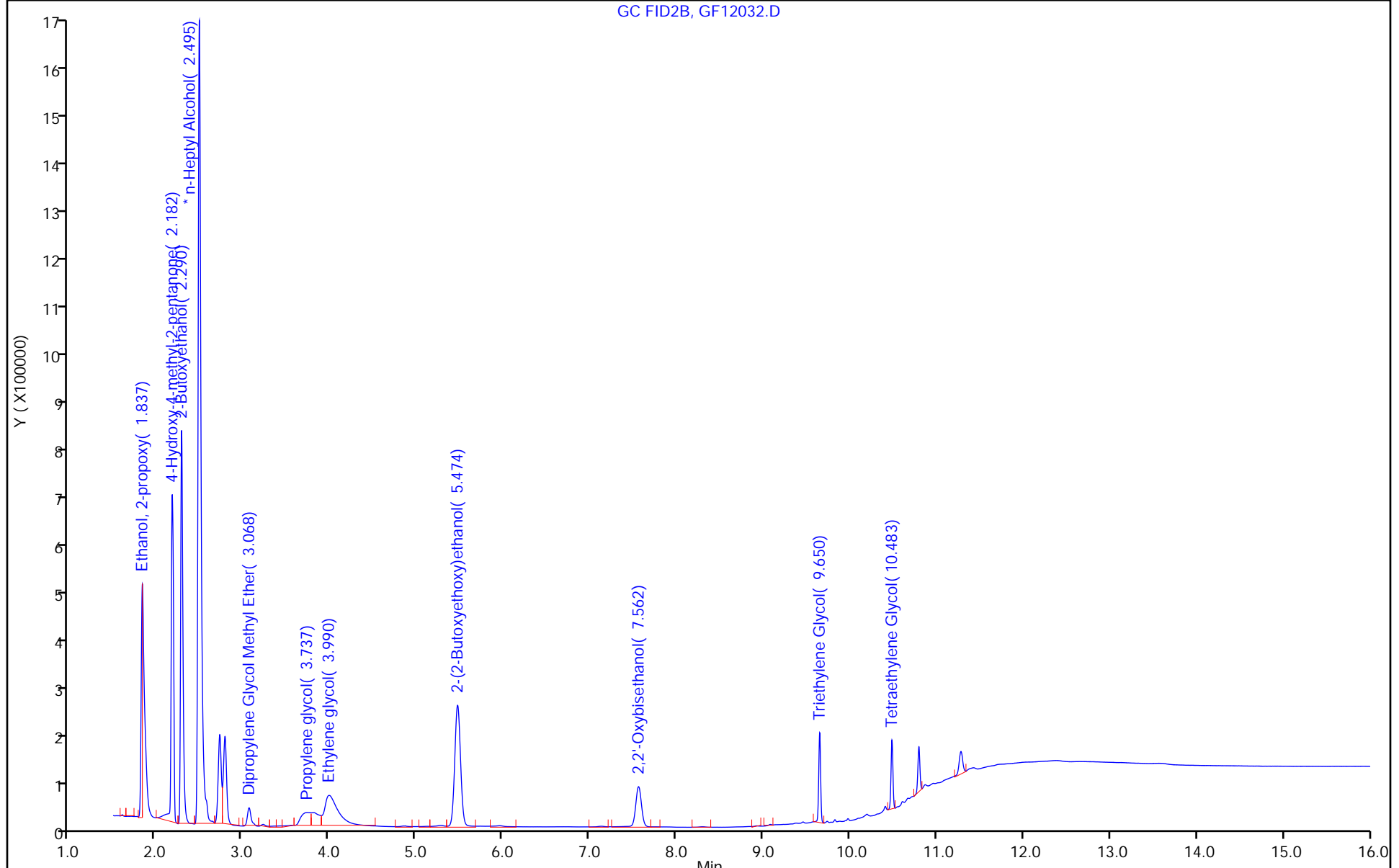
Dil. Factor: 1.0000

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.: 580-128172-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: AF-RHMW17-WGN01LF-2306 Lab Sample ID: 580-128172-1 MSD  
MSD  
Matrix: Water Lab File ID: GF12033.D  
Analysis Method: 8015C GLY Date Collected: 06/08/2023 12:00  
Extraction Method: \_\_\_\_\_ Date Extracted: \_\_\_\_\_  
Sample wt/vol: 1(mL) Date Analyzed: 06/14/2023 04:43  
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.: 783204 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	27.3		5.0	3.0	1.1

Eurofins Savannah  
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12033.D  
 Lims ID: 580-128172-C-1 MSD  
 Client ID:  
 Sample Type: MSD  
 Inject. Date: 14-Jun-2023 04:43:27 ALS Bottle#: 0 Worklist Smp#: 33  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-0086698-033  
 Operator ID: Instrument ID: CVGG2  
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\8015\_GLY\_VGG.m  
 Limit Group: 8015C\_DAI  
 Last Update: 14-Jun-2023 15:10:05 Calib Date: 27-May-2023 21:27:56  
 Integrator: Falcon  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230527-86326.b\GE27010.D  
 Column 1 : J&W DB WAX ( 0.45 mm) Det: GC FID2B  
 Process Host: CTX1627

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

1 Ethanol, 2-propoxy	1.837	1.837	0.000	1373008	20.0	24.3
2 4-Hydroxy-4-methyl-2-pentanone	2.183	2.182	0.001	1404733	20.0	27.6
3 2-Butoxyethanol	2.289	2.289	0.000	1548314	20.0	25.5
* 4 n-Heptyl Alcohol	2.492	2.493	-0.001	4176921	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.068	3.068	0.000	119003	20.0	27.6
6 Propylene glycol	3.743	3.701	0.042	402309	20.0	26.3
7 Ethylene glycol	3.992	3.999	-0.007	761921	20.0	28.0
8 2-(2-Butoxyethoxy)ethanol	5.471	5.473	-0.002	1222970	20.0	27.3
9 2,2'-Oxybisethanol	7.559	7.563	-0.004	473518	20.0	26.6
10 Triethylene Glycol	9.650	9.651	-0.001	397511	20.0	22.7
11 Tetraethylene Glycol	10.484	10.484	0.000	356770	40.0	20.5

**Reagents:**

SG\_Gly\_CAL\_00051 Amount Added: 10.00 Units: uL  
 SG\_GLY\_ISTD\_00119 Amount Added: 10.00 Units: uL Run Reagent



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230612-86698.b\GF12033.D

Injection Date: 14-Jun-2023 04:43:27

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-128172-C-1 MSD

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

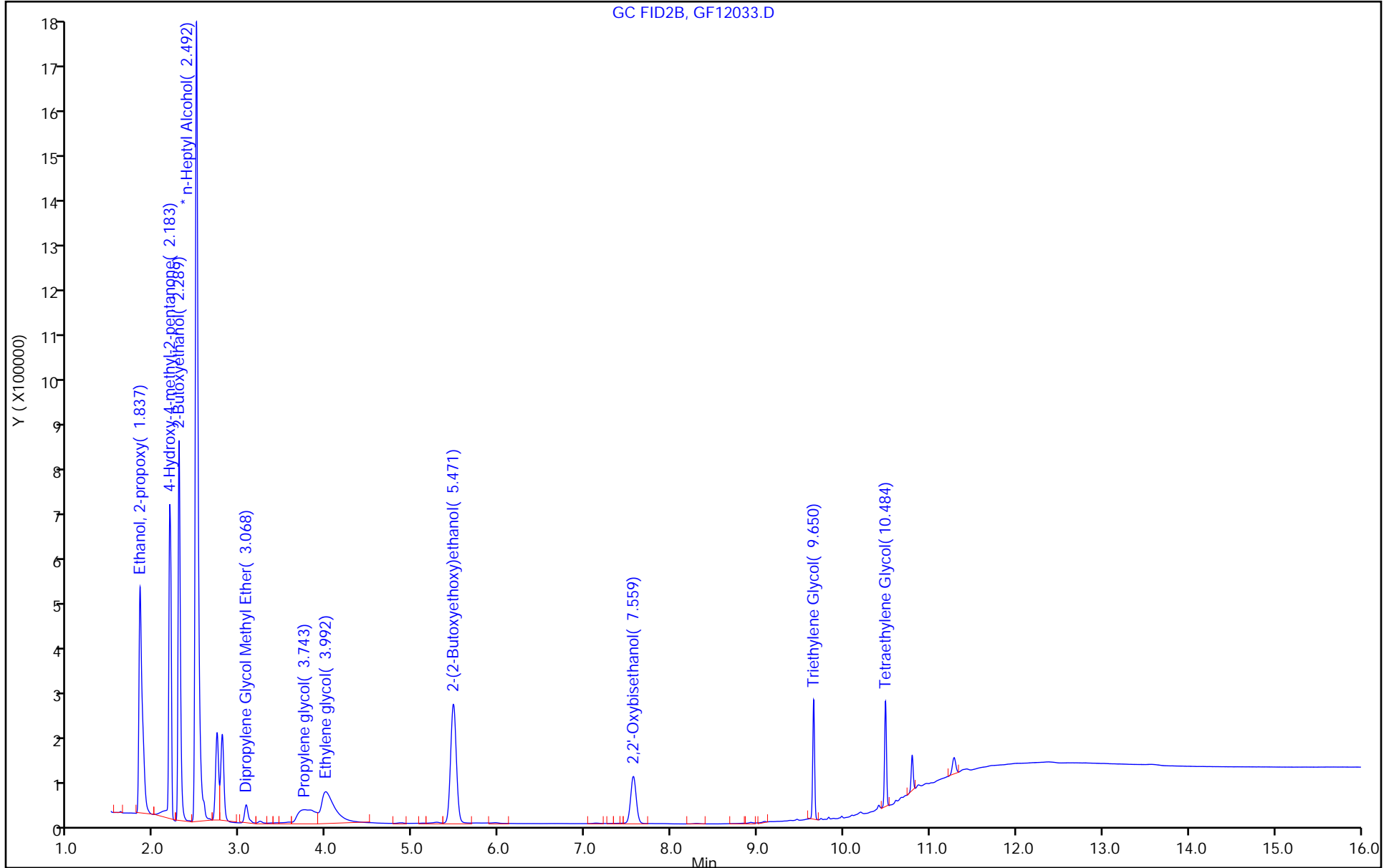
Dil. Factor: 1.0000

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.: 580-128172-1

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

Instrument ID: CVGG2 Start Date: 05/27/2023 19:09

Analysis Batch Number: 780821 End Date: 05/28/2023 05:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-780821/4		05/27/2023 19:09	1	GE27004.D	J&W DB WAX 0.45 (mm)
IC 680-780821/5		05/27/2023 19:32	1	GE27005.D	J&W DB WAX 0.45 (mm)
IC 680-780821/6		05/27/2023 19:55	1	GE27006.D	J&W DB WAX 0.45 (mm)
ICIS 680-780821/7		05/27/2023 20:18	1	GE27007.D	J&W DB WAX 0.45 (mm)
IC 680-780821/8		05/27/2023 20:41	1	GE27008.D	J&W DB WAX 0.45 (mm)
IC 680-780821/9		05/27/2023 21:04	1	GE27009.D	J&W DB WAX 0.45 (mm)
IC 680-780821/10		05/27/2023 21:27	1	GE27010.D	J&W DB WAX 0.45 (mm)
ICV 680-780821/11 CCV		05/27/2023 21:51	1	GE27011.D	J&W DB WAX 0.45 (mm)
ZZZZZ		05/27/2023 22:14	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/27/2023 22:37	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/27/2023 23:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/27/2023 23:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 00:33	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 00:56	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 01:19	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 01:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 02:05	1000		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 02:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 02:51	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 03:15	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 03:38	10		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 04:01	100		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 04:24	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/28/2023 04:47	1		J&W DB WAX 0.45 (mm)
CCV 680-780821/31		05/28/2023 05:33	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Instrument ID: CVGG2 Start Date: 06/13/2023 17:29

Analysis Batch Number: 783204 End Date: 06/14/2023 07:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-783204/4		06/13/2023 17:29	1	GF12004.D	J&W DB WAX 0.45 (mm)
LCS 680-783204/5		06/13/2023 17:53	1	GF12005.D	J&W DB WAX 0.45 (mm)
LCSD 680-783204/6		06/13/2023 18:16	1	GF12006.D	J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 18:39	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 19:03	1		J&W DB WAX 0.45 (mm)
MB 680-783204/10		06/13/2023 19:49	1	GF12010.D	J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 20:12	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 20:36	100		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 20:59	10		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 21:22	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 21:45	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 22:09	1000		J&W DB WAX 0.45 (mm)
CCV 680-783204/18		06/13/2023 22:55	1	GF12018.D	J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 22:55	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/13/2023 23:42	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 00:05	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 00:28	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 00:51	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 01:15	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 01:38	1		J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 02:24	1		J&W DB WAX 0.45 (mm)
CCV 680-783204/29		06/14/2023 03:11	1	GF12029.D	J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 03:11	1		J&W DB WAX 0.45 (mm)
580-128172-1	AF-RHMW17-WGN01LF-2306	06/14/2023 03:57	1	GF12031.D	J&W DB WAX 0.45 (mm)
580-128172-1 MS	AF-RHMW17-WGN01LF-2306 MS	06/14/2023 04:20	1	GF12032.D	J&W DB WAX 0.45 (mm)
580-128172-1 MSD	AF-RHMW17-WGN01LF-2306 MSD	06/14/2023 04:43	1	GF12033.D	J&W DB WAX 0.45 (mm)
580-128172-2	AF-RHMW17D-WGN01LF-2306	06/14/2023 05:06	1	GF12034.D	J&W DB WAX 0.45 (mm)
580-128172-3	AF-RHMW17D-WQFB01-2306	06/14/2023 05:29	1	GF12035.D	J&W DB WAX 0.45 (mm)
580-128172-4	AF-RHMW17S-WGN01LF-2306	06/14/2023 05:53	1	GF12036.D	J&W DB WAX 0.45 (mm)
580-128172-5	AF-RHMW17S-WQEB01-2306	06/14/2023 06:16	1	GF12037.D	J&W DB WAX 0.45 (mm)
580-128172-6	AF-RHMW225401-WGN01B-2306	06/14/2023 06:39	1	GF12038.D	J&W DB WAX 0.45 (mm)
CCV 680-783204/40		06/14/2023 07:26	1	GF12040.D	J&W DB WAX 0.45 (mm)
ZZZZZ		06/14/2023 07:26	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-128172-1

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

Batch Number: 780821 Batch Start Date: 05/27/23 19:09 Batch Analyst: Meincke, Griffin E

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

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00051	SG_GLY_ISTD 00115	SG_GlyICV 00058		
IC 680-780821/4		8015C GLY		1 mL	50 uL	10 uL			
IC 680-780821/5		8015C GLY		1 mL	40 uL	10 uL			
IC 680-780821/6		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-780821/7		8015C GLY		1 mL	10 uL	10 uL			
IC 680-780821/8		8015C GLY		1 mL	5 uL	10 uL			
IC 680-780821/9		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-780821/10		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-780821/11 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.: 580-128172-1

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

Batch Number: 783204 Batch Start Date: 06/13/23 17:29 Batch Analyst: Mullis, David B

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

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00051	SG_GLY_ISTD 00119			
CCVIS 680-783204/4		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-783204/5		8015C GLY		1 mL	10 uL	10 uL			
LCSD 680-783204/6		8015C GLY		1 mL	10 uL	10 uL			
MB 680-783204/10		8015C GLY		1 mL		10 uL			
CCV 680-783204/18		8015C GLY		1 mL	10 uL	10 uL			
CCV 680-783204/29		8015C GLY		1 mL	10 uL	10 uL			
580-128172-C-1	AF-RHMW17-WGN01L F-2306	8015C GLY	T	1 mL		10 uL			
580-128172-C-1 MS	AF-RHMW17-WGN01L F-2306	8015C GLY	T	1 mL	10 uL	10 uL			
580-128172-C-1 MSD	AF-RHMW17-WGN01L F-2306	8015C GLY	T	1 mL	10 uL	10 uL			
580-128172-A-2	AF-RHMW17D-WGN01 LF-2306	8015C GLY	T	1 mL		10 uL			
580-128172-A-3	AF-RHMW17D-WQFB0 1-2306	8015C GLY	T	1 mL		10 uL			
580-128172-A-4	AF-RHMW17S-WGN01 LF-2306	8015C GLY	T	1 mL		10 uL			
580-128172-B-5	AF-RHMW17S-WQEB0 1-2306	8015C GLY	T	1 mL		10 uL			
580-128172-C-6	AF-RHMW225401-WG N01B-2306	8015C GLY	T	1 mL		10 uL			
CCV 680-783204/40		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

<b>Client Information</b>		Sampler: <i>Mark yun</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2306AFE07																																																								
Client Contact:		Phone: <i>808-954-4728</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																																																								
Company: AECOM		PWSID:		<b>Analysis Requested</b>						Job #:																																																						
Address: 1001 Bishop St Suite 1600		Due Date Requested: see subcontract		<table border="1"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform: MS/MSD (Yes or No)</td> <td colspan="10" style="text-align: center; vertical-align: middle;"><i>1 6/8/23</i></td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> </tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> <tr><td colspan="10"></td></tr> </table>						Field Filtered Sample (Yes or No)	Perform: MS/MSD (Yes or No)	<i>1 6/8/23</i>										Total Number of Containers																																									Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform: MS/MSD (Yes or No)	<i>1 6/8/23</i>										Total Number of Containers																																																				
City: Honolulu		TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL		M Hexane																																																								
State, Zip: Hawaii 96813		PO #:		Project #: 60697810		B NaOH		N None																																																								
Phone: 808-954-4512 / 770-331-0794		WO #:		SSOW#:		C Zn Acetate		O AsNaO2																																																								
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #:		Site: RHSF		D Nitric Acid		P - Na2O4S																																																								
Project Name: CTO N6274223F0104		Sample Date: <i>6/8/23</i>		Sample Time: <i>0915</i>		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																																								
Site: RHSF		Sample Date: <i>6/8/23</i>		Sample Time: <i>0915</i>		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																																								
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																																								
AF-RHMW225401-WGN01B-2306		<i>6/8/23</i>		<i>0915</i>		G W		N N X																																																								
Preservation Code:		Special Instructions/Note:		Total Number of Containers: 3																																																												
<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 type="checkbox"/> Radiological		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		<input type="checkbox"/> Return To Client																																																								
Deliverable Requested I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above DoD Stage 4 report standard TAT. AECOM EQUIS EDD.		Special Instructions/QC Requirements DOD QSM project		<input checked="" type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For _____ Months																																																								
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																										
Relinquished by: <i>M +1 Xin Ma + yun</i>		Date/Time: <i>6/8/23 1430</i>		Company: AECOM		Received by: <i>Miranda DeGarmo</i>		Date/Time: <i>6/8/23 1430</i>																																																								
Relinquished by: <i>Miranda DeGarmo</i>		Date/Time: <i>6/8/23 1435</i>		Company: <i>AECOM</i>		Received by: <i>[Signature]</i>		Date/Time: <i>6/10/23 0932</i>																																																								
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																																								
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>14.2/14.0</i>																																																												

# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-128172-1

**Login Number: 128172**  
**List Number: 1**  
**Creator: Johnson, Corey M**

**List Source: Eurofins Seattle**

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