

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

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Honolulu HI 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126798-1

Eurofins Seattle

Job Notes

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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: 580-126798-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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: 580-126798-1

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

The samples were received on 05/03/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

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

GLYCOLS

Samples AF-RHMW17S-WGN01LF-2304W4 (580-126798-1), AF-RHMW17S-WQEB01-2304W4 (580-126798-2), AF-RHMW17D-WGN01LF-2304W4 (580-126798-3), AF-RHMW17D-WQFB01-2304W4 (580-126798-4) and AF-RHMW17-WGN01LF-2304W4 (580-126798-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/07/2023.

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

Detection Summary

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

Job ID: 580-126798-1

Client Sample ID: AF-RHMW17S-WGN01LF-2304W4

Lab Sample ID: 580-126798-1

No Detections.

Client Sample ID: AF-RHMW17S-WQEB01-2304W4

Lab Sample ID: 580-126798-2

No Detections.

Client Sample ID: AF-RHMW17D-WGN01LF-2304W4

Lab Sample ID: 580-126798-3

No Detections.

Client Sample ID: AF-RHMW17D-WQFB01-2304W4

Lab Sample ID: 580-126798-4

No Detections.

Client Sample ID: AF-RHMW17-WGN01LF-2304W4

Lab Sample ID: 580-126798-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 580-126798-1

Client Sample ID: AF-RHMW17S-WGN01LF-2304W4

Lab Sample ID: 580-126798-1

Date Collected: 04/28/23 08:56

Matrix: Water

Date Received: 05/03/23 10:30

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			05/07/23 10:17	1

Client Sample ID: AF-RHMW17S-WQEB01-2304W4

Lab Sample ID: 580-126798-2

Date Collected: 04/28/23 07:50

Matrix: Water

Date Received: 05/03/23 10:30

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			05/07/23 11:27	1

Client Sample ID: AF-RHMW17D-WGN01LF-2304W4

Lab Sample ID: 580-126798-3

Date Collected: 04/28/23 12:30

Matrix: Water

Date Received: 05/03/23 10:30

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			05/07/23 11:50	1

Client Sample ID: AF-RHMW17D-WQFB01-2304W4

Lab Sample ID: 580-126798-4

Date Collected: 04/28/23 10:50

Matrix: Water

Date Received: 05/03/23 10:30

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			05/07/23 12:13	1

Client Sample ID: AF-RHMW17-WGN01LF-2304W4

Lab Sample ID: 580-126798-5

Date Collected: 04/28/23 10:25

Matrix: Water

Date Received: 05/03/23 10:30

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			05/07/23 12:36	1

Default Detection Limits

Client: AECOM

Job ID: 580-126798-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

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: 580-126798-1

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

Lab Sample ID: MB 680-777342/18
Matrix: Water
Analysis Batch: 777342

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			05/07/23 04:05	1

Lab Sample ID: LCS 680-777342/12
Matrix: Water
Analysis Batch: 777342

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	19.1		mg/L		96	50 - 150

Lab Sample ID: LCSD 680-777342/13
Matrix: Water
Analysis Batch: 777342

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	19.3		mg/L		97	50 - 150	1	50

Lab Sample ID: 580-126798-1 MS
Matrix: Water
Analysis Batch: 777342

Client Sample ID: AF-RHMW17S-WGN01LF-2304W4
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	18.3		mg/L		92	50 - 150

Lab Sample ID: 580-126798-1 MSD
Matrix: Water
Analysis Batch: 777342

Client Sample ID: AF-RHMW17S-WGN01LF-2304W4
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	20.3		mg/L		102	50 - 150	10	50

QC Association Summary

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

Job ID: 580-126798-1

GC Semi VOA

Analysis Batch: 777342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-126798-1	AF-RHMW17S-WGN01LF-2304W4	Total/NA	Water	8015C GLY	
580-126798-2	AF-RHMW17S-WQEB01-2304W4	Total/NA	Water	8015C GLY	
580-126798-3	AF-RHMW17D-WGN01LF-2304W4	Total/NA	Water	8015C GLY	
580-126798-4	AF-RHMW17D-WQFB01-2304W4	Total/NA	Water	8015C GLY	
580-126798-5	AF-RHMW17-WGN01LF-2304W4	Total/NA	Water	8015C GLY	
MB 680-777342/18	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-777342/12	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-777342/13	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-126798-1 MS	AF-RHMW17S-WGN01LF-2304W4	Total/NA	Water	8015C GLY	
580-126798-1 MSD	AF-RHMW17S-WGN01LF-2304W4	Total/NA	Water	8015C GLY	

Lab Chronicle

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

Job ID: 580-126798-1

Client Sample ID: AF-RHMW17S-WGN01LF-2304W4

Lab Sample ID: 580-126798-1

Date Collected: 04/28/23 08:56

Matrix: Water

Date Received: 05/03/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 10:17

Client Sample ID: AF-RHMW17S-WQEB01-2304W4

Lab Sample ID: 580-126798-2

Date Collected: 04/28/23 07:50

Matrix: Water

Date Received: 05/03/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 11:27

Client Sample ID: AF-RHMW17D-WGN01LF-2304W4

Lab Sample ID: 580-126798-3

Date Collected: 04/28/23 12:30

Matrix: Water

Date Received: 05/03/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 11:50

Client Sample ID: AF-RHMW17D-WQFB01-2304W4

Lab Sample ID: 580-126798-4

Date Collected: 04/28/23 10:50

Matrix: Water

Date Received: 05/03/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 12:13

Client Sample ID: AF-RHMW17-WGN01LF-2304W4

Lab Sample ID: 580-126798-5

Date Collected: 04/28/23 10:25

Matrix: Water

Date Received: 05/03/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 12:36

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM

Job ID: 580-126798-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

Method Summary

Client: AECOM

Job ID: 580-126798-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method	Method Description	Protocol	Laboratory
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: 580-126798-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126798-1	AF-RHMW17S-WGN01LF-2304W4	Water	04/28/23 08:56	05/03/23 10:30
580-126798-2	AF-RHMW17S-WQEB01-2304W4	Water	04/28/23 07:50	05/03/23 10:30
580-126798-3	AF-RHMW17D-WGN01LF-2304W4	Water	04/28/23 12:30	05/03/23 10:30
580-126798-4	AF-RHMW17D-WQFB01-2304W4	Water	04/28/23 10:50	05/03/23 10:30
580-126798-5	AF-RHMW17-WGN01LF-2304W4	Water	04/28/23 10:25	05/03/23 10:30

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777342

Lab Sample ID: IC 680-777342/4 Client Sample ID: _____

Date Analyzed: 05/06/23 22:40 Lab File ID: GE06004.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.22	Baseline Smoothing	SK9U	05/07/23 14:03
Tetraethylene Glycol	10.89	Baseline Smoothing	SK9U	05/07/23 13:59

Lab Sample ID: IC 680-777342/5 Client Sample ID: _____

Date Analyzed: 05/06/23 23:04 Lab File ID: GE06005.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.22	Baseline Smoothing	SK9U	05/07/23 14:02
Triethylene Glycol	10.06	Baseline Smoothing	SK9U	05/07/23 13:59
Tetraethylene Glycol	10.89	Baseline Smoothing	SK9U	05/07/23 13:59

Lab Sample ID: IC 680-777342/6 Client Sample ID: _____

Date Analyzed: 05/06/23 23:27 Lab File ID: GE06006.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetraethylene Glycol	10.90	Incomplete Integration	SK9U	05/07/23 13:58

Lab Sample ID: ICIS 680-777342/7 Client Sample ID: _____

Date Analyzed: 05/06/23 23:50 Lab File ID: GE06007.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.23	Baseline Smoothing	SK9U	05/07/23 14:02
Tetraethylene Glycol	10.89	Incomplete Integration	SK9U	05/07/23 13:58

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777342Lab Sample ID: IC 680-777342/8 Client Sample ID: _____Date Analyzed: 05/07/23 00:13 Lab File ID: GE06008.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.22	Baseline Smoothing	SK9U	05/07/23 14:02
Tetraethylene Glycol	10.90	Incomplete Integration	SK9U	05/07/23 13:58

Lab Sample ID: IC 680-777342/9 Client Sample ID: _____Date Analyzed: 05/07/23 00:36 Lab File ID: GE06009.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	2.76	Shouldering	SK9U	05/07/23 13:56
n-Heptyl Alcohol	3.07	Shouldering	SK9U	05/07/23 13:56
Dipropylene Glycol Methyl Ether	3.82	Shouldering	SK9U	05/07/23 13:56
Propylene glycol	4.84	Incomplete Integration	SK9U	05/07/23 13:57
Ethylene glycol	4.99	Shouldering	SK9U	05/07/23 13:56
Triethylene Glycol	10.06	Shouldering	SK9U	05/07/23 13:56
Tetraethylene Glycol	10.89	Shouldering	SK9U	05/07/23 13:56

Lab Sample ID: IC 680-777342/10 Client Sample ID: _____Date Analyzed: 05/07/23 01:00 Lab File ID: GE06010.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	2.22	Baseline Smoothing	SK9U	05/07/23 14:01
Propylene glycol	4.85	Incomplete Integration	SK9U	05/07/23 13:58
Ethylene glycol	4.99	Shouldering	SK9U	05/07/23 13:57
Triethylene Glycol	10.06	Shouldering	SK9U	05/07/23 13:56
Tetraethylene Glycol	10.89	Shouldering	SK9U	05/07/23 13:56

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777342

Lab Sample ID: ICV 680-777342/11 CCV Client Sample ID: _____

Date Analyzed: 05/07/23 01:23 Lab File ID: GE06011.D GC Column: J&W DB WAX ID: 0.45 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dipropylene Glycol Methyl Ether	3.82	Baseline Smoothing	SK9U	05/07/23 14:03
Propylene glycol	4.74	Baseline Smoothing	SK9U	05/07/23 14:11
Ethylene glycol	4.98	Baseline Smoothing	SK9U	05/07/23 14:11
Triethylene Glycol	10.06	Baseline Smoothing	SK9U	05/07/23 14:19
Tetraethylene Glycol	10.89	Baseline Smoothing	SK9U	05/07/23 14:18

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG_Gly_CAL_00049	10/11/23		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_00116	11/04/23		Agilent, Lot 0006738806			(Purchased Reagent)	n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00057	07/01/23		o2si, Lot 454407			(Purchased Reagent)	2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

SG_Gly_CAL_00049



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Certificate of Analysis

Rev 0

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

Description:

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

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/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

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Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

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

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

y = boiling point of the solvent (in degrees K)

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

Method of Preparation:

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

Packaging and Storage:

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

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

Glassware Calibration:

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

Weights and Balance Calibration:

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

Homogeneity:

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

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

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

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

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

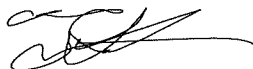


Brian Stokes

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.

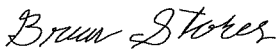
Expiration Information:

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

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00116

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:

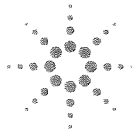
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

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/

CSD-QA-015.1

ISO 17025

Reagent

SG_GlyICV_00057



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:

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Weights and Balance Calibration:

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Homogeneity:

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Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

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

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

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

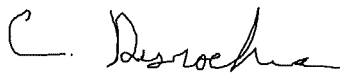
Manufactured By:



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

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-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:

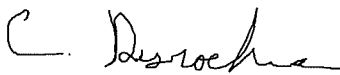


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:

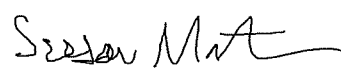


Claire Desrochers

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

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

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE06012.D
 Lab ID: LCS 680-777342/12 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy) ethanol	20.0	19.1	96	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.: 580-126798-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE06013.D
 Lab ID: LCSD 680-777342/13 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	19.3	97	1	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.: 580-126798-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE06035.D
 Lab ID: 580-126798-1 MS Client ID: AF-RHMW17S-WGN01LF-2304W4 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	18.3	92	50-150	

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

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE06036.D
 Lab ID: 580-126798-1 MSD Client ID: AF-RHMW17S-WGN01LF-2304W4 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy) ethanol	20.0	20.3	102	10	50	50-150	

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

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: MB 680-777342/18
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) GE06018.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/07/2023 04:05 Date Analyzed: (2) _____
 Instrument ID: (1) CVGG2 Instrument ID: (2) _____
 GC Column: (1) J&W DB WAX ID: 0.45 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-777342/12	05/07/2023 01:46	
	LCSD 680-777342/13	05/07/2023 02:09	
AF-RHMW17S-WGN01LF-2304W4	580-126798-1	05/07/2023 10:17	
AF-RHMW17S-WGN01LF-2304W4 MS	580-126798-1 MS	05/07/2023 10:40	
AF-RHMW17S-WGN01LF-2304W4 MSD	580-126798-1 MSD	05/07/2023 11:03	
AF-RHMW17S-WQEB01-2304W4	580-126798-2	05/07/2023 11:27	
AF-RHMW17D-WGN01LF-2304W4	580-126798-3	05/07/2023 11:50	
AF-RHMW17D-WQFB01-2304W4	580-126798-4	05/07/2023 12:13	
AF-RHMW17-WGN01LF-2304W4	580-126798-5	05/07/2023 12:36	

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

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Sample No.: ICIS 680-777342/7 Date Analyzed: 05/06/2023 23:50
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GE06007.D Heated Purge: (Y/N) N
 Calibration ID: 90930

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		5533942	3.08				
UPPER LIMIT		11067884	3.58				
LOWER LIMIT		2766971	2.58				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-777342/11 CCV		5061020	3.08				
LCS 680-777342/12		4939288	3.07				
LCSD 680-777342/13		4919768	3.07				
MB 680-777342/18		5290059	3.07				
CCV 680-777342/31		5434728	3.07				
580-126798-1	AF-RHMW17S-WGN01LF- 2304W4	6115827	3.06				
580-126798-1 MS	AF-RHMW17S-WGN01LF- 2304W4 MS	5386186	3.07				
580-126798-1 MSD	AF-RHMW17S-WGN01LF- 2304W4 MSD	5396360	3.07				
580-126798-2	AF-RHMW17S-WQEB01-2 304W4	5173543	3.07				
580-126798-3	AF-RHMW17D-WGN01LF- 2304W4	5392906	3.07				
580-126798-4	AF-RHMW17D-WQFB01-2 304W4	5098141	3.07				
580-126798-5	AF-RHMW17-WGN01LF-2 304W4	5641237	3.06				
CCV 680-777342/47		4569781	3.06				

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: AF-RHWW17S-WGN01LF-2304W4 Lab Sample ID: 580-126798-1
 Matrix: Water Lab File ID: GE06034.D
 Analysis Method: 8015C GLY Date Collected: 04/28/2023 08:56
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 10:17
 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.: 777342 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\20230506-85799.b\GE06034.D
 Lims ID: 580-126798-B-1
 Client ID: AF-RHMW17S-WGN01LF-2304W4
 Sample Type: Client
 Inject. Date: 07-May-2023 10:17:25 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-034
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 14:36:33

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

3	2-Butoxyethanol				7
2.750	2.765	-0.015	33728	0.3535	7
LOD = 0.5000					
* 4	n-Heptyl Alcohol				
3.064	3.075	-0.011	6115827	50.0	
5	Dipropylene Glycol Methyl Ether				
3.892	3.821	0.071	20764	3.00	
6	Propylene glycol				
4.764	4.746	0.018	190811	7.40	
7	Ethylene glycol				
4.978	4.981	-0.003	724448	13.1	
8	2-(2-Butoxyethoxy)ethanol				7
6.696	6.653	0.043	23865	0.3238	7
LOD = 0.5000					
9	2,2'-Oxybisethanol				
8.788	8.794	-0.006	888791	24.9	
10	Triethylene Glycol				
10.052	10.057	-0.005	930502	26.9	
11	Tetraethylene Glycol				
10.888	10.894	-0.006	1270110	34.9	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06034.D

Injection Date: 07-May-2023 10:17:25

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-B-1

Lab Sample ID: 680-126798-1

Worklist Smp#: 34

Client ID: AF-RHMW17S-WGN01LF-2304W4

Injection Vol: 1.0 ul

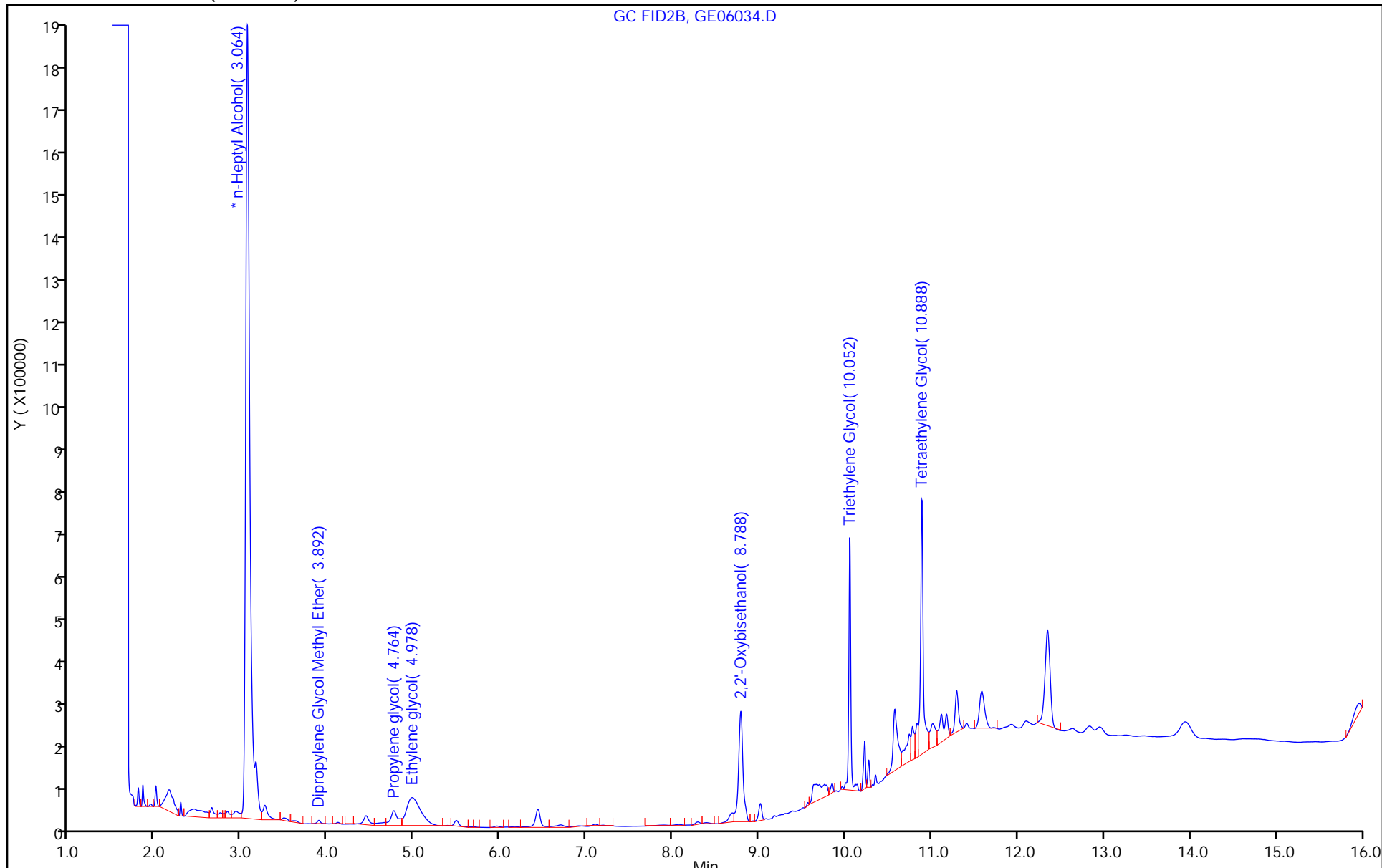
Dil. Factor: 1.0000

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: AF-RHWW17S-WQEB01-2304W4 Lab Sample ID: 580-126798-2
 Matrix: Water Lab File ID: GE06037.D
 Analysis Method: 8015C GLY Date Collected: 04/28/2023 07:50
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 11:27
 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.: 777342 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\20230506-85799.b\GE06037.D
 Lims ID: 580-126798-A-2
 Client ID: AF-RHMW17S-WQEB01-2304W4
 Sample Type: Client
 Inject. Date: 07-May-2023 11:27:07 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-037
 Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

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

* 4 n-Heptyl Alcohol
 3.065 3.075 -0.010 5173543 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 6.644 6.653 -0.009 21111 0.3386 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06037.D

Injection Date: 07-May-2023 11:27:07

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-A-2

Lab Sample ID: 680-126798-2

Worklist Smp#: 37

Client ID: AF-RHMW17S-WQEB01-2304W4

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: AF-RHWW17D-WGN01LF-2304W4 Lab Sample ID: 580-126798-3
 Matrix: Water Lab File ID: GE06038.D
 Analysis Method: 8015C GLY Date Collected: 04/28/2023 12:30
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 11:50
 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.: 777342 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\20230506-85799.b\GE06038.D
 Lims ID: 580-126798-B-3
 Client ID: AF-RHMW17D-WGN01LF-2304W4
 Sample Type: Client
 Inject. Date: 07-May-2023 11:50:18 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-038
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

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

* 4 n-Heptyl Alcohol
 3.067 3.075 -0.008 5392906 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 6.641 6.653 -0.012 5969 0.0918 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06038.D

Injection Date: 07-May-2023 11:50:18

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-B-3

Lab Sample ID: 680-126798-3

Worklist Smp#: 38

Client ID: AF-RHMW17D-WGN01LF-2304W4

Injection Vol: 1.0 ul

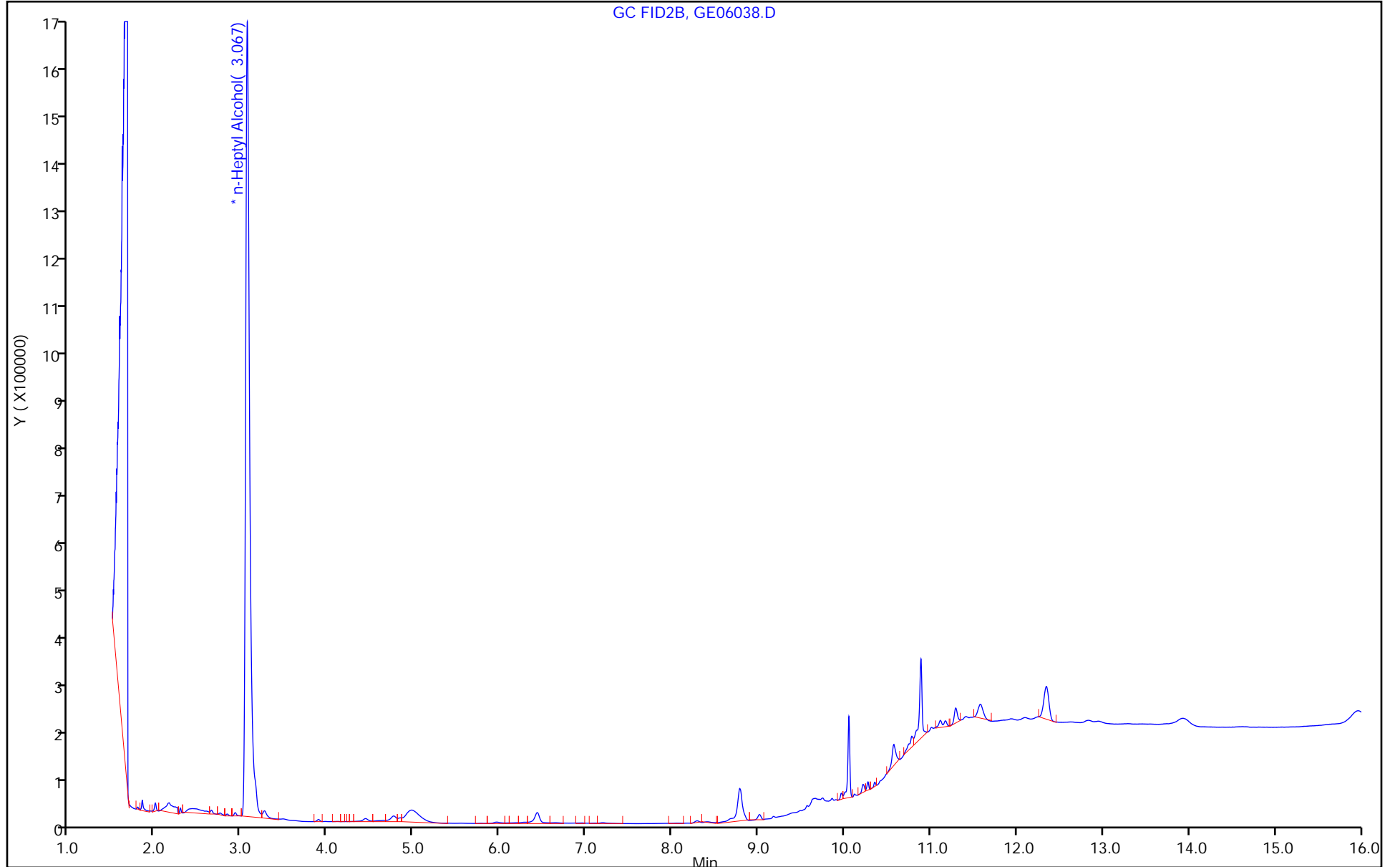
Dil. Factor: 1.0000

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: AF-RHWW17D-WQFB01-2304W4 Lab Sample ID: 580-126798-4
 Matrix: Water Lab File ID: GE06039.D
 Analysis Method: 8015C GLY Date Collected: 04/28/2023 10:50
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 12:13
 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.: 777342 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\20230506-85799.b\GE06039.D
 Lims ID: 580-126798-B-4
 Client ID: AF-RHMW17D-WQFB01-2304W4
 Sample Type: Client
 Inject. Date: 07-May-2023 12:13:29 ALS Bottle#: 0 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-039
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

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

* 4 n-Heptyl Alcohol
 3.066 3.075 -0.009 5098141 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 6.640 6.653 -0.013 5585 0.0909 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06039.D

Injection Date: 07-May-2023 12:13:29

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-B-4

Lab Sample ID: 680-126798-4

Worklist Smp#: 39

Client ID: AF-RHMW17D-WQFB01-2304W4

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: AF-RHMW17-WGN01LF-2304W4 Lab Sample ID: 580-126798-5
 Matrix: Water Lab File ID: GE06040.D
 Analysis Method: 8015C GLY Date Collected: 04/28/2023 10:25
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 12:36
 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.: 777342 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\20230506-85799.b\GE06040.D
 Lims ID: 580-126798-A-5
 Client ID: AF-RHMW17-WGN01LF-2304W4
 Sample Type: Client
 Inject. Date: 07-May-2023 12:36:49 ALS Bottle#: 0 Worklist Smp#: 40
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-040
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

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

* 4 n-Heptyl Alcohol
 3.060 3.075 -0.015 5641237 50.0
 8 2-(2-Butoxyethoxy)ethanol 7
 6.642 6.653 -0.011 5819 0.0856 7
 LOD = 0.5000

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06040.D

Injection Date: 07-May-2023 12:36:49

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-A-5

Lab Sample ID: 680-126798-5

Worklist Smp#: 40

Client ID: AF-RHMW17-WGN01LF-2304W4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

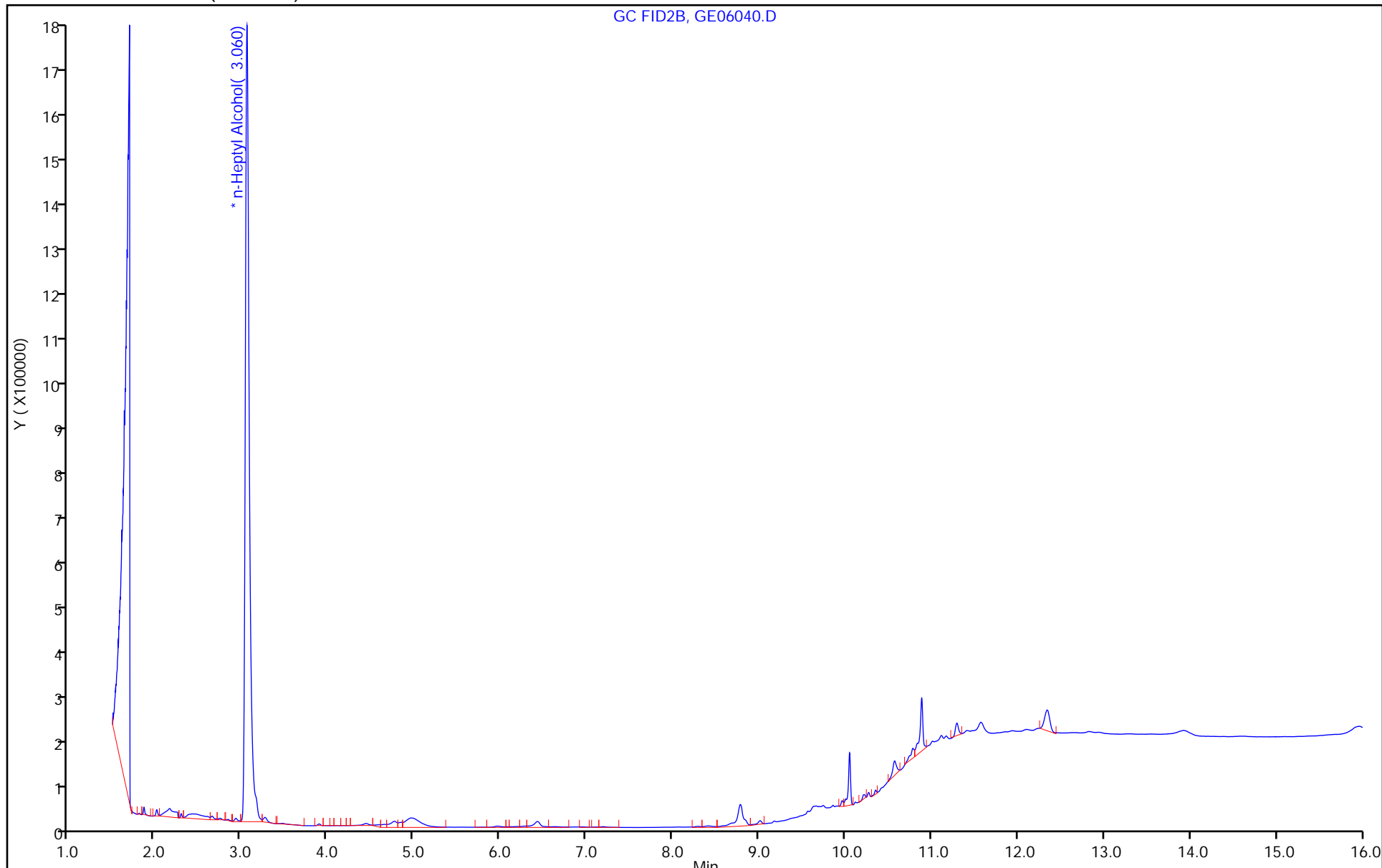
ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, GE06040.D



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

Lab Name: Eurofins Savannah Job No.: 580-126798-1 Analy Batch No.: 777342
 SDG No.: _____
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 05/06/2023 22:40 Calibration End Date: 05/07/2023 01:00 Calibration ID: 90930

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-777342/10	GE06010.D
Level 2	IC 680-777342/9	GE06009.D
Level 3	IC 680-777342/8	GE06008.D
Level 4	ICIS 680-777342/7	GE06007.D
Level 5	IC 680-777342/6	GE06006.D
Level 6	IC 680-777342/5	GE06005.D
Level 7	IC 680-777342/4	GE06004.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol, 2-propoxy	1.1028 ++++	0.8484 ++++	0.8033	0.6536	0.6313	Lin2	0.949 5	0.642 7						0.9930			0.9900
4-Hydroxy-4-methyl-2-pentanone	0.7465 ++++	0.6652 0.7015	0.6670	0.5728	0.5754	Ave		0.654 7			10.6		20.0				
2-Butoxyethanol	0.8910 ++++	0.8121 0.8137	0.8236	0.6714	0.6688	Ave		0.780 1			11.5		20.0				
Dipropylene Glycol Methyl Ether	0.0578 ++++	0.0604 0.0599	0.0565	0.0498	0.0554	Ave		0.056 6			6.8		20.0				
Propylene glycol	0.2330 ++++	0.2280 0.1851	0.2034	0.1931	0.2222	Ave		0.210 8			9.4		20.0				
Ethylene glycol	0.4674 ++++	0.4477 ++++	0.4987	0.4195	0.4343	Ave		0.453 5			6.8		20.0				
2-(2-Butoxyethoxy)ethanol	0.6617 ++++	0.6373 0.6112	0.6067	0.5330	0.5657	Ave		0.602 6			7.8		20.0				
2,2'-Oxybisethanol	0.3333 ++++	0.3226 0.2367	0.2903	0.2626	0.3034	Ave		0.291 5			12.6		20.0				
Triethylene Glycol	++++ ++++	0.3234 0.2359	0.2925	0.2614	0.2996	Ave		0.282 6			12.1		20.0				
Tetraethylene Glycol	0.3048 ++++	0.3354 0.2443	0.3001	0.2783	0.3234	Ave		0.297 7			11.0		20.0				

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

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

Lab Name: Eurofins Savannah Job No.: 580-126798-1 Analy Batch No.: 777342

SDG No.: _____

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

Calibration Start Date: 05/06/2023 22:40 Calibration End Date: 05/07/2023 01:00 Calibration ID: 90930

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-777342/10	GE06010.D
Level 2	IC 680-777342/9	GE06009.D
Level 3	IC 680-777342/8	GE06008.D
Level 4	ICIS 680-777342/7	GE06007.D
Level 5	IC 680-777342/6	GE06006.D
Level 6	IC 680-777342/5	GE06005.D
Level 7	IC 680-777342/4	GE06004.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Ethanol, 2-propoxy	nHPA	Lin2	211787 ++++	427141 ++++	804256	1446763	2923242	2.00 ++++	5.00 ++++	10.0	20.0	50.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	143356 ++++	334892 5858687	667845	1267918	2664192	2.00 ++++	5.00 100	10.0	20.0	50.0
2-Butoxyethanol	nHPA	Ave	171114 ++++	408858 6795955	824628	1486246	3096663	2.00 ++++	5.00 100	10.0	20.0	50.0
Dipropylene Glycol Methyl Ether	nHPA	Ave	11097 ++++	30429 500045	56542	110229	256578	2.00 ++++	5.00 100	10.0	20.0	50.0
Propylene glycol	nHPA	Ave	44748 ++++	114798 1546146	203639	427465	1029045	2.00 ++++	5.00 100	10.0	20.0	50.0
Ethylene glycol	nHPA	Ave	89758 ++++	225403 ++++	499363	928683	2011041	2.00 ++++	5.00 ++++	10.0	20.0	50.0
2-(2-Butoxyethoxy)ethanol	nHPA	Ave	127075 ++++	320859 5104386	607488	1179800	2619501	2.00 ++++	5.00 100	10.0	20.0	50.0
2,2'-Oxybisethanol	nHPA	Ave	64001 ++++	162417 1976777	290625	581197	1404834	2.00 ++++	5.00 100	10.0	20.0	50.0
Triethylene Glycol	nHPA	Ave	++++ ++++	162797 1970138	292885	578622	1387407	++++ ++++	5.00 100	10.0	20.0	50.0
Tetraethylene Glycol	nHPA	Ave	117084 ++++	337699 4079994	601002	1231912	2994722	4.00 ++++	10.0 200	20.0	40.0	100

Curve Type Legend

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

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

Lab Name: Eurofins Savannah Job No.: 580-126798-1 Analy Batch No.: 777342

SDG No.: _____

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

Calibration Start Date: 05/06/2023 22:40 Calibration End Date: 05/07/2023 01:00 Calibration ID: 90930

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-777342/10	GE06010.D
Level 2	IC 680-777342/9	GE06009.D
Level 3	IC 680-777342/8	GE06008.D
Level 4	ICIS 680-777342/7	GE06007.D
Level 5	IC 680-777342/6	GE06006.D
Level 6	IC 680-777342/5	GE06005.D
Level 7	IC 680-777342/4	GE06004.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	-2.3 ++++	2.5	10.2	-5.7	-4.7	++++	20	20	20	20	20	
4-Hydroxy-4-methyl-2-pentanone	14.0 7.1	1.6	1.9	-12.5	-12.1	++++	20 20	20	20	20	20	
2-Butoxyethanol	14.2 4.3	4.1	5.6	-13.9	-14.3	++++	20 20	20	20	20	20	
Dipropylene Glycol Methyl Ether	2.0 5.7	6.7	-0.3	-12.1	-2.1	++++	20 20	20	20	20	20	
Propylene glycol	10.5 -12.2	8.2	-3.5	-8.4	5.4	++++	20 20	20	20	20	20	
Ethylene glycol	3.1 ++++	-1.3	10.0	-7.5	-4.2	++++	20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	9.8 1.4	5.8	0.7	-11.6	-6.1	++++	20 20	20	20	20	20	
2,2'-Oxybisethanol	14.3 -18.8	10.7	-0.4	-9.9	4.1	++++	20 20	20	20	20	20	
Triethylene Glycol	++++ -16.5	14.4	3.5	-7.5	6.0	++++	20	20	20	20	20	
Tetraethylene Glycol	2.4 -18.0	12.7	0.8	-6.5	8.6	++++	20 20	20	20	20	20	

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06004.D
 Lims ID: ic g7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 06-May-2023 22:40:53 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-004
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:41 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:59:43

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.223	2.227	-0.004	6575079	100.0	121.0	M
2	4-Hydroxy-4-methyl-2-pentanone					
2.576	2.579	-0.003	5858687	100.0	107.1	
3	2-Butoxyethanol					
2.763	2.765	-0.002	6795955	100.0	104.3	
* 4	n-Heptyl Alcohol					
3.074	3.075	-0.001	4175901	50.0	50.0	
5	Dipropylene Glycol Methyl Ether					
3.819	3.821	-0.002	500045	100.0	105.7	
6	Propylene glycol					
4.740	4.746	-0.006	1546146	100.0	87.8	
7	Ethylene glycol					
4.979	4.981	-0.002	2881740	100.0	76.1	
8	2-(2-Butoxyethoxy)ethanol					
6.656	6.653	0.003	5104386	100.0	101.4	
9	2,2'-Oxybisethanol					
8.797	8.794	0.003	1976777	100.0	81.2	
10	Triethylene Glycol					
10.058	10.057	0.001	1970138	100.0	83.5	
11	Tetraethylene Glycol					M
10.894	10.894	0.000	4079994	200.0	164.1	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 50.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06004.D

Injection Date: 06-May-2023 22:40:53

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

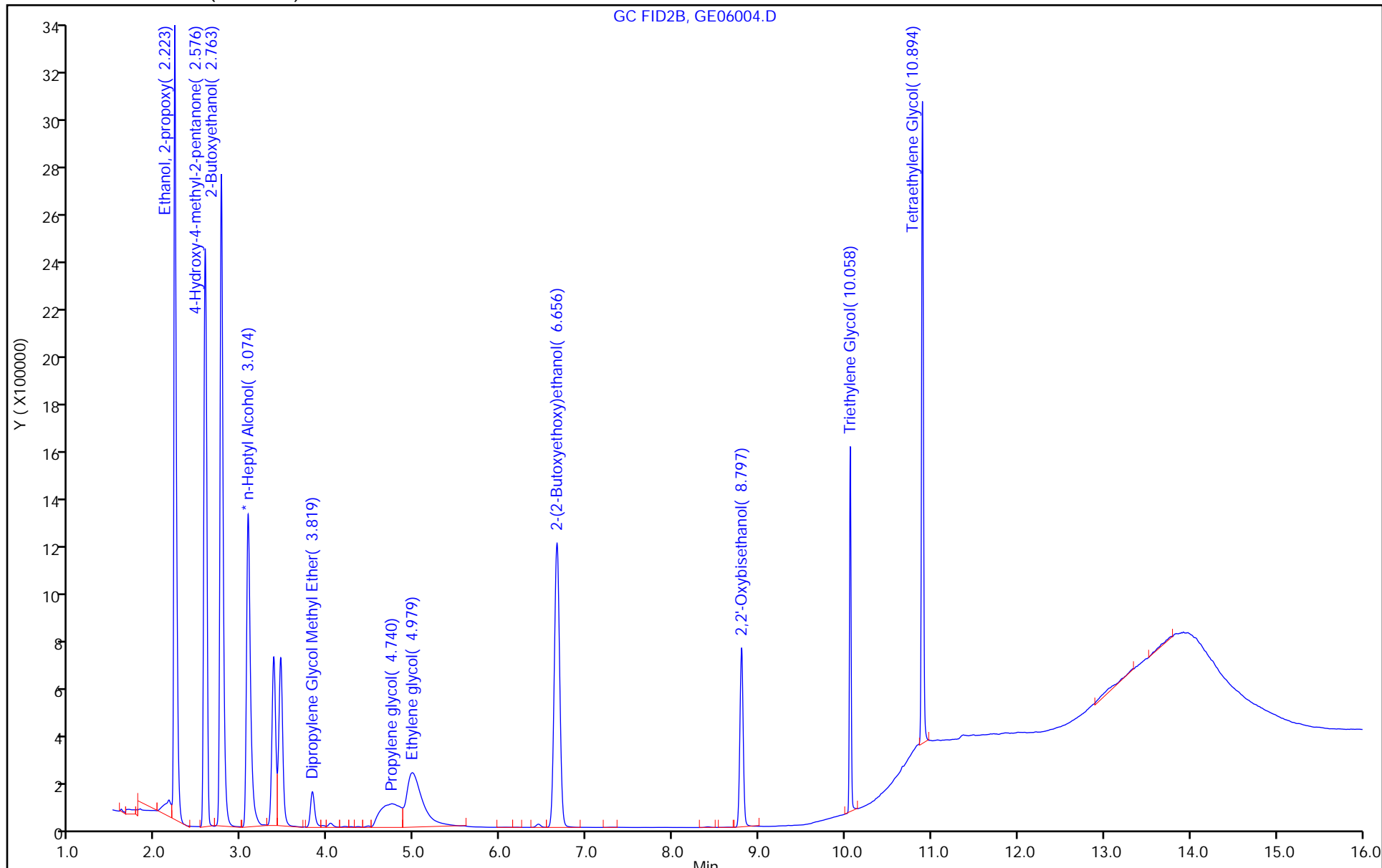
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

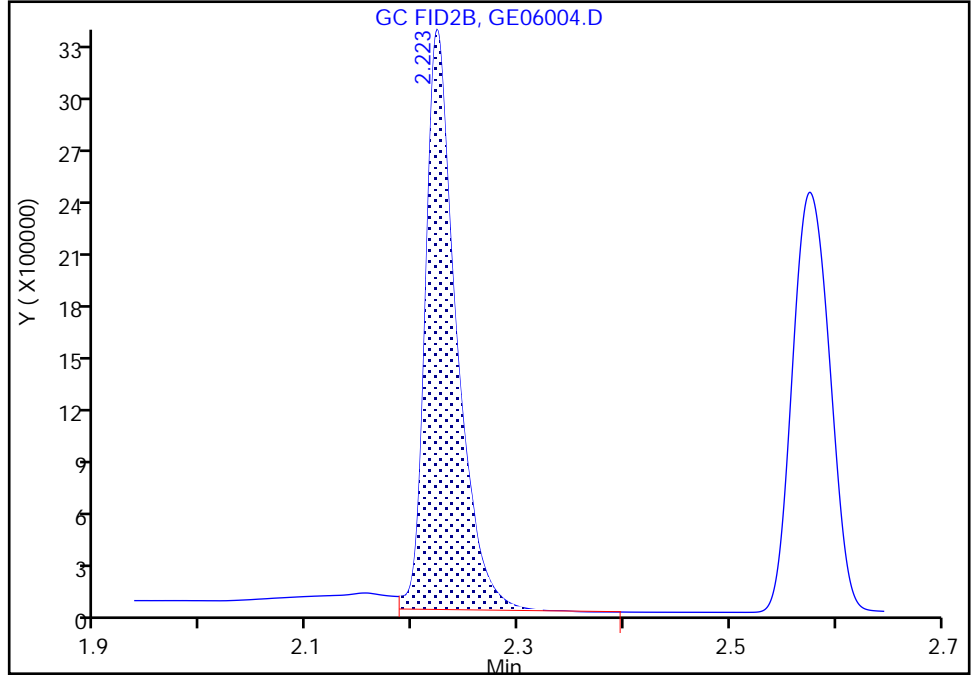
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06004.D
Injection Date: 06-May-2023 22:40:53 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

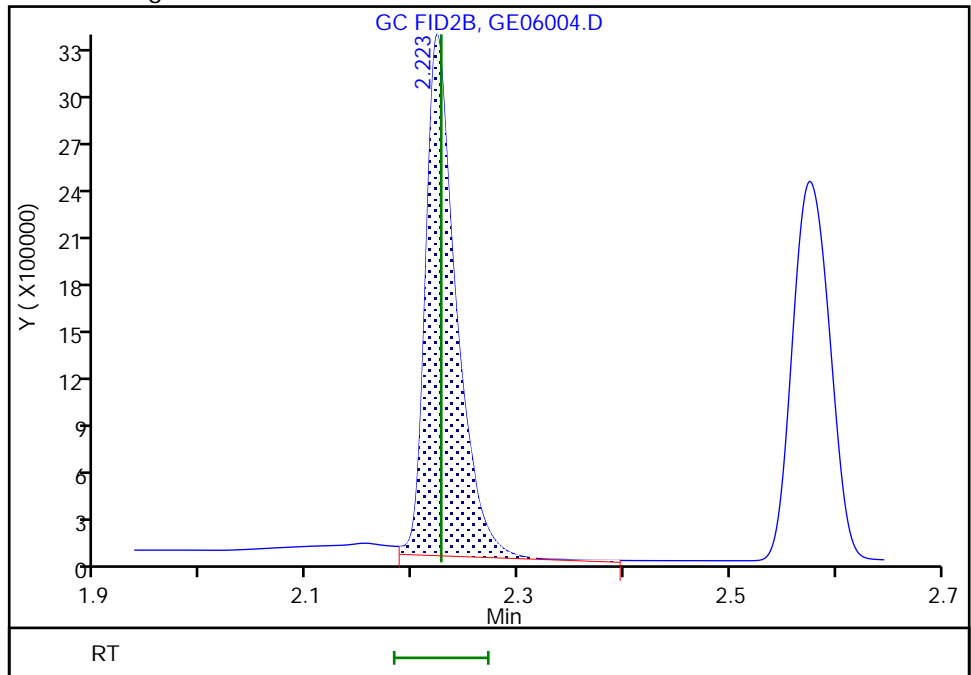
RT: 2.22
Area: 6634359
Amount: 102.6223
Amount Units: ug/ml

Processing Integration Results



RT: 2.22
Area: 6575079
Amount: 121.0211
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

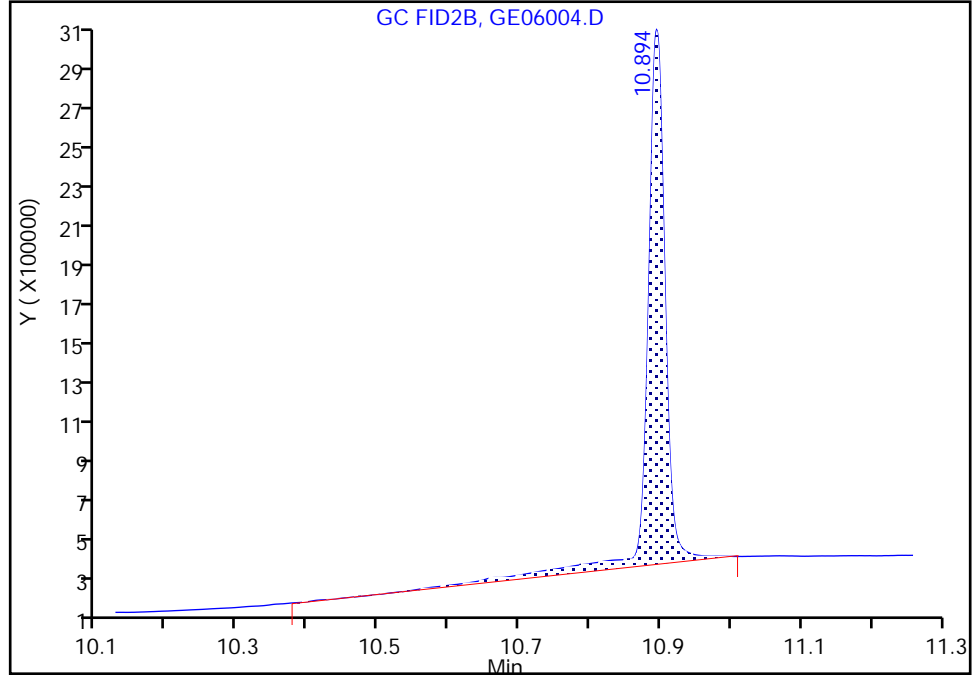
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06004.D
Injection Date: 06-May-2023 22:40:53 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

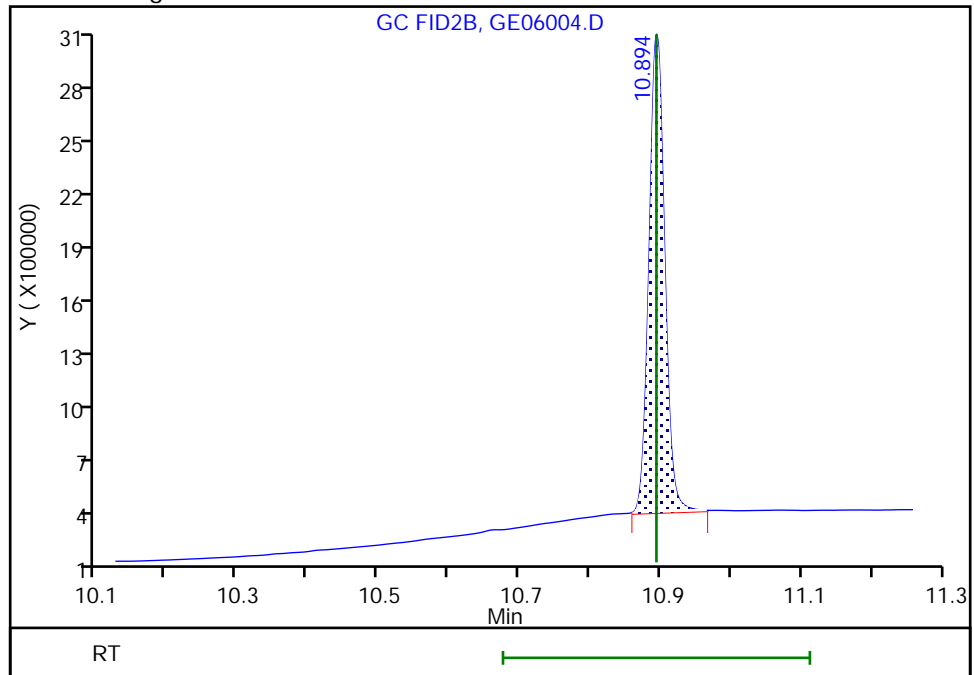
RT: 10.89
Area: 4794362
Amount: 185.6105
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 4079994
Amount: 164.0925
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:59:35
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06005.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 06-May-2023 23:04:03 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:42 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:59:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.224	2.227	-0.003	4405676	80.0	80.1	M
2	4-Hydroxy-4-methyl-2-pentanone					
2.575	2.579	-0.004	4090153	80.0	74.4	
3	2-Butoxyethanol					
2.765	2.765	0.000	4584736	80.0	70.0	
* 4	n-Heptyl Alcohol					
3.078	3.075	0.003	4200648	50.0	50.0	
5	Dipropylene Glycol Methyl Ether					
3.818	3.821	-0.003	387799	80.0	81.5	
6	Propylene glycol					
4.742	4.746	-0.004	1828615	80.0	103.2	
7	Ethylene glycol					
4.975	4.981	-0.006	3507693	80.0	92.1	
8	2-(2-Butoxyethoxy)ethanol					
6.655	6.653	0.002	4122303	80.0	81.4	
9	2,2'-Oxybisethanol					
8.795	8.794	0.001	2401002	80.0	98.1	
10	Triethylene Glycol					M
10.058	10.057	0.001	2542937	80.0	107.1	M
11	Tetraethylene Glycol					M
10.894	10.894	0.000	4515528	160.0	180.5	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 40.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06005.D

Injection Date: 06-May-2023 23:04:03

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

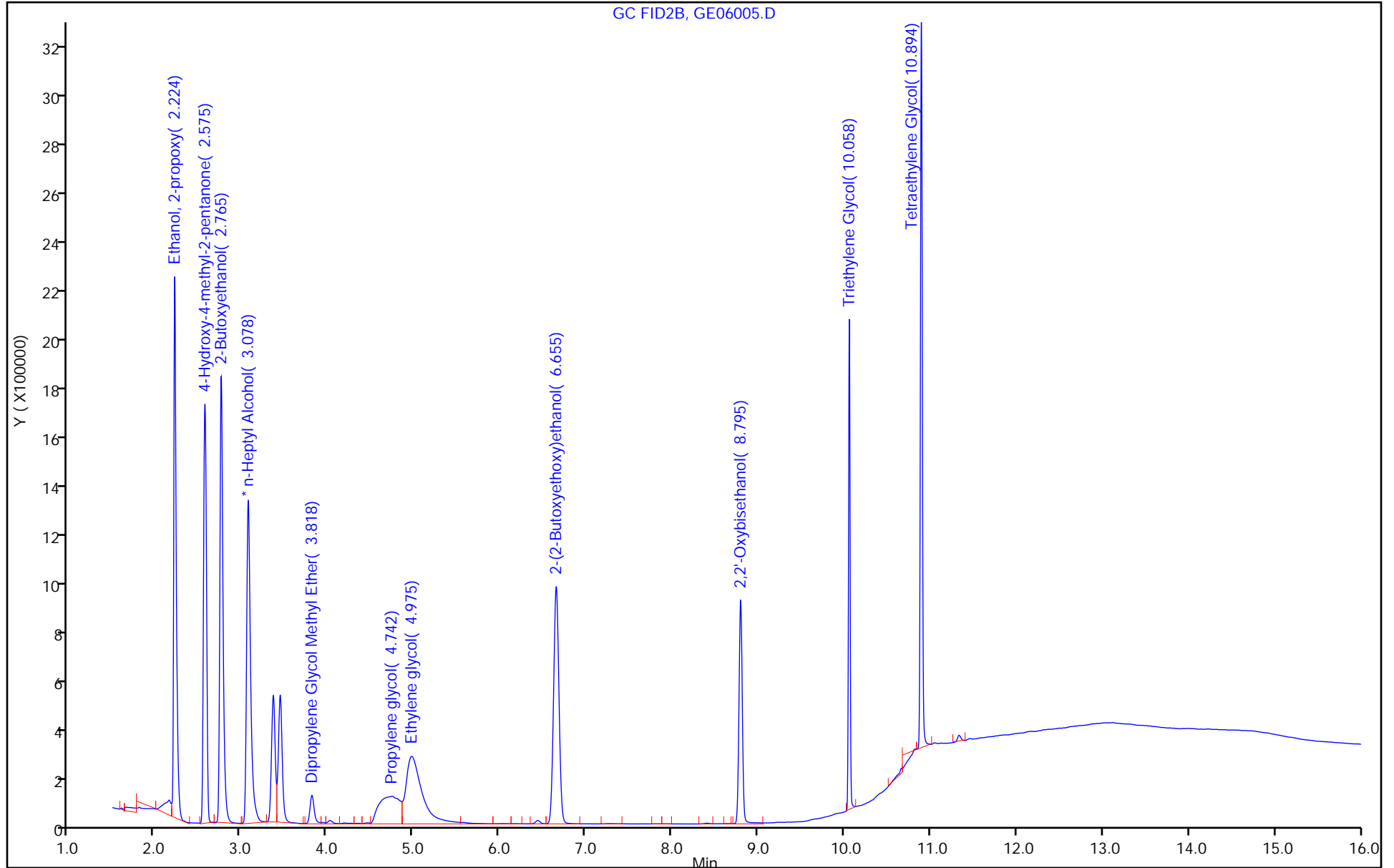
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

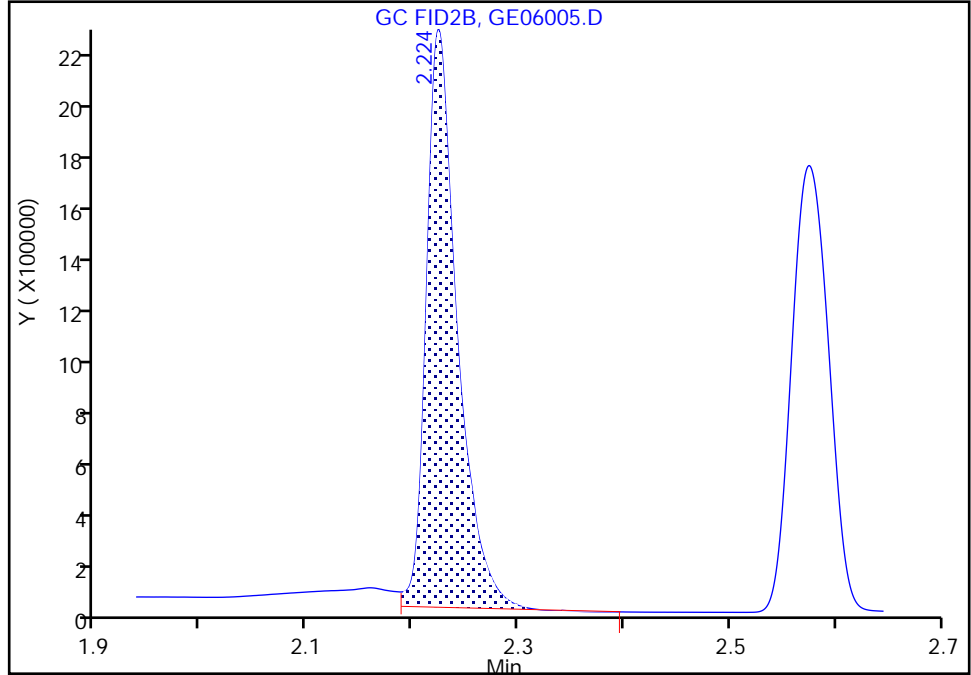
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06005.D
Injection Date: 06-May-2023 23:04:03 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

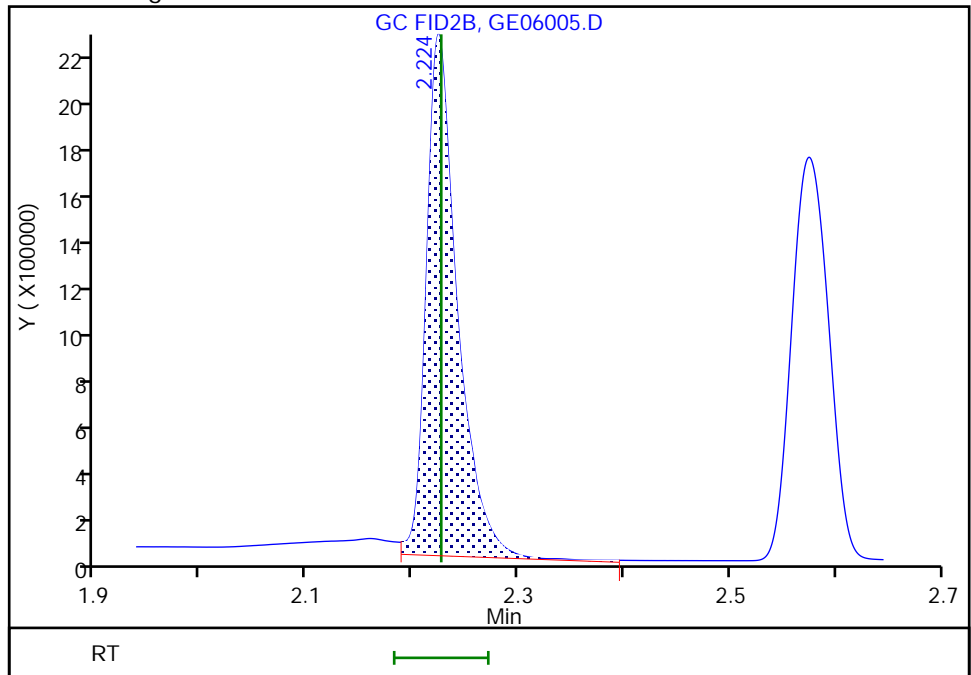
RT: 2.22
Area: 4449714
Amount: 75.461388
Amount Units: ug/ml

Processing Integration Results



RT: 2.22
Area: 4405676
Amount: 80.120029
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

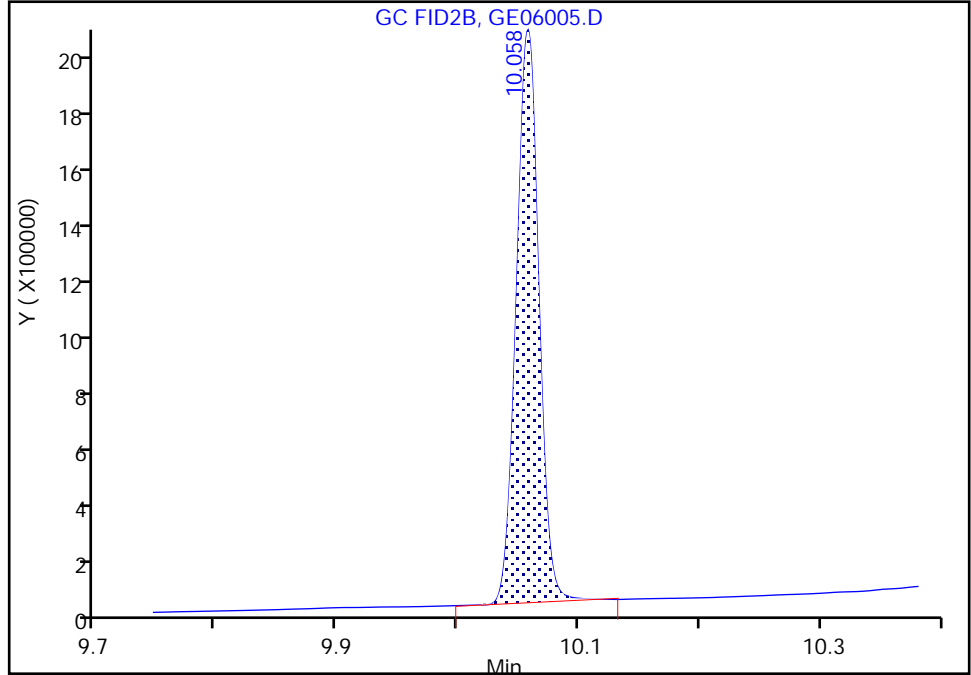
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06005.D
Injection Date: 06-May-2023 23:04:03 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

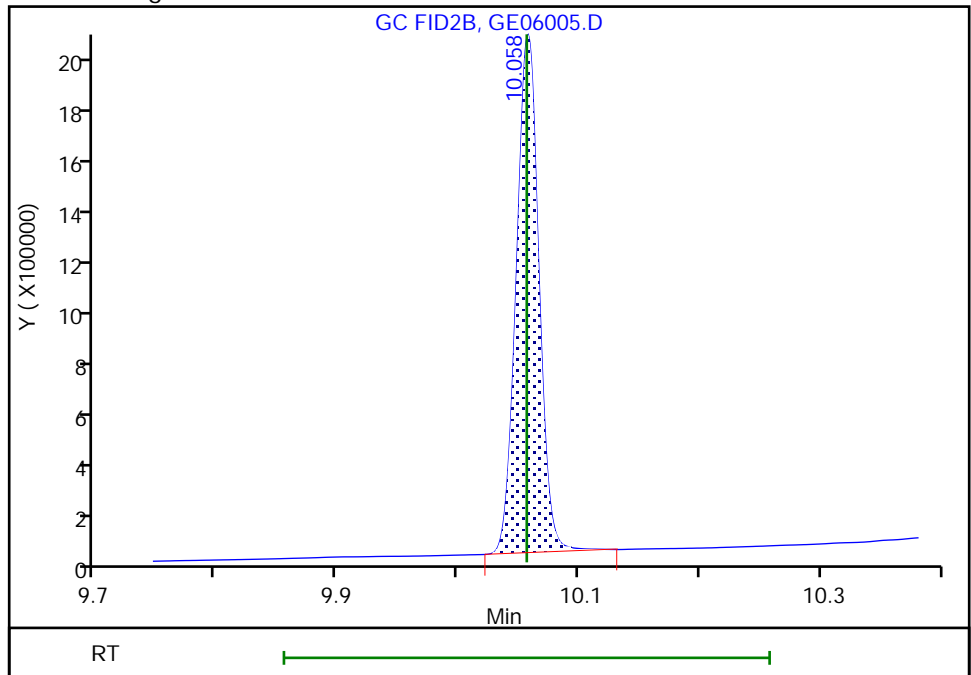
RT: 10.06
Area: 2543856
Amount: NaN
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 2542937
Amount: 107.1214
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:59:16
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

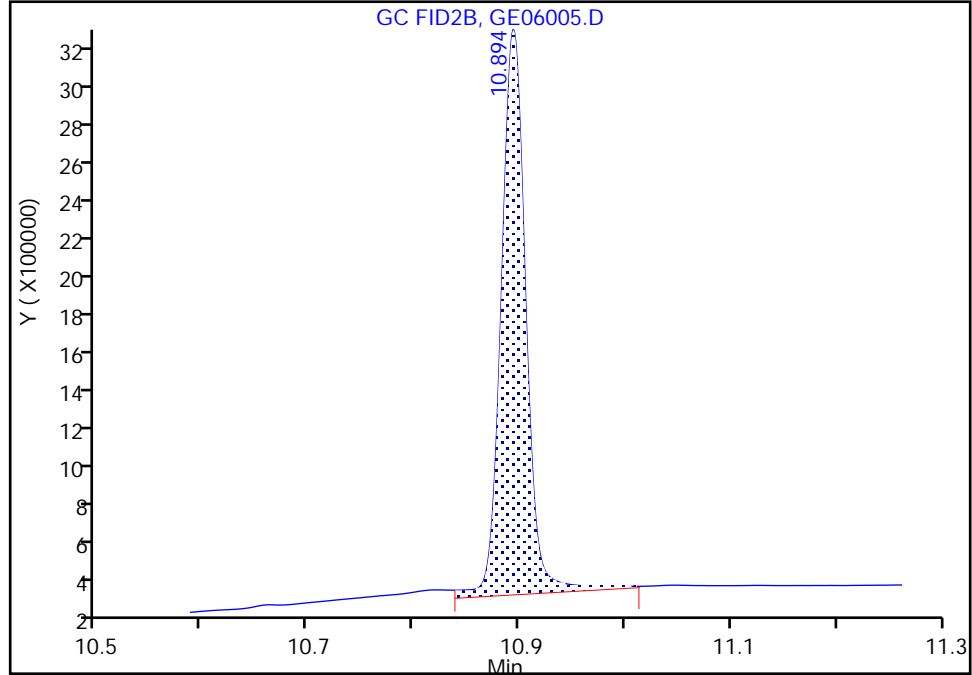
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06005.D
Injection Date: 06-May-2023 23:04:03 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

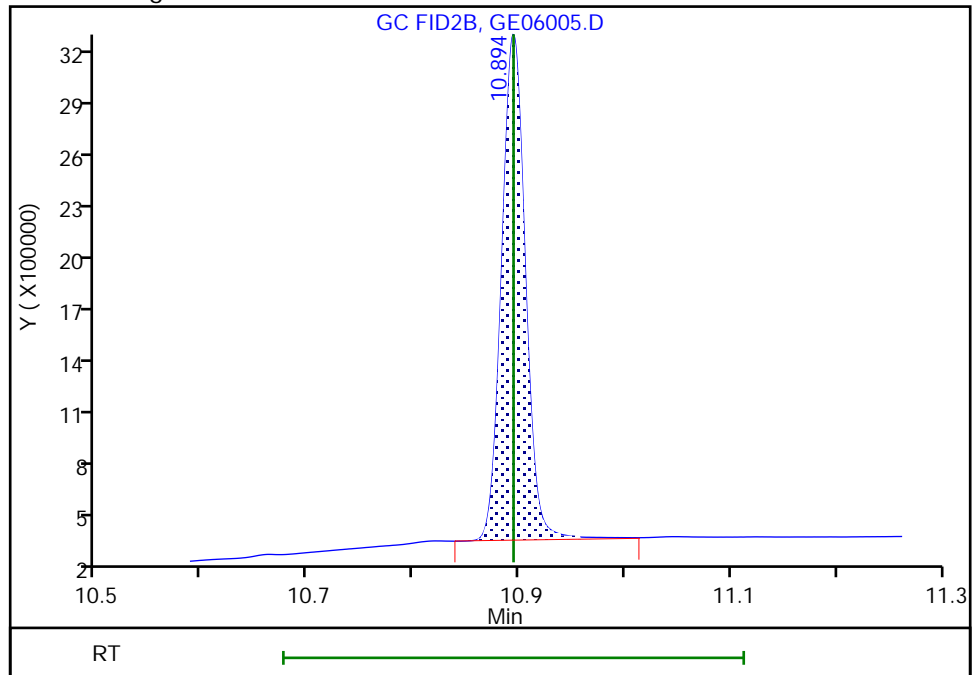
RT: 10.89
Area: 4714449
Amount: 180.2097
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 4515528
Amount: 180.5392
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:59:07
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06006.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 06-May-2023 23:27:13 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-006
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:43 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:58:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.221	2.227	-0.006	2923242	50.0	47.6	
2 4-Hydroxy-4-methyl-2-pentanone						
2.571	2.579	-0.008	2664192	50.0	43.9	
3 2-Butoxyethanol						
2.763	2.765	-0.002	3096663	50.0	42.9	
* 4 n-Heptyl Alcohol						
3.081	3.075	0.006	4630348	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.813	3.821	-0.008	256578	50.0	48.9	
6 Propylene glycol						
4.743	4.746	-0.003	1029045	50.0	52.7	
7 Ethylene glycol						
4.975	4.981	-0.006	2011041	50.0	47.9	
8 2-(2-Butoxyethoxy)ethanol						
6.654	6.653	0.001	2619501	50.0	46.9	
9 2,2'-Oxybisethanol						
8.795	8.794	0.001	1404834	50.0	52.0	
10 Triethylene Glycol						
10.057	10.057	0.000	1387407	50.0	53.0	
11 Tetraethylene Glycol						
10.895	10.894	0.001	2994722	100.0	108.6	M M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 25.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06006.D

Injection Date: 06-May-2023 23:27:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

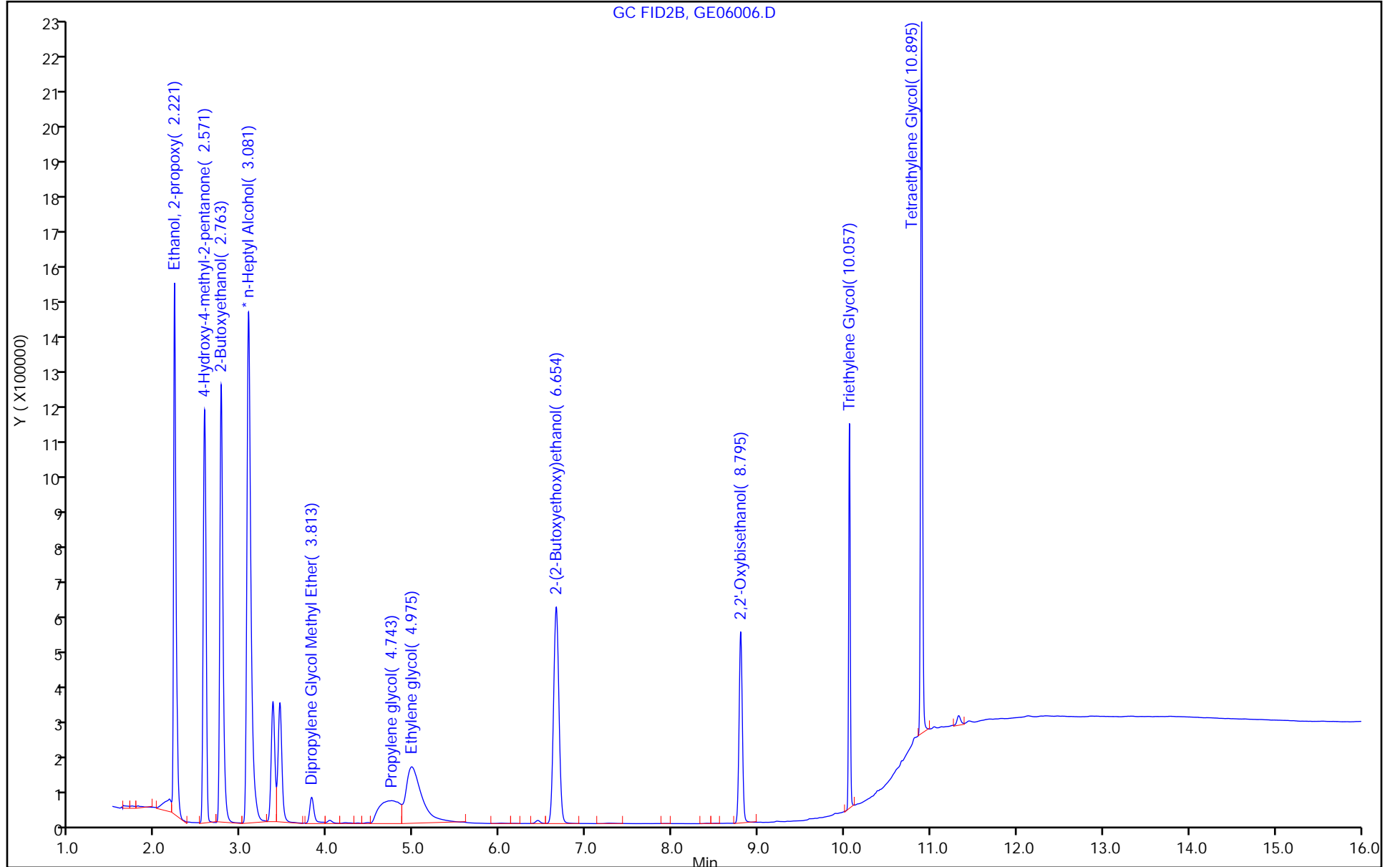
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

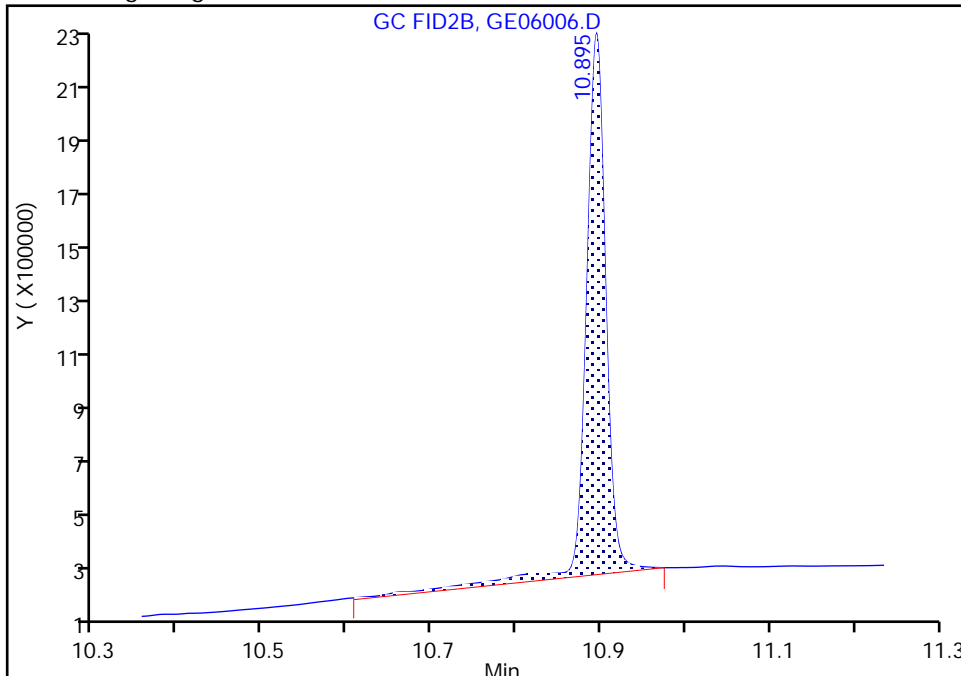
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06006.D
Injection Date: 06-May-2023 23:27:13 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

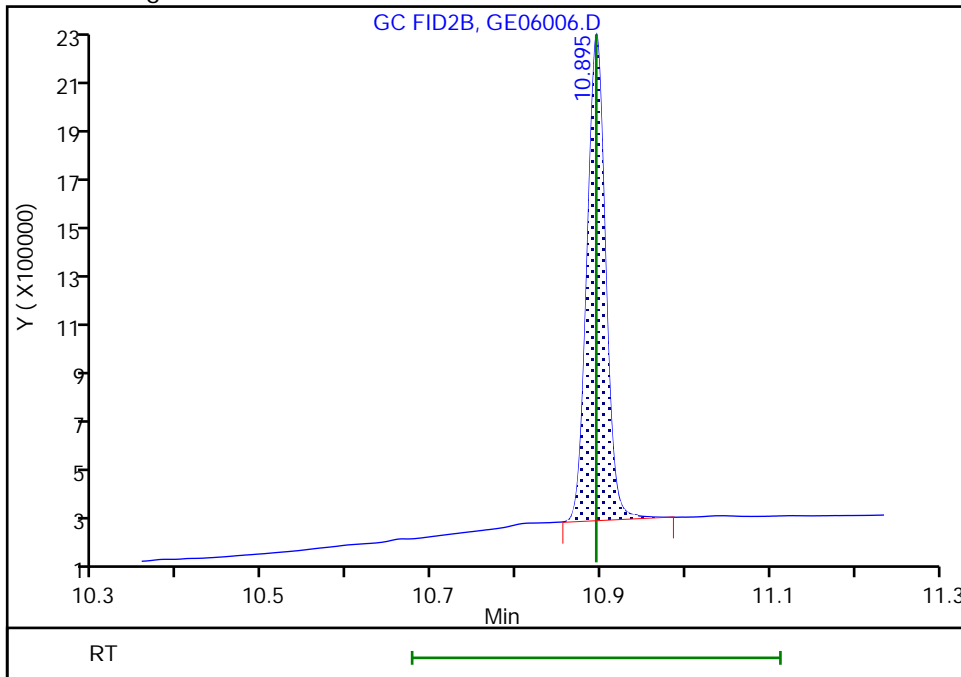
RT: 10.89
Area: 3211129
Amount: 110.1733
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 2994722
Amount: 108.6231
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:58:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06007.D
 Lims ID: icis g4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 06-May-2023 23:50:30 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:43 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:58:42

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.227	2.227	0.000	1446763	20.0	18.9	M
2	4-Hydroxy-4-methyl-2-pentanone					
2.579	2.579	0.000	1267918	20.0	17.5	
3	2-Butoxyethanol					
2.765	2.765	0.000	1486246	20.0	17.2	
* 4	n-Heptyl Alcohol					
3.075	3.075	0.000	5533942	50.0	50.0	
5	Dipropylene Glycol Methyl Ether					
3.821	3.821	0.000	110229	20.0	17.6	
6	Propylene glycol					
4.746	4.746	0.000	427465	20.0	18.3	
7	Ethylene glycol					
4.981	4.981	0.000	928683	20.0	18.5	
8	2-(2-Butoxyethoxy)ethanol					
6.653	6.653	0.000	1179800	20.0	17.7	
9	2,2'-Oxybisethanol					
8.794	8.794	0.000	581197	20.0	18.0	
10	Triethylene Glycol					
10.057	10.057	0.000	578622	20.0	18.5	
11	Tetraethylene Glycol					M
10.894	10.894	0.000	1231912	40.0	37.4	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06007.D

Injection Date: 06-May-2023 23:50:30

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

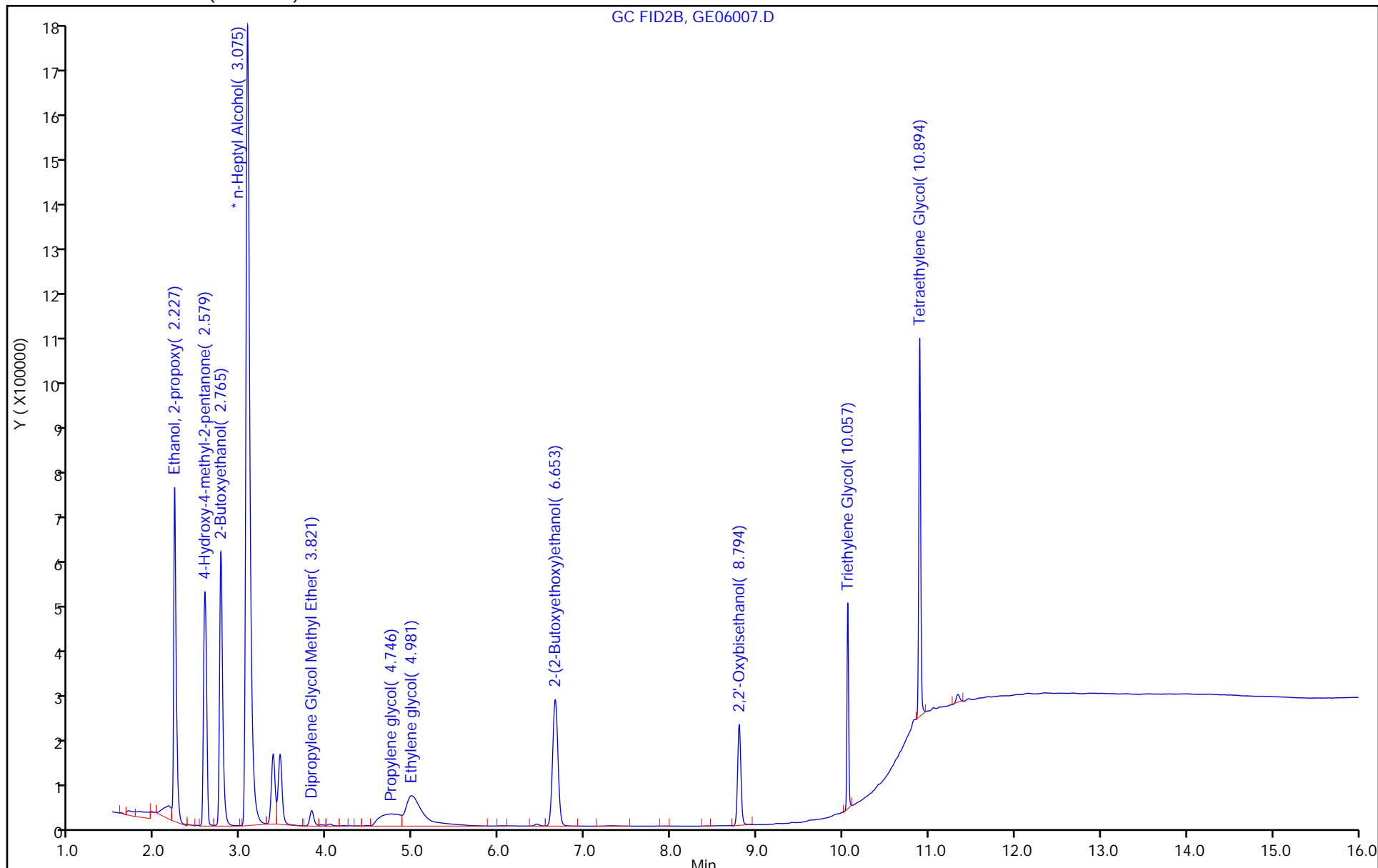
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

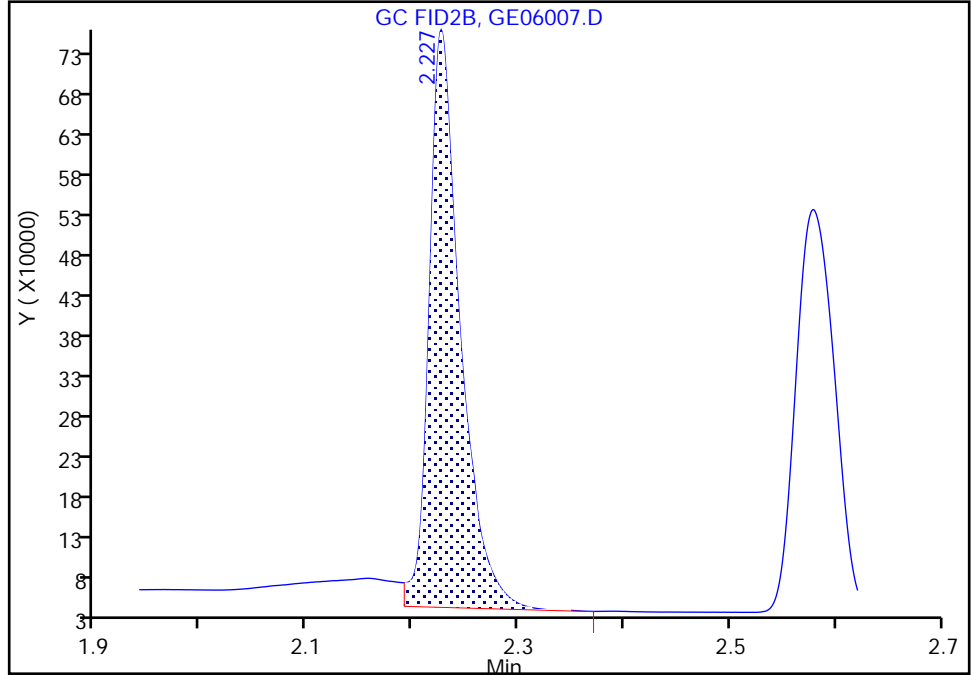
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06007.D
Injection Date: 06-May-2023 23:50:30 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

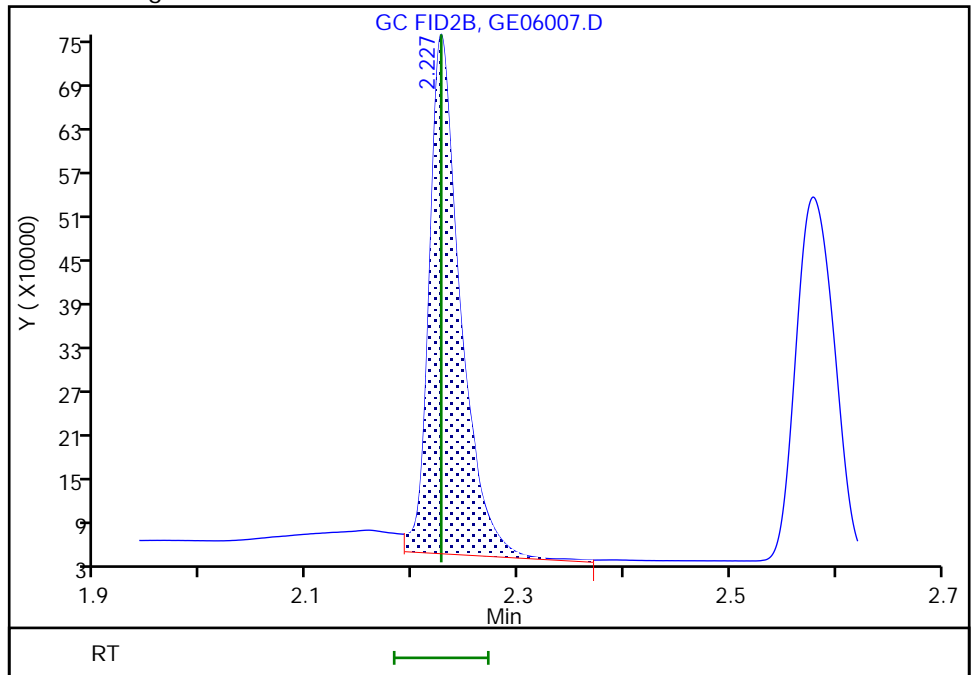
RT: 2.23
Area: 1470596
Amount: 18.340636
Amount Units: ug/ml

Processing Integration Results



RT: 2.23
Area: 1446763
Amount: 18.862259
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:02:37
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

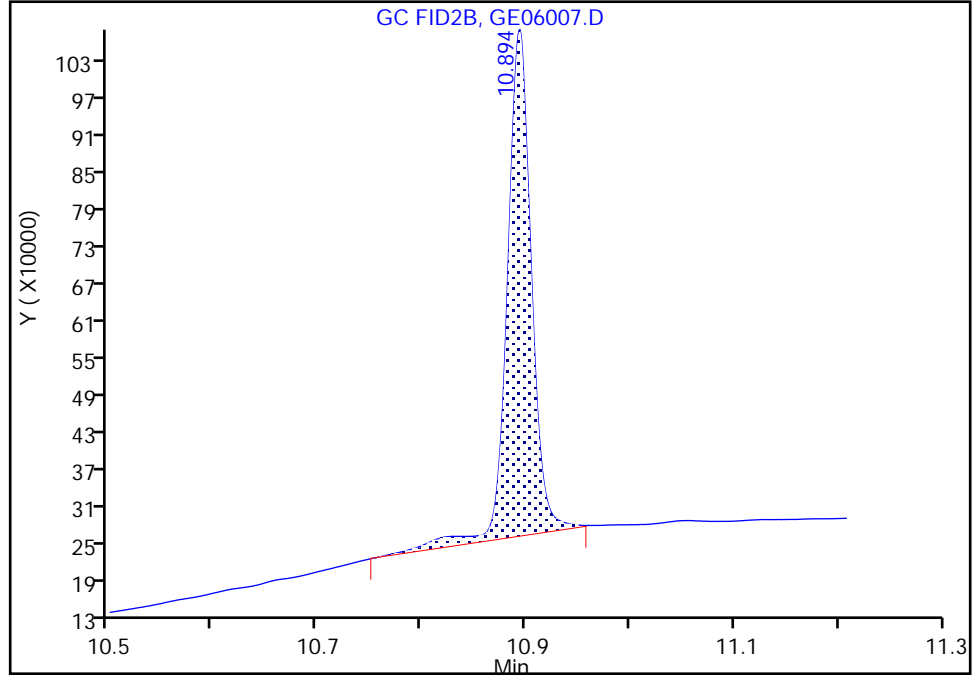
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06007.D
Injection Date: 06-May-2023 23:50:30 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

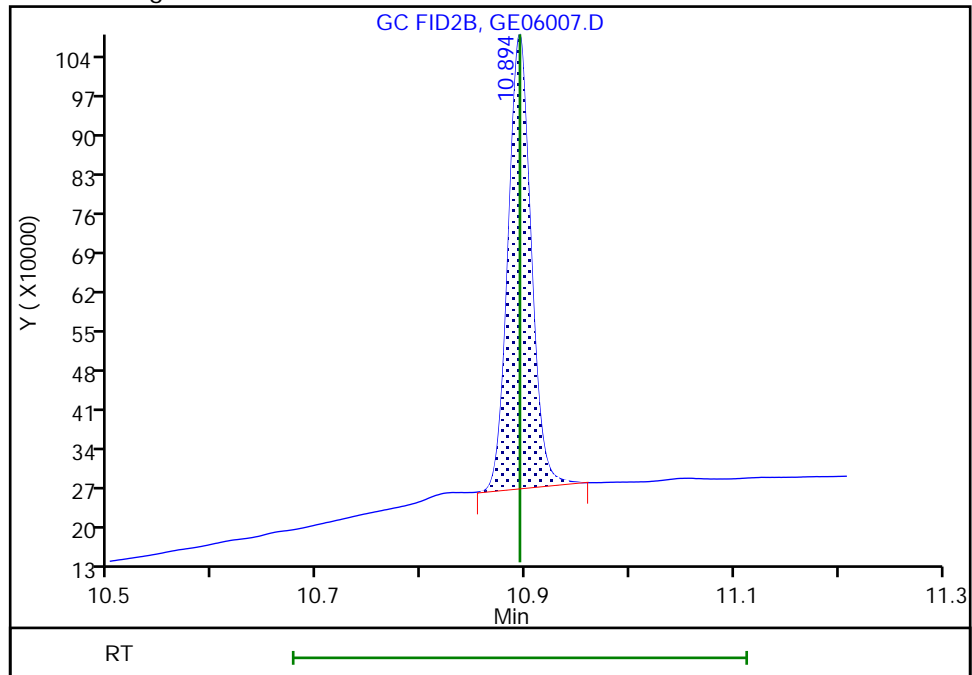
RT: 10.89
Area: 1312811
Amount: 37.377704
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 1231912
Amount: 37.387330
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:58:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06008.D
 Lims ID: ic g3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 07-May-2023 00:13:42 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:44 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U

Date: 07-May-2023 13:58:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.224	2.227	-0.003	804256	10.0	11.0	M
2	4-Hydroxy-4-methyl-2-pentanone					
2.577	2.579	-0.002	667845	10.0	10.2	
3	2-Butoxyethanol					
2.763	2.765	-0.002	824628	10.0	10.6	
* 4	n-Heptyl Alcohol					
3.075	3.075	0.000	5006187	50.0	50.0	
5	Dipropylene Glycol Methyl Ether					
3.820	3.821	-0.001	56542	10.0	9.97	
6	Propylene glycol					
4.747	4.746	0.001	203639	10.0	9.65	
7	Ethylene glycol					
4.989	4.981	0.008	499363	10.0	11.0	
8	2-(2-Butoxyethoxy)ethanol					
6.655	6.653	0.002	607488	10.0	10.1	
9	2,2'-Oxybisethanol					
8.794	8.794	0.000	290625	10.0	9.96	
10	Triethylene Glycol					
10.057	10.057	0.000	292885	10.0	10.4	
11	Tetraethylene Glycol					M
10.895	10.894	0.001	601002	20.0	20.2	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 5.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06008.D

Injection Date: 07-May-2023 00:13:42

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

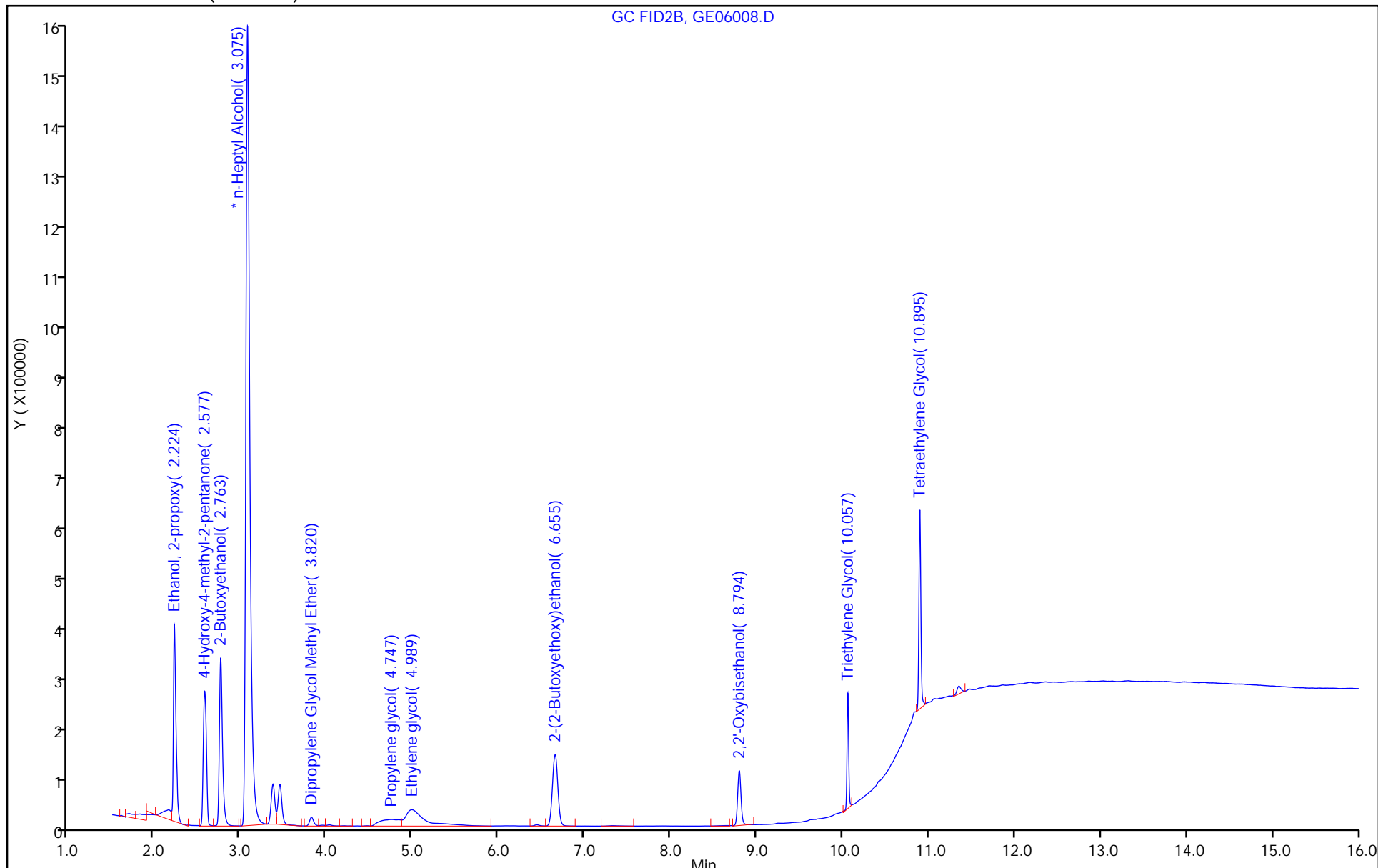
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

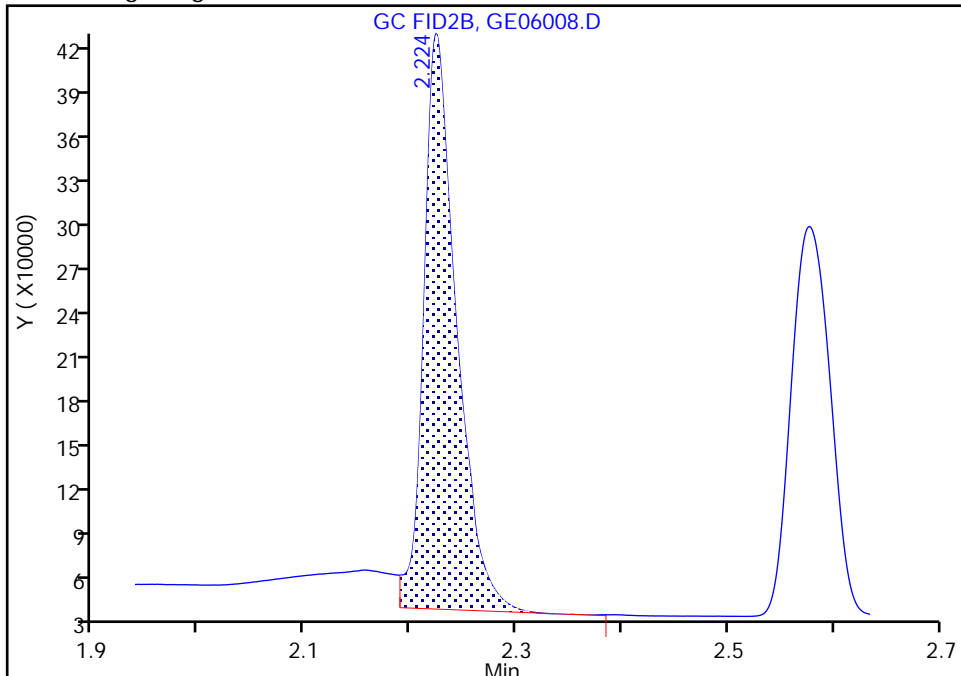
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06008.D
Injection Date: 07-May-2023 00:13:42 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

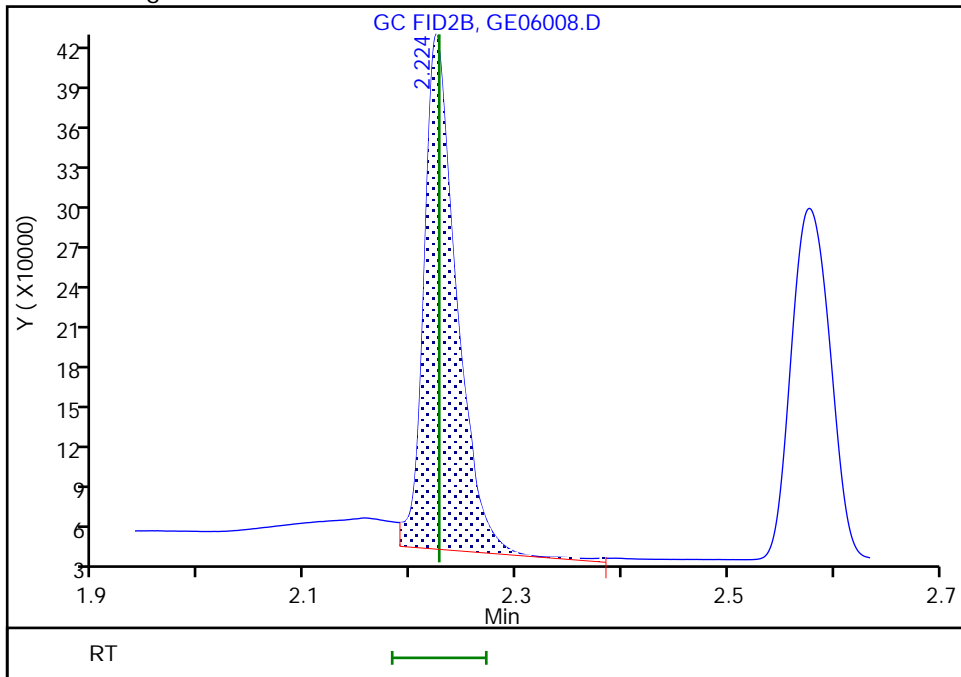
RT: 2.22
Area: 824029
Amount: 15.185971
Amount Units: ug/ml

Processing Integration Results



RT: 2.22
Area: 804256
Amount: 11.021411
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

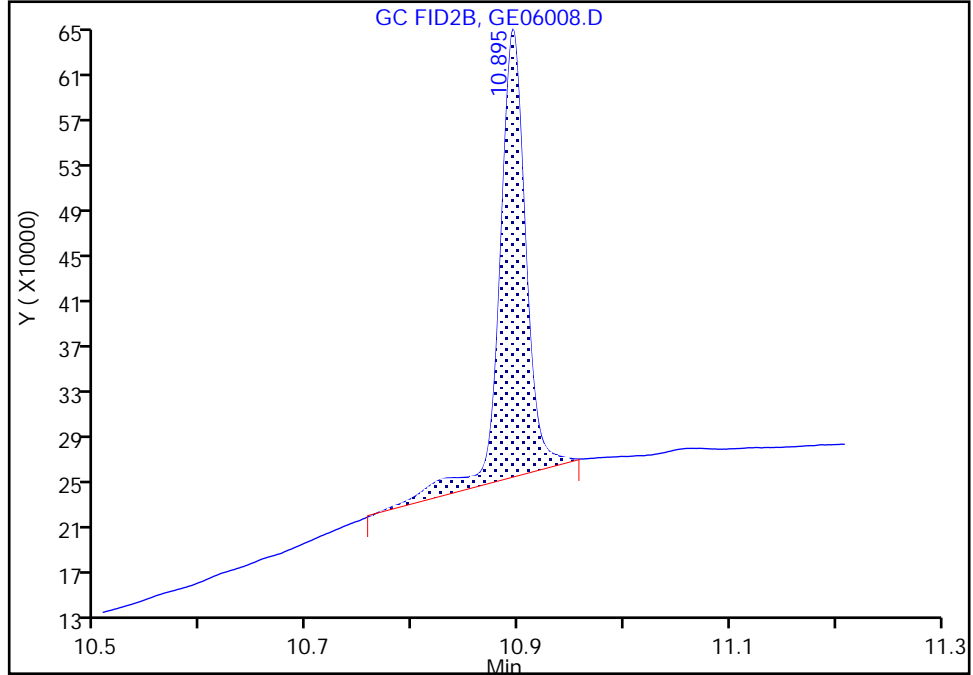
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06008.D
Injection Date: 07-May-2023 00:13:42 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

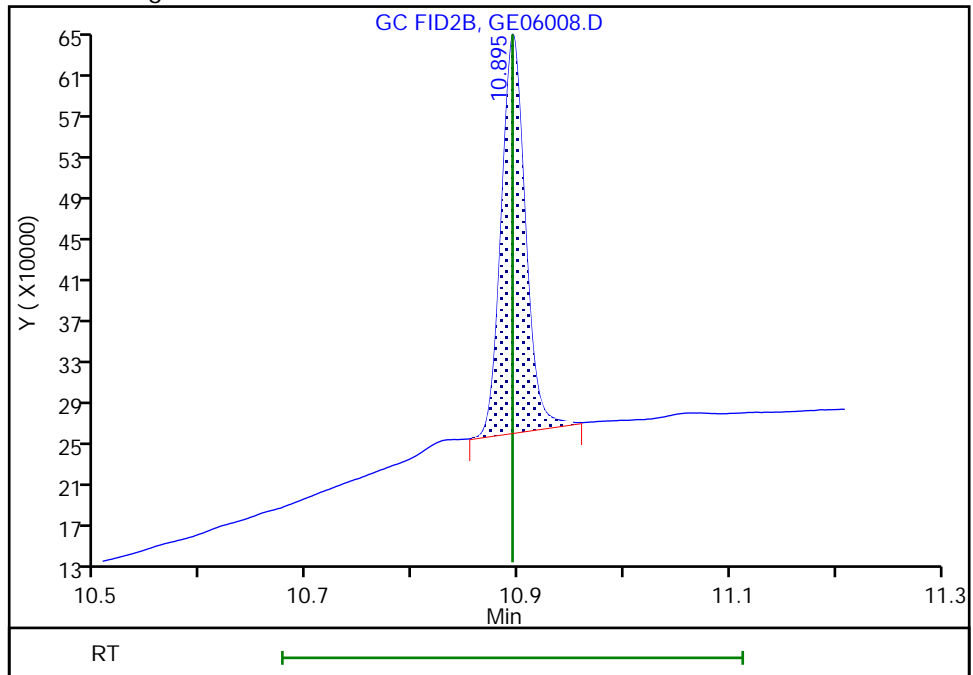
RT: 10.89
Area: 678441
Amount: 20.987201
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 601002
Amount: 20.162678
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:58:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 07-May-2023 00:36:54 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:45 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:57:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.223	2.227	-0.004	427141	5.00	5.12	
2 4-Hydroxy-4-methyl-2-pentanone						
2.574	2.579	-0.005	334892	5.00	5.08	
3 2-Butoxyethanol						
2.761	2.765	-0.004	408858	5.00	5.21	M
* 4 n-Heptyl Alcohol						
3.073	3.075	-0.002	5034526	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.818	3.821	-0.003	30429	5.00	5.34	M
6 Propylene glycol						
4.837	4.746	0.091	114798	5.00	5.41	M
7 Ethylene glycol						
4.987	4.981	0.006	225403	5.00	4.94	M
8 2-(2-Butoxyethoxy)ethanol						
6.651	6.653	-0.002	320859	5.00	5.29	
9 2,2'-Oxybisethanol						
8.794	8.794	0.000	162417	5.00	5.53	
10 Triethylene Glycol						
10.057	10.057	0.000	162797	5.00	5.72	M
11 Tetraethylene Glycol						
10.894	10.894	0.000	337699	10.0	11.3	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 2.50

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D

Injection Date: 07-May-2023 00:36:54

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

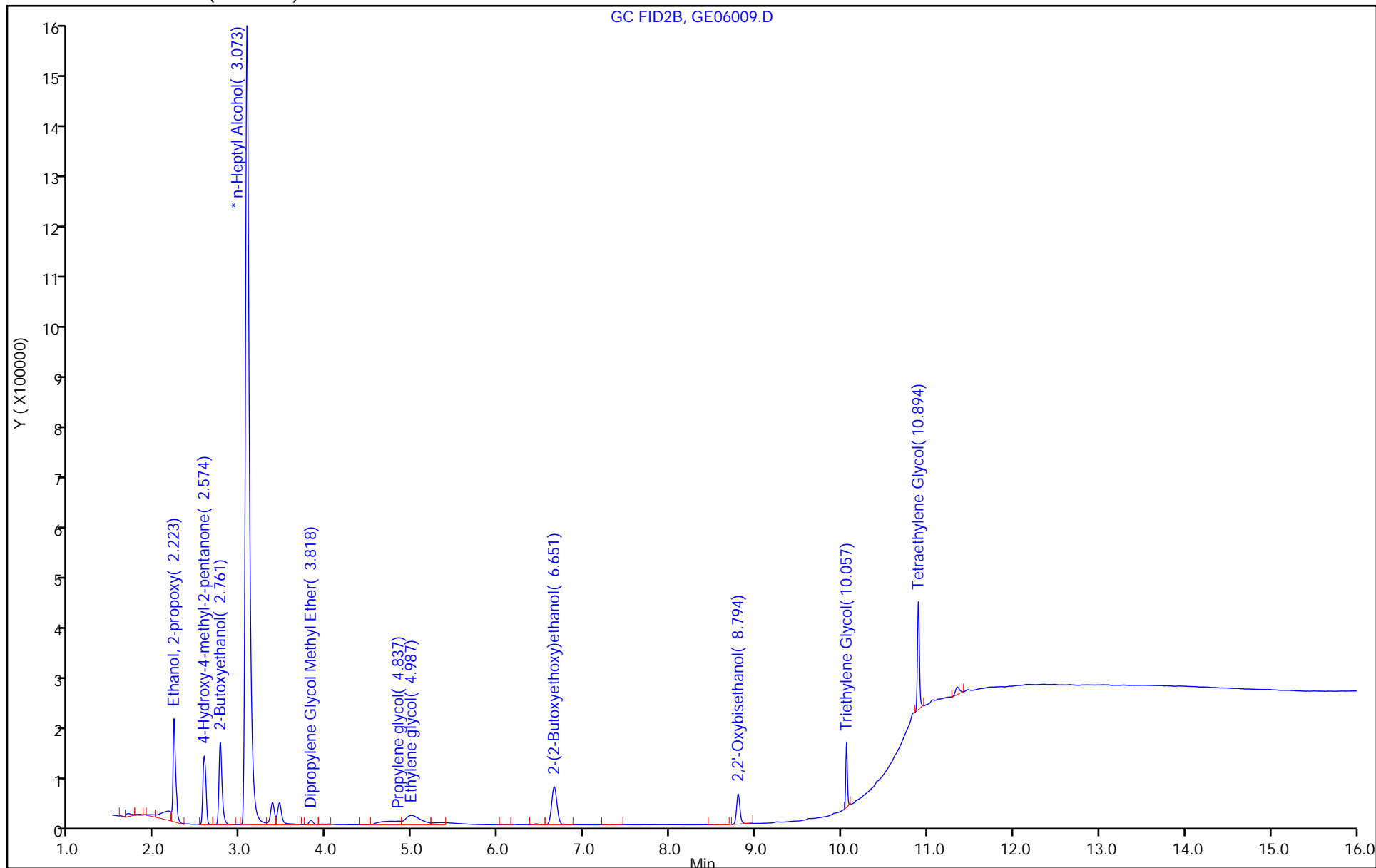
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

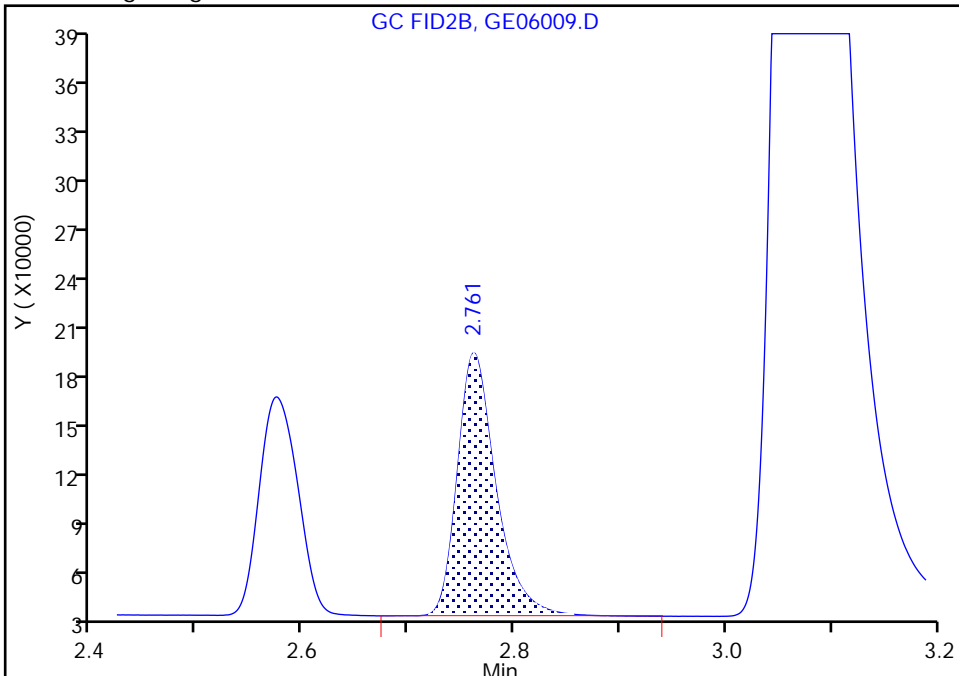
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

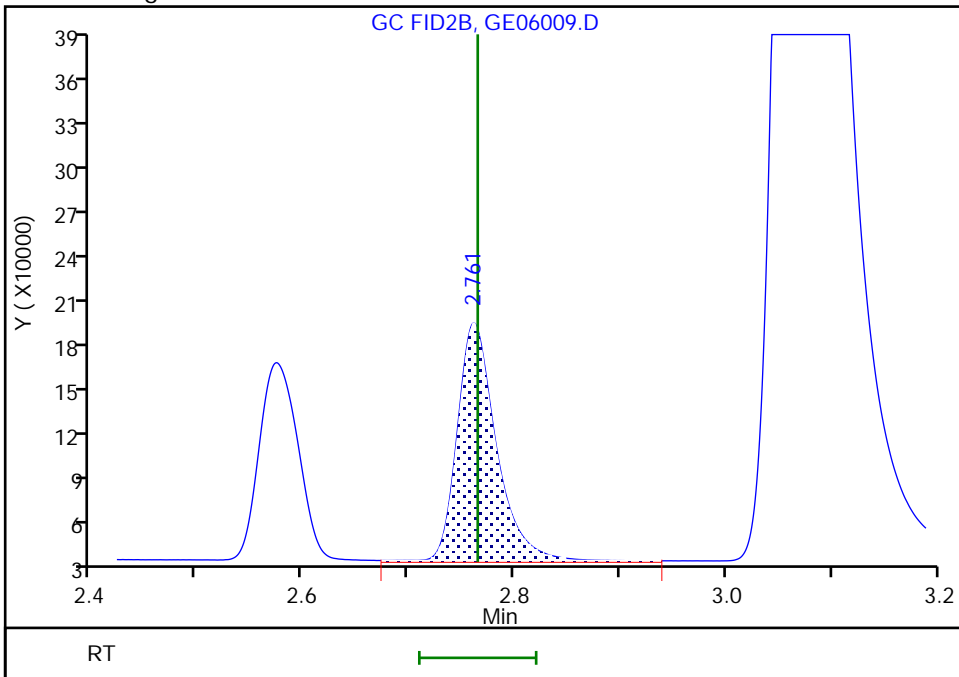
RT: 2.76
Area: 402980
Amount: 5.266253
Amount Units: ug/ml

Processing Integration Results



RT: 2.76
Area: 408858
Amount: 5.205114
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:56
Audit Action: Assigned New Baseline

Audit Reason: Shouldering

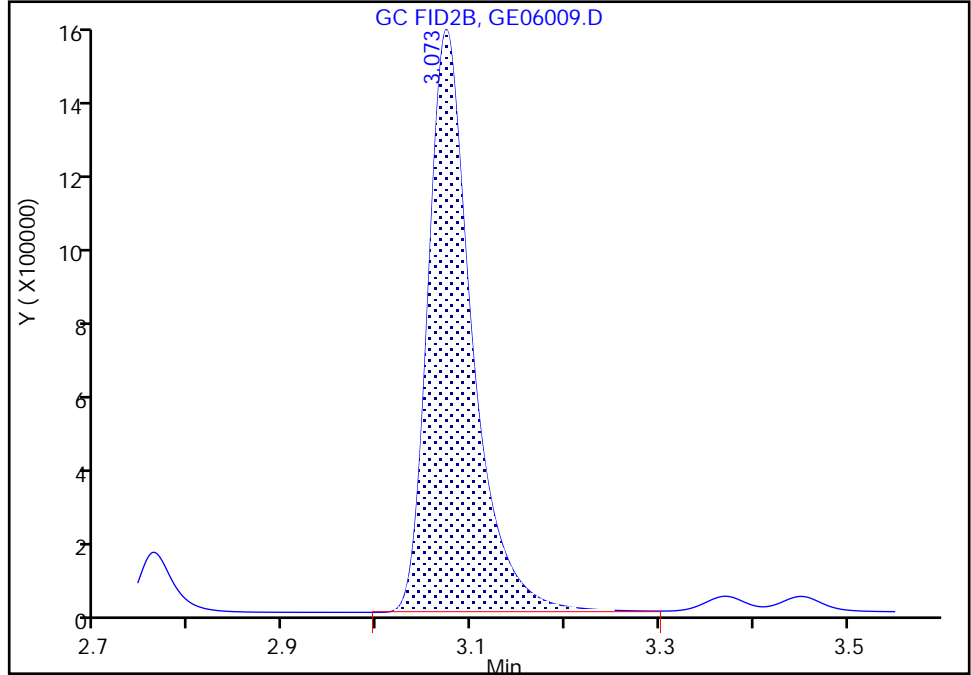
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 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

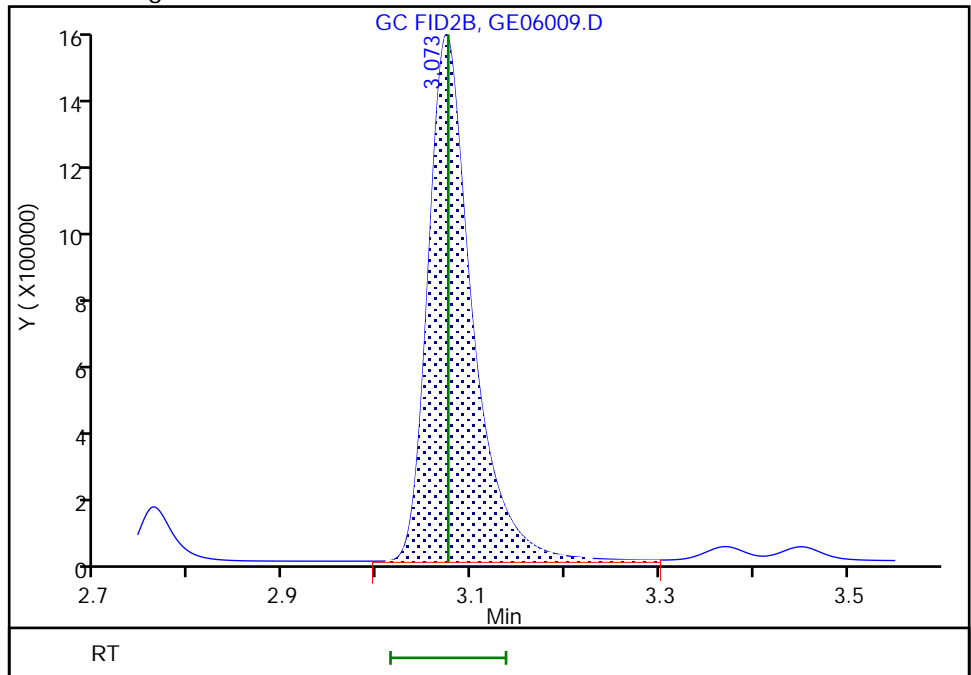
RT: 3.07
Area: 4999833
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 3.07
Area: 5034526
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:56
Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

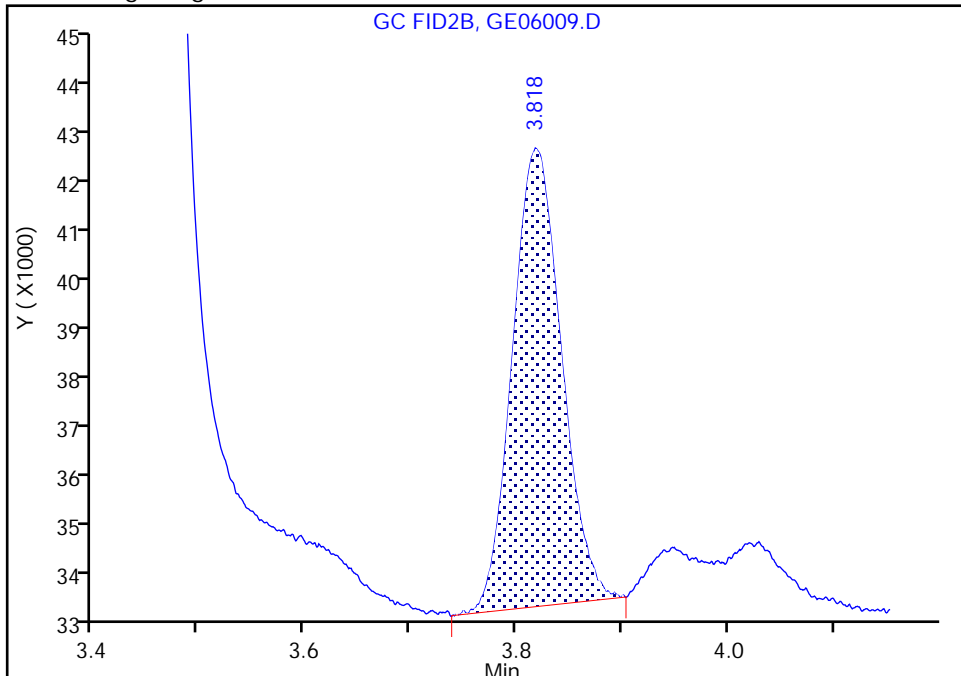
ALS Bottle#: 0 Worklist Smp#: 9
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

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

Signal: 1

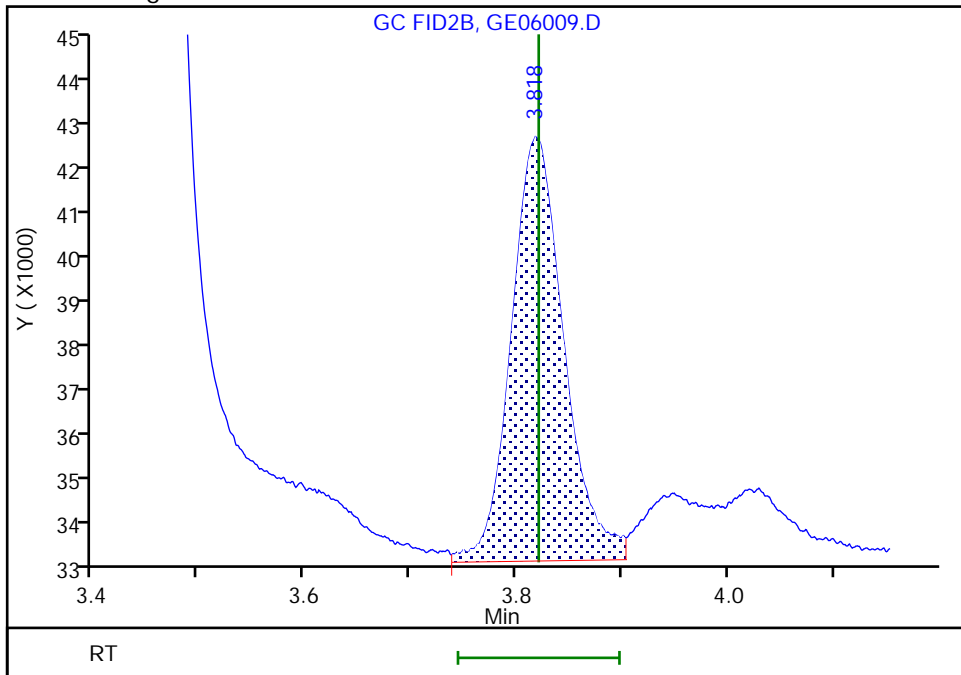
RT: 3.82
Area: 27425
Amount: 4.898881
Amount Units: ug/ml

Processing Integration Results



RT: 3.82
Area: 30429
Amount: 5.336485
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:56
Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Savannah

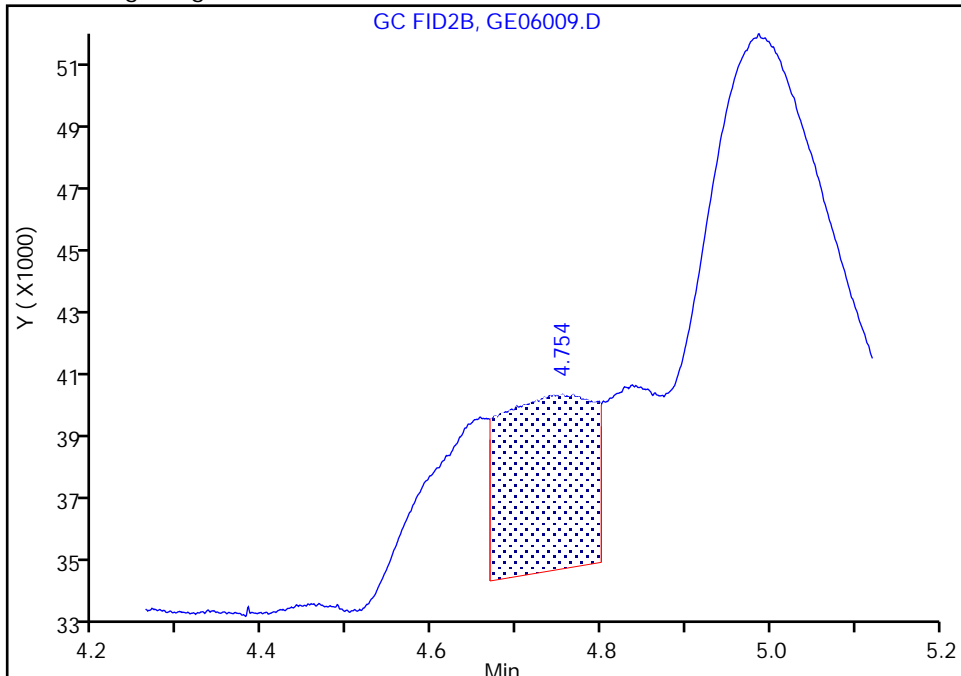
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

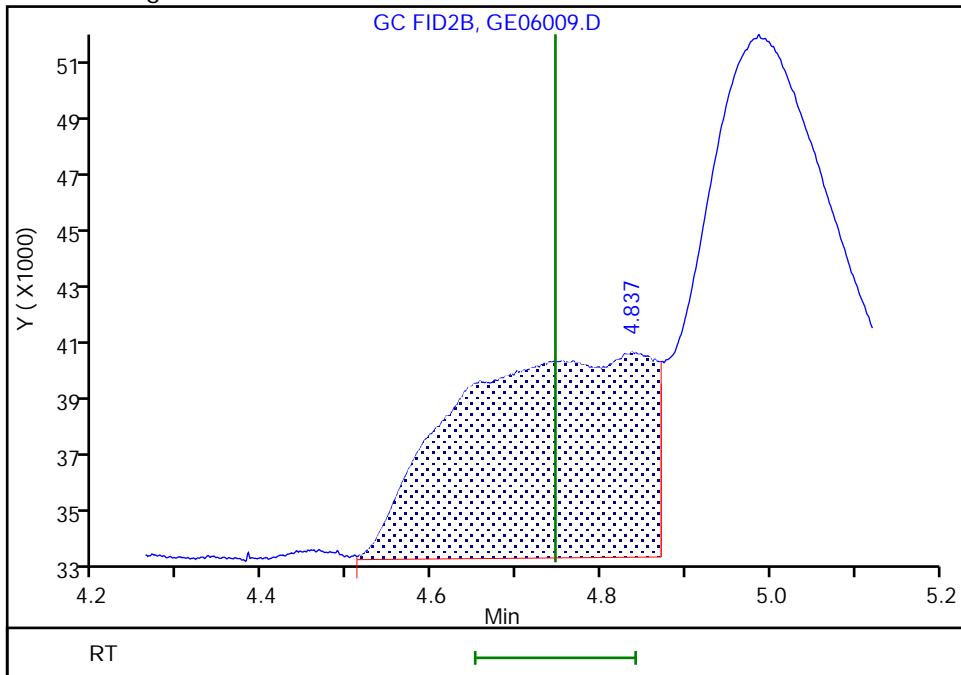
RT: 4.75
Area: 41857
Amount: 2.370249
Amount Units: ug/ml

Processing Integration Results



RT: 4.84
Area: 114798
Amount: 5.408078
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:57:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah

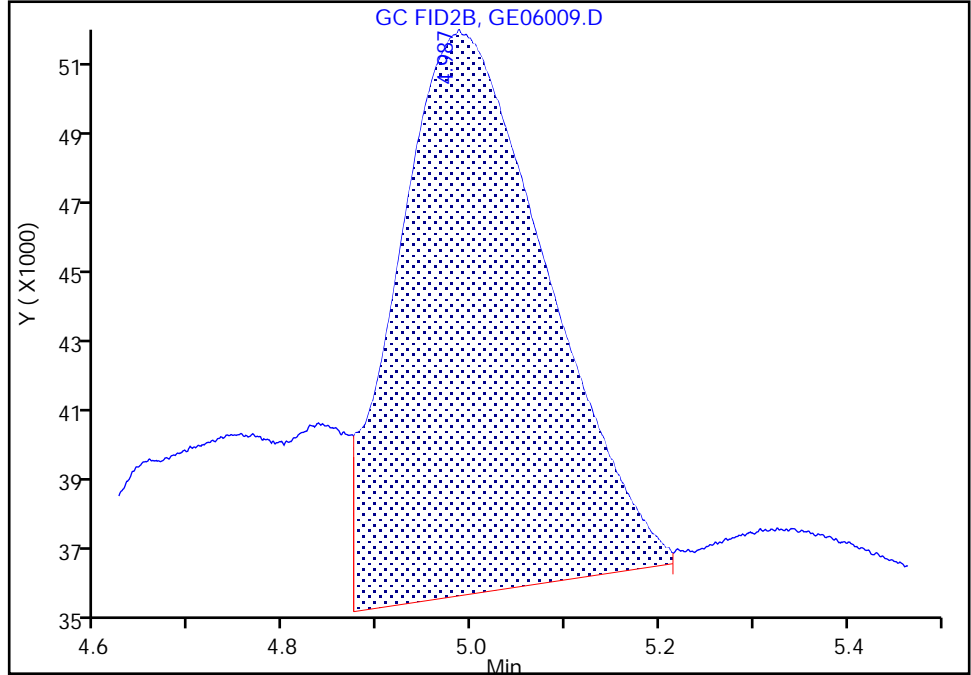
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

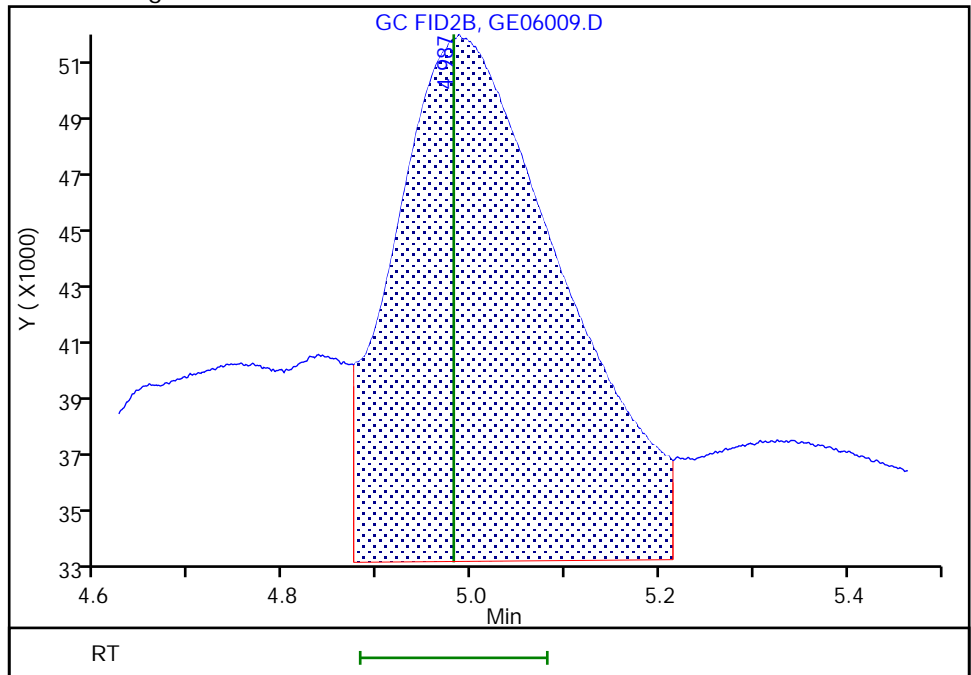
RT: 4.99
Area: 174770
Amount: 5.514737
Amount Units: ug/ml

Processing Integration Results



RT: 4.99
Area: 225403
Amount: 4.935782
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:56
Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Savannah

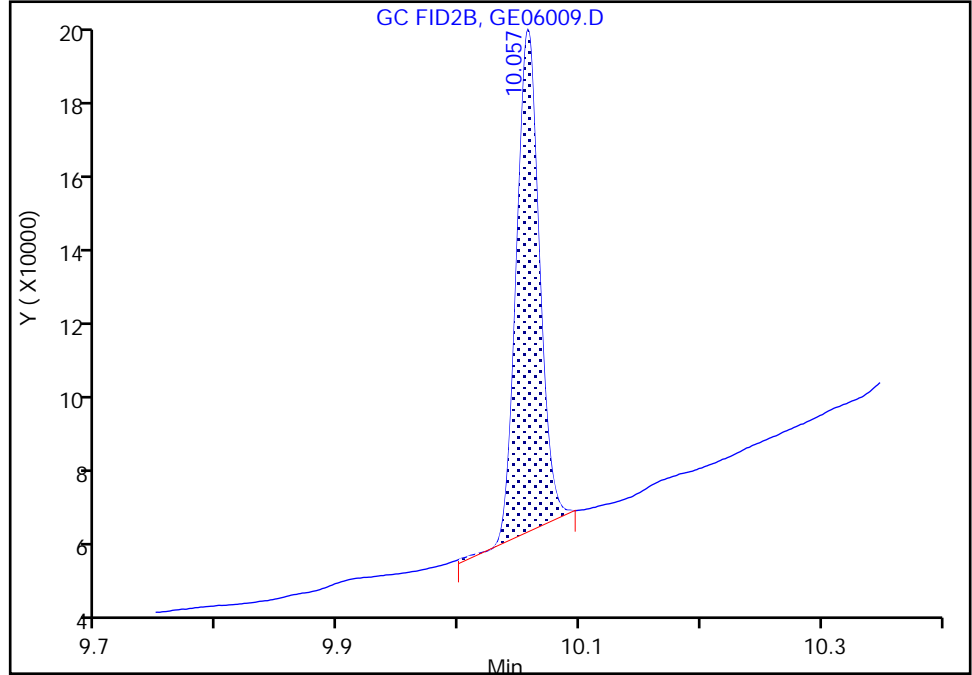
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

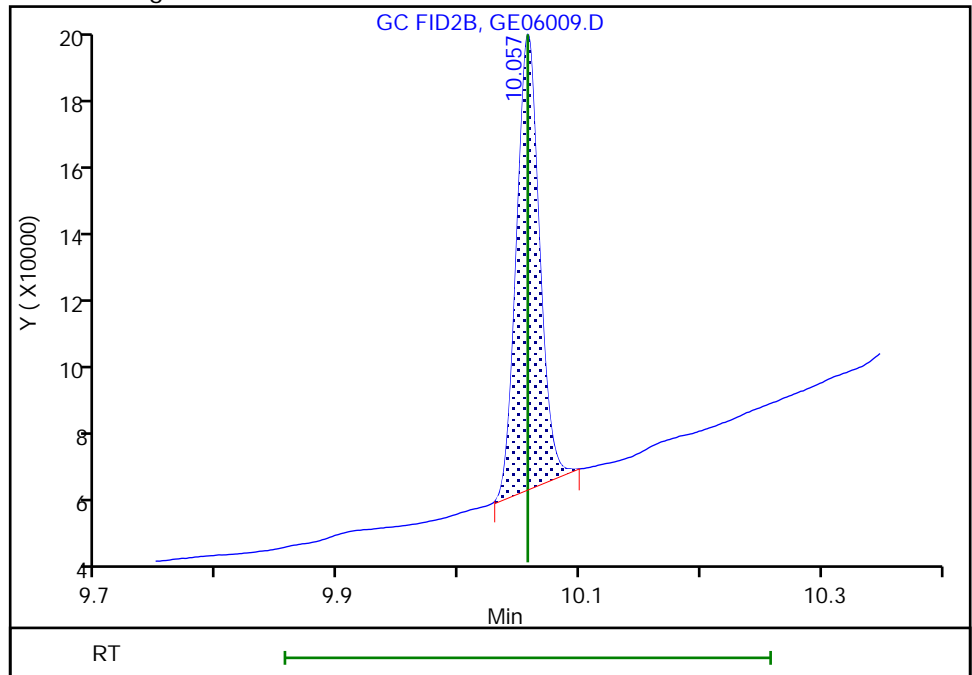
RT: 10.06
Area: 163270
Amount: 6.725782
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 162797
Amount: 5.721957
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:42
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins Savannah

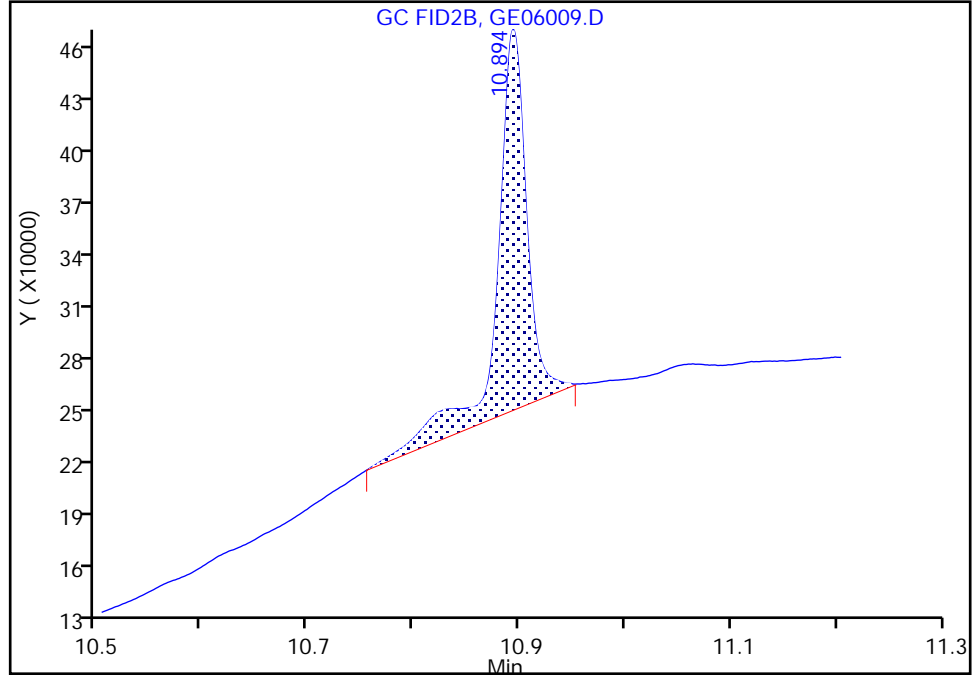
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06009.D
Injection Date: 07-May-2023 00:36:54 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

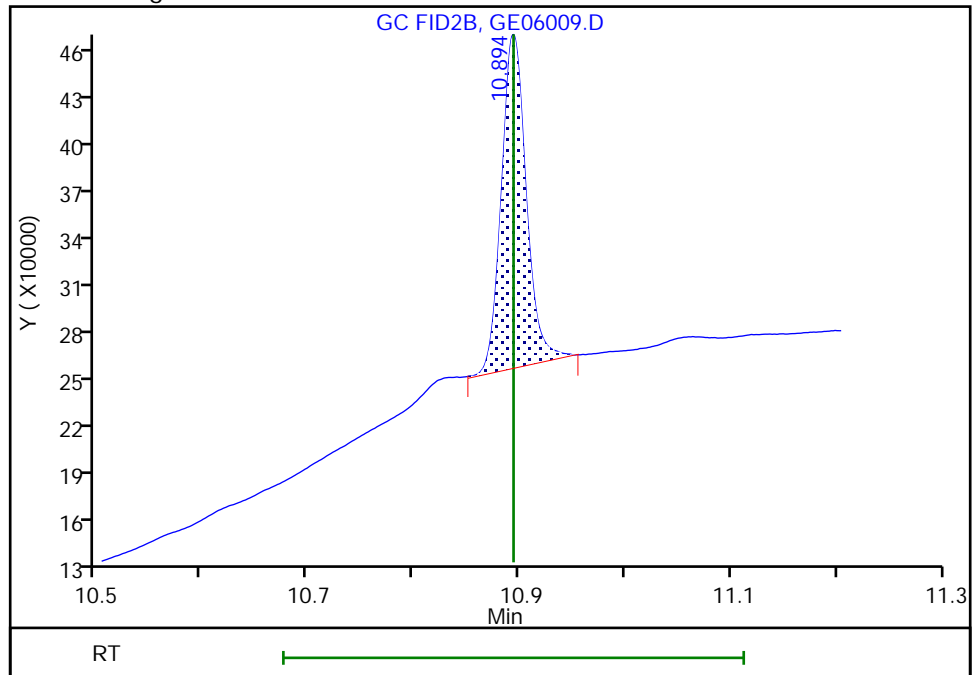
RT: 10.89
Area: 419492
Amount: 12.526972
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 337699
Amount: 11.265502
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:31
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 07-May-2023 01:00:13 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-010
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 13:56:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	Ethanol, 2-propoxy					M
2.224	2.227	-0.003	211787	2.00	1.95	M
2	4-Hydroxy-4-methyl-2-pentanone					
2.578	2.579	-0.001	143356	2.00	2.28	
3	2-Butoxyethanol					
2.762	2.765	-0.003	171114	2.00	2.28	
* 4	n-Heptyl Alcohol					
3.071	3.075	-0.004	4801123	50.0	50.0	
5	Dipropylene Glycol Methyl Ether					
3.822	3.821	0.001	11097	2.00	2.04	
6	Propylene glycol					M
4.851	4.746	0.105	44748	2.00	2.21	M
7	Ethylene glycol					M
4.994	4.981	0.013	89758	2.00	2.06	M
8	2-(2-Butoxyethoxy)ethanol					
6.653	6.653	0.000	127075	2.00	2.20	
9	2,2'-Oxybisethanol					
8.794	8.794	0.000	64001	2.00	2.29	
10	Triethylene Glycol					M
10.056	10.057	-0.001	66312	2.00	2.44	M
11	Tetraethylene Glycol					M
10.894	10.894	0.000	117084	4.00	4.10	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 1.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Euofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D

Injection Date: 07-May-2023 01:00:13

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

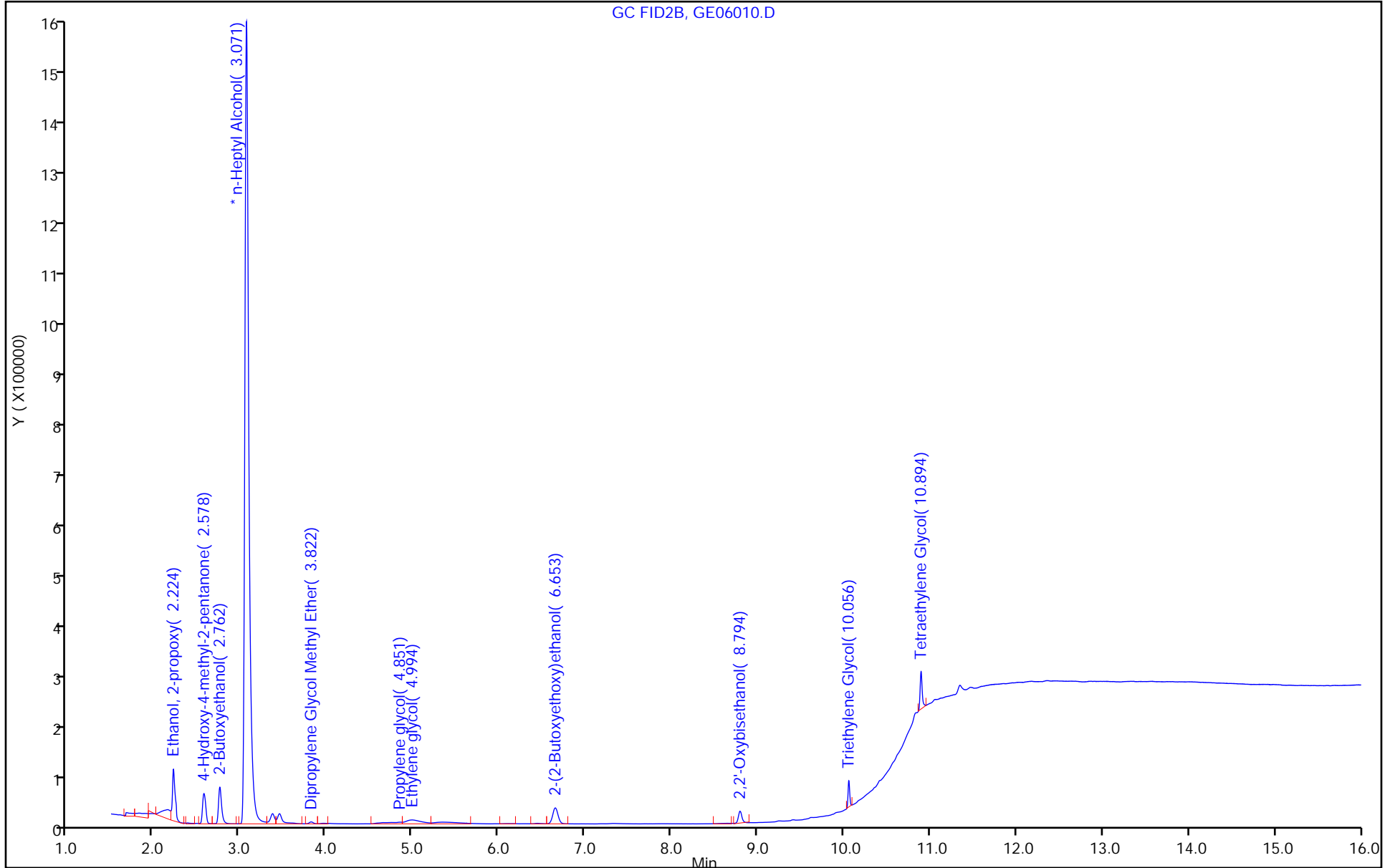
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

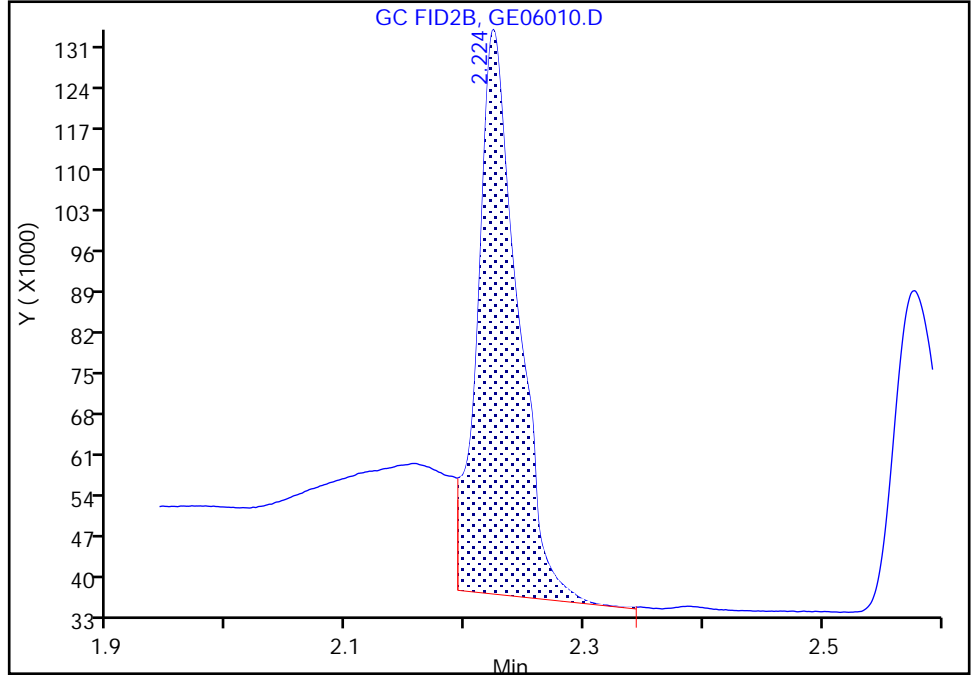
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
Injection Date: 07-May-2023 01:00:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

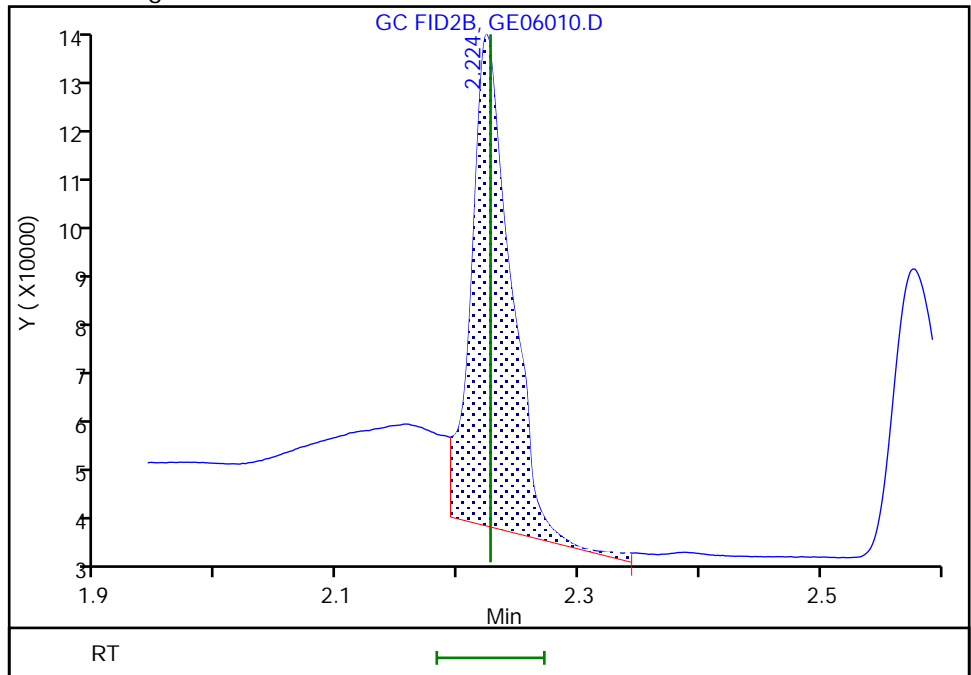
Processing Integration Results

RT: 2.22
Area: 223222
Amount: 4.525062
Amount Units: ug/ml



Manual Integration Results

RT: 2.22
Area: 211787
Amount: 1.954556
Amount Units: ug/ml



Reviewer: SK9U, 07-May-2023 14:01:14
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

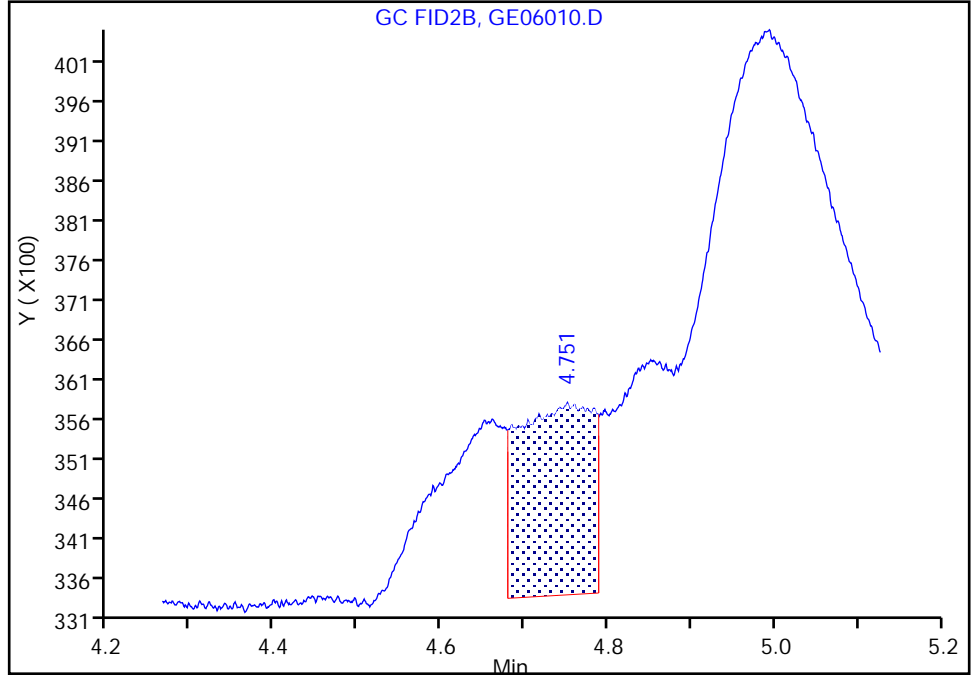
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
Injection Date: 07-May-2023 01:00:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

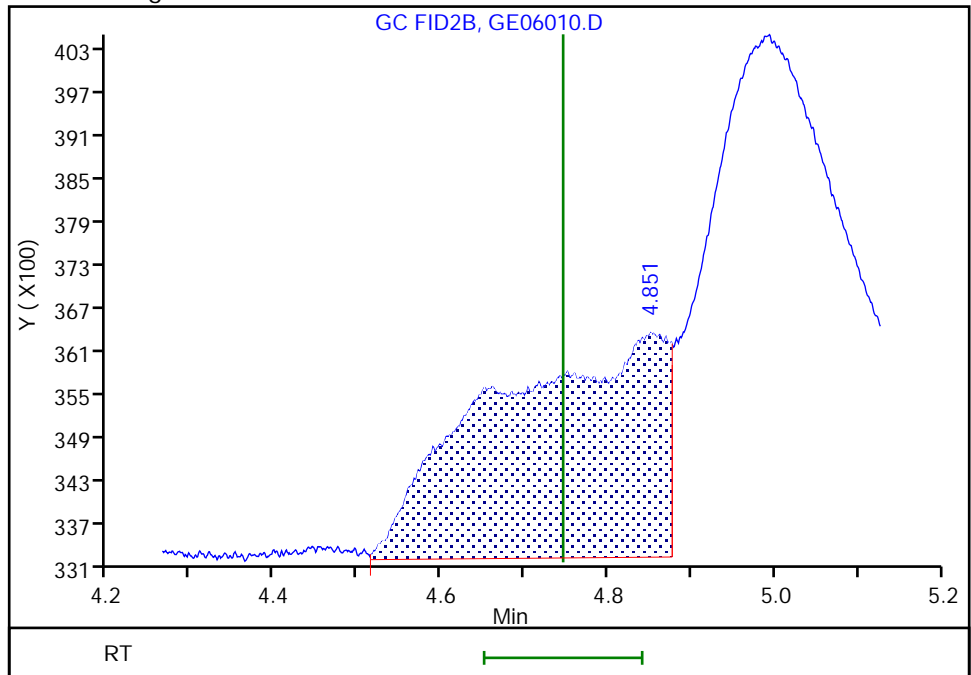
RT: 4.75
Area: 14699
Amount: 0.853455
Amount Units: ug/ml

Processing Integration Results



RT: 4.85
Area: 44748
Amount: 2.210538
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:58:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Savannah

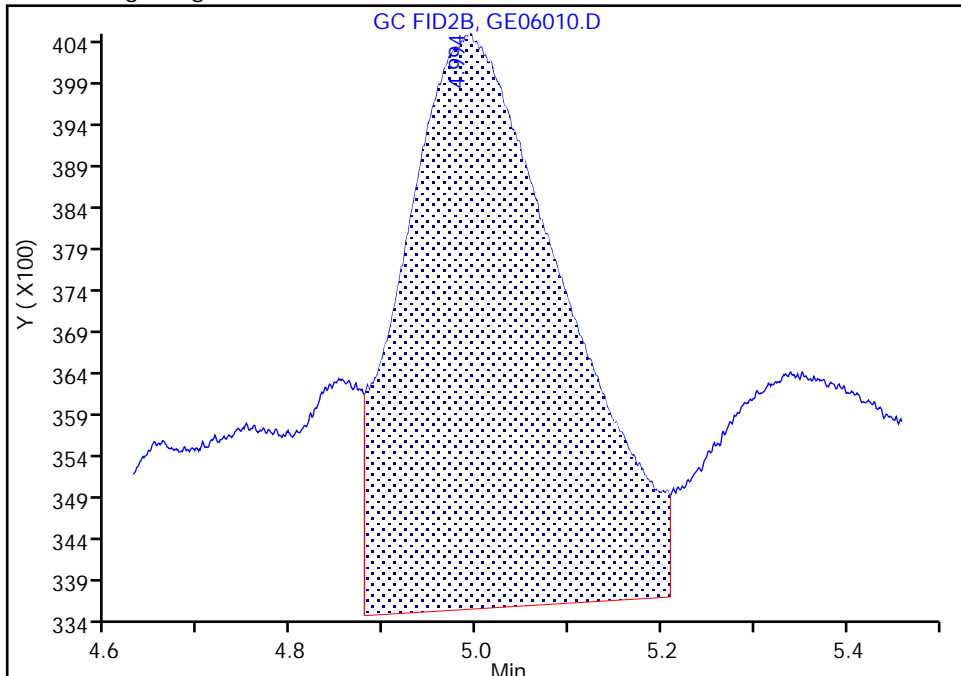
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
Injection Date: 07-May-2023 01:00:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

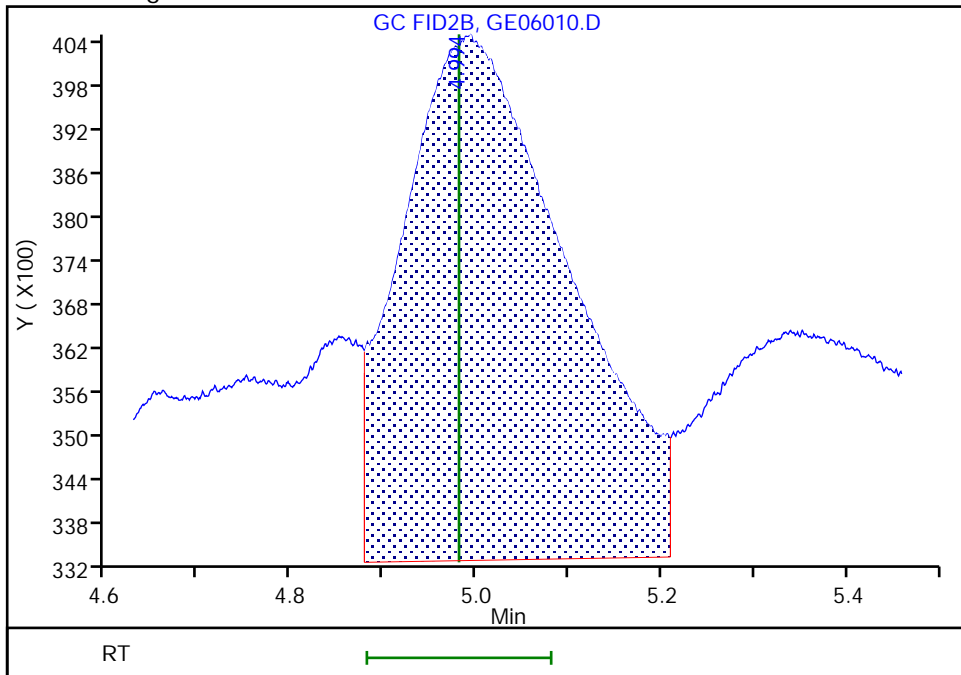
RT: 4.99
Area: 83277
Amount: 3.931027
Amount Units: ug/ml

Processing Integration Results



RT: 4.99
Area: 89758
Amount: 2.061034
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:57:15
Audit Action: Assigned New Baseline

Audit Reason: Shouldering

Eurofins Savannah

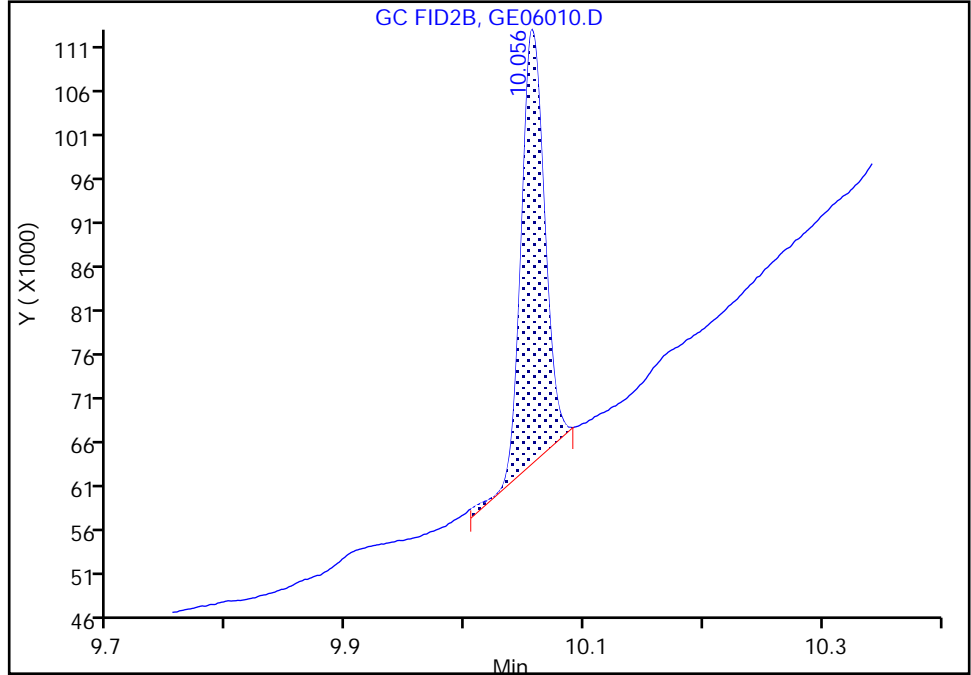
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
Injection Date: 07-May-2023 01:00:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

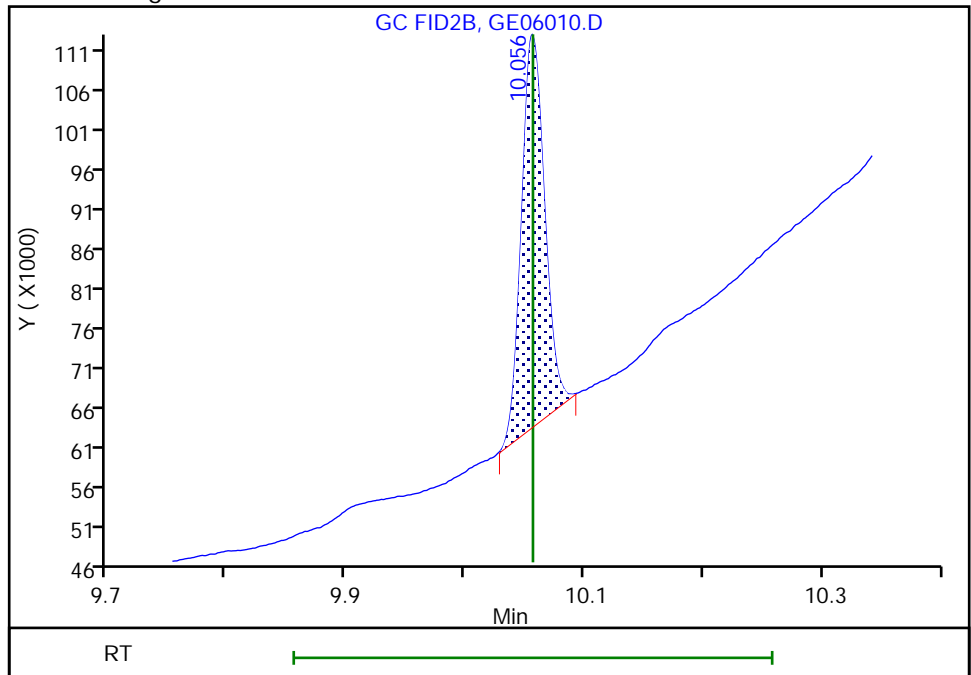
RT: 10.06
Area: 66435
Amount: 4.688135
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 66312
Amount: 2.444028
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:17
Audit Action: Manually Integrated

Audit Reason: Shouldering

Eurofins Savannah

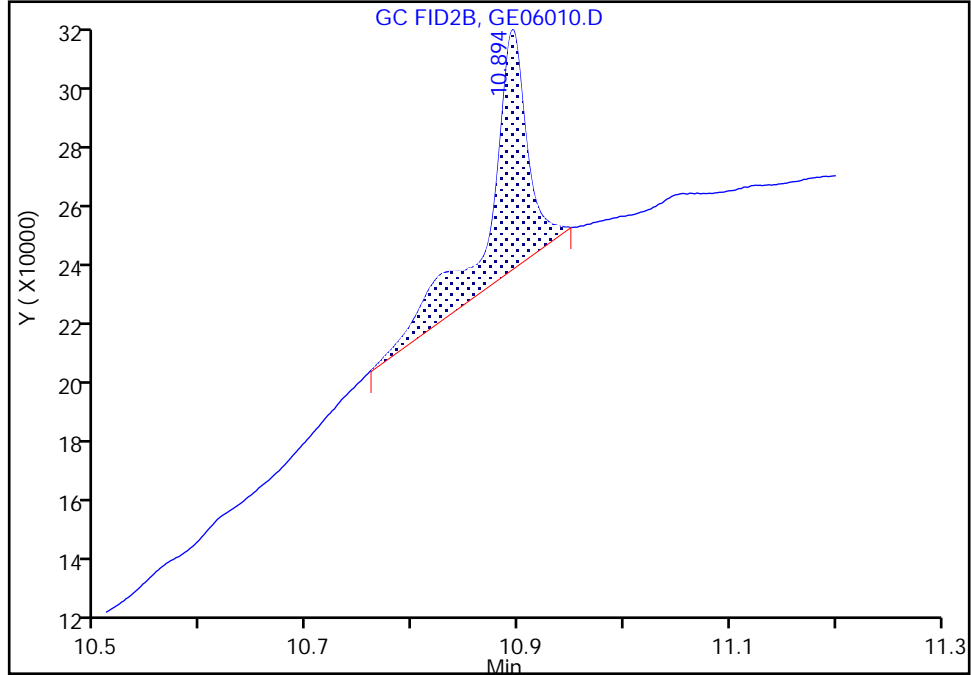
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
Injection Date: 07-May-2023 01:00:13 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

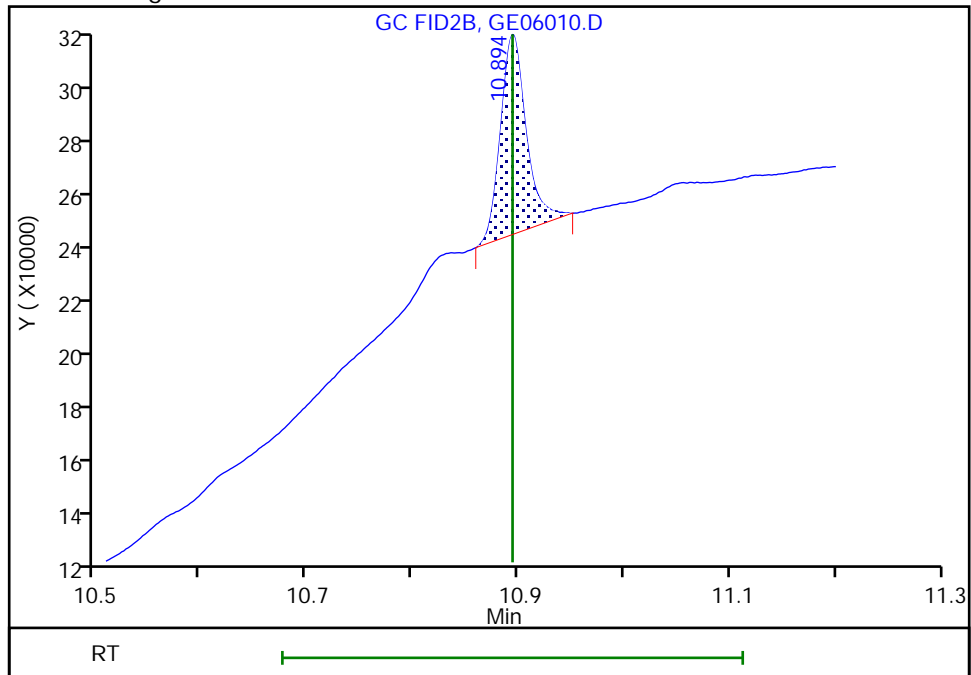
RT: 10.89
Area: 188400
Amount: 5.428892
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 117084
Amount: 4.095756
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 13:56:02
Audit Action: Manually Integrated

Audit Reason: Shouldering

Calibration

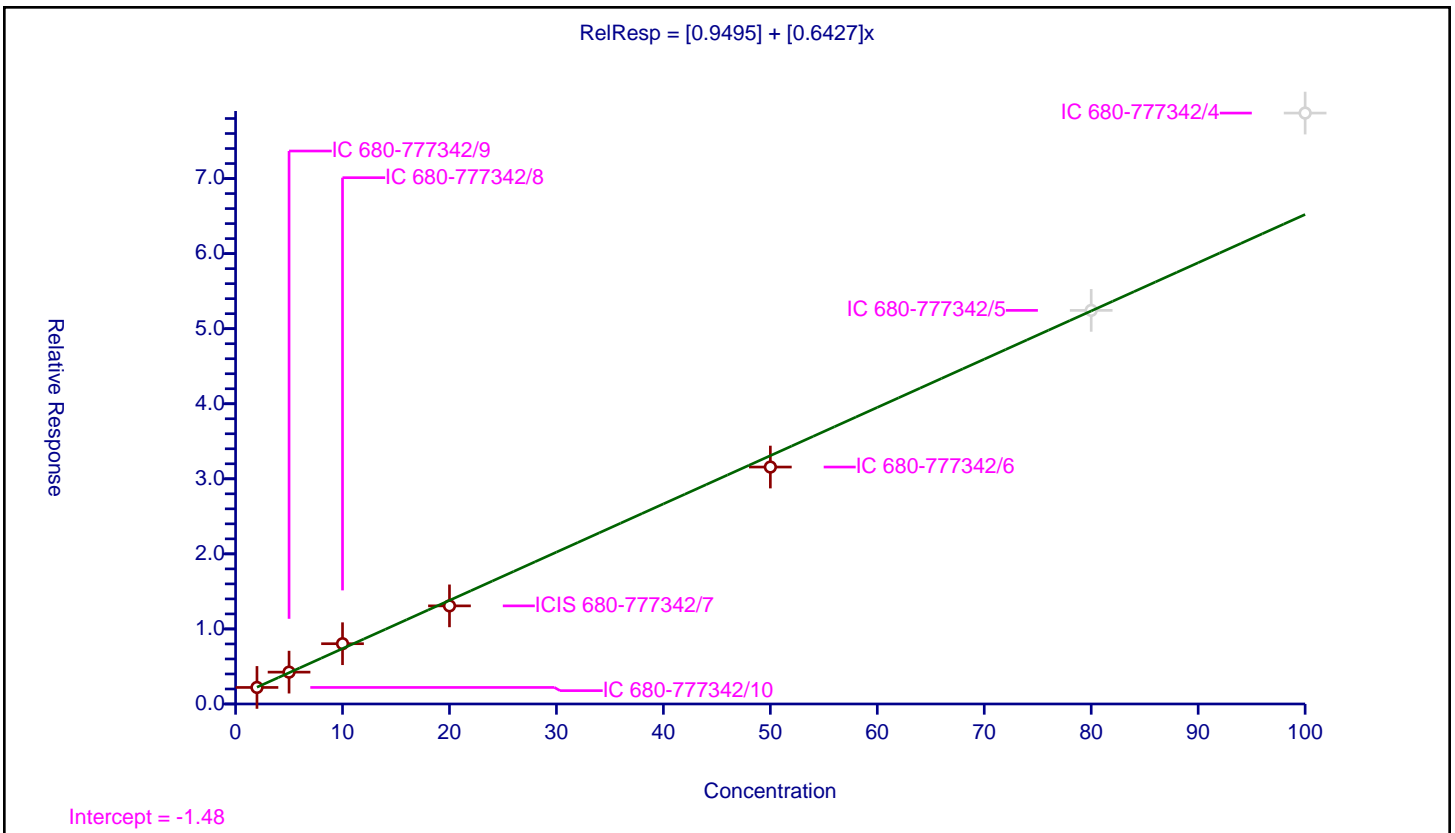
/ Ethanol, 2-propoxy

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

Curve Coefficients	
Intercept:	0.9495
Slope:	0.6427

Error Coefficients	
Standard Error:	1960000
Relative Standard Error:	7.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	2.205599	50.0	4801123.0	1.102799	Y
2	IC 680-777342/9	5.0	4.242117	50.0	5034526.0	0.848423	Y
3	IC 680-777342/8	10.0	8.03262	50.0	5006187.0	0.803262	Y
4	ICIS 680-777342/7	20.0	13.071722	50.0	5533942.0	0.653586	Y
5	IC 680-777342/6	50.0	31.566116	50.0	4630348.0	0.631322	Y
6	IC 680-777342/5	80.0	52.440433	50.0	4200648.0	0.655505	N
7	IC 680-777342/4	100.0	78.726471	50.0	4175901.0	0.787265	N



Calibration

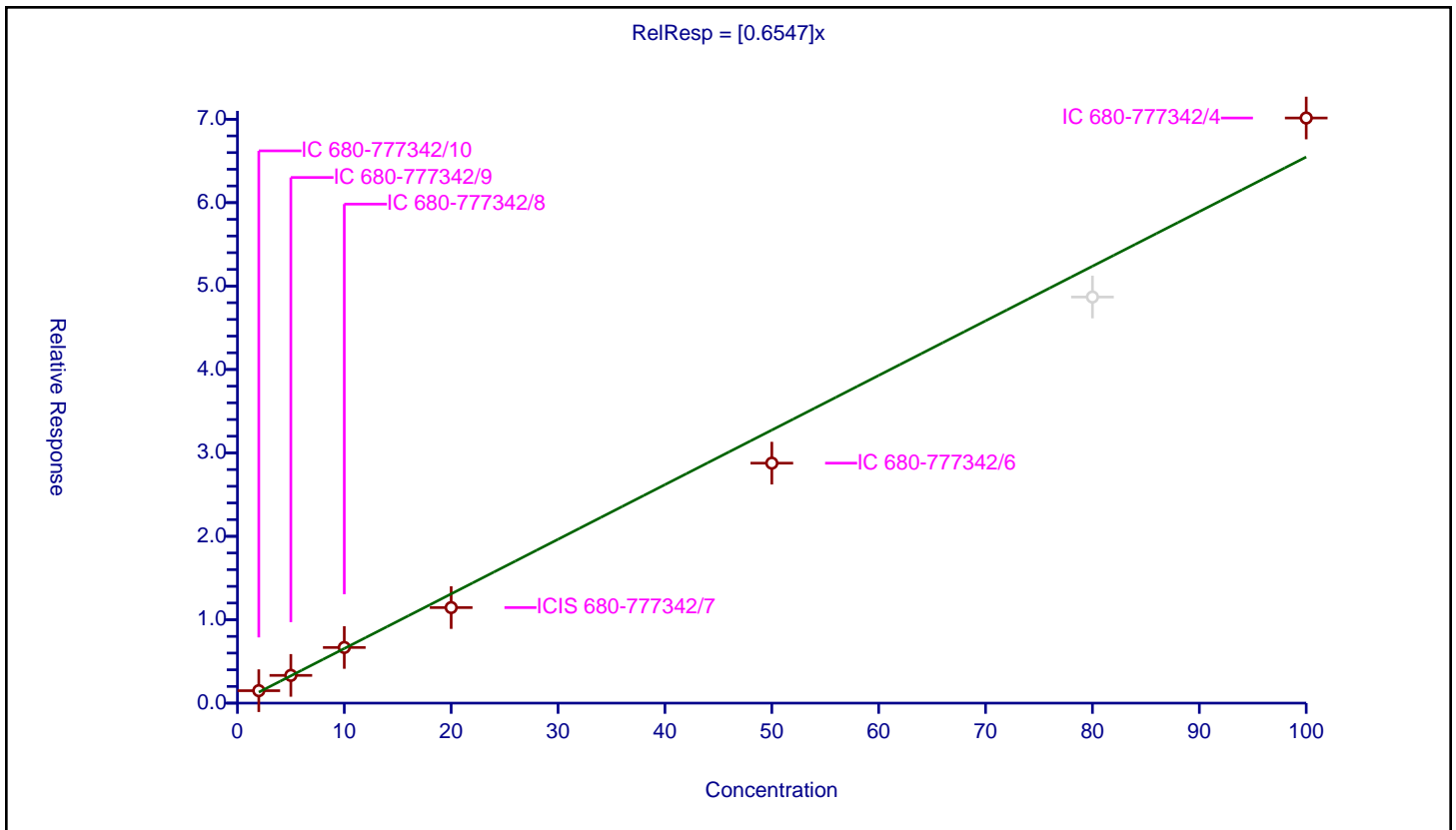
/ 4-Hydroxy-4-methyl-2-pentanone

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

Curve Coefficients	
Intercept:	0
Slope:	0.6547

Error Coefficients	
Standard Error:	2950000
Relative Standard Error:	10.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	1.492942	50.0	4801123.0	0.746471	Y
2	IC 680-777342/9	5.0	3.325954	50.0	5034526.0	0.665191	Y
3	IC 680-777342/8	10.0	6.670196	50.0	5006187.0	0.66702	Y
4	ICIS 680-777342/7	20.0	11.45583	50.0	5533942.0	0.572792	Y
5	IC 680-777342/6	50.0	28.76881	50.0	4630348.0	0.575376	Y
6	IC 680-777342/5	80.0	48.684786	50.0	4200648.0	0.60856	N
7	IC 680-777342/4	100.0	70.148777	50.0	4175901.0	0.701488	Y



Calibration

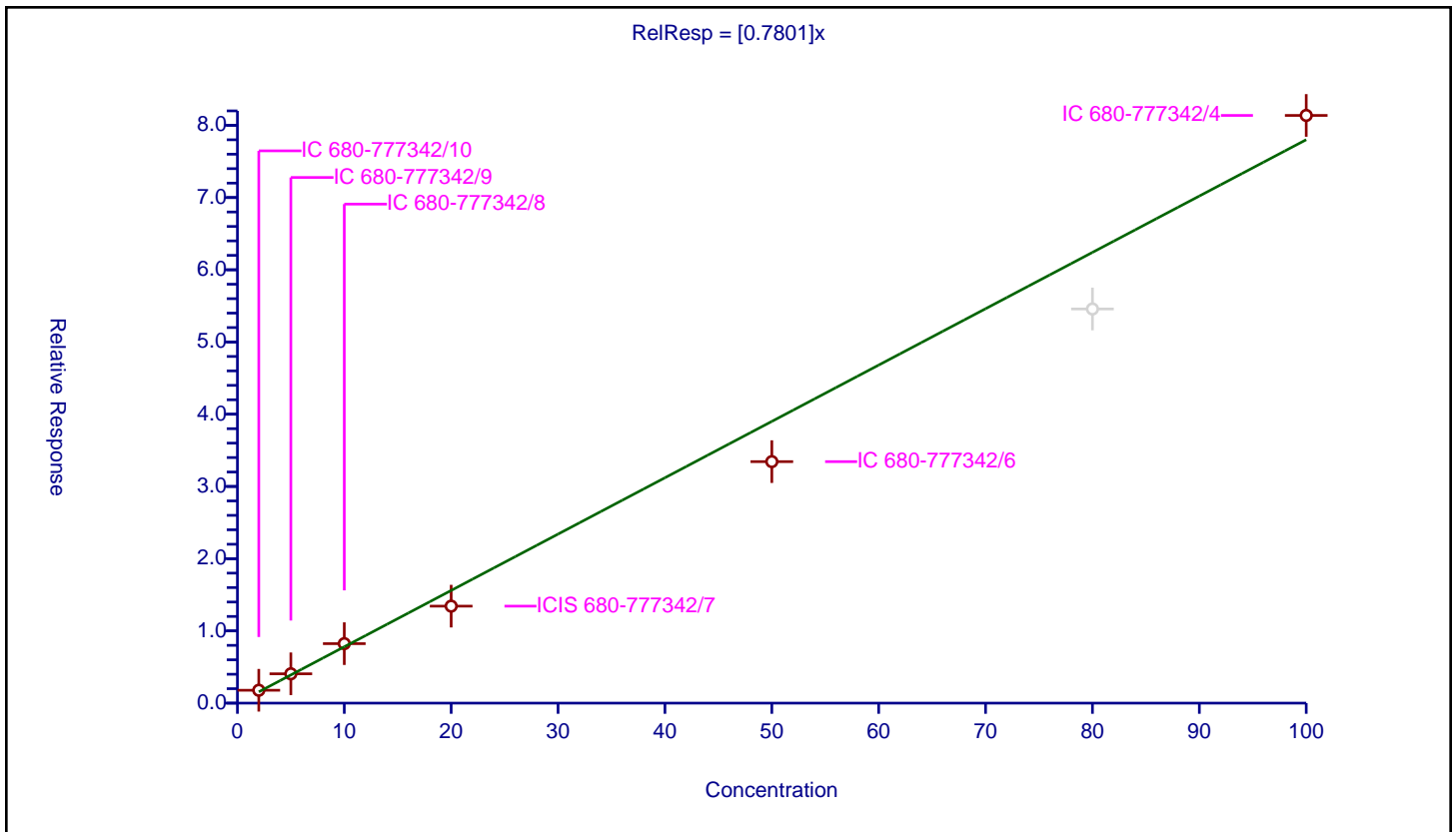
/ 2-Butoxyethanol

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

Curve Coefficients	
Intercept:	0
Slope:	0.7801

Error Coefficients	
Standard Error:	3430000
Relative Standard Error:	11.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	1.782021	50.0	4801123.0	0.89101	Y
2	IC 680-777342/9	5.0	4.060541	50.0	5034526.0	0.812108	Y
3	IC 680-777342/8	10.0	8.236089	50.0	5006187.0	0.823609	Y
4	ICIS 680-777342/7	20.0	13.428457	50.0	5533942.0	0.671423	Y
5	IC 680-777342/6	50.0	33.438772	50.0	4630348.0	0.668775	Y
6	IC 680-777342/5	80.0	54.571771	50.0	4200648.0	0.682147	N
7	IC 680-777342/4	100.0	81.371122	50.0	4175901.0	0.813711	Y



Calibration

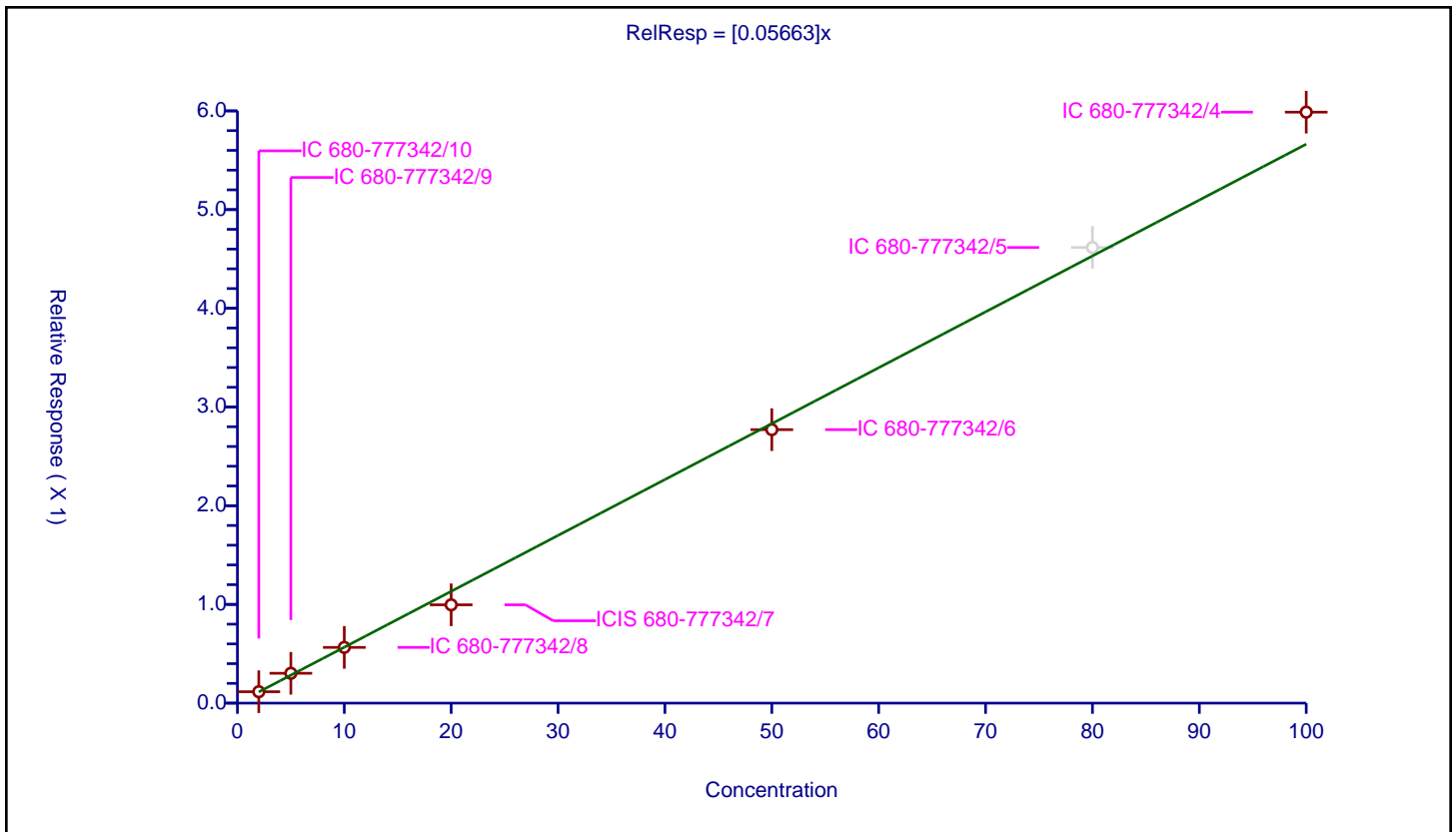
/ Dipropylene Glycol Methyl Ether

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

Curve Coefficients	
Intercept:	0
Slope:	0.05663

Error Coefficients	
Standard Error:	258000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	0.115567	50.0	4801123.0	0.057783	Y
2	IC 680-777342/9	5.0	0.302203	50.0	5034526.0	0.060441	Y
3	IC 680-777342/8	10.0	0.564721	50.0	5006187.0	0.056472	Y
4	ICIS 680-777342/7	20.0	0.995936	50.0	5533942.0	0.049797	Y
5	IC 680-777342/6	50.0	2.770612	50.0	4630348.0	0.055412	Y
6	IC 680-777342/5	80.0	4.615943	50.0	4200648.0	0.057699	N
7	IC 680-777342/4	100.0	5.987271	50.0	4175901.0	0.059873	Y



Calibration

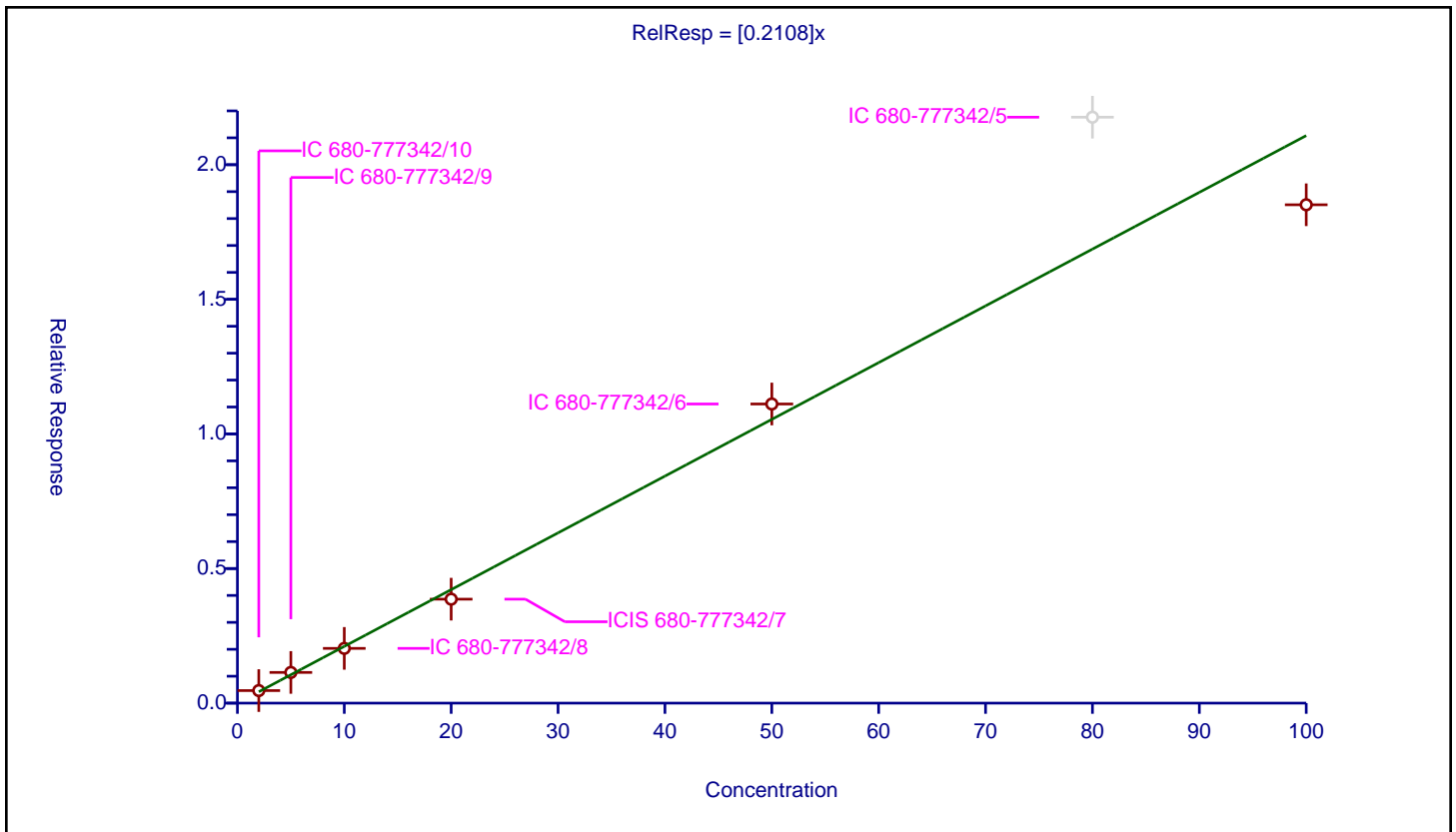
/ Propylene glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2108

Error Coefficients	
Standard Error:	859000
Relative Standard Error:	9.4
Correlation Coefficient:	0.975
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	0.466016	50.0	4801123.0	0.233008	Y
2	IC 680-777342/9	5.0	1.140107	50.0	5034526.0	0.228021	Y
3	IC 680-777342/8	10.0	2.033873	50.0	5006187.0	0.203387	Y
4	ICIS 680-777342/7	20.0	3.862211	50.0	5533942.0	0.193111	Y
5	IC 680-777342/6	50.0	11.111962	50.0	4630348.0	0.222239	Y
6	IC 680-777342/5	80.0	21.765868	50.0	4200648.0	0.272073	N
7	IC 680-777342/4	100.0	18.512723	50.0	4175901.0	0.185127	Y



Calibration

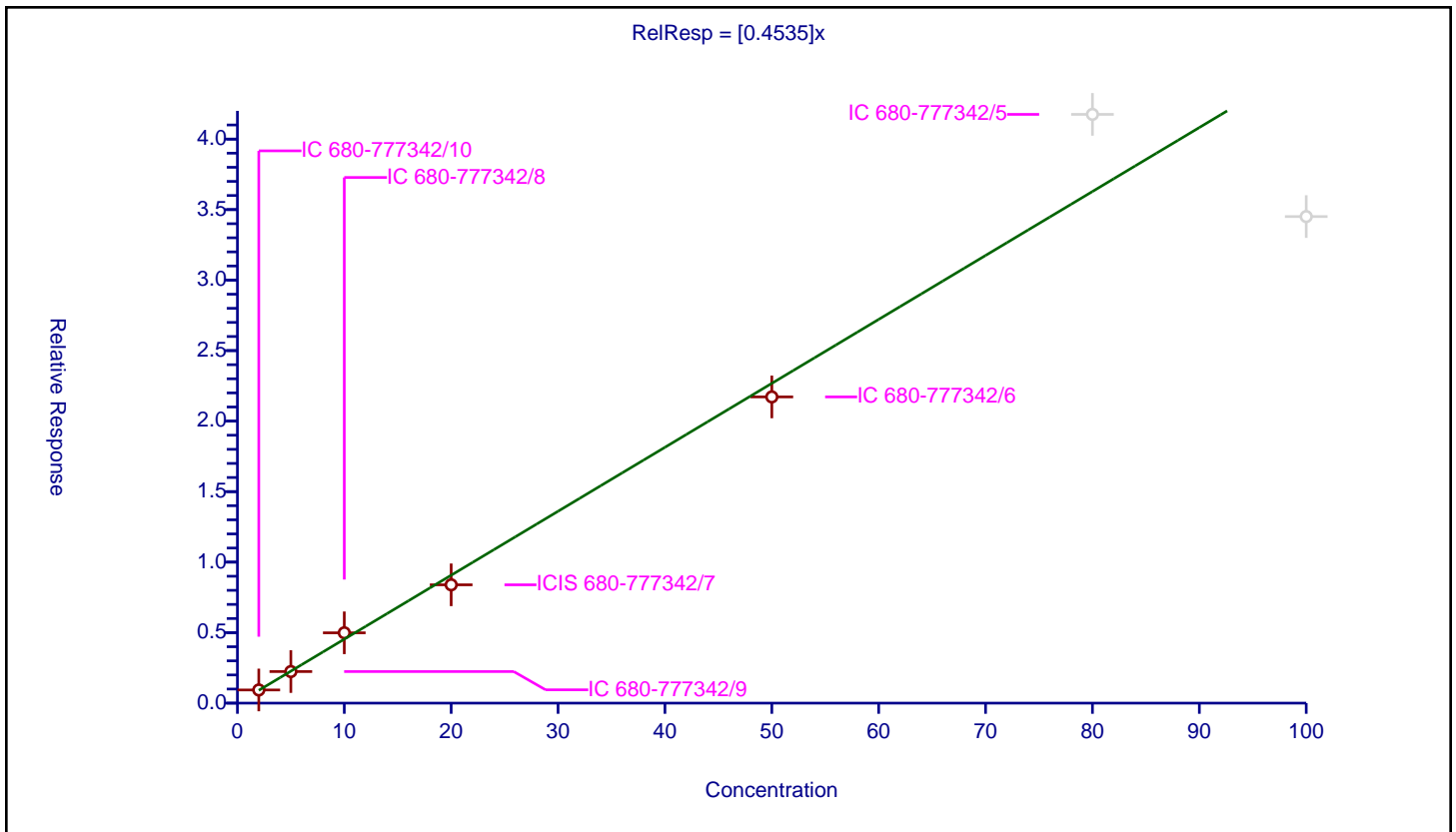
/ Ethylene glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.4535

Error Coefficients	
Standard Error:	1140000
Relative Standard Error:	6.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	0.93476	50.0	4801123.0	0.46738	Y
2	IC 680-777342/9	5.0	2.238572	50.0	5034526.0	0.447714	Y
3	IC 680-777342/8	10.0	4.987459	50.0	5006187.0	0.498746	Y
4	ICIS 680-777342/7	20.0	8.390791	50.0	5533942.0	0.41954	Y
5	IC 680-777342/6	50.0	21.715873	50.0	4630348.0	0.434317	Y
6	IC 680-777342/5	80.0	41.751808	50.0	4200648.0	0.521898	N
7	IC 680-777342/4	100.0	34.50441	50.0	4175901.0	0.345044	N



Calibration

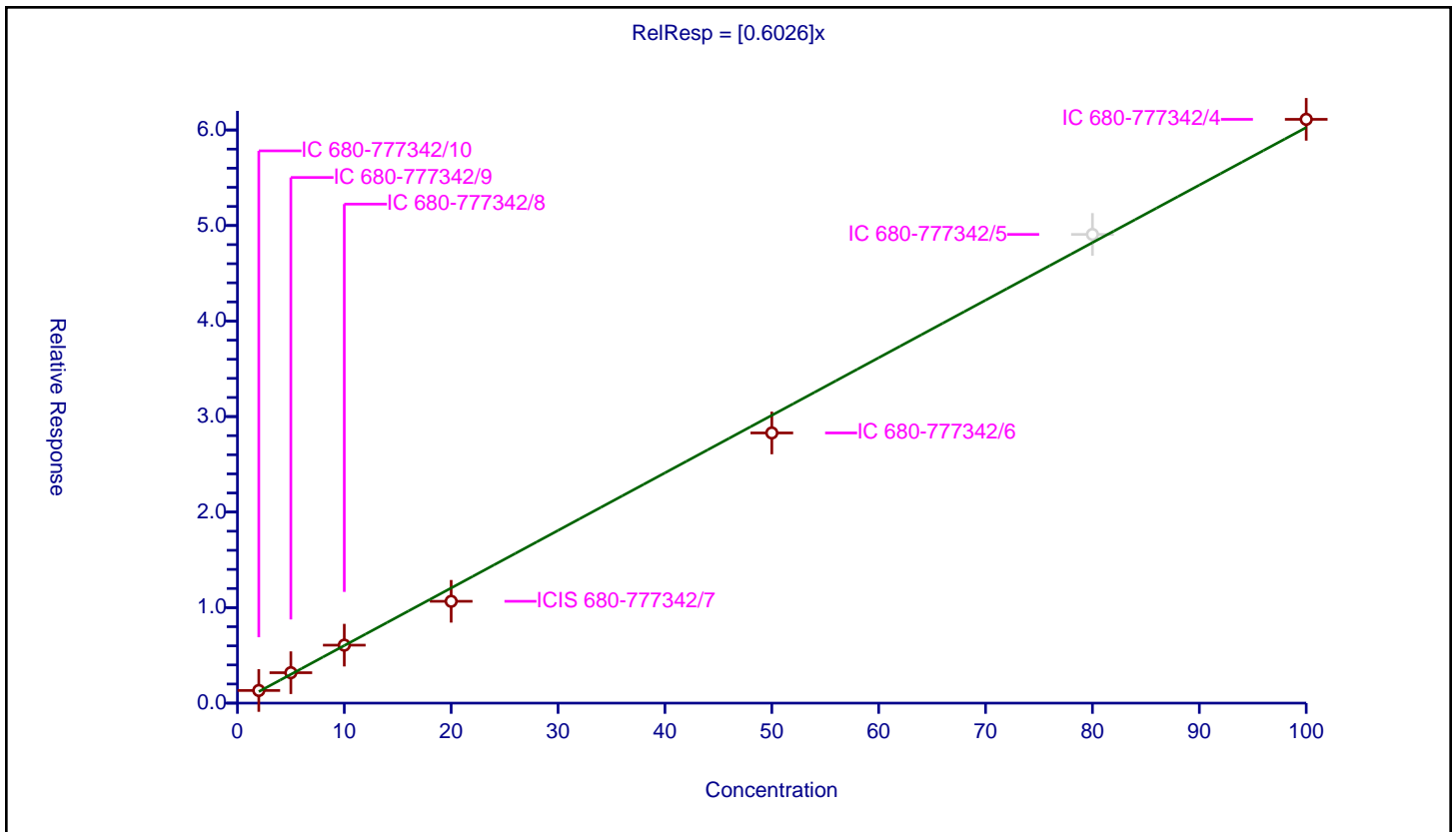
/ 2-(2-Butoxyethoxy)ethanol

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

Curve Coefficients	
Intercept:	0
Slope:	0.6026

Error Coefficients	
Standard Error:	2640000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	1.323388	50.0	4801123.0	0.661694	Y
2	IC 680-777342/9	5.0	3.186586	50.0	5034526.0	0.637317	Y
3	IC 680-777342/8	10.0	6.067372	50.0	5006187.0	0.606737	Y
4	ICIS 680-777342/7	20.0	10.659671	50.0	5533942.0	0.532984	Y
5	IC 680-777342/6	50.0	28.286222	50.0	4630348.0	0.565724	Y
6	IC 680-777342/5	80.0	49.067465	50.0	4200648.0	0.613343	N
7	IC 680-777342/4	100.0	61.117182	50.0	4175901.0	0.611172	Y



Calibration

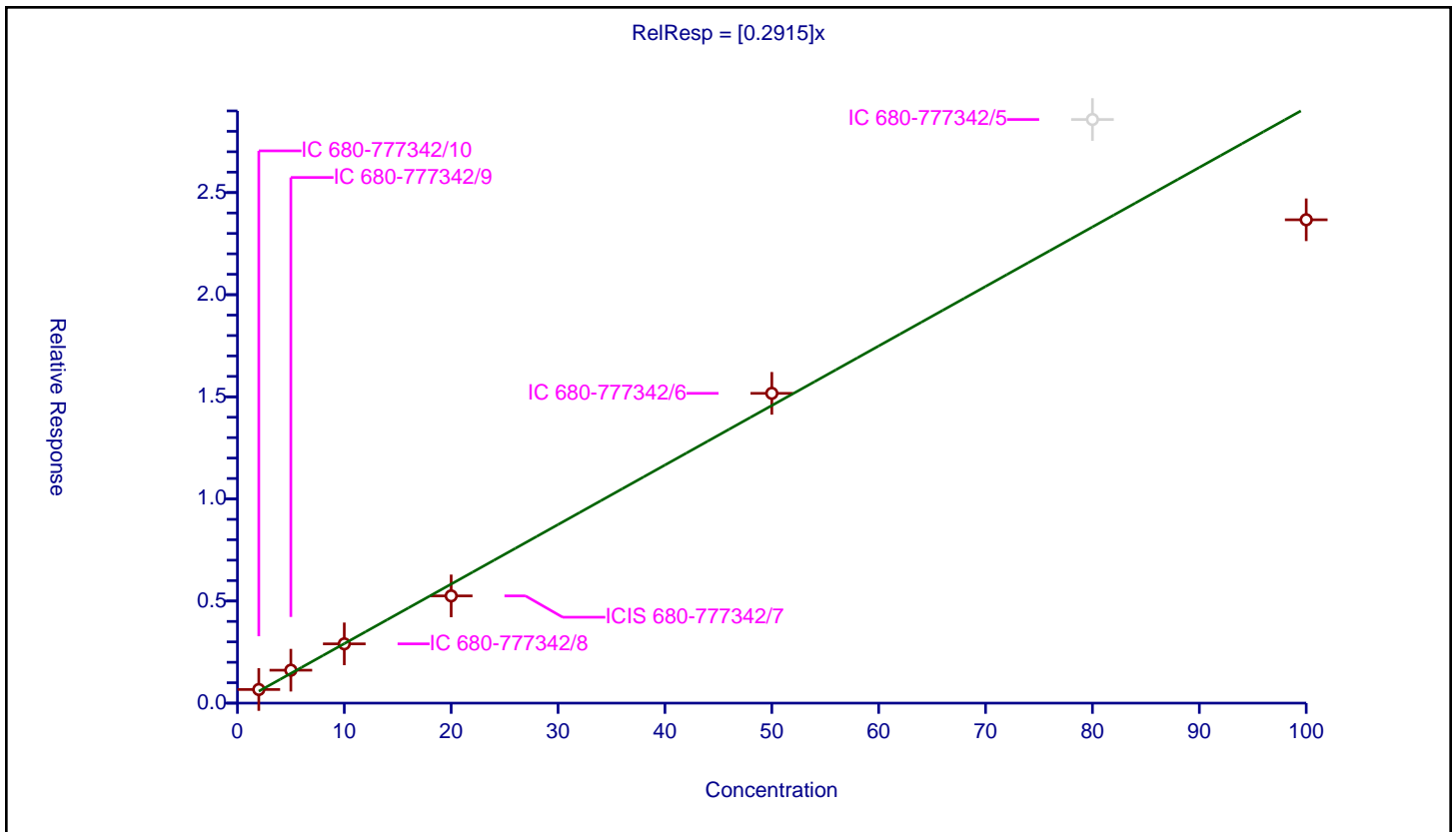
/ 2,2'-Oxybisethanol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2915

Error Coefficients	
Standard Error:	1130000
Relative Standard Error:	12.6
Correlation Coefficient:	0.960
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	0.666521	50.0	4801123.0	0.333261	Y
2	IC 680-777342/9	5.0	1.613032	50.0	5034526.0	0.322606	Y
3	IC 680-777342/8	10.0	2.902658	50.0	5006187.0	0.290266	Y
4	ICIS 680-777342/7	20.0	5.251202	50.0	5533942.0	0.26256	Y
5	IC 680-777342/6	50.0	15.169853	50.0	4630348.0	0.303397	Y
6	IC 680-777342/5	80.0	28.578948	50.0	4200648.0	0.357237	N
7	IC 680-777342/4	100.0	23.668868	50.0	4175901.0	0.236689	Y



Calibration

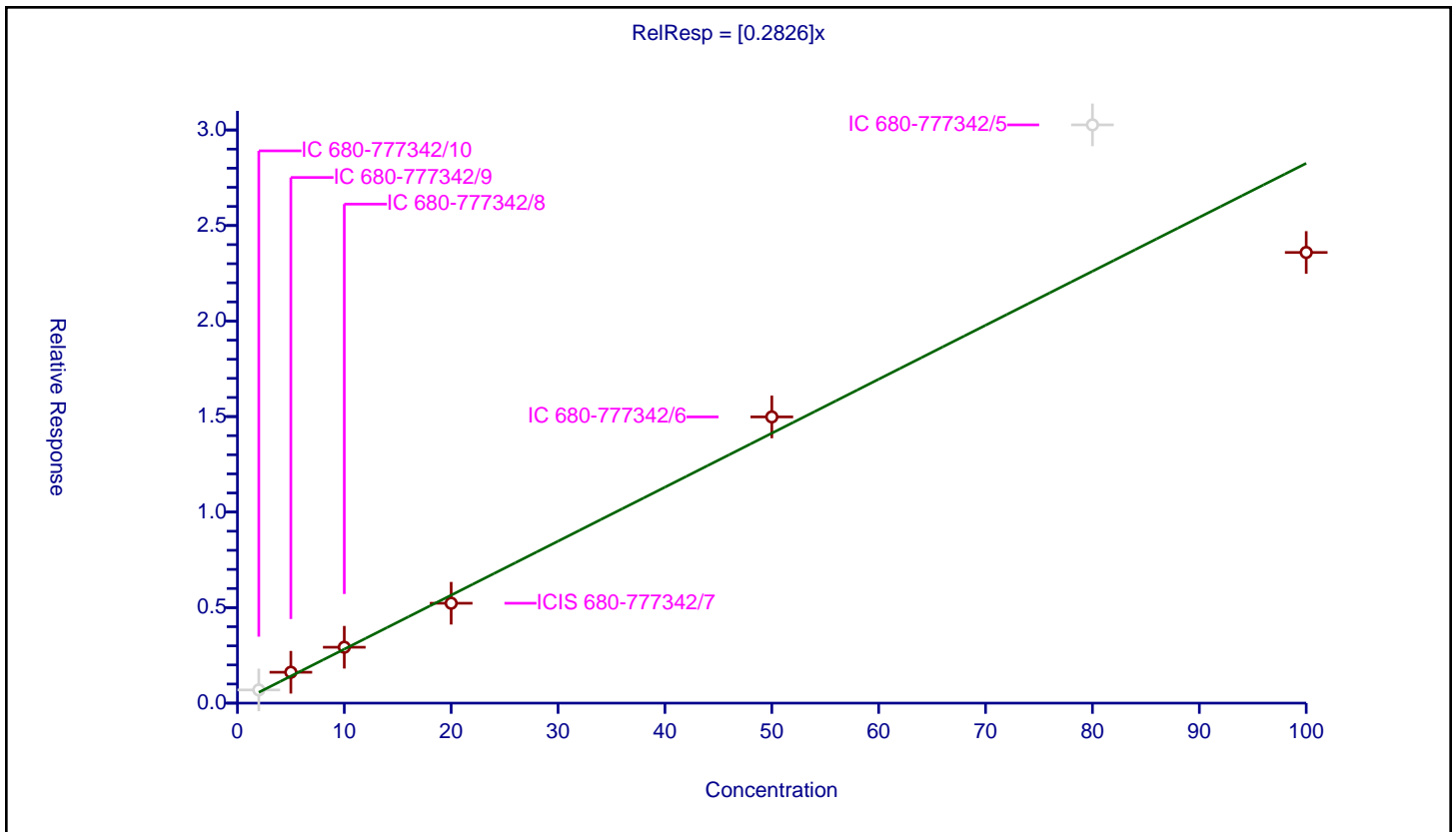
/ Triethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2826

Error Coefficients	
Standard Error:	1250000
Relative Standard Error:	12.1
Correlation Coefficient:	0.960
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	2.0	0.690588	50.0	4801123.0	0.345294	N
2	IC 680-777342/9	5.0	1.616806	50.0	5034526.0	0.323361	Y
3	IC 680-777342/8	10.0	2.92523	50.0	5006187.0	0.292523	Y
4	ICIS 680-777342/7	20.0	5.227937	50.0	5533942.0	0.261397	Y
5	IC 680-777342/6	50.0	14.981671	50.0	4630348.0	0.299633	Y
6	IC 680-777342/5	80.0	30.26839	50.0	4200648.0	0.378355	N
7	IC 680-777342/4	100.0	23.589376	50.0	4175901.0	0.235894	Y



Calibration

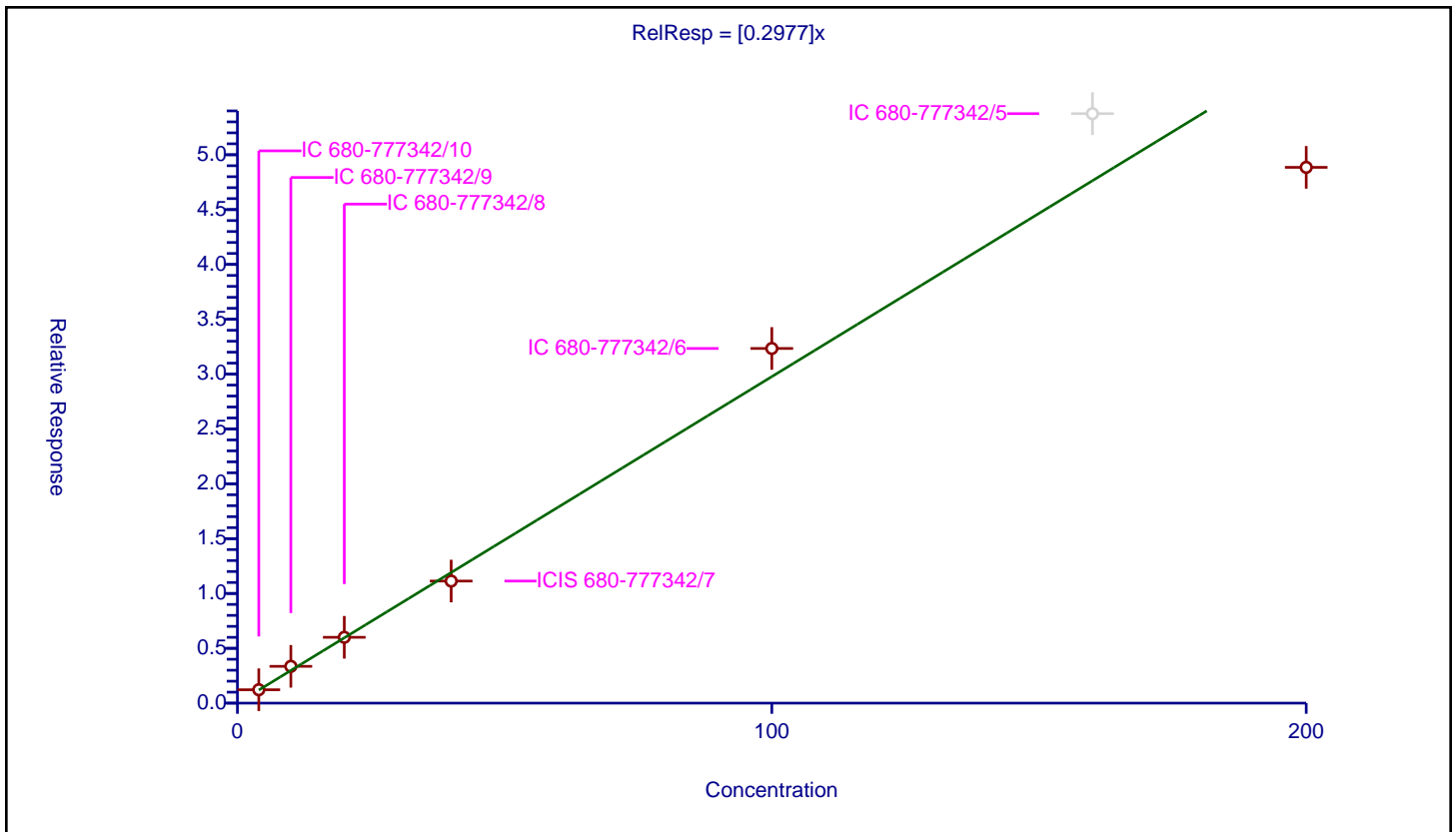
/ Tetraethylene Glycol

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

Curve Coefficients	
Intercept:	0
Slope:	0.2977

Error Coefficients	
Standard Error:	2350000
Relative Standard Error:	11.0
Correlation Coefficient:	0.951
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-777342/10	4.0	1.21934	50.0	4801123.0	0.304835	Y
2	IC 680-777342/9	10.0	3.353831	50.0	5034526.0	0.335383	Y
3	IC 680-777342/8	20.0	6.002592	50.0	5006187.0	0.30013	Y
4	ICIS 680-777342/7	40.0	11.130511	50.0	5533942.0	0.278263	Y
5	IC 680-777342/6	100.0	32.33798	50.0	4630348.0	0.32338	Y
6	IC 680-777342/5	160.0	53.747993	50.0	4200648.0	0.335925	N
7	IC 680-777342/4	200.0	48.851661	50.0	4175901.0	0.244258	Y



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: ICV 680-777342/11 Calibration Date: 05/07/2023 01:23
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06011.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.7498		21.9	20.0	9.3	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6547	0.6430		19.6	20.0	-1.8	20.0
2-Butoxyethanol	Ave	0.7801	0.7995		20.5	20.0	2.5	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0566	0.0502		17.7	20.0	-11.3	20.0
Propylene glycol	Ave	0.2108	0.1369		13.0	20.0	-35.1*	20.0
Ethylene glycol	Ave	0.4535	0.3308		14.6	20.0	-27.1*	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.6026	0.5187		17.2	20.0	-13.9	20.0
2,2'-Oxybisethanol	Ave	0.2915	0.1894		13.0	20.0	-35.0*	20.0
Triethylene Glycol	Ave	0.2826	0.2068		14.6	20.0	-26.8*	20.0
Tetraethylene Glycol	Ave	0.2977	0.2079		27.9	40.0	-30.2*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: ICV 680-777342/11 Calibration Date: 05/07/2023 01:23
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06011.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.22	2.18	2.27
4-Hydroxy-4-methyl-2-pentanone	2.58	2.53	2.63
2-Butoxyethanol	2.76	2.71	2.82
Dipropylene Glycol Methyl Ether	3.82	3.74	3.90
Propylene glycol	4.74	4.66	4.85
Ethylene glycol	4.98	4.90	5.10
2-(2-Butoxyethoxy)ethanol	6.65	6.51	6.78
2,2'-Oxybisethanol	8.79	8.62	8.97
Triethylene Glycol	10.06	9.86	10.26
Tetraethylene Glycol	10.89	10.68	11.11

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
 Lims ID: icv glycol
 Client ID:
 Sample Type: CCV
 Inject. Date: 07-May-2023 01:23:23 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-011
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:40:39 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

First Level Reviewer: SK9U Date: 07-May-2023 14:04:01

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.224	2.223	0.001	1517853	20.0	21.9	
2 4-Hydroxy-4-methyl-2-pentanone						
2.576	2.577	-0.001	1301648	20.0	19.6	
3 2-Butoxyethanol						
2.763	2.760	0.003	1618557	20.0	20.5	
* 4 n-Heptyl Alcohol						
3.075	3.066	0.009	5061020	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
3.819	3.820	-0.001	101665	20.0	17.7	M
6 Propylene glycol						
4.744	4.752	-0.008	277088	20.0	13.0	M
7 Ethylene glycol						
4.979	5.004	-0.025	669641	20.0	14.6	M
8 2-(2-Butoxyethoxy)ethanol						
6.652	6.647	0.005	1050113	20.0	17.2	
9 2,2'-Oxybisethanol						
8.794	8.792	0.002	383461	20.0	13.0	
10 Triethylene Glycol						
10.057	10.057	0.000	418567	20.0	14.6	M
11 Tetraethylene Glycol						
10.894	10.894	0.000	841555	40.0	27.9	M

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00057

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D

Injection Date: 07-May-2023 01:23:23

Instrument ID: CVGG2

Operator ID:

Lims ID: icv glycol

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

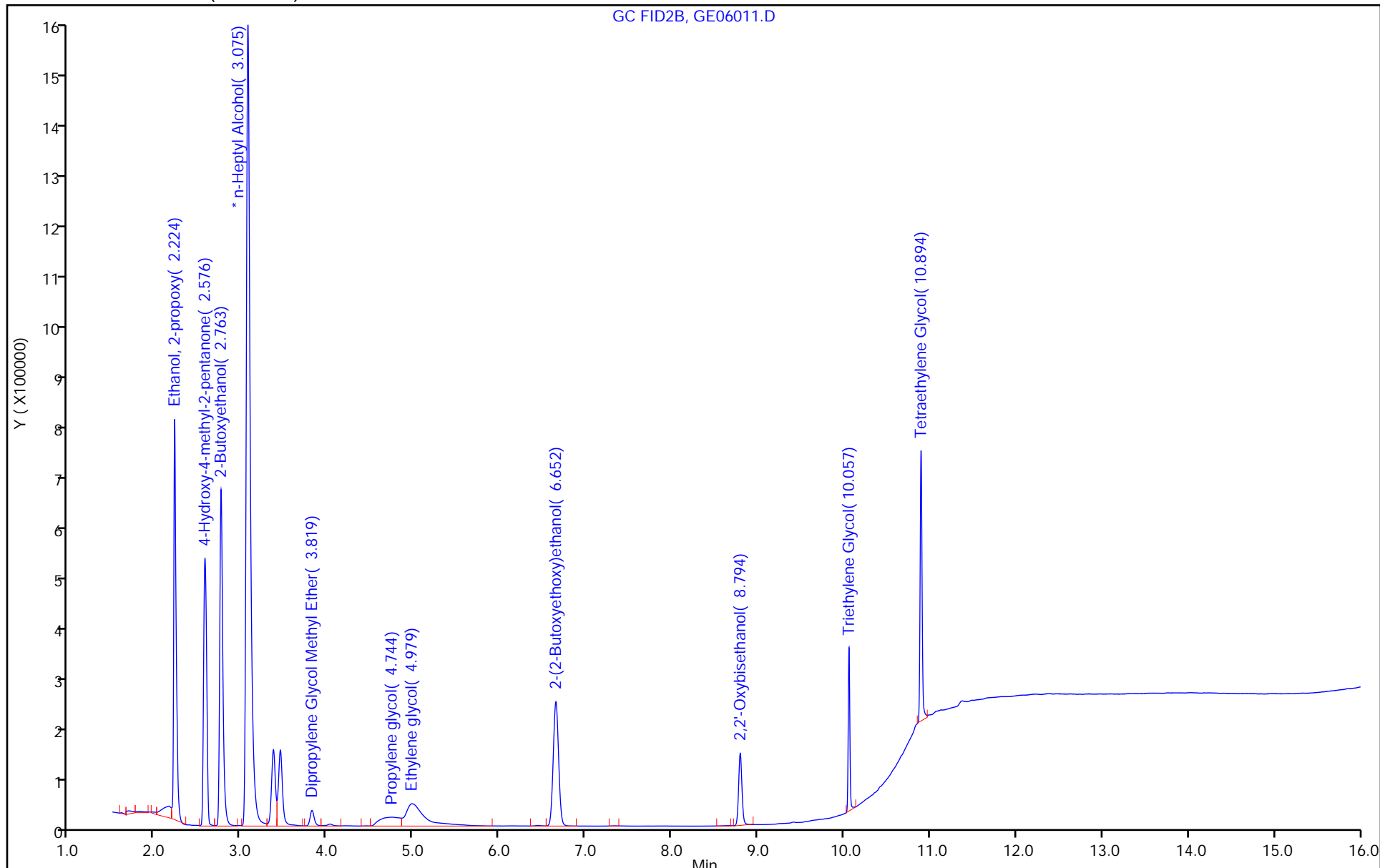
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

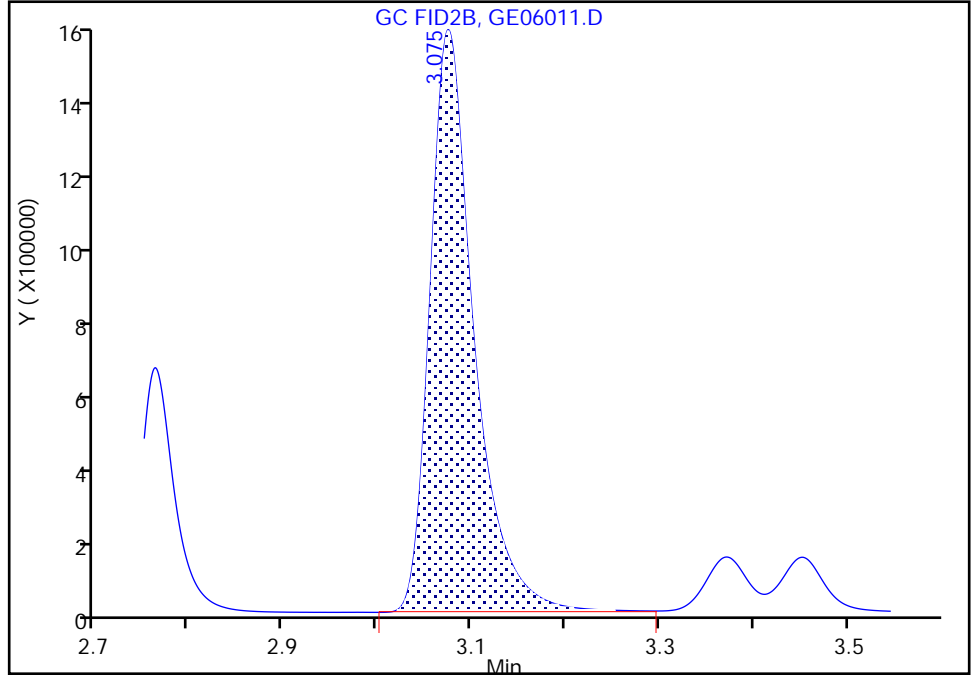
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

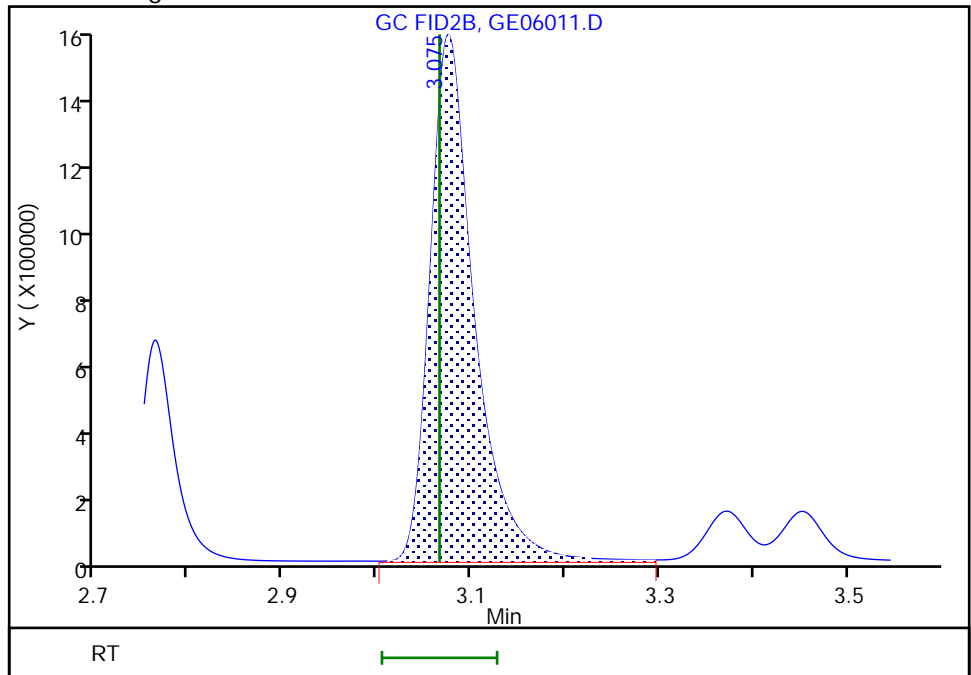
RT: 3.08
Area: 5026010
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 3.08
Area: 5061020
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



Euofins Savannah

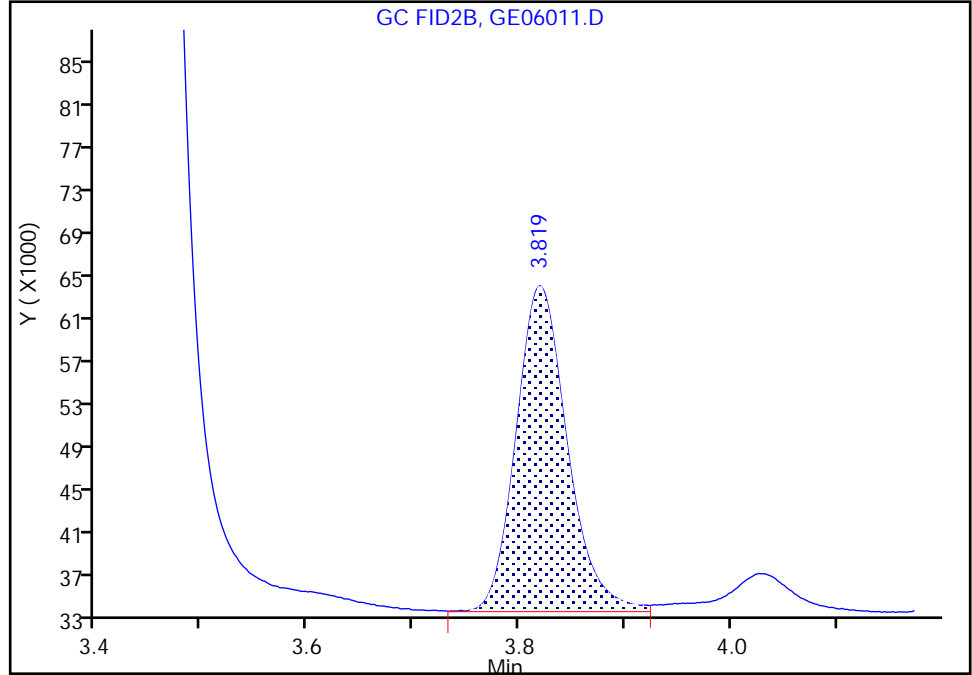
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Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

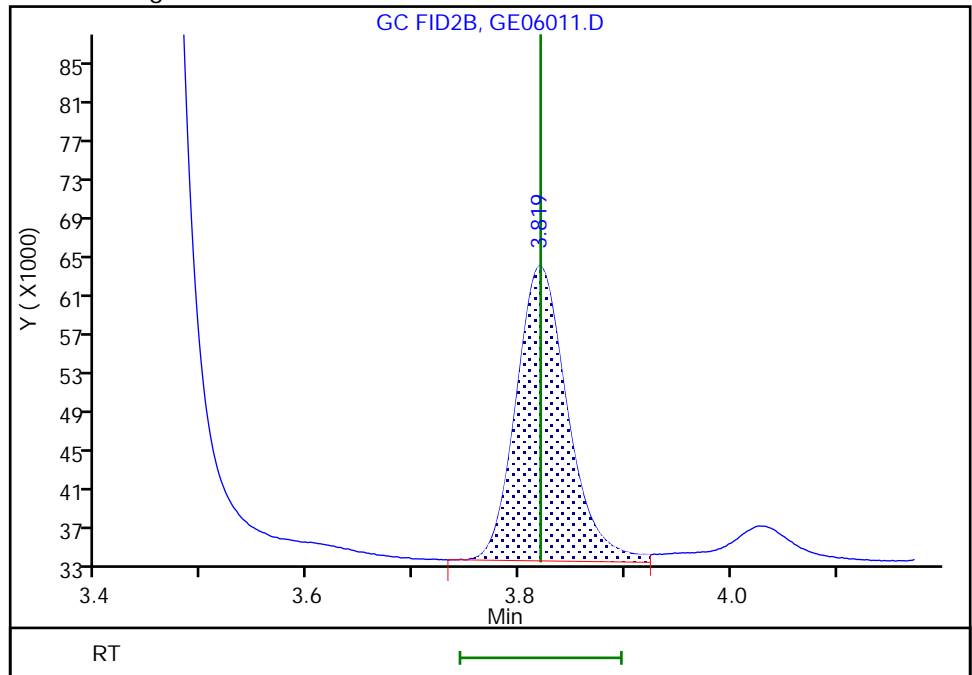
RT: 3.82
Area: 101015
Amount: 17.697764
Amount Units: ug/ml

Processing Integration Results



RT: 3.82
Area: 101665
Amount: 17.736160
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:03:55
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

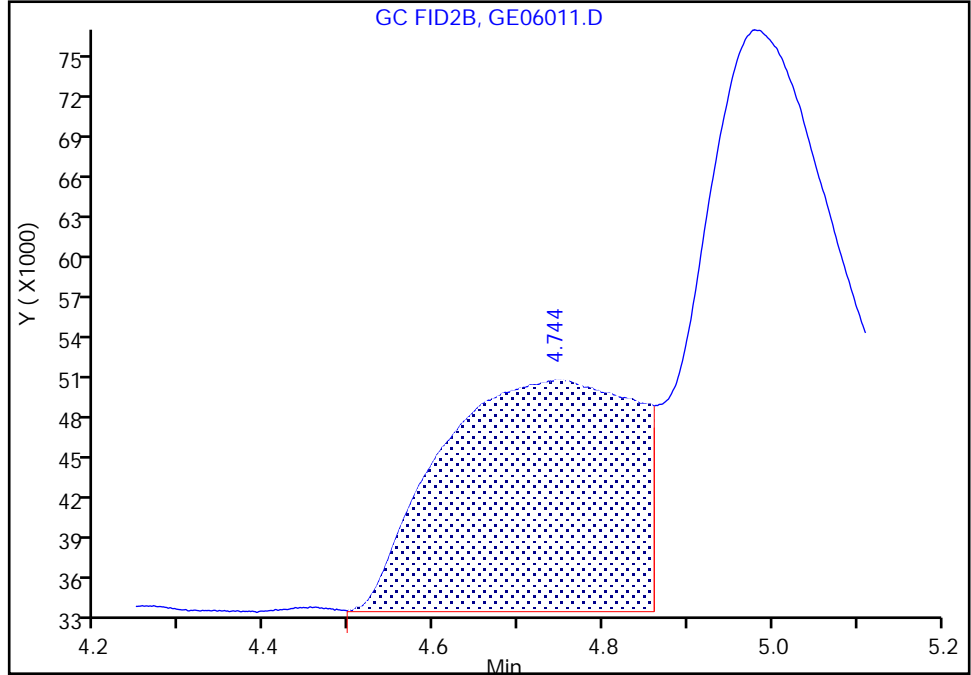
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

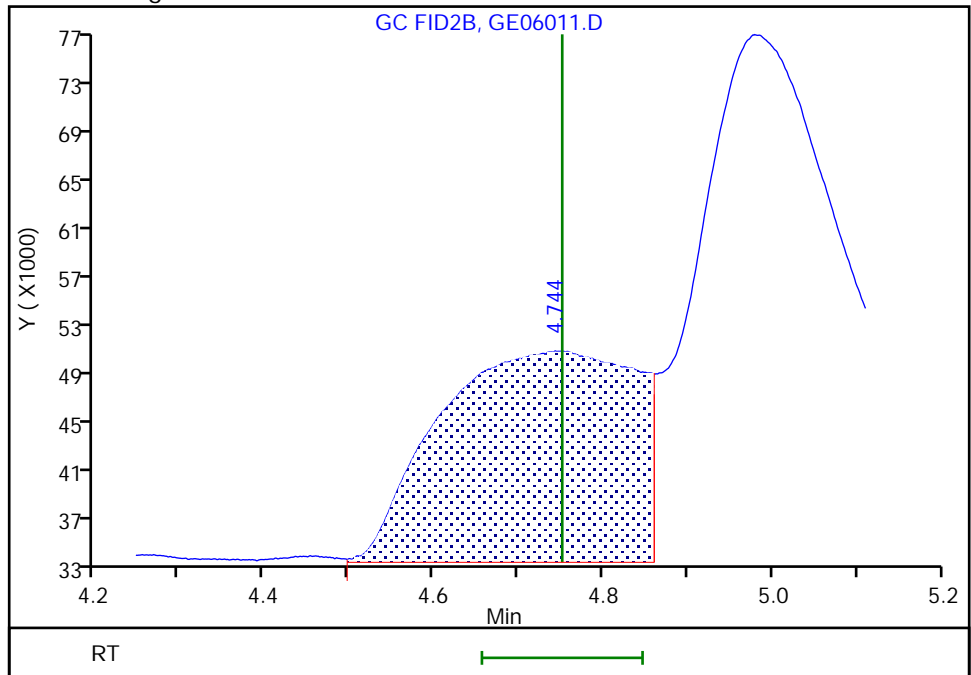
RT: 4.74
Area: 273884
Amount: 13.111035
Amount Units: ug/ml

Processing Integration Results



RT: 4.74
Area: 277088
Amount: 12.985147
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:11:15
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

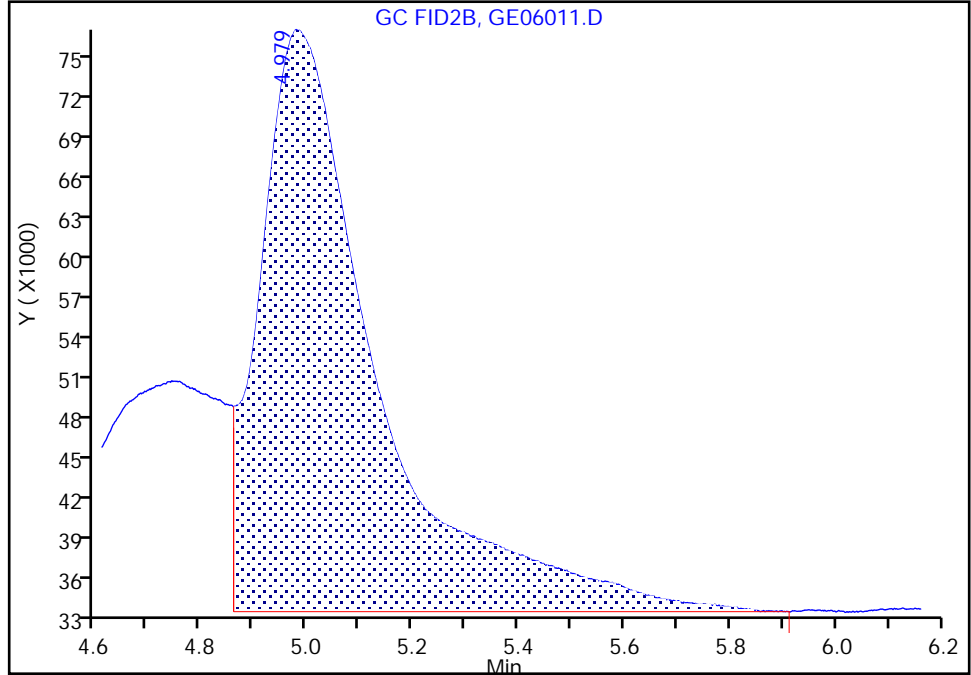
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

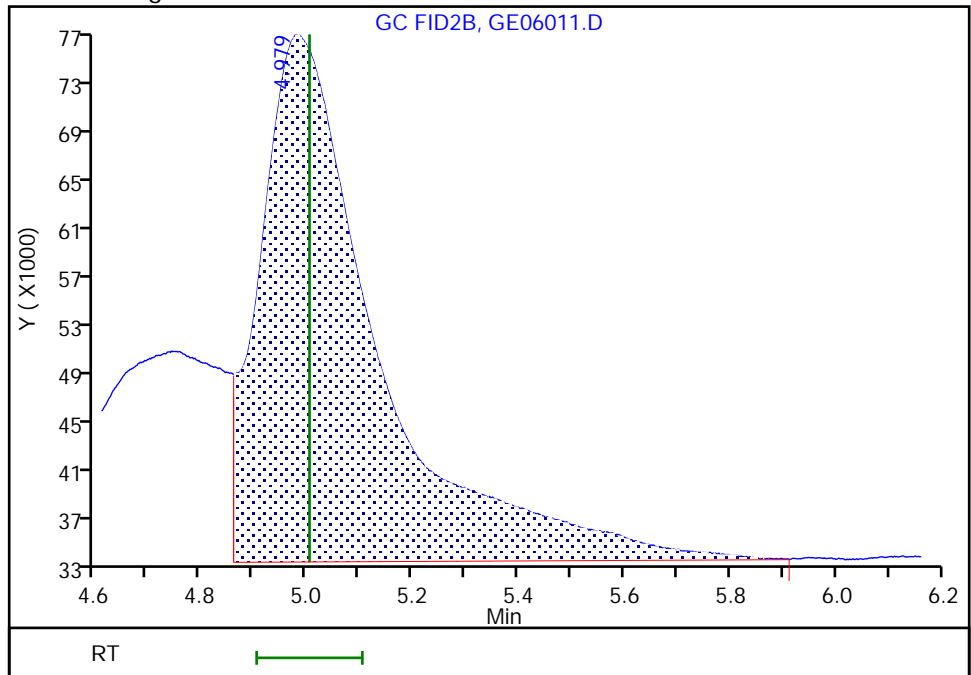
RT: 4.98
Area: 661817
Amount: 15.238401
Amount Units: ug/ml

Processing Integration Results



RT: 4.98
Area: 669641
Amount: 14.586761
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:11:15
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

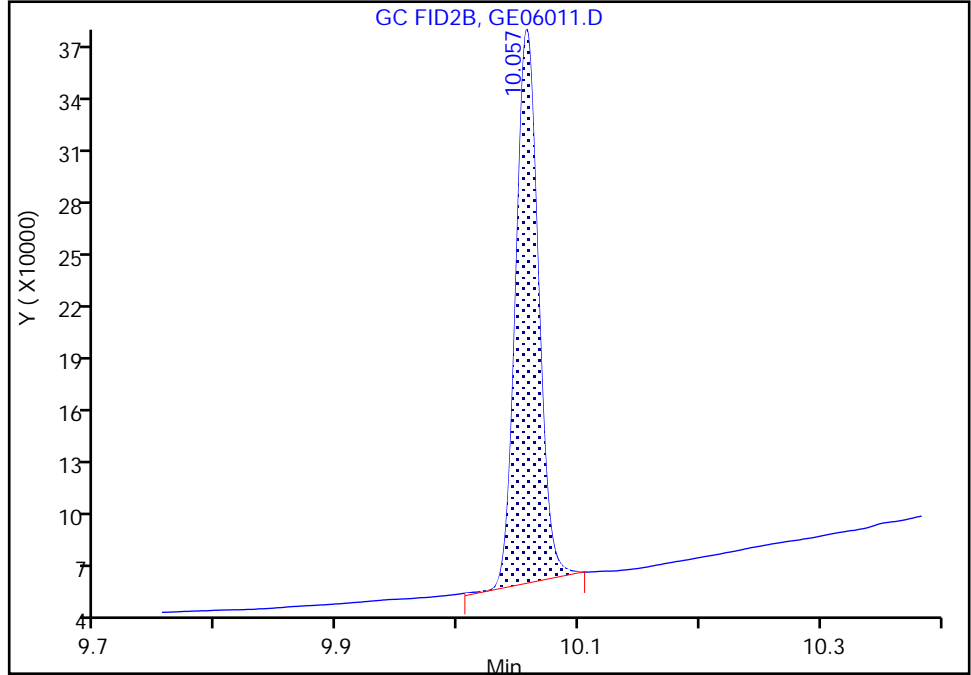
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

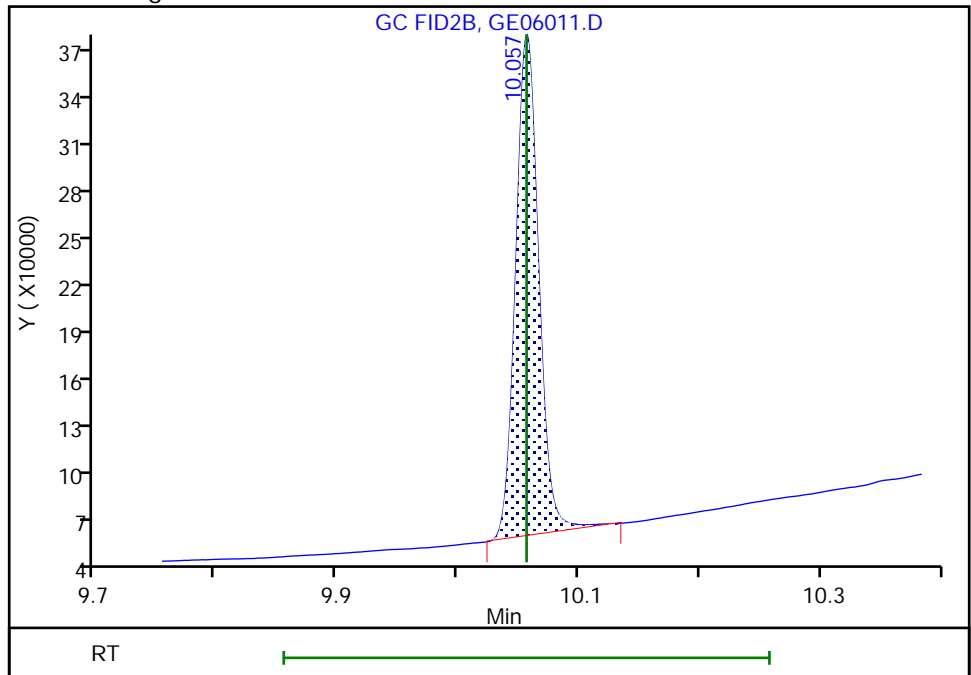
RT: 10.06
Area: 411190
Amount: 13.863777
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 418567
Amount: 14.634697
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:19:20
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

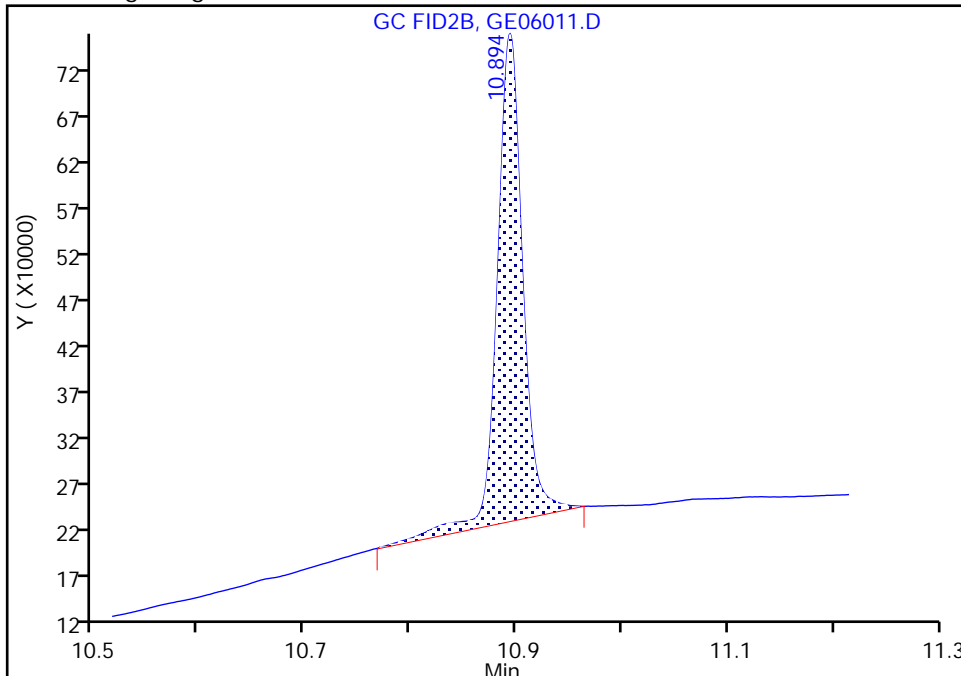
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06011.D
Injection Date: 07-May-2023 01:23:23 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

11 Tetraethylene Glycol, CAS: 112-60-7

Signal: 1

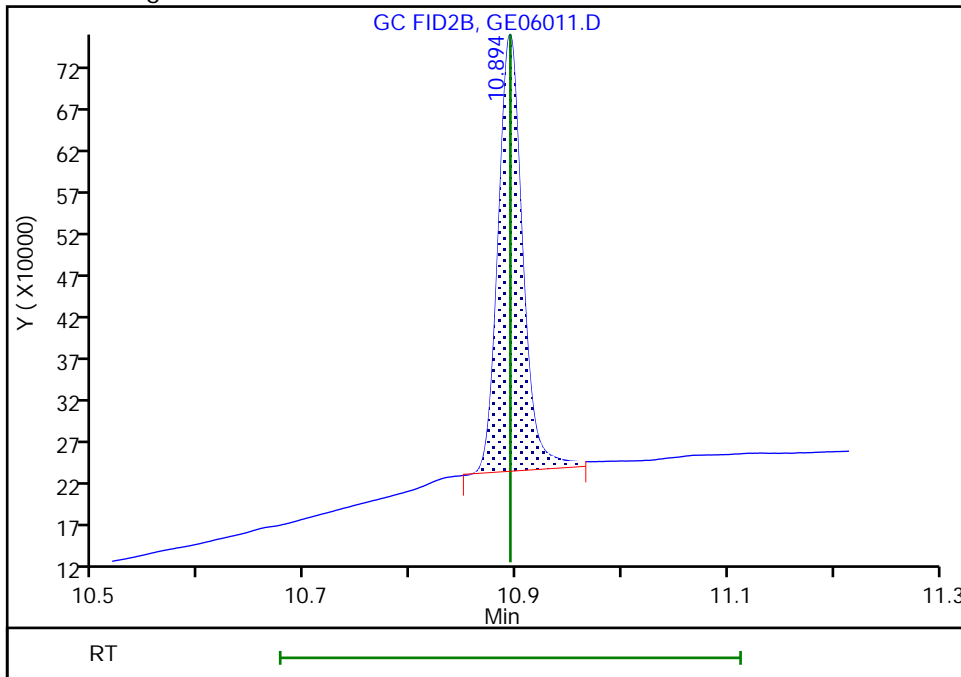
RT: 10.89
Area: 887050
Amount: 29.436720
Amount Units: ug/ml

Processing Integration Results



RT: 10.89
Area: 841555
Amount: 27.926970
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 07-May-2023 14:18:56
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777342/31 Calibration Date: 05/07/2023 09:07
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06031.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.7794		22.8	20.0	13.9	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6547	0.6679		20.4	20.0	2.0	20.0
2-Butoxyethanol	Ave	0.7801	0.7955		20.4	20.0	2.0	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0566	0.0565		19.9	20.0	-0.3	20.0
Propylene glycol	Ave	0.2108	0.0717		6.80	20.0	-66.0*	20.0
Ethylene glycol	Ave	0.4535	0.3540		15.6	20.0	-21.9*	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.6026	0.5683		18.9	20.0	-5.7	20.0
2,2'-Oxybisethanol	Ave	0.2915	0.1909		13.1	20.0	-34.5*	20.0
Triethylene Glycol	Ave	0.2826	0.2124		15.0	20.0	-24.8*	20.0
Tetraethylene Glycol	Ave	0.2977	0.2154		28.9	40.0	-27.6*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777342/31 Calibration Date: 05/07/2023 09:07
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06031.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.22	2.18	2.27
4-Hydroxy-4-methyl-2-pentanone	2.58	2.53	2.63
2-Butoxyethanol	2.76	2.71	2.82
Dipropylene Glycol Methyl Ether	3.82	3.74	3.90
Propylene glycol	4.75	4.66	4.85
Ethylene glycol	5.00	4.90	5.10
2-(2-Butoxyethoxy)ethanol	6.65	6.51	6.78
2,2'-Oxybisethanol	8.79	8.62	8.97
Triethylene Glycol	10.06	9.86	10.26
Tetraethylene Glycol	10.89	10.68	11.11

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06031.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 07-May-2023 09:07:31 ALS Bottle#: 0 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-031
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:39:32 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.223	2.223	0.000	1694251	20.0	22.8
2 4-Hydroxy-4-methyl-2-pentanone	2.577	2.577	0.000	1451923	20.0	20.4
3 2-Butoxyethanol	2.760	2.760	0.000	1729309	20.0	20.4
* 4 n-Heptyl Alcohol	3.066	3.066	0.000	5434728	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.820	3.820	0.000	122791	20.0	19.9
6 Propylene glycol	4.752	4.752	0.000	155855	20.0	6.80
7 Ethylene glycol	5.004	5.004	0.000	769622	20.0	15.6
8 2-(2-Butoxyethoxy)ethanol	6.647	6.647	0.000	1235353	20.0	18.9
9 2,2'-Oxybisethanol	8.792	8.792	0.000	414910	20.0	13.1
10 Triethylene Glycol	10.057	10.057	0.000	461814	20.0	15.0
11 Tetraethylene Glycol	10.894	10.894	0.000	936701	40.0	28.9

Reagents:

SG_Gly_CAL_00049 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06031.D

Injection Date: 07-May-2023 09:07:31

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 31

Client ID:

Injection Vol: 1.0 ul

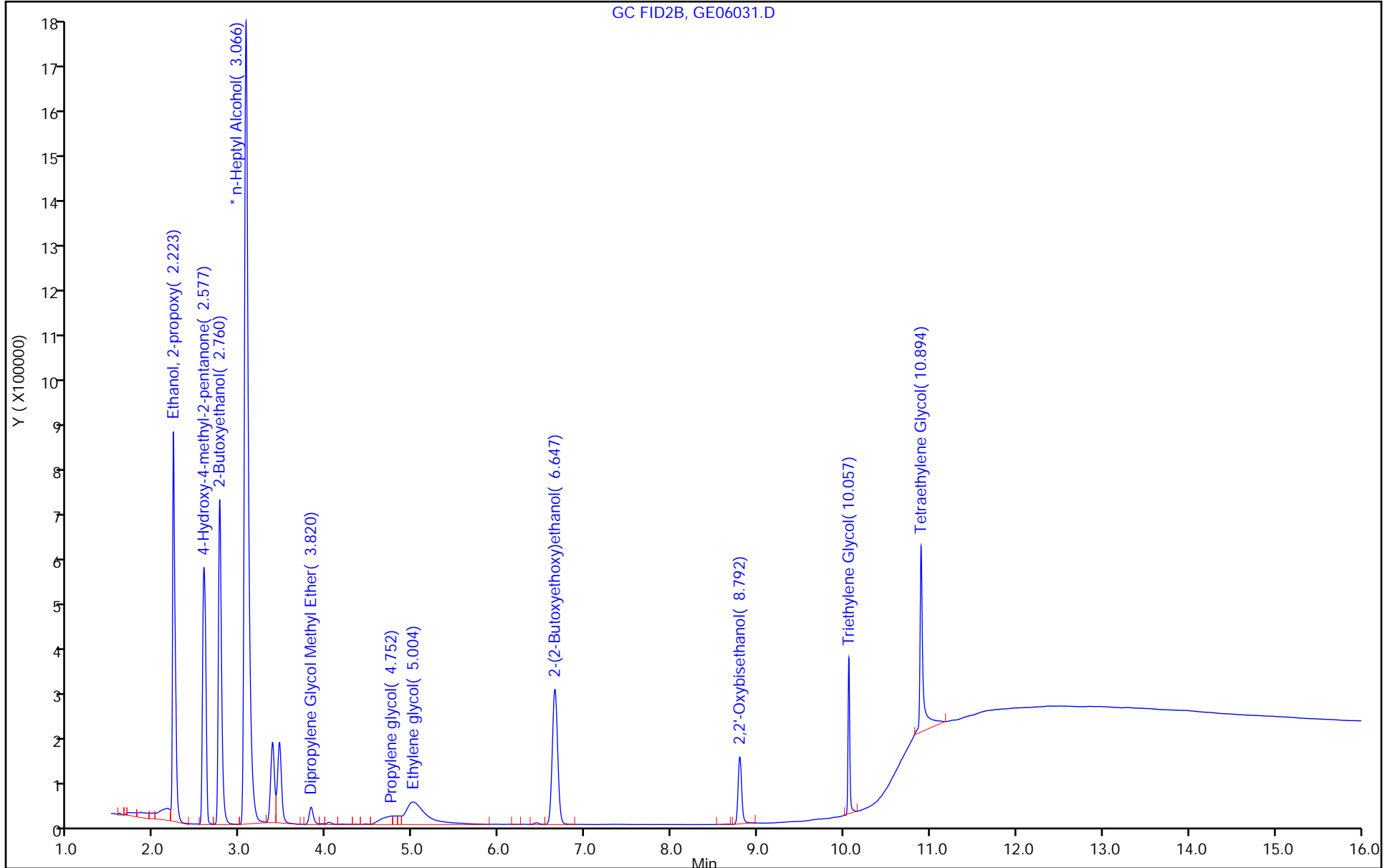
Dil. Factor: 1.0000

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.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777342/47 Calibration Date: 05/07/2023 15:19
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06047.D Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.8777		25.8	20.0	29.2*	20.0
4-Hydroxy-4-methyl-2-pentano ne	Ave	0.6547	0.7540		23.0	20.0	15.2	20.0
2-Butoxyethanol	Ave	0.7801	0.8685		22.3	20.0	11.3	20.0
Dipropylene Glycol Methyl Ether	Ave	0.0566	0.0661		23.3	20.0	16.7	20.0
Propylene glycol	Ave	0.2108	0.1738		16.5	20.0	-17.5	20.0
Ethylene glycol	Ave	0.4535	0.3908		17.2	20.0	-13.8	20.0
2-(2-Butoxyethoxy)ethanol	Ave	0.6026	0.6845		22.7	20.0	13.6	20.0
2,2'-Oxybisethanol	Ave	0.2915	0.0331		2.27	20.0	-88.6*	20.0
Tetraethylene Glycol	Ave	0.2977			10.0	40.0		
Triethylene Glycol	Ave	0.2826			2.50	20.0		

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777342/47 Calibration Date: 05/07/2023 15:19
 Instrument ID: CVGG2 Calib Start Date: 05/06/2023 22:40
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/07/2023 01:00
 Lab File ID: GE06047.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	2.22	2.17	2.26
4-Hydroxy-4-methyl-2-pentanone	2.57	2.52	2.62
2-Butoxyethanol	2.76	2.70	2.81
Dipropylene Glycol Methyl Ether	3.82	3.74	3.89
Propylene glycol	4.81	4.71	4.90
Ethylene glycol	5.02	4.92	5.12
2-(2-Butoxyethoxy)ethanol	6.65	6.52	6.78
2,2'-Oxybisethanol	8.82	8.64	8.99
Tetraethylene Glycol			
Triethylene Glycol			

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06047.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 07-May-2023 15:19:25 ALS Bottle#: 0 Worklist Smp#: 47
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-047
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 10-May-2023 13:01:31 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1620

First Level Reviewer: SK9U Date: 10-May-2023 13:01:31

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy						
2.218	2.218	0.000	1604371	20.0	25.8	
2 4-Hydroxy-4-methyl-2-pentanone						
2.572	2.572	0.000	1378237	20.0	23.0	
3 2-Butoxyethanol						
2.756	2.756	0.000	1587477	20.0	22.3	
* 4 n-Heptyl Alcohol						
3.062	3.062	0.000	4569781	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.817	3.817	0.000	120763	20.0	23.3	
6 Propylene glycol						
4.805	4.805	0.000	317747	20.0	16.5	
7 Ethylene glycol						
5.017	5.017	0.000	714347	20.0	17.2	
8 2-(2-Butoxyethoxy)ethanol						
6.649	6.649	0.000	1251241	20.0	22.7	
9 2,2'-Oxybisethanol						
8.817	8.817	0.000	60554	20.0	2.27	

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00049 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06047.D

Injection Date: 07-May-2023 15:19:25

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 47

Client ID:

Injection Vol: 1.0 ul

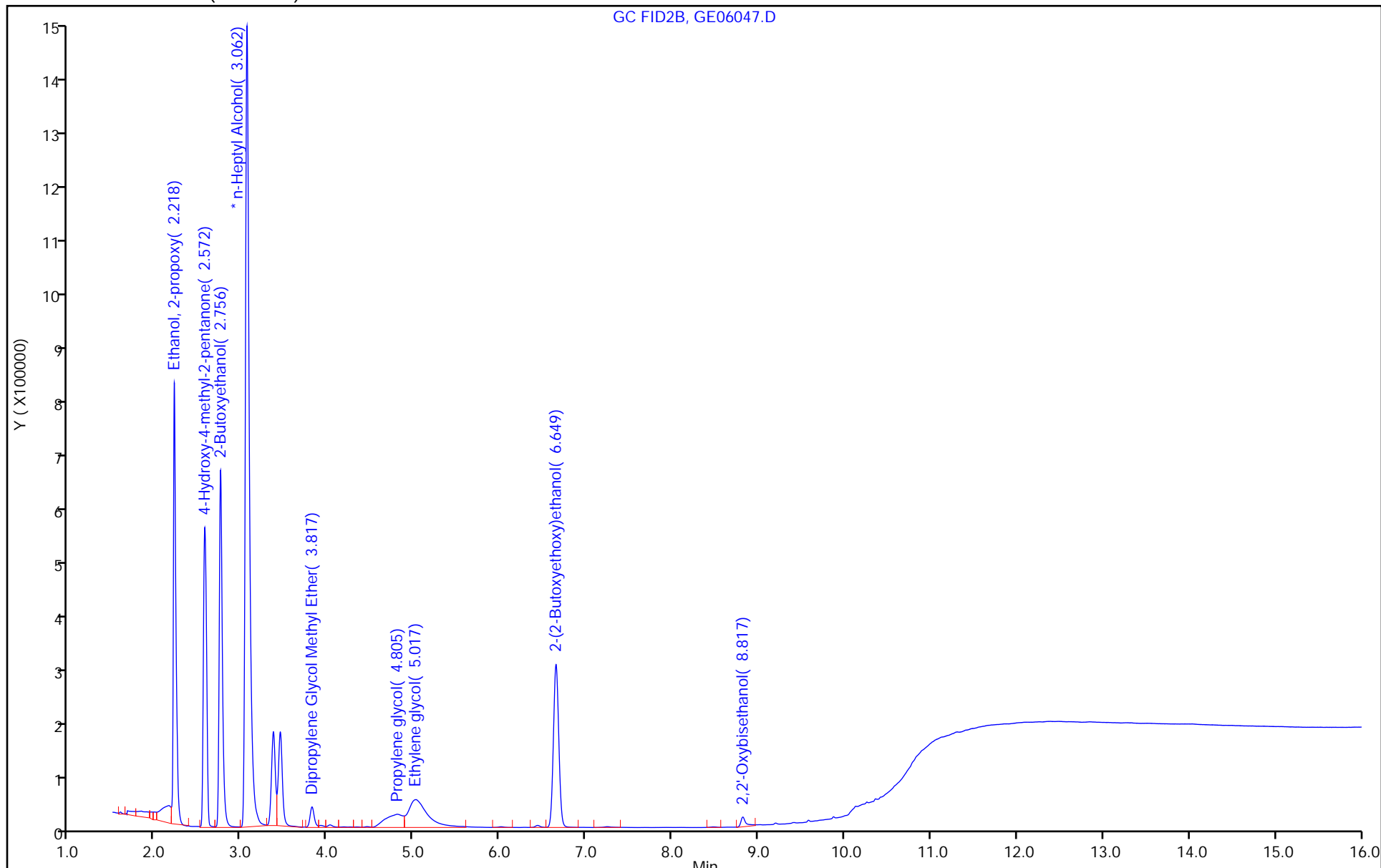
Dil. Factor: 1.0000

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.: 580-126798-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-777342/18
 Matrix: Water Lab File ID: GE06018.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 04:05
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 777342 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\20230506-85799.b\GE06018.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 07-May-2023 04:05:50 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-018
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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2 4-Hydroxy-4-methyl-2-pentanone						
2.612	2.579	0.033	1064		0.0154	7
LOD = 0.5000						
3 2-Butoxyethanol						
2.757	2.765	-0.008	9147		0.1108	7
LOD = 0.5000						
* 4 n-Heptyl Alcohol						
3.069	3.075	-0.006	5290059	50.0	50.0	
7 Ethylene glycol						
4.986	4.981	0.005	4298		0.0896	7
LOD = 0.6600						
9 2,2'-Oxybisethanol						
8.799	8.794	0.005	9969		0.3233	7
LOD = 1.60						
11 Tetraethylene Glycol						
10.905	10.894	0.011	29962		0.9512	7
LOD = 4.50						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06018.D

Injection Date: 07-May-2023 04:05:50

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

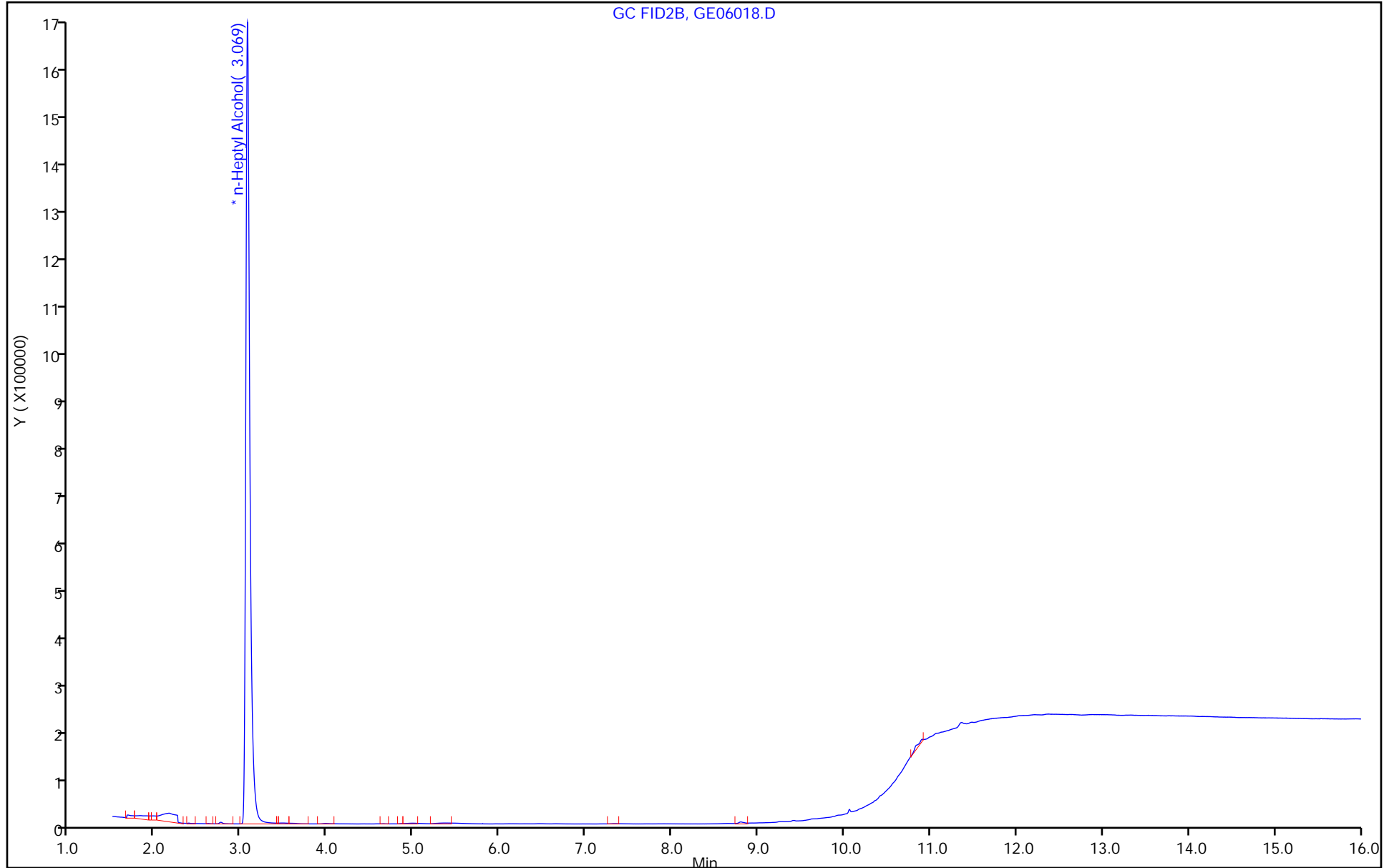
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GE06018.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-777342/12
 Matrix: Water Lab File ID: GE06012.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 01:46
 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.: 777342 Units: mg/L

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

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06012.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-May-2023 01:46:33 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-012
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 Ethanol, 2-propoxy	2.223	2.227	-0.004	1487106	20.0	21.9
2 4-Hydroxy-4-methyl-2-pentanone	2.574	2.579	-0.005	1256301	20.0	19.4
3 2-Butoxyethanol	2.761	2.765	-0.004	1584778	20.0	20.6
* 4 n-Heptyl Alcohol	3.074	3.075	-0.001	4939288	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.818	3.821	-0.003	106206	20.0	19.0
6 Propylene glycol	4.732	4.746	-0.014	396434	20.0	19.0
7 Ethylene glycol	4.978	4.981	-0.003	980507	20.0	21.9
8 2-(2-Butoxyethoxy)ethanol	6.651	6.653	-0.002	1137002	20.0	19.1
9 2,2'-Oxybisethanol	8.793	8.794	-0.001	581093	20.0	20.2
10 Triethylene Glycol	10.057	10.057	0.000	583914	20.0	20.9
11 Tetraethylene Glycol	10.893	10.894	-0.001	1668676	40.0	56.7

Reagents:

SG_Gly_CAL_00049 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06012.D

Injection Date: 07-May-2023 01:46:33

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

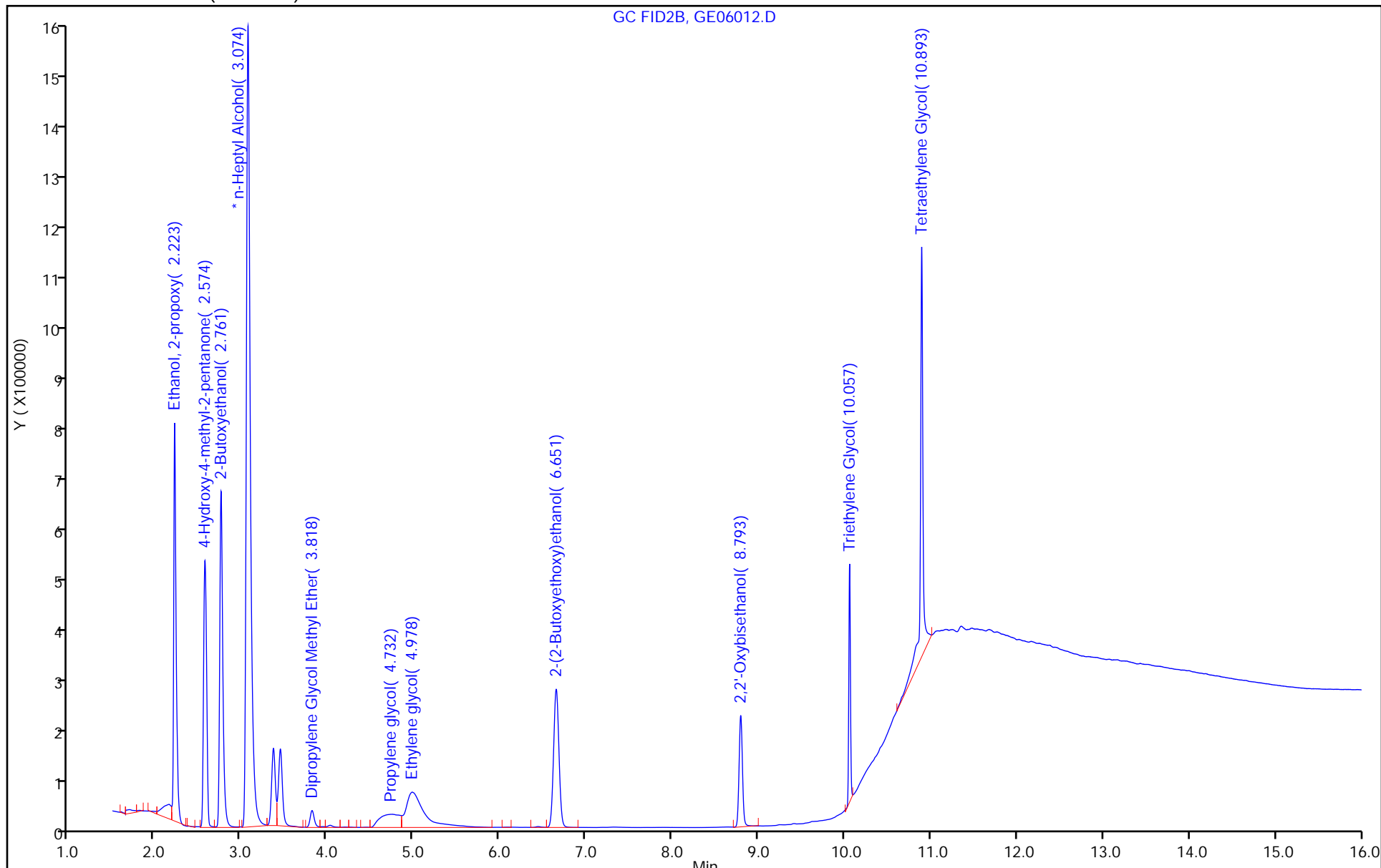
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-126798-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-777342/13
 Matrix: Water Lab File ID: GE06013.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/07/2023 02:09
 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.: 777342 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.3		5.0	3.0	1.1

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06013.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 07-May-2023 02:09:52 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-013
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 07-May-2023 14:37:46 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1606

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

1 Ethanol, 2-propoxy	2.223	2.227	-0.004	1569119	20.0	23.3
2 4-Hydroxy-4-methyl-2-pentanone	2.577	2.579	-0.002	1333628	20.0	20.7
3 2-Butoxyethanol	2.760	2.765	-0.005	1623964	20.0	21.2
* 4 n-Heptyl Alcohol	3.069	3.075	-0.006	4919768	50.0	50.0
5 Dipropylene Glycol Methyl Ether	3.819	3.821	-0.002	109580	20.0	19.7
6 Propylene glycol	4.745	4.746	-0.001	320968	20.0	15.5
7 Ethylene glycol	4.988	4.981	0.007	771370	20.0	17.3
8 2-(2-Butoxyethoxy)ethanol	6.652	6.653	-0.001	1144407	20.0	19.3
9 2,2'-Oxybisethanol	8.793	8.794	-0.001	456411	20.0	15.9
10 Triethylene Glycol	10.057	10.057	0.000	480727	20.0	17.3
11 Tetraethylene Glycol	10.894	10.894	0.000	1079515	40.0	36.9

Reagents:

SG_Gly_CAL_00049 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06013.D

Injection Date: 07-May-2023 02:09:52

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

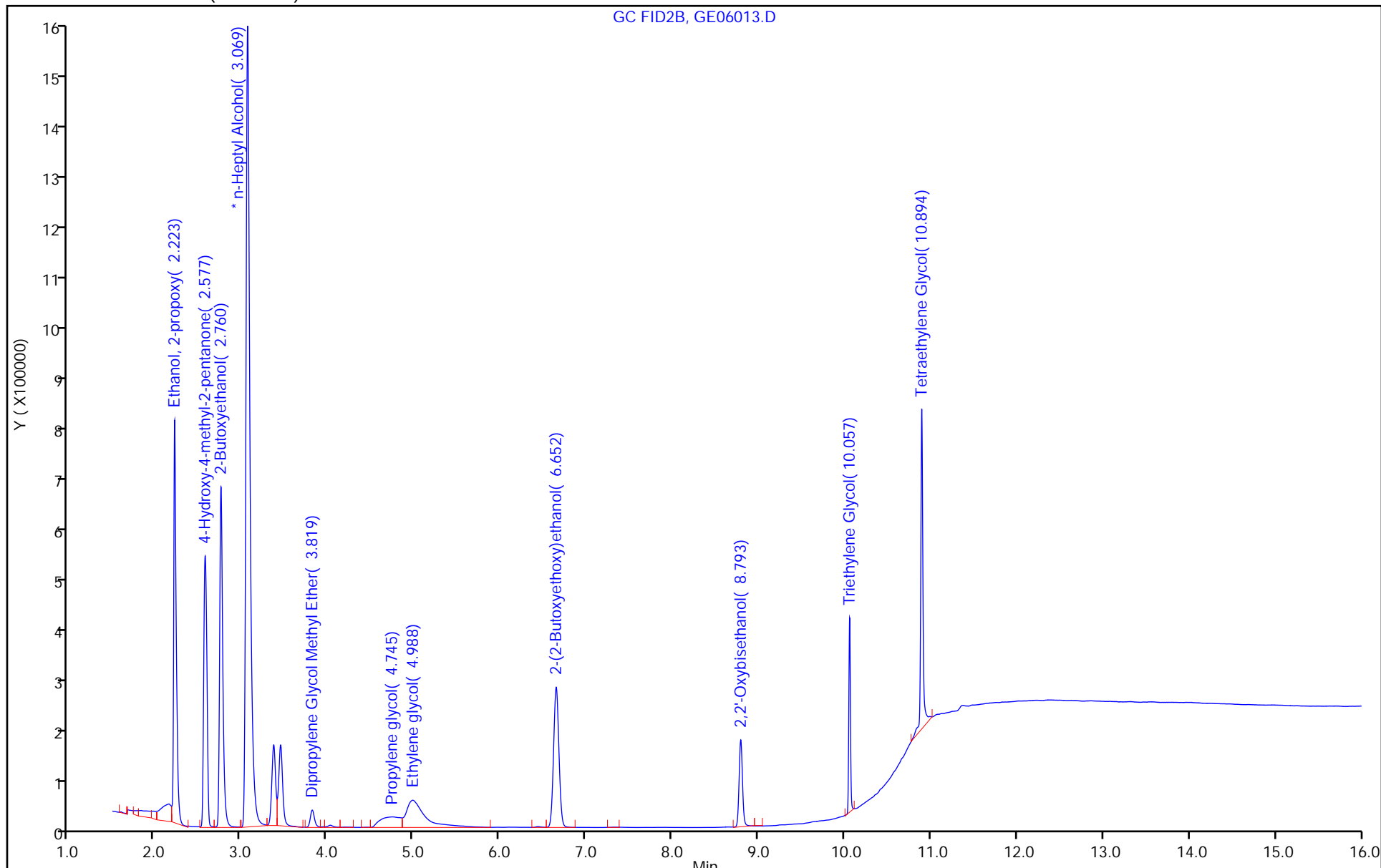
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06035.D
 Lims ID: 580-126798-B-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 07-May-2023 10:40:35 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-035
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 10-May-2023 13:09:08 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1620

First Level Reviewer: SK9U Date: 10-May-2023 13:10:19

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.221	2.215	0.006	1732897	20.0	23.6	
2 4-Hydroxy-4-methyl-2-pentanone						
2.576	2.567	0.009	1476300	20.0	20.9	
3 2-Butoxyethanol						
2.760	2.754	0.006	1823854	20.0	21.7	
* 4 n-Heptyl Alcohol						
3.068	3.064	0.004	5386186	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.820	3.811	0.009	123500	20.0	20.2	
6 Propylene glycol						
4.762	4.795	-0.033	321683	20.0	14.2	
7 Ethylene glycol						
4.976	5.021	-0.045	1019371	20.0	20.9	
8 2-(2-Butoxyethoxy)ethanol						
6.650	6.649	0.001	1188461	20.0	18.3	
9 2,2'-Oxybisethanol						
8.792	8.813	-0.021	872284	20.0	27.8	
10 Triethylene Glycol						
10.054	10.057	-0.003	680266	20.0	22.3	
11 Tetraethylene Glycol						
10.888	10.894	-0.006	1240173	40.0	38.7	

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06035.D

Injection Date: 07-May-2023 10:40:35

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-B-1 MS

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

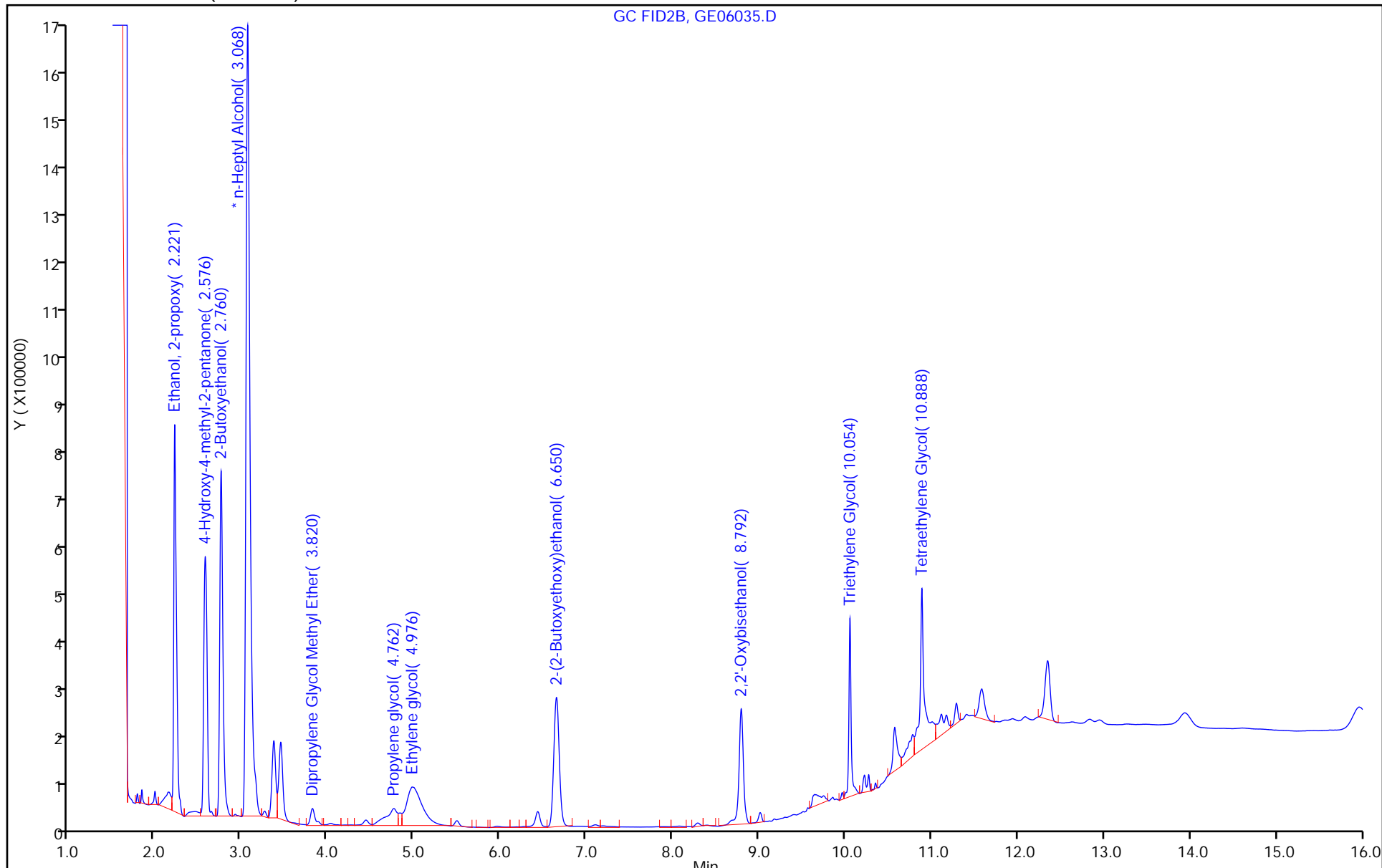
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06036.D
 Lims ID: 580-126798-B-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 07-May-2023 11:03:48 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085799-036
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 10-May-2023 13:09:08 Calib Date: 07-May-2023 01:00:13
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06010.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1620

First Level Reviewer: SK9U Date: 10-May-2023 13:11:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
2.223	2.215	0.008	1579489	20.0	21.3	
2 4-Hydroxy-4-methyl-2-pentanone						
2.574	2.567	0.007	1404845	20.0	19.9	
3 2-Butoxyethanol						
2.760	2.754	0.006	1675341	20.0	19.9	
* 4 n-Heptyl Alcohol						
3.073	3.064	0.009	5396360	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
3.817	3.811	0.006	132595	20.0	21.7	
6 Propylene glycol						
4.762	4.795	-0.033	493199	20.0	21.7	
7 Ethylene glycol						
4.984	5.021	-0.037	1591171	20.0	32.5	
8 2-(2-Butoxyethoxy)ethanol						
6.651	6.649	0.002	1320771	20.0	20.3	
9 2,2'-Oxybisethanol						
8.797	8.813	-0.016	1346363	20.0	42.8	
10 Triethylene Glycol						
10.054	10.057	-0.003	1080528	20.0	35.4	
11 Tetraethylene Glycol						
10.888	10.894	-0.006	1822449	40.0	56.7	

QC Flag Legend

Processing Flags

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230506-85799.b\GE06036.D

Injection Date: 07-May-2023 11:03:48

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126798-B-1 MSD

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

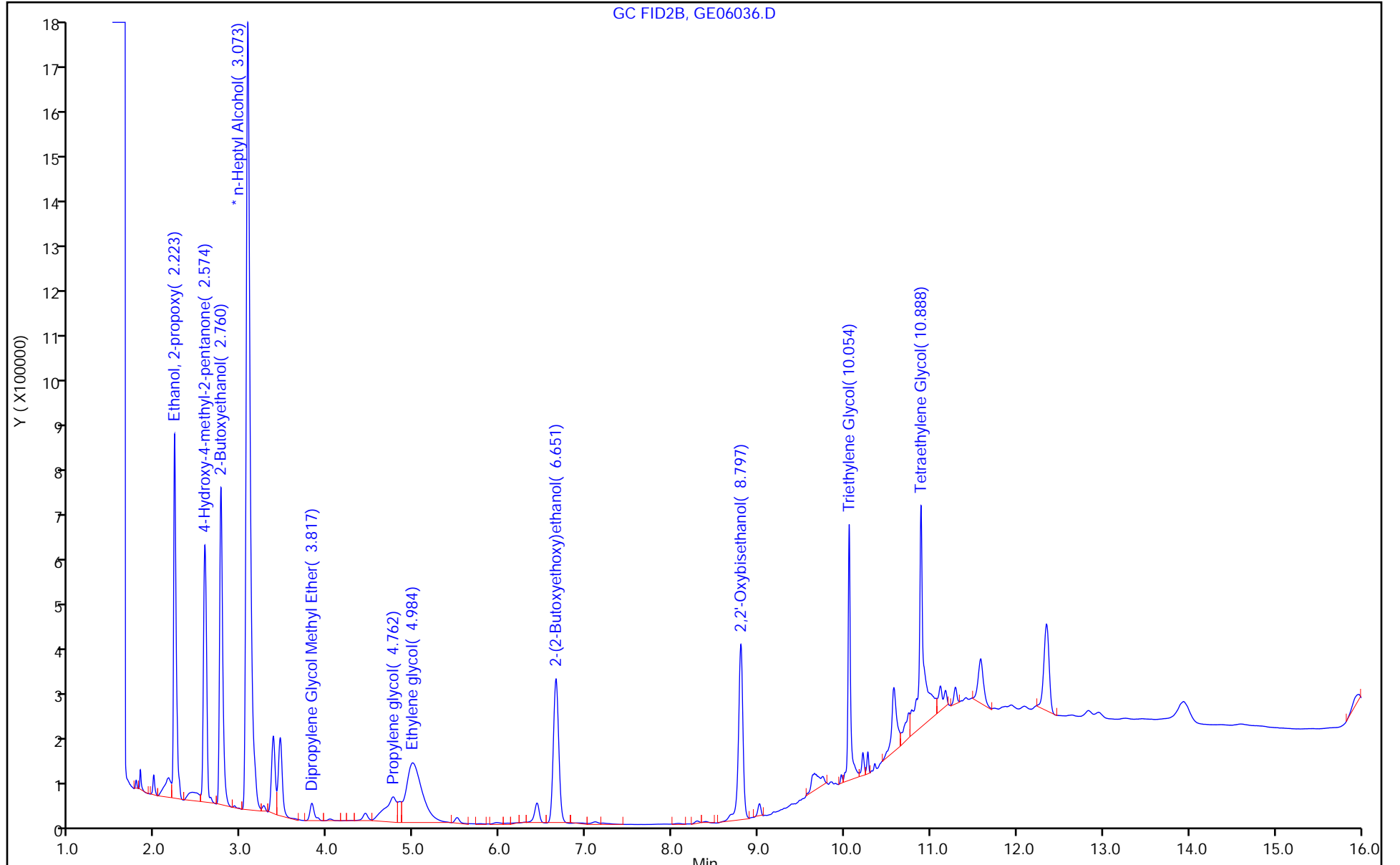
Dil. Factor: 1.0000

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.: 580-126798-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 05/06/2023 22:40

Analysis Batch Number: 777342 End Date: 05/07/2023 17:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-777342/4		05/06/2023 22:40	1	GE06004.D	J&W DB WAX 0.45 (mm)
IC 680-777342/5		05/06/2023 23:04	1	GE06005.D	J&W DB WAX 0.45 (mm)
IC 680-777342/6		05/06/2023 23:27	1	GE06006.D	J&W DB WAX 0.45 (mm)
ICIS 680-777342/7		05/06/2023 23:50	1	GE06007.D	J&W DB WAX 0.45 (mm)
IC 680-777342/8		05/07/2023 00:13	1	GE06008.D	J&W DB WAX 0.45 (mm)
IC 680-777342/9		05/07/2023 00:36	1	GE06009.D	J&W DB WAX 0.45 (mm)
IC 680-777342/10		05/07/2023 01:00	1	GE06010.D	J&W DB WAX 0.45 (mm)
ICV 680-777342/11 CCV		05/07/2023 01:23	1	GE06011.D	J&W DB WAX 0.45 (mm)
LCS 680-777342/12		05/07/2023 01:46	1	GE06012.D	J&W DB WAX 0.45 (mm)
LCSD 680-777342/13		05/07/2023 02:09	1	GE06013.D	J&W DB WAX 0.45 (mm)
MB 680-777342/18		05/07/2023 04:05	1	GE06018.D	J&W DB WAX 0.45 (mm)
CCV 680-777342/31		05/07/2023 09:07	1	GE06031.D	J&W DB WAX 0.45 (mm)
580-126798-1	AF-RHMW17S-WGN01LF-23 04W4	05/07/2023 10:17	1	GE06034.D	J&W DB WAX 0.45 (mm)
580-126798-1 MS	AF-RHMW17S-WGN01LF-23 04W4 MS	05/07/2023 10:40	1	GE06035.D	J&W DB WAX 0.45 (mm)
580-126798-1 MSD	AF-RHMW17S-WGN01LF-23 04W4 MSD	05/07/2023 11:03	1	GE06036.D	J&W DB WAX 0.45 (mm)
580-126798-2	AF-RHMW17S-WQEB01-230 4W4	05/07/2023 11:27	1	GE06037.D	J&W DB WAX 0.45 (mm)
580-126798-3	AF-RHMW17D-WGN01LF-23 04W4	05/07/2023 11:50	1	GE06038.D	J&W DB WAX 0.45 (mm)
580-126798-4	AF-RHMW17D-WQFB01-230 4W4	05/07/2023 12:13	1	GE06039.D	J&W DB WAX 0.45 (mm)
580-126798-5	AF-RHMW17-WGN01LF-230 4W4	05/07/2023 12:36	1	GE06040.D	J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 13:00	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 13:23	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 13:46	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 14:09	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 14:32	1		J&W DB WAX 0.45 (mm)
CCV 680-777342/47		05/07/2023 15:19	1	GE06047.D	J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 16:29	1		J&W DB WAX 0.45 (mm)
ZZZZZ		05/07/2023 16:52	1		J&W DB WAX 0.45 (mm)
CCV 680-777342/54		05/07/2023 17:39	1		J&W DB WAX 0.45 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Batch Number: 777342 Batch Start Date: 05/06/23 22:40 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 00049	SG_GLY_ISTD 00116	SG_GlyICV 00057		
IC 680-777342/4		8015C GLY		1 mL	50 uL	10 uL			
IC 680-777342/5		8015C GLY		1 mL	40 uL	10 uL			
IC 680-777342/6		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-777342/7		8015C GLY		1 mL	10 uL	10 uL			
IC 680-777342/8		8015C GLY		1 mL	5 uL	10 uL			
IC 680-777342/9		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-777342/10		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-777342/11 CCV		8015C GLY		1 mL		10 uL	10 uL		
LCS 680-777342/12		8015C GLY		1 mL	10 uL	10 uL			
LCSD 680-777342/13		8015C GLY		1 mL	10 uL	10 uL			
MB 680-777342/18		8015C GLY		1 mL		10 uL			
CCV 680-777342/31		8015C GLY		1 mL	10 uL	10 uL			
580-126798-B-1	AF-RHMW17S-WGN01 LF-2304W4	8015C GLY	T	1 mL		10 uL			
580-126798-B-1	AF-RHMW17S-WGN01 LF-2304W4	8015C GLY	T	1 mL	10 uL	10 uL			
580-126798-B-1	AF-RHMW17S-WGN01 LF-2304W4	8015C GLY	T	1 mL	10 uL	10 uL			
580-126798-A-2	AF-RHMW17S-WQEB0 1-2304W4	8015C GLY	T	1 mL		10 uL			
580-126798-B-3	AF-RHMW17D-WGN01 LF-2304W4	8015C GLY	T	1 mL		10 uL			
580-126798-B-4	AF-RHMW17D-WQFB0 1-2304W4	8015C GLY	T	1 mL		10 uL			
580-126798-A-5	AF-RHMW17-WGN01L E-2304W4	8015C GLY	T	1 mL		10 uL			
CCV 680-777342/47		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-126798-1

SDG No.: _____

Batch Number: 777342 Batch Start Date: 05/06/23 22:40 Batch Analyst: Meincke, Griffin E

Batch Method: 8015C GLY Batch End Date: _____

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

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126798-1

Login Number: 126798
List Number: 2
Creator: Drake, Victoria

List Source: Eurofins Savannah
List Creation: 05/05/23 11:37 AM

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