eurofins

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu HI 96813
Generated 2/16/2023 9:10 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123424-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

Page 1 of 147

my EOL

Eurofins Seattle

Job Notes

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

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

Authorization

M. Elaine Walker

Generated
2/16/2023 9:10 AM

Authorized for release by
Marie E Walker, Senior Project Manager
M.Elaine.Walker@et.eurofinsus.com
253 248-4972

Table of Contents

2/16/2023 9:10
AM

Table of Contents

Definitions/Glossary

Qualifiers

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 580-123424-1

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
Three samples were received on 2/11/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4º C.

Sample AF-RHMW225401-WGN01LF-2302W1 (580-123424-3) was cancelled per client request via email on February 16, 2023.

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-RHMW04-WGN01LF-2302W1 (580-123424-1) and AF-RHMW06-WGN01LF-2302W1 (580-123424-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/14/2023.

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

Detection Summary

Client Sample ID: AF-RHMW04-WGN01LF-2302W1   Lab Sample ID: 580-123424-1

No Detections.

Client Sample ID: AF-RHMW06-WGN01LF-2302W1   Lab Sample ID: 580-123424-2

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 580-123424-1

Client Sample ID: AF-RHMW04-WGN01LF-2302W1
Date Collected: 02/09/23 10:55
Date Received: 02/11/23 10:30

Lab Sample ID: 580-123424-1
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/14/23 17:11	1

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
Date Collected: 02/09/23 12:05
Date Received: 02/11/23 10:30

Lab Sample ID: 580-123424-2
Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/14/23 17:35	1

Default Detection Limits

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

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

Lab Sample ID: MB 680-763353/10
Matrix: Water
Analysis Batch: 763353

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			02/14/23 16:48	1

Lab Sample ID: LCS 680-763353/1006
Matrix: Water
Analysis Batch: 763353

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	18.8		mg/L		94	50 - 150

Lab Sample ID: LCSD 680-763353/7
Matrix: Water
Analysis Batch: 763353

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	19.9		mg/L		99	50 - 150	6	50

Lab Sample ID: 580-123424-2 MS
Matrix: Water
Analysis Batch: 763353

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	21.2		mg/L		106	50 - 150

Lab Sample ID: 580-123424-2 MSD
Matrix: Water
Analysis Batch: 763353

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	18.1		mg/L		90	50 - 150	16	50

QC Association Summary

GC Semi VOA

Analysis Batch: 763353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-123424-1	AF-RHMW04-WGN01LF-2302W1	Total/NA	Water	8015C GLY	
580-123424-2	AF-RHMW06-WGN01LF-2302W1	Total/NA	Water	8015C GLY	
MB 680-763353/10	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-763353/1006	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-763353/7	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-123424-2 MS	AF-RHMW06-WGN01LF-2302W1	Total/NA	Water	8015C GLY	
580-123424-2 MSD	AF-RHMW06-WGN01LF-2302W1	Total/NA	Water	8015C GLY	

Lab Chronicle

Client Sample ID: AF-RHMW04-WGN01LF-2302W1
Lab Sample ID: 580-123424-1

Date Collected: 02/09/23 10:55
Matrix: Water
Date Received: 02/11/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	763353	GEM	EET SAV	02/14/23 17:11

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
Lab Sample ID: 580-123424-2

Date Collected: 02/09/23 12:05
Matrix: Water
Date Received: 02/11/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	763353	GEM	EET SAV	02/14/23 17:35

Laboratory References:

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

Accreditation/Certification Summary

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123424-1	AF-RHMW04-WGN01LF-2302W1	Water	02/09/23 10:55	02/11/23 10:30
580-123424-2	AF-RHMW06-WGN01LF-2302W1	Water	02/09/23 12:05	02/11/23 10:30

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 761417

Lab Sample ID: IC 680-761417/2   Client Sample ID:

Date Analyzed: 01/31/23 16:10   Lab File ID: GA31009.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.61	Baseline Smoothing	SWK1	02/01/23 12:15

Lab Sample ID: ICIS 680-761417/5   Client Sample ID:

Date Analyzed: 01/31/23 17:20   Lab File ID: GA31012.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.60	Baseline Smoothing	SWK1	02/01/23 12:16

Lab Sample ID: IC 680-761417/6   Client Sample ID:

Date Analyzed: 01/31/23 17:43   Lab File ID: GA31013.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.60	Baseline Smoothing	SWK1	02/01/23 12:16
Ethylene glycol	6.85	Baseline Smoothing	SWK1	02/01/23 12:16

Lab Sample ID: IC 680-761417/7   Client Sample ID:

Date Analyzed: 01/31/23 18:07   Lab File ID: GA31014.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.60	Baseline Smoothing	SWK1	02/01/23 12:16
Ethylene glycol	6.85	Baseline Smoothing	SWK1	02/01/23 12:16

8015C GLY

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 761417

Lab Sample ID: IC 680-761417/8   Client Sample ID:

Date Analyzed: 01/31/23 18:30   Lab File ID: GA31015.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.61	Baseline Smoothing	SWK1	02/01/23 12:17
Ethylene glycol	6.87	Baseline Smoothing	SWK1	02/01/23 12:17

8015C GLY

2/16/2023 9:10 AM

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 763353

Lab Sample ID: CCVIS 680-763353/6   Client Sample ID:

Date Analyzed: 02/14/23 15:15   Lab File ID: GB14006.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	4.01	Baseline Smoothing	SK9U	02/14/23 15:51
Dipropylene Glycol Methyl Ether	5.43	Baseline Smoothing	SK9U	02/14/23 15:51
Propylene glycol	6.58	Baseline Smoothing	SK9U	02/14/23 15:51

Lab Sample ID: 580-123424-1   Client Sample ID: AF-RHMW04-WGN01LF-2302W1

Date Analyzed: 02/14/23 17:11   Lab File ID: GB14011.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SK9U	02/14/23 20:26

Lab Sample ID: 580-123424-2   Client Sample ID: AF-RHMW06-WGN01LF-2302W1

Date Analyzed: 02/14/23 17:35   Lab File ID: GB14012.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SK9U	02/14/23 20:26

Lab Sample ID: 580-123424-2 MS   Client Sample ID:

Date Analyzed: 02/14/23 17:58   Lab File ID: GB14013.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptyl Alcohol	4.47	Baseline Smoothing	SK9U	02/14/23 20:27

Lab Sample ID: 580-123424-2 MSD   Client Sample ID:

Date Analyzed: 02/14/23 18:22   Lab File ID: GB14014.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptyl Alcohol	4.48	Baseline Smoothing	SK9U	02/14/23 20:27

8015C GLY

2/16/2023 9:10 AM

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 763353

Lab Sample ID: CCV 680-763353/18   Client Sample ID:

Date Analyzed: 02/14/23 19:55   Lab File ID: GB14018.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol, 2-propoxy	3.10	Baseline Smoothing	SK9U	02/14/23 20:24
4-Hydroxy-4-methyl-2-pentanone	3.69	Baseline Smoothing	SK9U	02/14/23 20:25
2-Butoxyethanol	4.00	Baseline Smoothing	SK9U	02/14/23 20:25
Dipropylene Glycol Methyl Ether	5.43	Baseline Smoothing	SK9U	02/14/23 20:25
Propylene glycol	6.59	Baseline Smoothing	SK9U	02/14/23 20:25
Ethylene glycol	6.83	Baseline Smoothing	SK9U	02/14/23 20:25

8015C GLY

Lab Name: Eurofins Savannah _____ Job No.: 580-123424-1 _____

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Volume Added	Analyte	Concentration
SG_Gly_CAL_00052	06/30/23		o2si, Lot 480919		(Purchased Reagent)		2,2'-Oxybisethanol	2000 ug/mL
							2-(2-Butoxyethoxy)ethanol	2000 ug/mL
							2-Butoxyethanol	2000 ug/mL
							4-Hydroxy-4-methyl-2-pentanone	2000 ug/mL
							Dipropylene Glycol Methyl Ether	2000 ug/mL
							Ethanol, 2-propoxy	2000 ug/mL
							Ethylene glycol	2000 ug/mL
							Propylene glycol	2000 ug/mL
							Tetraethylene Glycol	4000 ug/mL
							Triethylene Glycol	2000 ug/mL
SG_GLY_ISTD_00105	07/11/23		Agilent, Lot 0006720623		(Purchased Reagent)		n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00052	06/30/23		o2si, Lot 454407		(Purchased Reagent)		2-(2-Butoxyethoxy)ethanol	2000 ug/mL

2/16/2023 9:10 AM

Reagent

SG_Gly_CAL_00052

o2si
smart solutions®

Certificate of Analysis

Rev 0

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:

2/16/2023 9:10 AM

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
$u_c = (u_{char}^2 + u_{tran}^2 + u_{homo}^2 + u_{lts}^2)^{1/2}$ 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:	**Certified By:**	**Released By:**
Brian Stokes	*Tyler Sherman*	*Susan Mathews*
Brian Stokes	Tyler Sherman	Susan Mathews
3 -May-2022	14 -Jun-2022	14 -Jun-2022
Production Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

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

2/16/2023 9:10 AM

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:	Certified By:	Released By:
Brian Stokes	*signature*	*Susan M*
Brian Stokes	Tyler Sherman	Susan Mathews
3 -May-2022	14 -Jun-2022	14 -Jun-2022
Production Chemist I	**Quality Control Chemist I**	**Quality Control Team Lead**

7290B Investment Drive • North Charleston, SC 29418
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2/16/2023 9:10 AM

Reagent

SG_GLY_ISTD_00105

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard

Product Number: CUS-6046

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

Lot Number: 0006720623

Lot Issue Date: 15-Dec-2022

Expiration Date: 31-Jan-2025

Component Name	CERTIFIED VALUES				
	Concentration	Expanded Uncertainty		CAS#	Analyte Lot
n-heptanol	5001	±	25 µg/mL	000111-70-6	RM04540

Matrix: methanol (methyl alcohol)

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

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

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

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

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

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

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

Page: 1 of 2

CSD-QA-015.1

ISO 17025

2/16/2023 9:10 AM

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

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

2/16/2023 9:10
AM

Reagent

SG_GlyICV_00052

Certificate of Analysis

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

ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

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:

2/16/2023 9:10 AM

Certificate of Analysis

Catalog No. G34-120070-04-SS   Lot No. 454407   Expiration Date 1 -Jul-2023

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

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

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

Method of Preparation:

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

Packaging and Storage:

The solution should be stored according to the following storage requirements: $\le$ -10 °C
Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

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

Weights and Balance Calibration:

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

Homogeneity:

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

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

The following equations are used to calculate the value of the expanded uncertainty:
$u = ku_c$ u = Expanded Uncertainty, k = the coverage factor at the 95% confidence level, k = 2, u_c = the combined uncertainty
$u_c = (u_{char}^2 + u_{tran}^2 + u_{homo}^2 + u_{lts}^2)^{1/2}$ 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:	Certified By:	Released By:
Jared Ball	Claire Desrochers	Susan Mathews
1 -Jul-2021	7 -Jul-2021	8 -Jul-2021
Production Chemist I	Quality Control Chemist I	Quality Control Team Lead

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

2/16/2023 9:10 AM

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:	**Certified By:**	**Released By:**
JBall	*C. Desroche*	*Susan Mat*
Jared Ball	Claire Desrochers	Susan Mathews
1 -Jul-2021	7 -Jul-2021	8 -Jul-2021
Production Chemist I	**Quality Control Chemist I**	**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

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: -GB14006-LCS.d

Lab ID: LCS 680-763353/1006   Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	18.8	94	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB14007.D

Lab ID: LCSD 680-763353/7   Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	19.9	99	6	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

2/16/2023 9:10 AM

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB14013.D

Lab ID: 580-123424-2 MS   Client ID: AF-RHMW06-WGN01LF-2302W1 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	21.2	106	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB14014.D

Lab ID: 580-123424-2 MSD   Client ID: AF-RHMW06-WGN01LF-2302W1 MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	18.1	90	16	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Lab Sample ID: MB 680-763353/10

Matrix: Water   Date Extracted:

Lab File ID:(1) GB14010.D   Lab File ID:(2)

Date Analyzed:(1) 02/14/2023 16:48   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 680-763353/1006	02/14/2023 15:15	
	LCSD 680-763353/7	02/14/2023 15:38	
AF-RHMW04-WGN01LF-2302W1	580-123424-1	02/14/2023 17:11	
AF-RHMW06-WGN01LF-2302W1	580-123424-2	02/14/2023 17:35	
AF-RHMW06-WGN01LF-2302W1 MS	580-123424-2 MS	02/14/2023 17:58	
AF-RHMW06-WGN01LF-2302W1 MSD	580-123424-2 MSD	02/14/2023 18:22	

FORM IV 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Sample No.: CCVIS 680-763353/6   Date Analyzed: 02/14/2023 15:15

Instrument ID: CVGG2   GC Column: J&W DB WAX   ID: 0.45(mm)

Lab File ID (Standard): GB14006.D   Heated Purge: (Y/N) N

Calibration ID: 89543

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		5122655	4.49				
UPPER LIMIT		10245310	4.99				
LOWER LIMIT		2561328	3.99				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 680-763353/1006		5122655	4.49				
LCSD 680-763353/7		5171220	4.48				
MB 680-763353/10		5455712	4.48				
580-123424-1	AF-RHMW04-WGN01LF-2 302W1	5683486	4.48				
580-123424-2	AF-RHMW06-WGN01LF-2 302W1	5252887	4.47				
580-123424-2 MS	AF-RHMW06-WGN01LF-2 302W1 MS	5415012	4.47				
580-123424-2 MSD	AF-RHMW06-WGN01LF-2 302W1 MSD	5412704	4.48				
CCV 680-763353/18		5518735	4.48				

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.: 580-123424-1

SDG No.:

Client Sample ID: AF-RHMW04-WGN01LF-2302W1   Lab Sample ID: 580-123424-1

Matrix: Water   Lab File ID: GB14011.D

Analysis Method: 8015C GLY   Date Collected: 02/09/2023 10:55

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 17:11

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.: 763353   Units: mg/L

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

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14011.D
Lims ID: 580-123424-A-1
Client ID: AF-RHMW04-WGN01LF-2302W1
Sample Type: Client
Inject. Date: 14-Feb-2023 17:11:44   ALS Bottle#:   0   Worklist Smp#:   11
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083839-011
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 14-Feb-2023 20:26:24   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1629

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:26:24

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

* 4 n-Heptyl Alcohol

| 4.478 | 4.476 | 0.002 | 5683486 | 50.0 | |

Reagents:

SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14011.D
Injection Date: 14-Feb-2023 17:11:44   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123424-A-1   Lab Sample ID: 680-123424-1   Worklist Smp#:   11
Client ID: AF-RHMW04-WGN01LF-2302W1
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, GB14011.D

2/16/2023 9:10 AM
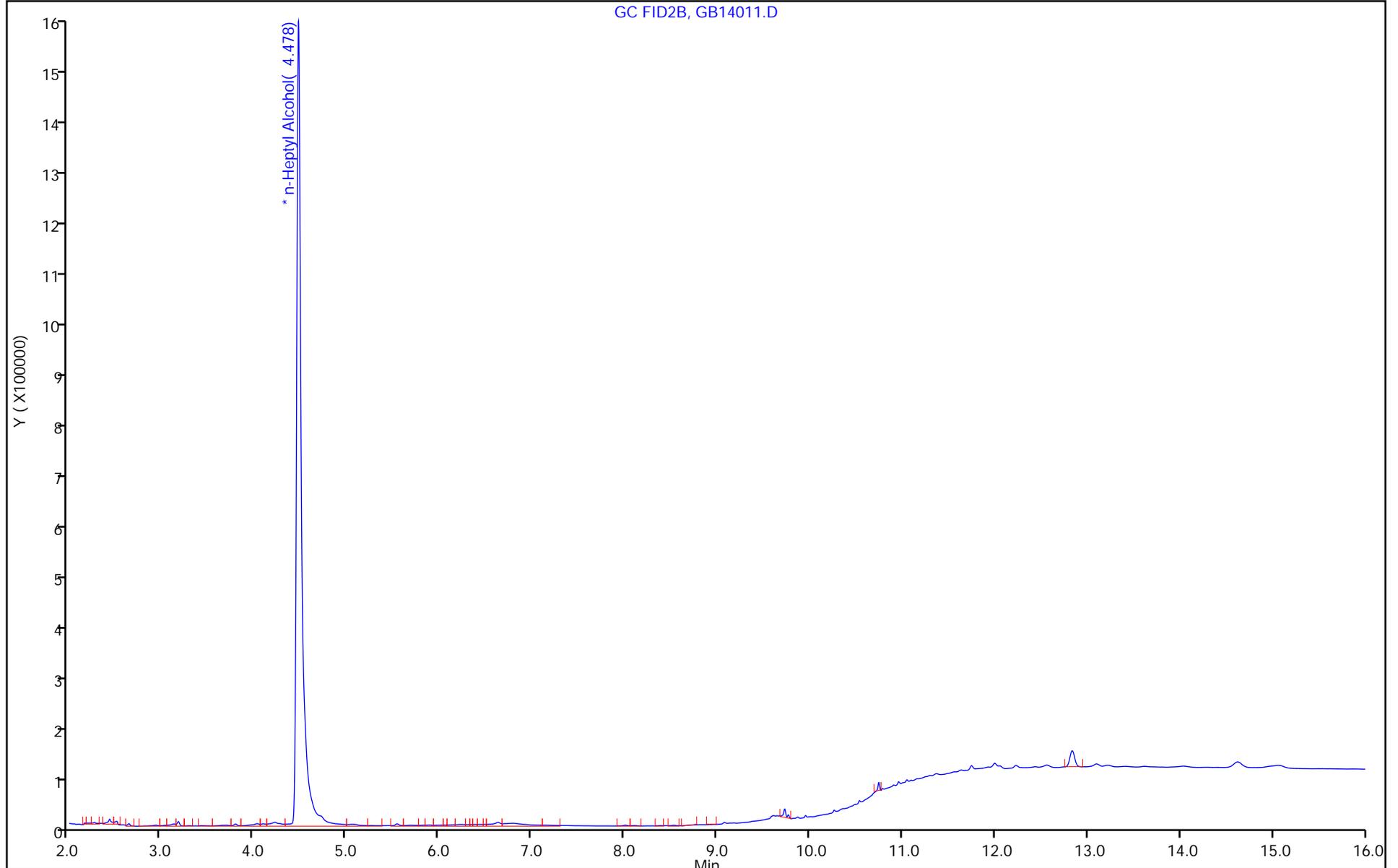
FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1
SDG No.:
Client Sample ID: AF-RHMW06-WGN01LF-2302W1   Lab Sample ID: 580-123424-2
Matrix: Water   Lab File ID: GB14012.D
Analysis Method: 8015C GLY   Date Collected: 02/09/2023 12:05
Extraction Method: Date Extracted:
Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 17:35
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.: 763353   Units: mg/L

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

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14012.D	
Lims ID:	580-123424-A-2	
Client ID:	AF-RHMW06-WGN01LF-2302W1	
Sample Type:	Client	

Inject. Date:	14-Feb-2023 17:35:01	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083839-012				
Operator ID:		Instrument ID:	CVGG2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	14-Feb-2023 20:26:53	Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D		

Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B
Process Host:	CTX1629		

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:26:53

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
4.474	4.476	-0.002	5252887	50.0	
10 Triethylene Glycol					7
10.746	10.748	-0.002	8144	-1.39	7
LOD =	1.40				

QC Flag Legend
Processing Flags
 7 - Failed Limit of Detection
Reagents:
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14012.D
Injection Date: 14-Feb-2023 17:35:01   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123424-A-2   Lab Sample ID: 680-123424-2   Worklist Smp#:   12
Client ID: AF-RHMW06-WGN01LF-2302W1
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, GB14012.D

2/16/2023 9:10
AM

Lab Name: Eurofins Savannah   Job No.: 580-123424-1   Analy Batch No.: 761417

SDG No.:

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

Calibration Start Date: 01/31/2023 16:10   Calibration End Date: 01/31/2023 18:30   Calibration ID: 89543

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-761417/8	GA31015.D
Level 2	IC 680-761417/7	GA31014.D
Level 3	IC 680-761417/6	GA31013.D
Level 4	ICIS 680-761417/5	GA31012.D
Level 5	IC 680-761417/4	GA31011.D
Level 6	IC 680-761417/3	GA31010.D
Level 7	IC 680-761417/2	GA31009.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	1.4382 +++++ 0.5582	0.9582	0.9173	0.7700	0.6300	Qua	1.9703	0.6650	-0.001274						0.9990		0.9900
4-Hydroxy-4-methyl-2-pentanone	1.4283 +++++ 0.5383	0.8880	0.8535	0.7424	0.5919	Qua	1.9833	0.6140	-0.000967						0.9990		0.9900
2-Butoxyethanol	1.5807 +++++ 0.6151	1.0832	1.0099	0.8770	0.6937	Qua	2.2671	0.7374	-0.001464						0.9990		0.9900
Dipropylene Glycol Methyl Ether	0.1078 +++++ 0.0432	0.0692	0.0616	0.0535	0.0452	Lin2	0.1271	0.0448							0.9950		0.9900
Propylene glycol	0.4019 +++++ 0.1712	0.3191	0.2047	0.1598	0.1777	Qua	0.4914	0.1582	0.0000862						0.9980		0.9900
Ethylene glycol	1.1726 +++++ 0.3726	0.8064	0.4948	0.3998	0.4021	Qua	1.5785	0.3634	-0.000056						0.9980		0.9900
2-(2-Butoxyethoxy)ethanol	1.2656 +++++ 0.4776	0.7973	0.6815	0.6023	0.4981	Lin2	1.5599	0.4916							0.9950		0.9900
2,2'-Oxybisethanol	0.5099 +++++ 0.2438	0.4520	0.2629	0.2248	0.2586	Qua	0.4836	0.2390	0.0000057						0.9970		0.9900
Triethylene Glycol	0.4321 +++++ 0.2392	0.4323	0.2469	0.2299	0.2511	Qua	0.4070	0.2365	-0.000007						0.9980		0.9900
Tetraethylene Glycol	0.4762 +++++ 0.2488	0.4518	0.2619	0.2396	0.2616	Qua	0.9240	0.2453	-0.000002						0.9980		0.9900

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

Lab Name: Eurofins Savannah   Job No.: 580-123424-1   Analy Batch No.: 761417

SDG No.: _____

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

Calibration Start Date: 01/31/2023 16:10   Calibration End Date: 01/31/2023 18:30   Calibration ID: 89543

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-761417/8	GA31015.D
Level 2	IC 680-761417/7	GA31014.D
Level 3	IC 680-761417/6	GA31013.D
Level 4	ICIS 680-761417/5	GA31012.D
Level 5	IC 680-761417/4	GA31011.D
Level 6	IC 680-761417/3	GA31010.D
Level 7	IC 680-761417/2	GA31009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethanol, 2-propoxy	nHPA	Qua	217199 +++++	395229 4966455	747201	1481144	2998970	2.00 +++++	5.00 100	10.0	20.0	50.0
4-Hydroxy-4-methyl-2-pentanone	nHPA	Qua	215694 +++++	366266 4789015	695234	1428079	2817730	2.00 +++++	5.00 100	10.0	20.0	50.0
2-Butoxyethanol	nHPA	Qua	238714 +++++	446752 5472021	822590	1687009	3302160	2.00 +++++	5.00 100	10.0	20.0	50.0
Dipropylene Glycol Methyl Ether	nHPA	Lin2	16283 +++++	28539 384460	50136	102970	215230	2.00 +++++	5.00 100	10.0	20.0	50.0
Propylene glycol	nHPA	Qua	60701 +++++	131630 1523404	166728	307358	845966	2.00 +++++	5.00 100	10.0	20.0	50.0
Ethylene glycol	nHPA	Qua	177078 +++++	332582 3315102	403080	768953	1914058	2.00 +++++	5.00 100	10.0	20.0	50.0
2-(2-Butoxyethoxy)ethanol	nHPA	Lin2	191136 +++++	328863 4248929	555129	1158542	2371277	2.00 +++++	5.00 100	10.0	20.0	50.0
2,2'-Oxybisethanol	nHPA	Qua	77003 +++++	186446 2169212	214186	432419	1231191	2.00 +++++	5.00 100	10.0	20.0	50.0
Triethylene Glycol	nHPA	Qua	65259 +++++	178287 2128032	201150	442202	1195495	2.00 +++++	5.00 100	10.0	20.0	50.0
Tetraethylene Glycol	nHPA	Qua	143818 +++++	372712 4427733	426730	921584	2490752	4.00 +++++	10.0 200	20.0	40.0	100

Curve Type Legend

Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VI 8015C GLY

2/16/2023 9:10 AM

Lab Name: Eurofins Savannah Job No.: 580-123424-1 Analy Batch No.: 761417

SDG No.: _____

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

Calibration Start Date: 01/31/2023 16:10 Calibration End Date: 01/31/2023 18:30 Calibration ID: 89543

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-761417/8	GA31015.D
Level 2	IC 680-761417/7	GA31014.D
Level 3	IC 680-761417/6	GA31013.D
Level 4	ICIS 680-761417/5	GA31012.D
Level 5	IC 680-761417/4	GA31011.D
Level 6	IC 680-761417/3	GA31010.D
Level 7	IC 680-761417/2	GA31009.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
Dipropylene Glycol Methyl Ether	-1.1 -6.3	-2.2	9.1	5.4	-4.7	+++++	20 20	20	20	20	20	
2-(2-Butoxyethoxy)ethanol	-1.2 -6.0	-1.3	6.9	6.6	-5.0	+++++	20 20	20	20	20	20	

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31009.D
Lims ID: ic g7
Client ID:

Sample Type:	IC	Calib Level:	7	
Inject. Date:	31-Jan-2023 16:10:20	ALS Bottle#:	0	Worklist Smp#: 2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Sample Info:	680-0083575-002			
Operator ID:		Instrument ID:	CVGG2	
Sublist:	chrom-8015_GLY_VGG*sub2			

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	01-Feb-2023 12:18:17	Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D		

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:15:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.106	3.115	-0.009	4966455	100.0	100.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.692	3.705	-0.013	4789015	100.0	100.3	
3 2-Butoxyethanol						
4.017	4.020	-0.003	5472021	100.0	100.3	
* 4 n-Heptyl Alcohol						
4.501	4.493	0.008	4448338	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.443	5.450	-0.007	384460	100.0	93.7	
6 Propylene glycol						M
6.605	6.602	0.003	1523404	100.0	99.7	M
7 Ethylene glycol						
6.844	6.859	-0.015	3315102	100.0	99.7	
8 2-(2-Butoxyethoxy)ethanol						
8.749	8.749	0.000	4248929	100.0	94.0	
9 2,2'-Oxybisethanol						
9.737	9.735	0.002	2169212	100.0	99.6	
10 Triethylene Glycol						
10.752	10.751	0.001	2128032	100.0	99.7	
11 Tetraethylene Glycol						
12.012	12.009	0.003	4427733	200.0	199.5	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 50.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31009.D

Injection Date:	31-Jan-2023 16:10:20	Instrument ID:	CVGG2	Operator ID:
Lims ID:	ic g7			Worklist Smp#: 2
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, GA31009.D

Peaks labeled:
- Ethanol, 2-propoxy(3.106)
- 4-Hydroxy-4-methyl-2-pentanone(3.692)
- 2-Butoxyethanol(4.017)
- *n-Heptyl Alcohol(4.501)
- Dipropylene Glycol Methyl Ether(5.443)
- Propylene glycol(6.605)
- Ethylene glycol(6.844)
- 2-(2-Butoxyethoxy)ethanol(8.749)
- 2,2'-Oxybisethanol(9.737)
- Triethylene Glycol(10.752)
- Tetraethylene Glycol(12.012)

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31009.D
Injection Date: 31-Jan-2023 16:10:20   Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   2
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

Processing Integration Results

RT: 6.60
Area: 692727
Amount: 63.697631
Amount Units: ug/ml

Manual Integration Results
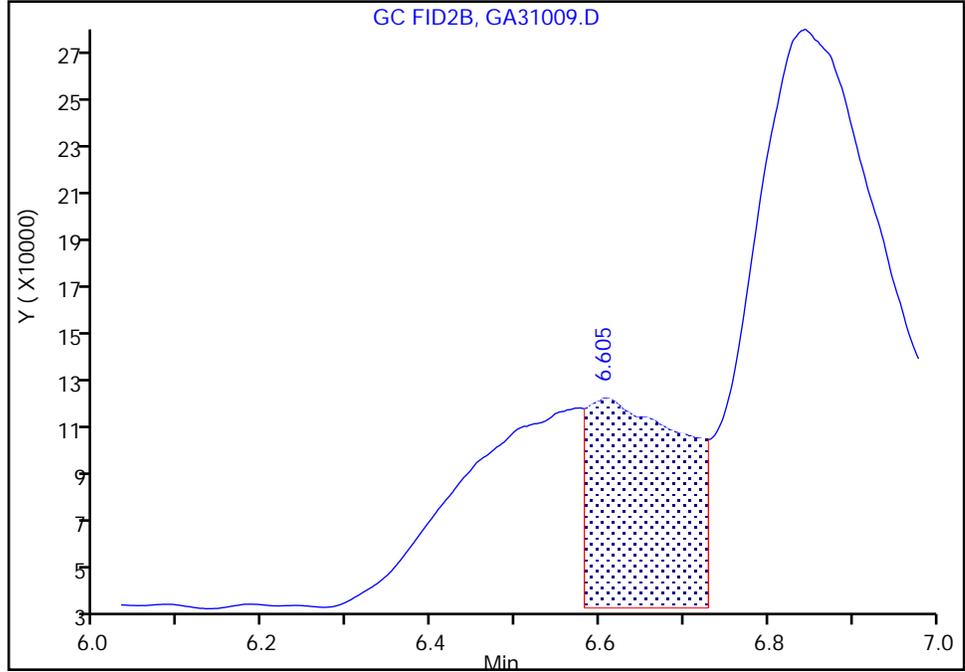
RT: 6.60
Area: 1523404
Amount: 99.725682
Amount Units: ug/ml

Reviewer: SWK1, 01-Feb-2023 12:15:47
Audit Action: Manually Integrated   Audit Reason: Baseline Smoothing

2/16/2023 9:10 AM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31010.D
Lims ID: ic g6
Client ID:
Sample Type: IC   Calib Level: 6
Inject. Date: 31-Jan-2023 16:33:44   ALS Bottle#:   0   Worklist Smp#:   3
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083575-003
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 01-Feb-2023 12:18:18   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy							
	3.109	3.115	-0.006	2696316	80.0	51.0	
2 4-Hydroxy-4-methyl-2-pentanone							
	3.698	3.705	-0.007	2533759	80.0	50.6	
3 2-Butoxyethanol							
	4.018	4.020	-0.002	3009271	80.0	51.4	
* 4 n-Heptyl Alcohol							
	4.497	4.493	0.004	4142709	50.0	50.0	
5 Dipropylene Glycol Methyl Ether							
	5.447	5.450	-0.003	198795	80.0	50.7	
6 Propylene glycol							
	6.598	6.602	-0.004	867996	80.0	61.1	
7 Ethylene glycol							
	6.865	6.859	0.006	1916855	80.0	59.9	
8 2-(2-Butoxyethoxy)ethanol							
	8.749	8.749	0.000	2209469	80.0	51.1	
9 2,2'-Oxybisethanol							
	9.737	9.735	0.002	1262199	80.0	61.6	
10 Triethylene Glycol							
	10.752	10.751	0.001	1203391	80.0	59.8	
11 Tetraethylene Glycol							
	12.011	12.009	0.002	2479986	160.0	118.4	

Reagents:

SG_Gly_CAL_00052   Amount Added: 40.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31010.D
Injection Date: 31-Jan-2023 16:33:44   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g6   Worklist Smp#:   3
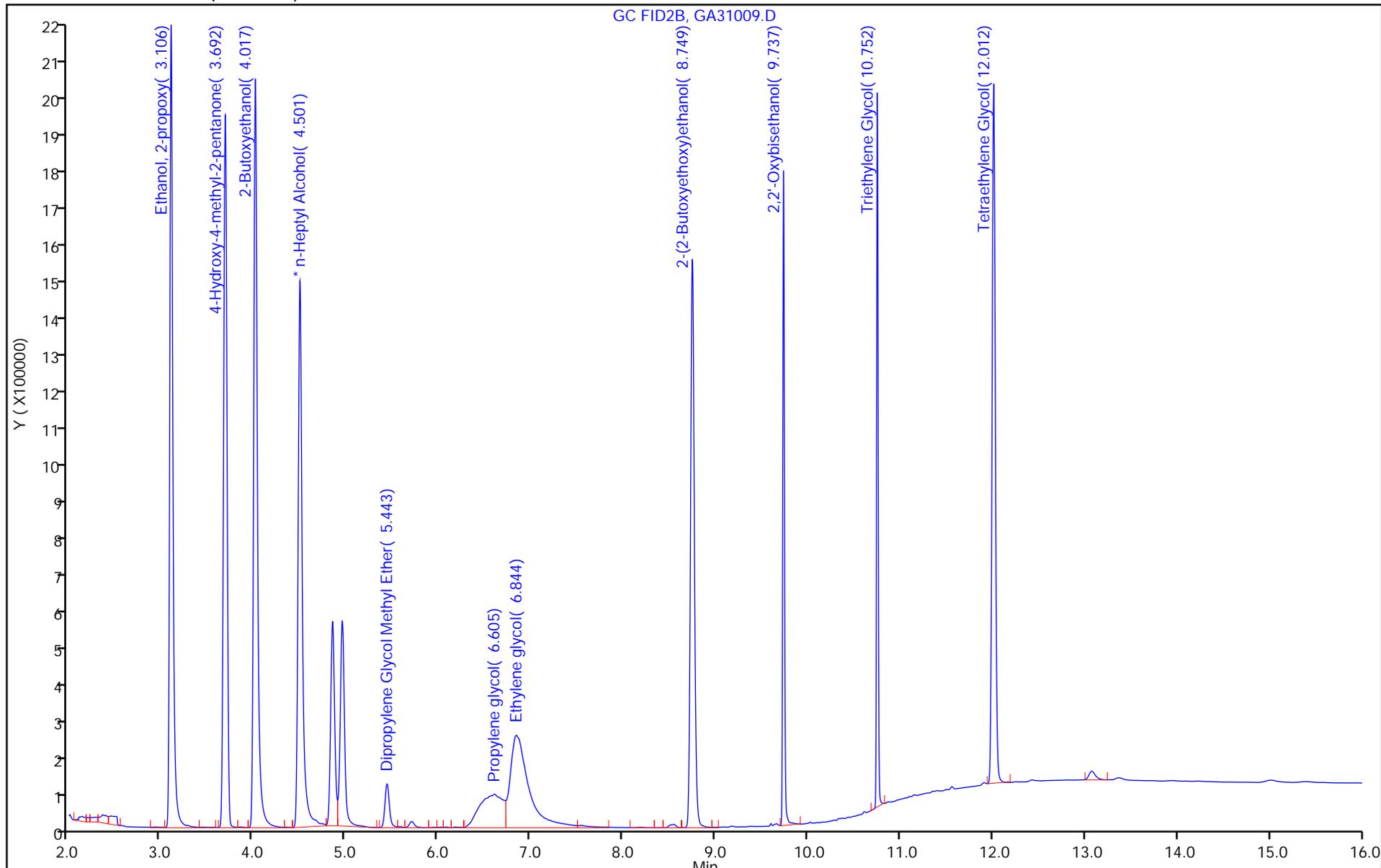Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
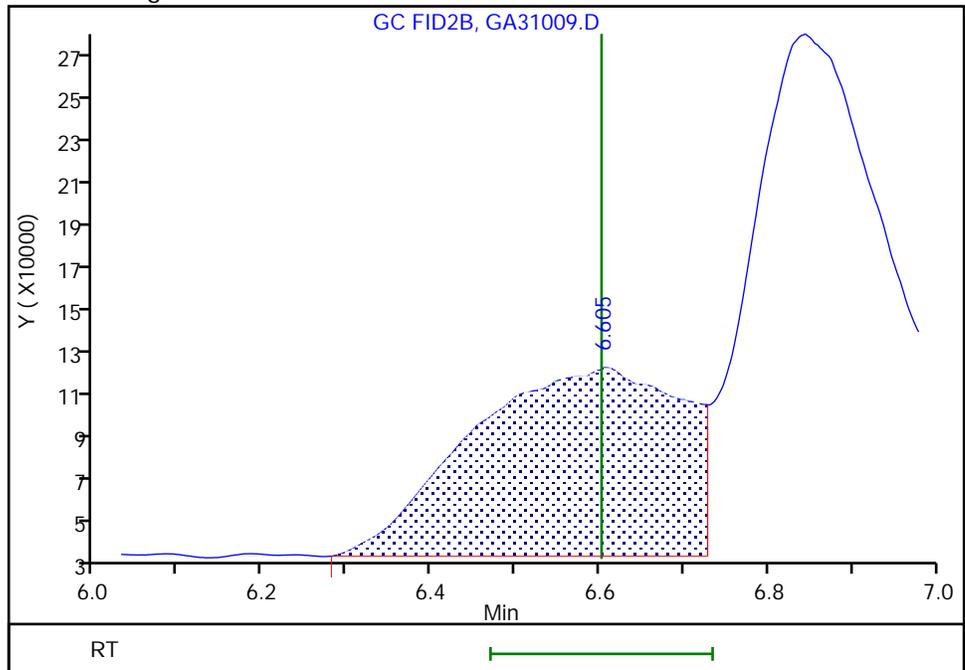Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31010.D

2/16/2023 9:10
AM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31011.D
Lims ID: ic g5
Client ID:

Sample Type:	IC	Calib Level:	5
Inject. Date:	31-Jan-2023 16:57:00	ALS Bottle#:	0	Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Sample Info:	680-0083575-004		
Operator ID:		Instrument ID:	CVGG2
Sublist:	chrom-8015_GLY_VGG*sub2		

Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 01-Feb-2023 12:18:18   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.111	3.115	-0.004	2998970	50.0	49.0	
2 4-Hydroxy-4-methyl-2-pentanone						
3.700	3.705	-0.005	2817730	50.0	48.7	
3 2-Butoxyethanol						
4.019	4.020	-0.001	3302160	50.0	48.7	
* 4 n-Heptyl Alcohol						
4.496	4.493	0.003	4760307	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.448	5.450	-0.002	215230	50.0	47.6	
6 Propylene glycol						
6.604	6.602	0.002	845966	50.0	51.6	
7 Ethylene glycol						
6.848	6.859	-0.011	1914058	50.0	51.4	
8 2-(2-Butoxyethoxy)ethanol						
8.748	8.749	-0.001	2371277	50.0	47.5	
9 2,2'-Oxybisethanol						
9.737	9.735	0.002	1231191	50.0	52.0	
10 Triethylene Glycol						
10.752	10.751	0.001	1195495	50.0	51.5	
11 Tetraethylene Glycol						
12.011	12.009	0.002	2490752	100.0	103.0	

Reagents:

SG_Gly_CAL_00052	Amount Added: 25.00	Units: uL	
SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31011.D
Injection Date: 31-Jan-2023 16:57:00   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g5   Worklist Smp#:   4
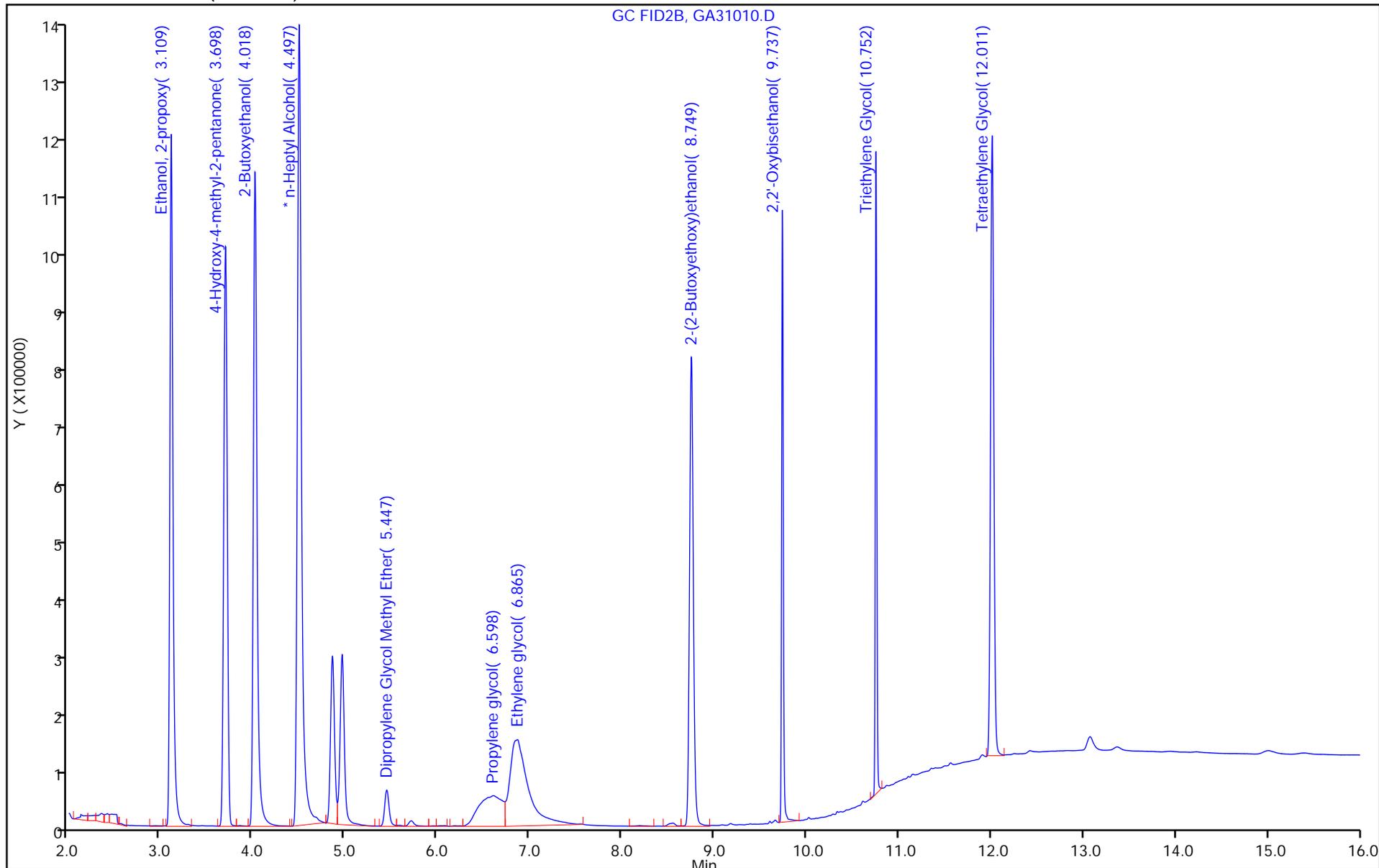Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31011.D

2/16/2023 9:10
AM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31012.D
Lims ID: icis g4
Client ID:

Sample Type:	ICIS	Calib Level:	4		
Inject. Date:	31-Jan-2023 17:20:19	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		

Sample Info: 680-0083575-005
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 01-Feb-2023 12:18:19   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:16:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.115	3.115	0.000	1481144	20.0	21.0	
2 4-Hydroxy-4-methyl-2-pentanone						
3.705	3.705	0.000	1428079	20.0	21.7	
3 2-Butoxyethanol						
4.020	4.020	0.000	1687009	20.0	21.6	
* 4 n-Heptyl Alcohol						
4.493	4.493	0.000	4808813	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.450	5.450	0.000	102970	20.0	21.1	
6 Propylene glycol						M
6.602	6.602	0.000	307358	20.0	16.9	M
7 Ethylene glycol						
6.859	6.859	0.000	768953	20.0	17.7	
8 2-(2-Butoxyethoxy)ethanol						
8.749	8.749	0.000	1158542	20.0	21.3	
9 2,2'-Oxybisethanol						
9.735	9.735	0.000	432419	20.0	16.8	
10 Triethylene Glycol						
10.751	10.751	0.000	442202	20.0	17.7	
11 Tetraethylene Glycol						
12.009	12.009	0.000	921584	40.0	35.3	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31012.D
Injection Date: 31-Jan-2023 17:20:19   Instrument ID: CVGG2   Operator ID:
Lims ID: icis g4   Worklist Smp#:   5
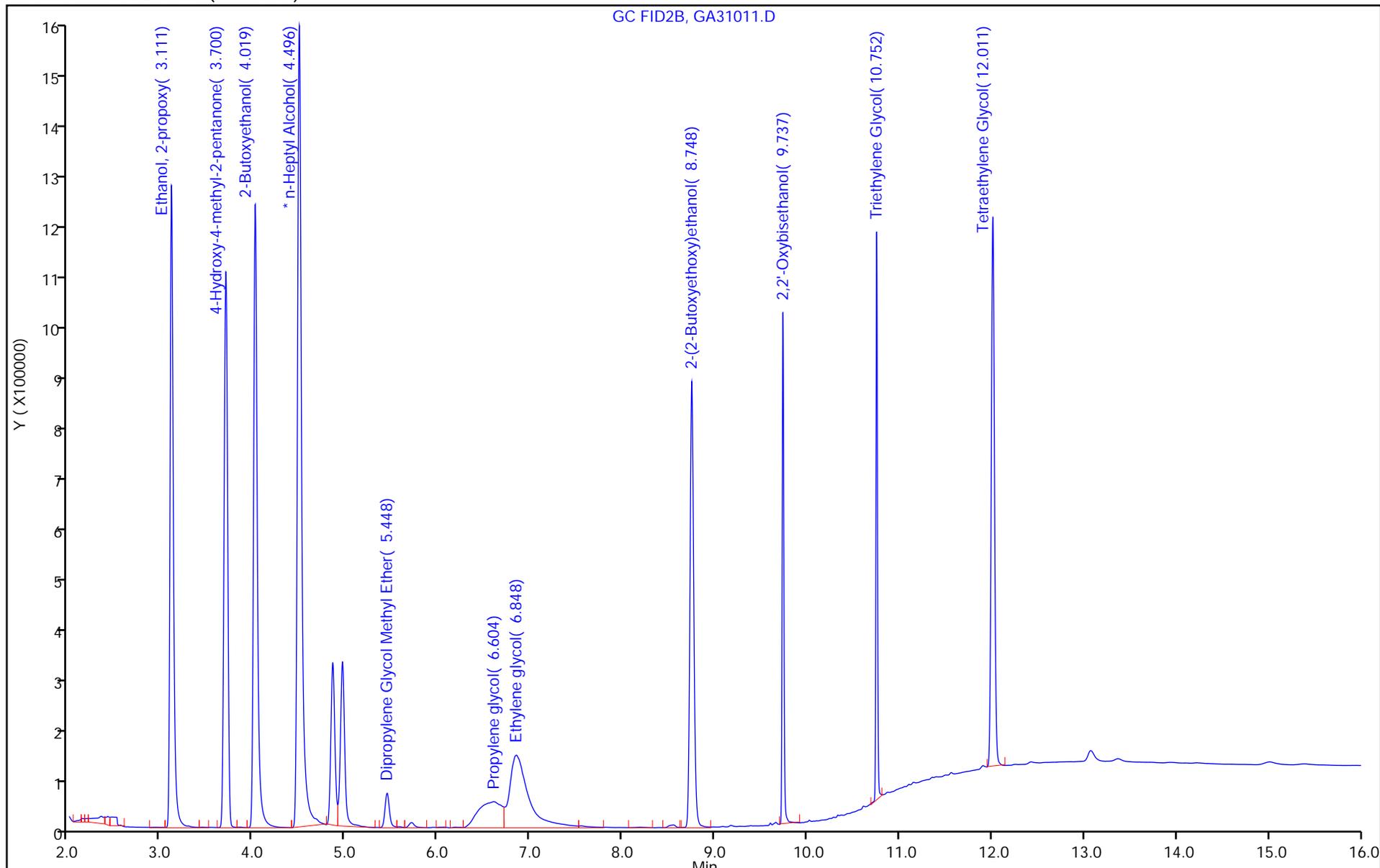Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31012.D

2/16/2023 9:10
AM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31012.D
Injection Date:	31-Jan-2023 17:20:19

Injection Date:	31-Jan-2023 17:20:19		Instrument ID:	CVGG2	
Lims ID:	icis g4				
Client ID:					
Operator ID:			ALS Bottle#:	0	Worklist Smp#: 5
Injection Vol:	1.0 ul		Dil. Factor:	1.0000	
Method:	8015_GLY_VGG		Limit Group:	8015C_DAI	
Column:	J&W DB WAX (0.45 mm)		Detector	GC FID2B	

6 Propylene glycol, CAS: 57-55-6

Signal: 1

RT:	6.60
Area:	155832
Amount:	11.950885
Amount Units:	ug/ml

Processing Integration Results
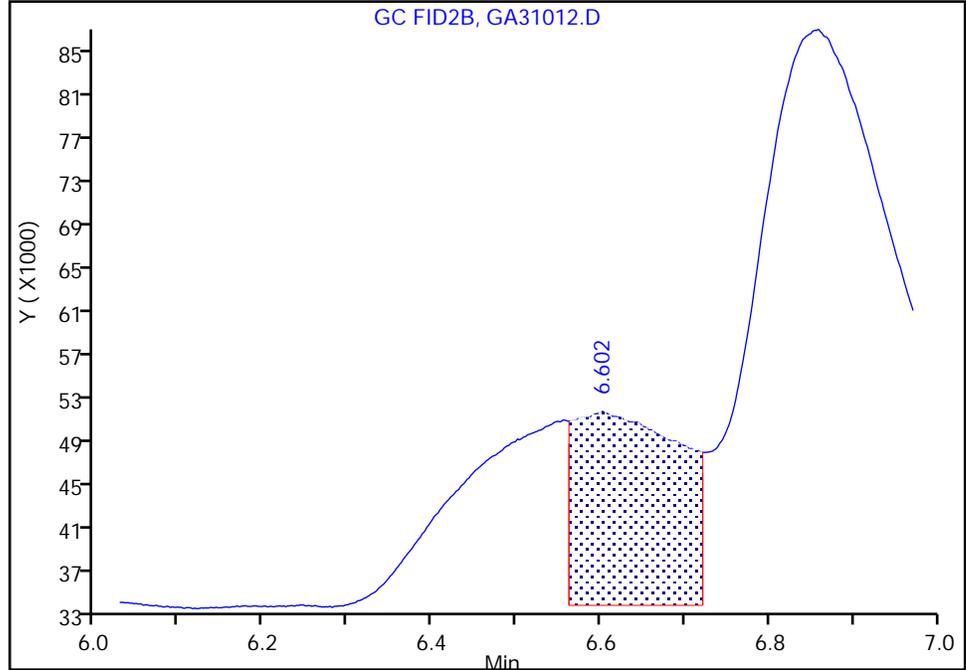
RT:	6.60
Area:	307358
Amount:	16.940506
Amount Units:	ug/ml

Manual Integration Results
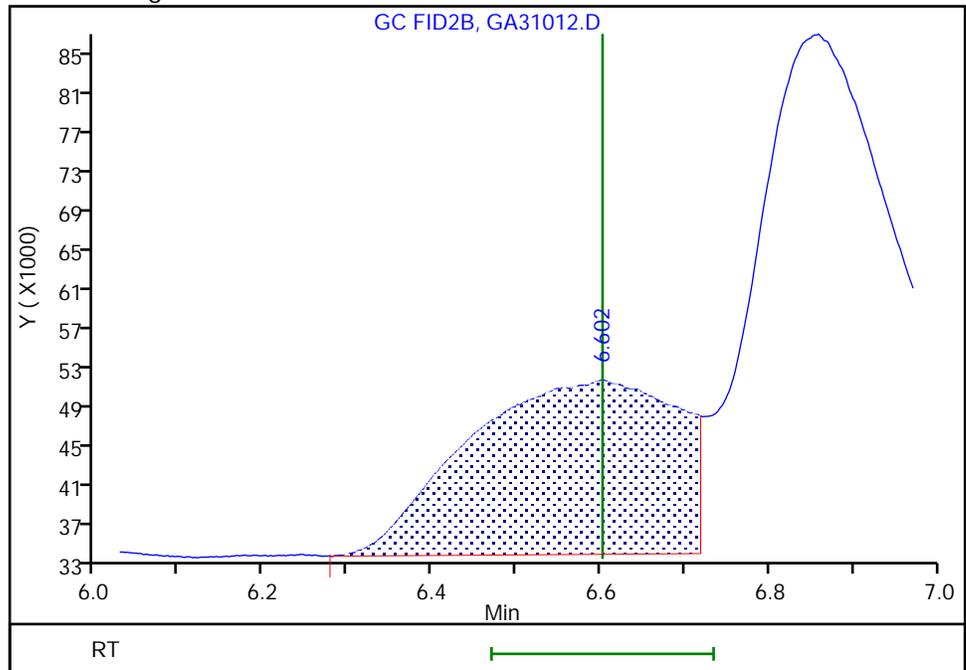
Reviewer: SWK1, 01-Feb-2023 12:16:10
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

2/16/2023 9:10
AM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
Lims ID: ic g3
Client ID:

Sample Type:	IC	Calib Level:	3	
Inject. Date:	31-Jan-2023 17:43:43	ALS Bottle#:	0	Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	

Sample Info: 680-0083575-006
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 01-Feb-2023 12:18:20   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:16:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.112	3.115	-0.003	747201	10.0	11.1	
2 4-Hydroxy-4-methyl-2-pentanone						
3.703	3.705	-0.002	695234	10.0	10.9	
3 2-Butoxyethanol						
4.018	4.020	-0.002	822590	10.0	10.9	
* 4 n-Heptyl Alcohol						
4.492	4.493	-0.001	4072778	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.448	5.450	-0.002	50136	10.0	10.9	
6 Propylene glycol						M
6.595	6.602	-0.007	166728	10.0	9.78	M
7 Ethylene glycol						M
6.852	6.859	-0.007	403080	10.0	9.29	M
8 2-(2-Butoxyethoxy)ethanol						
8.749	8.749	0.000	555129	10.0	10.7	
9 2,2'-Oxybisethanol						
9.736	9.735	0.001	214186	10.0	8.97	
10 Triethylene Glycol						
10.751	10.751	0.000	201150	10.0	8.72	
11 Tetraethylene Glycol						
12.010	12.009	0.001	426730	20.0	17.6	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

| SG_Gly_CAL_00052 | Amount Added: 5.00 | Units: uL | |
| SG_GLY_ISTD_00105 | Amount Added: 10.00 | Units: uL | Run Reagent |

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
Injection Date: 31-Jan-2023 17:43:43   Instrument ID: CVGG2   Operator ID:
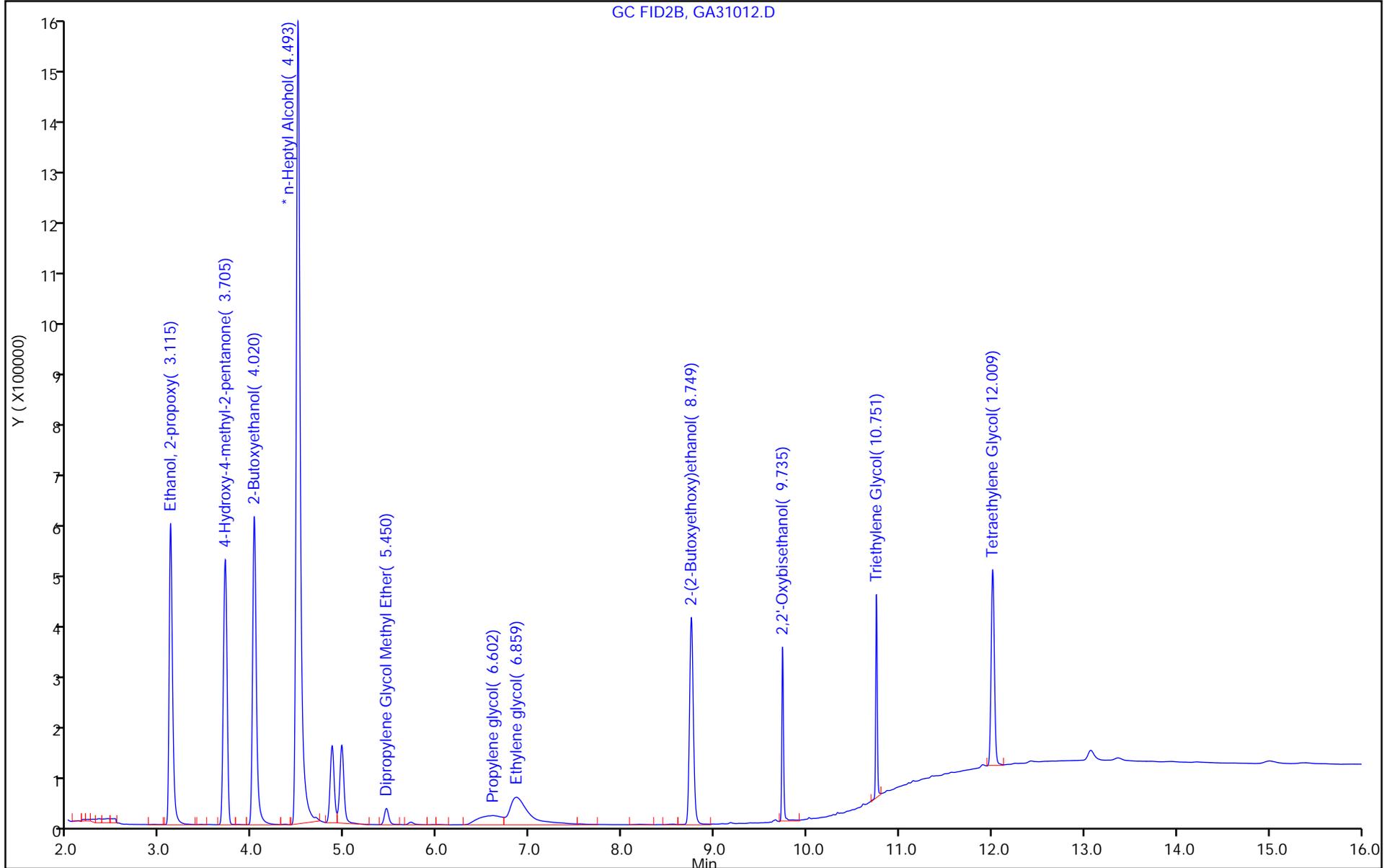Lims ID: ic g3   Worklist Smp#:   6
Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31013.D

2/16/2023 9:10 AM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
Injection Date:	31-Jan-2023 17:43:43
Lims ID:	ic g3
Client ID:	
Operator ID:	
Injection Vol:	1.0 ul
Method:	8015_GLY_VGG
Column:	J&W DB WAX (0.45 mm)

Instrument ID:	CVGG2
ALS Bottle#:	0	Worklist Smp#:	6
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT: 6.59
Area: 67645
Amount: 5.655825
Amount Units: ug/ml

GC FID2B, GA31013.D

Manual Integration Results

RT: 6.59
Area: 166728
Amount: 9.781358
Amount Units: ug/ml
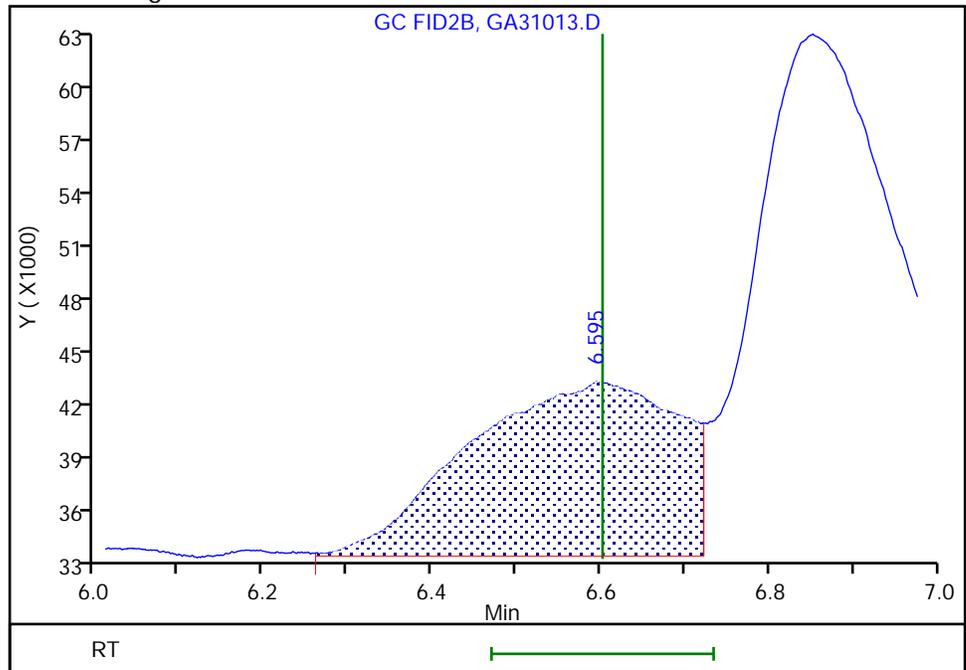
GC FID2B, GA31013.D

Reviewer: SWK1, 01-Feb-2023 12:16:30
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

2/16/2023 9:10
AM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31013.D
Injection Date: 31-Jan-2023 17:43:43   Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   6
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT: 6.85
Area: 308880
Amount: 9.474281
Amount Units: ug/ml

Manual Integration Results

RT: 6.85
Area: 403080
Amount: 9.287893
Amount Units: ug/ml

Reviewer: SWK1, 01-Feb-2023 12:16:30
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D	
Lims ID:	ic g2	
Client ID:		

Sample Type:	IC		Calib Level:	2	
Inject. Date:	31-Jan-2023 18:07:01		ALS Bottle#:	0	Worklist Smp#: 7
Injection Vol:	1.0 ul		Dil. Factor:	1.0000	
Sample Info:	680-0083575-007				
Operator ID:			Instrument ID:	CVGG2	
Sublist:	chrom-8015_GLY_VGG*sub2				

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m			
Limit Group:	8015C_DAI			
Last Update:	01-Feb-2023 12:18:21		Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon			
Quant Method:	Internal Standard		Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D			

Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B
Process Host:	CTX1622		

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:16:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.108	3.115	-0.007	395229	5.00	4.28	
2 4-Hydroxy-4-methyl-2-pentanone						
3.696	3.705	-0.009	366266	5.00	4.03	
3 2-Butoxyethanol						
4.016	4.020	-0.004	446752	5.00	4.31	
* 4 n-Heptyl Alcohol						
4.494	4.493	0.001	4124530	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.444	5.450	-0.006	28539	5.00	4.89	
6 Propylene glycol						M
6.602	6.602	0.000	131630	5.00	6.95	M
7 Ethylene glycol						M
6.848	6.859	-0.011	332582	5.00	6.76	M
8 2-(2-Butoxyethoxy)ethanol						
8.749	8.749	0.000	328863	5.00	4.94	
9 2,2'-Oxybisethanol						
9.736	9.735	0.001	186446	5.00	7.42	
10 Triethylene Glycol						
10.752	10.751	0.001	178287	5.00	7.42	
11 Tetraethylene Glycol						
12.011	12.009	0.002	372712	10.0	14.7	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 2.50   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
Injection Date: 31-Jan-2023 18:07:01   Instrument ID: CVGG2   Operator ID:
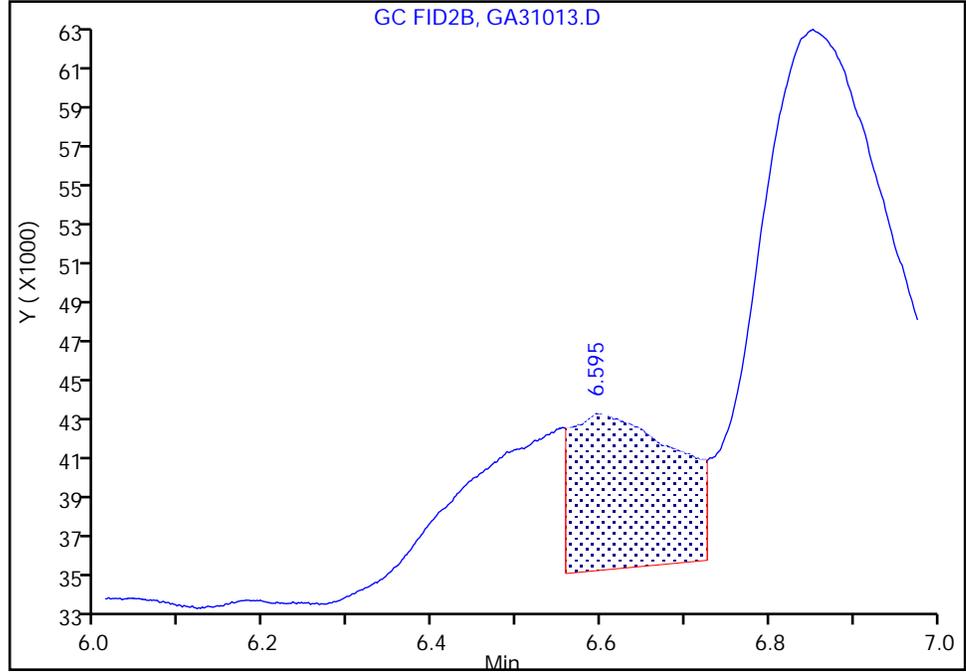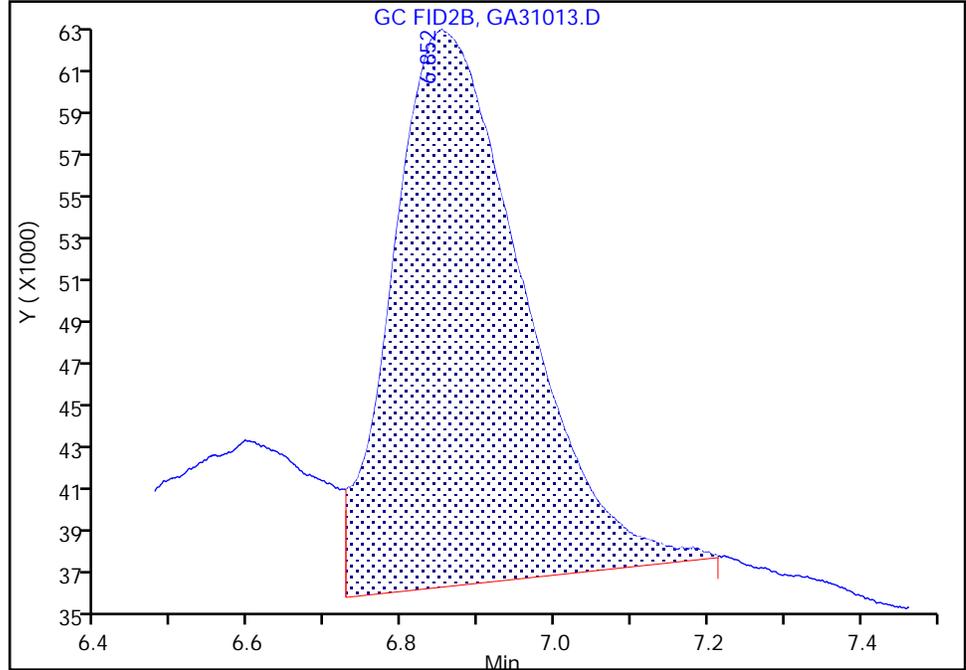Lims ID: ic g2   Worklist Smp#:   7
Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
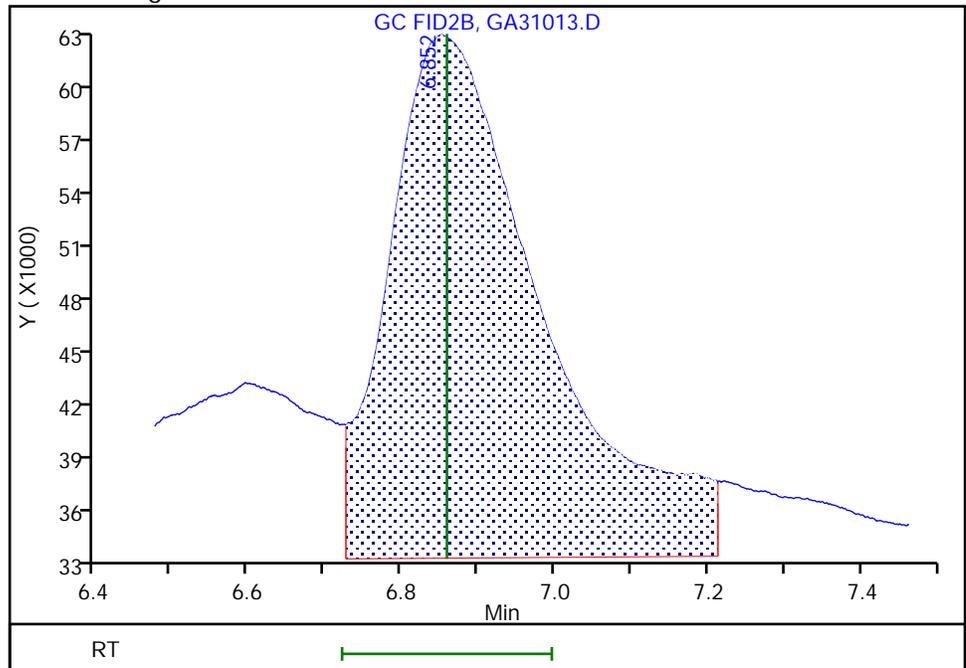Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31014.D

2/16/2023 9:10 AM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
Injection Date: 31-Jan-2023 18:07:01   Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   7
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

6 Propylene glycol, CAS: 57-55-6
Signal: 1

Processing Integration Results
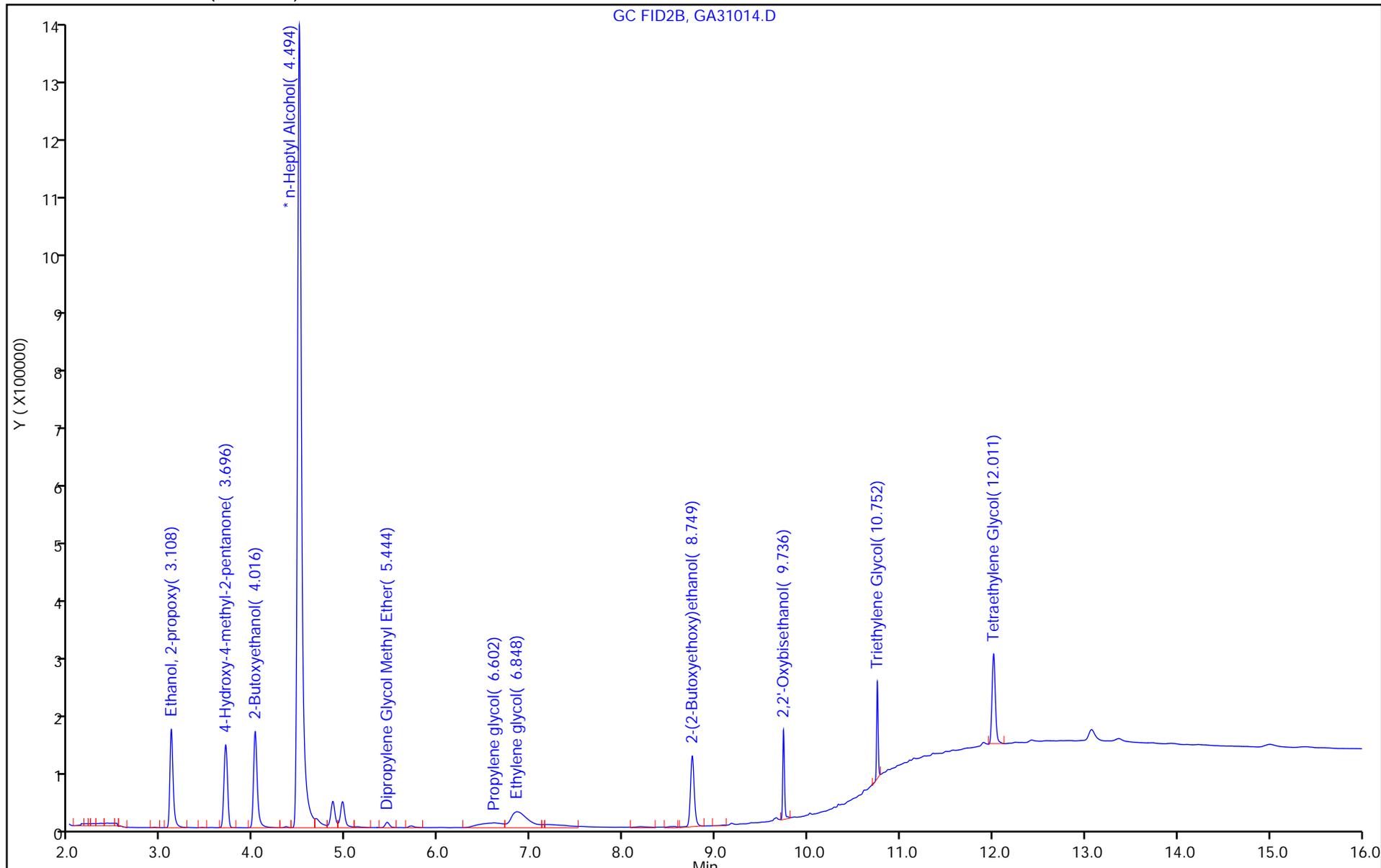
RT: 6.60
Area: 59558
Amount: 4.396829
Amount Units: ug/ml

Manual Integration Results

RT: 6.60
Area: 131630
Amount: 6.954920
Amount Units: ug/ml
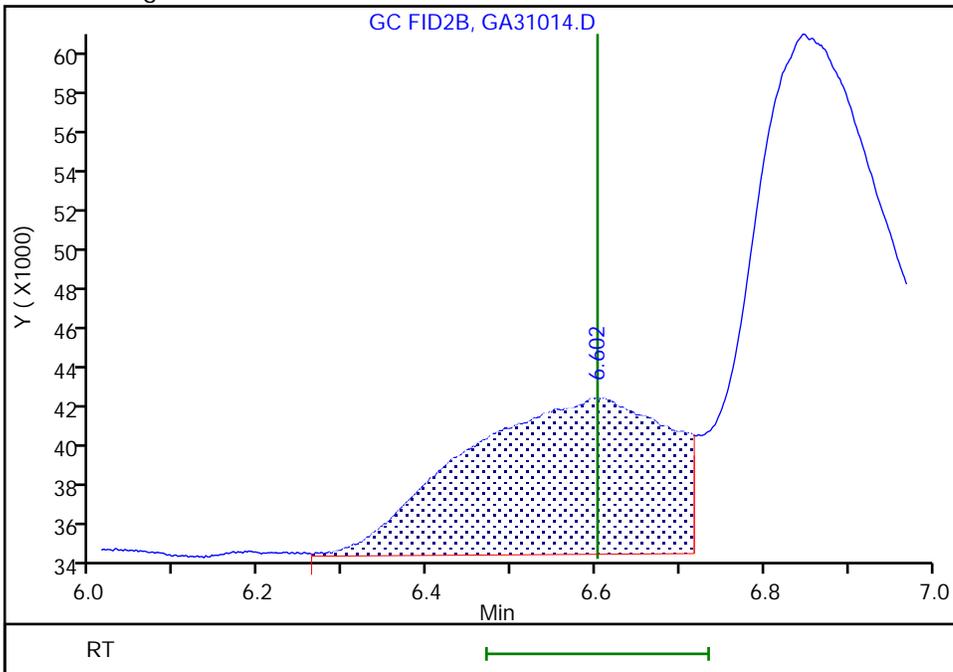
Reviewer: SWK1, 01-Feb-2023 12:16:52
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31014.D
Injection Date: 31-Jan-2023 18:07:01 | Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: | ALS Bottle#: 0 | Worklist Smp#: 7
Injection Vol: 1.0 ul | Dil. Factor: 1.0000
Method: 8015_GLY_VGG | Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) | Detector GC FID2B

7 Ethylene glycol, CAS: 107-21-1
Signal: 1

Processing Integration Results

RT: 6.85
Area: 313271
Amount: 9.112271
Amount Units: ug/ml

Manual Integration Results
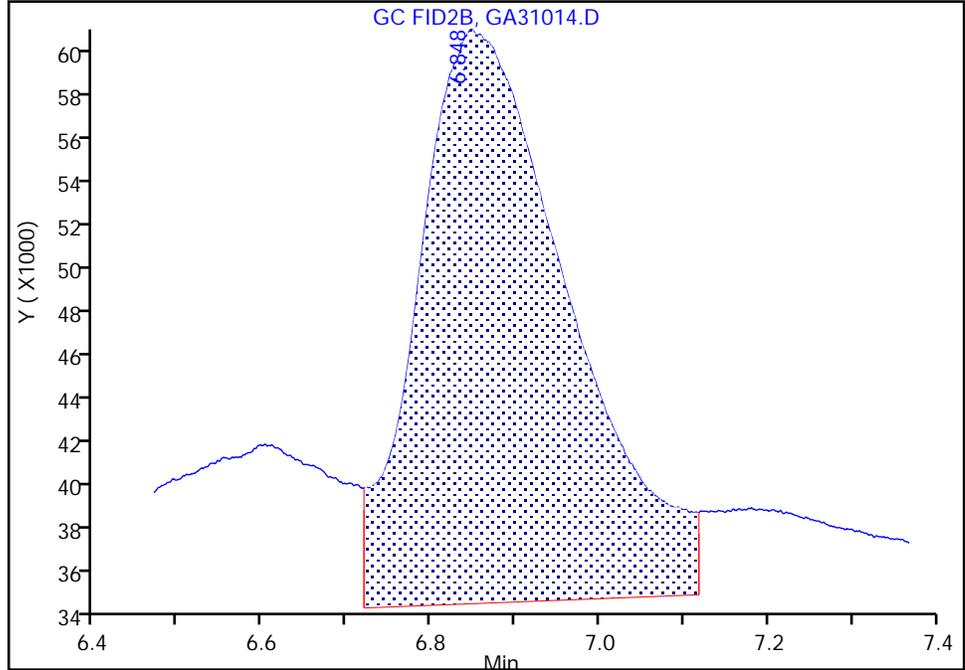
RT: 6.85
Area: 332582
Amount: 6.758729
Amount Units: ug/ml
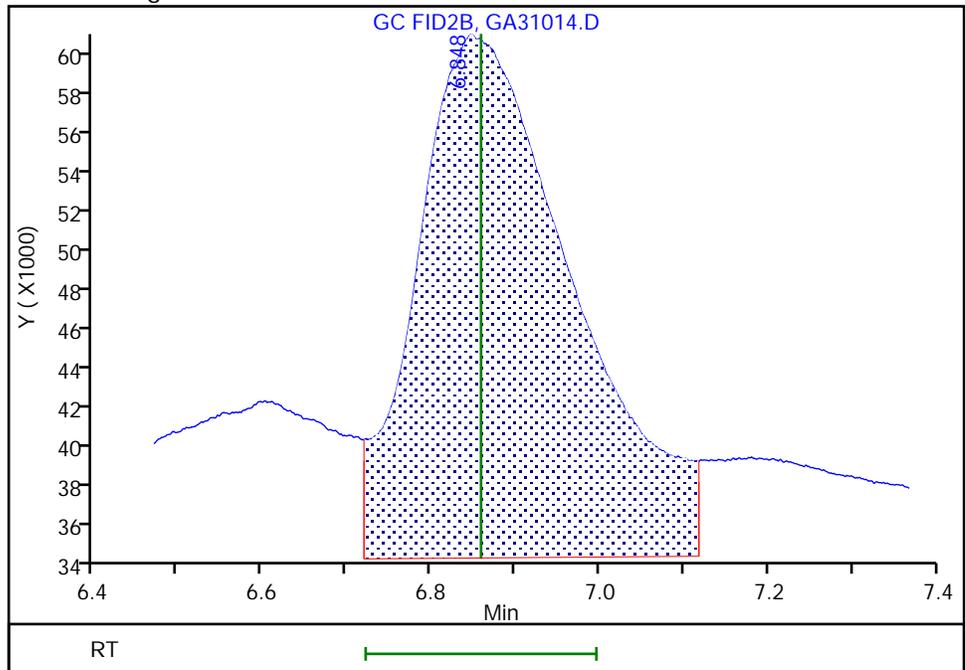
Reviewer: SWK1, 01-Feb-2023 12:16:52
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D			
Lims ID:	ic g1			
Client ID:				
Sample Type:	IC	Calib Level:	1	
Inject. Date:	31-Jan-2023 18:30:20	ALS Bottle#:	0	Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Sample Info:	680-0083575-008			
Operator ID:		Instrument ID:	CVGG2	
Sublist:	chrom-8015_GLY_VGG*sub2			

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	01-Feb-2023 12:18:21	Calib Date: 31-Jan-2023 18:30:20
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1622	

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:17:18

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.118	3.115	0.003	217199	2.00	1.37	
2 4-Hydroxy-4-methyl-2-pentanone						
3.713	3.705	0.008	215694	2.00	1.43	
3 2-Butoxyethanol						
4.021	4.020	0.001	238714	2.00	1.22	
* 4 n-Heptyl Alcohol						
4.488	4.493	-0.005	3775471	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.451	5.450	0.001	16283	2.00	1.98	
6 Propylene glycol						M
6.608	6.602	0.006	60701	2.00	1.97	M
7 Ethylene glycol						M
6.868	6.859	0.009	177078	2.00	2.11	M
8 2-(2-Butoxyethoxy)ethanol						
8.748	8.749	-0.001	191136	2.00	1.98	
9 2,2'-Oxybisethanol						
9.738	9.735	0.003	77003	2.00	2.24	
10 Triethylene Glycol						
10.753	10.751	0.002	65259	2.00	1.93	
11 Tetraethylene Glycol						
12.013	12.009	0.004	143818	4.00	4.00	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 1.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
Injection Date: 31-Jan-2023 18:30:20   Instrument ID: CVGG2   Operator ID:
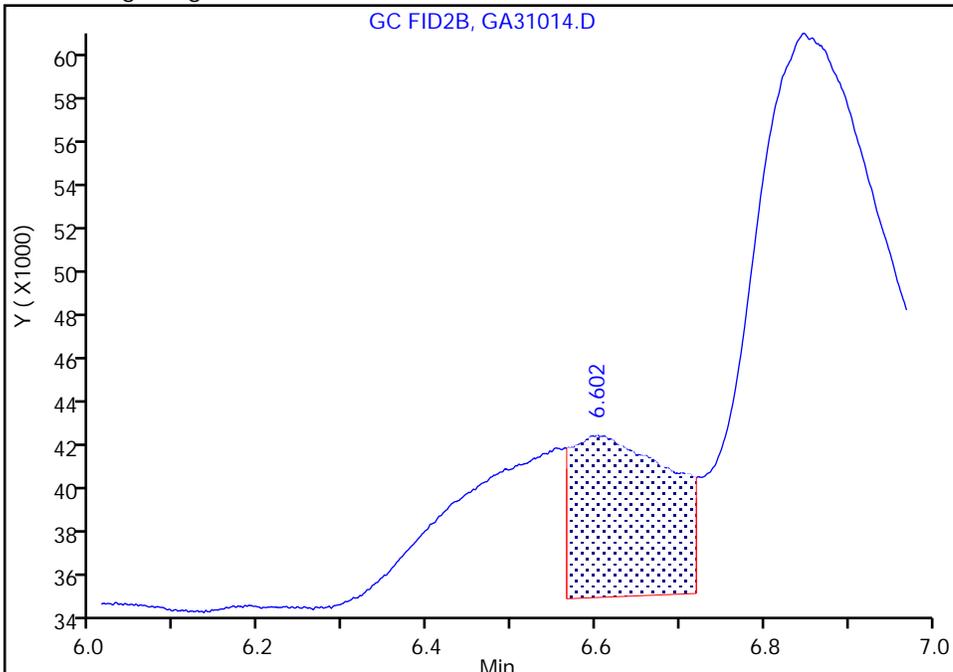Lims ID: ic g1   Worklist Smp#:   8
Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GA31015.D

2/16/2023 9:10
AM

Manual Integration/User Assign Peak Report

Eurofins Savannah
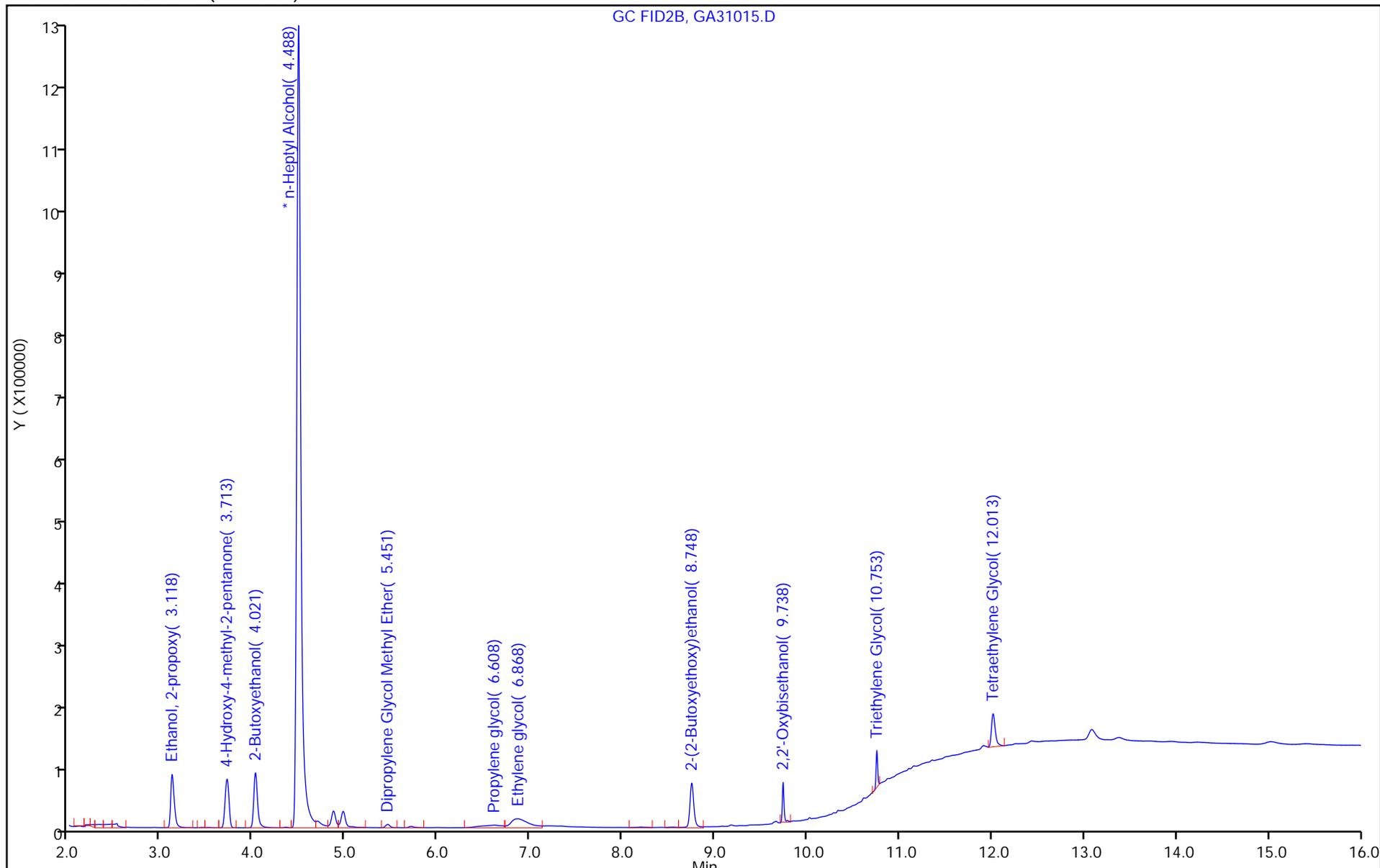
Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
Injection Date:	31-Jan-2023 18:30:20

Injection Date:	31-Jan-2023 18:30:20	Instrument ID:	CVGG2
Lims ID:	ic g1		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

RT:	6.61
Area:	24267
Amount:	1.698866
Amount Units:	ug/ml

Processing Integration Results
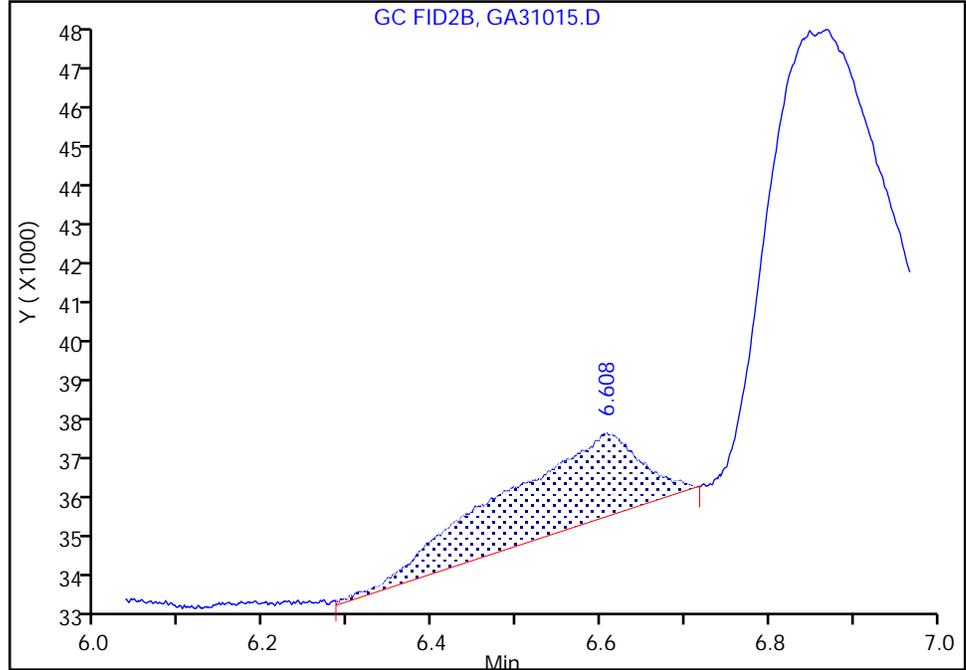
RT:	6.61
Area:	60701
Amount:	1.973375
Amount Units:	ug/ml
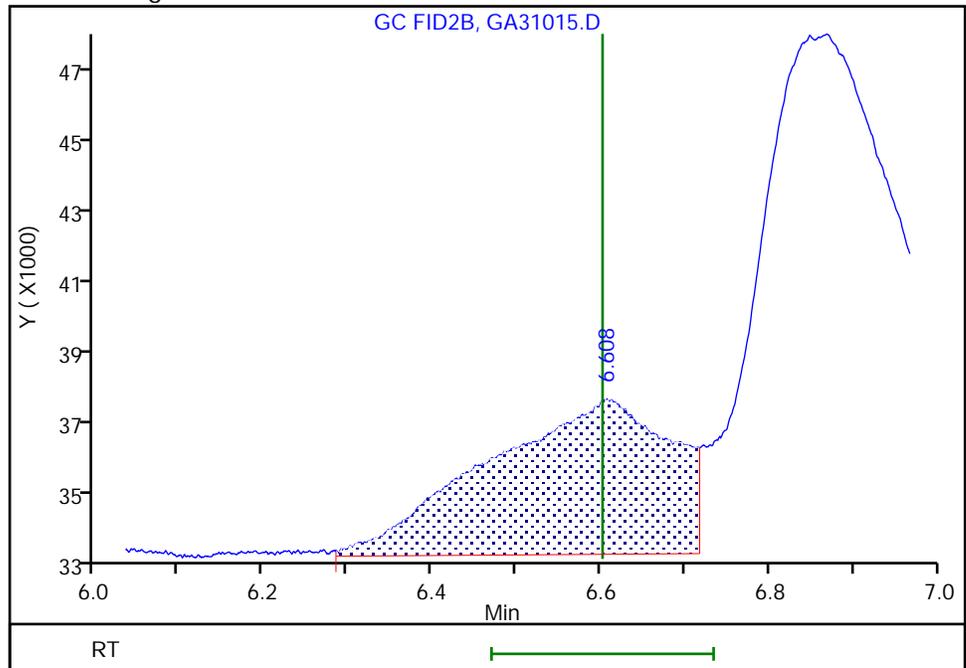
Manual Integration Results

Reviewer: SWK1, 01-Feb-2023 12:17:15

Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D
Injection Date:	31-Jan-2023 18:30:20

Injection Date:	31-Jan-2023 18:30:20	Instrument ID:	CVGG2
Lims ID:	ic g1		
Client ID:			
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT: 6.85
Area: 30098
Amount: 0.941310
Amount Units: ug/ml

Manual Integration Results
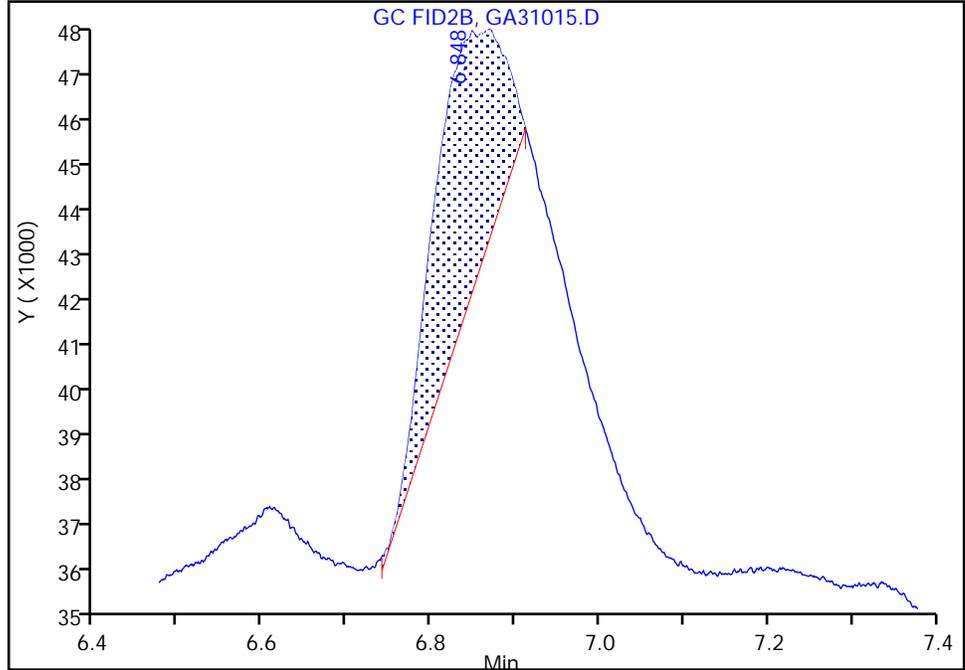
RT: 6.87
Area: 177078
Amount: 2.110506
Amount Units: ug/ml

Reviewer: SWK1, 01-Feb-2023 12:17:15
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
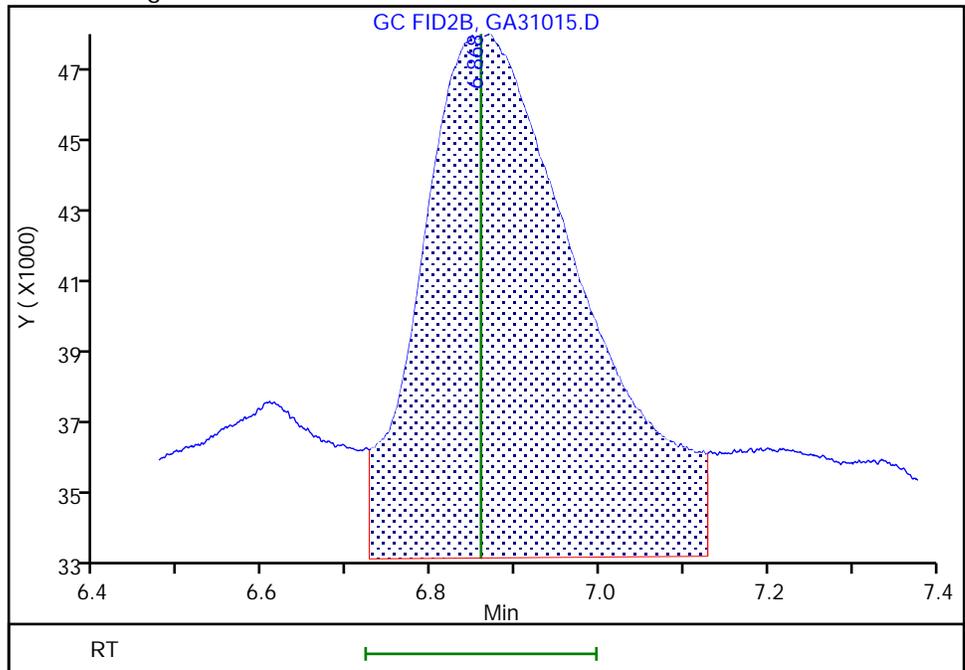
Calibration　　　　　　　　　　　　　　　　　　　　　　　　　　　**/ Ethanol, 2-propoxy**

Curve Type:	Quadratic		**Curve Coefficients**	

Intercept:	1.97
Slope:	0.665
Second Order:	-0.001274

Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

Error Coefficients

Standard Error:	3490000
Relative Standard Error:	21.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	2.876449	50.0	3775471.0	1.438225	Y
2	IC 680-761417/7	5.0	4.7912	50.0	4124530.0	0.95824	Y
3	IC 680-761417/6	10.0	9.173112	50.0	4072778.0	0.917311	Y
4	ICIS 680-761417/5	20.0	15.400308	50.0	4808813.0	0.770015	Y
5	IC 680-761417/4	50.0	31.499754	50.0	4760307.0	0.629995	Y
6	IC 680-761417/3	80.0	32.542909	50.0	4142709.0	0.406786	N
7	IC 680-761417/2	100.0	55.823714	50.0	4448338.0	0.558237	Y
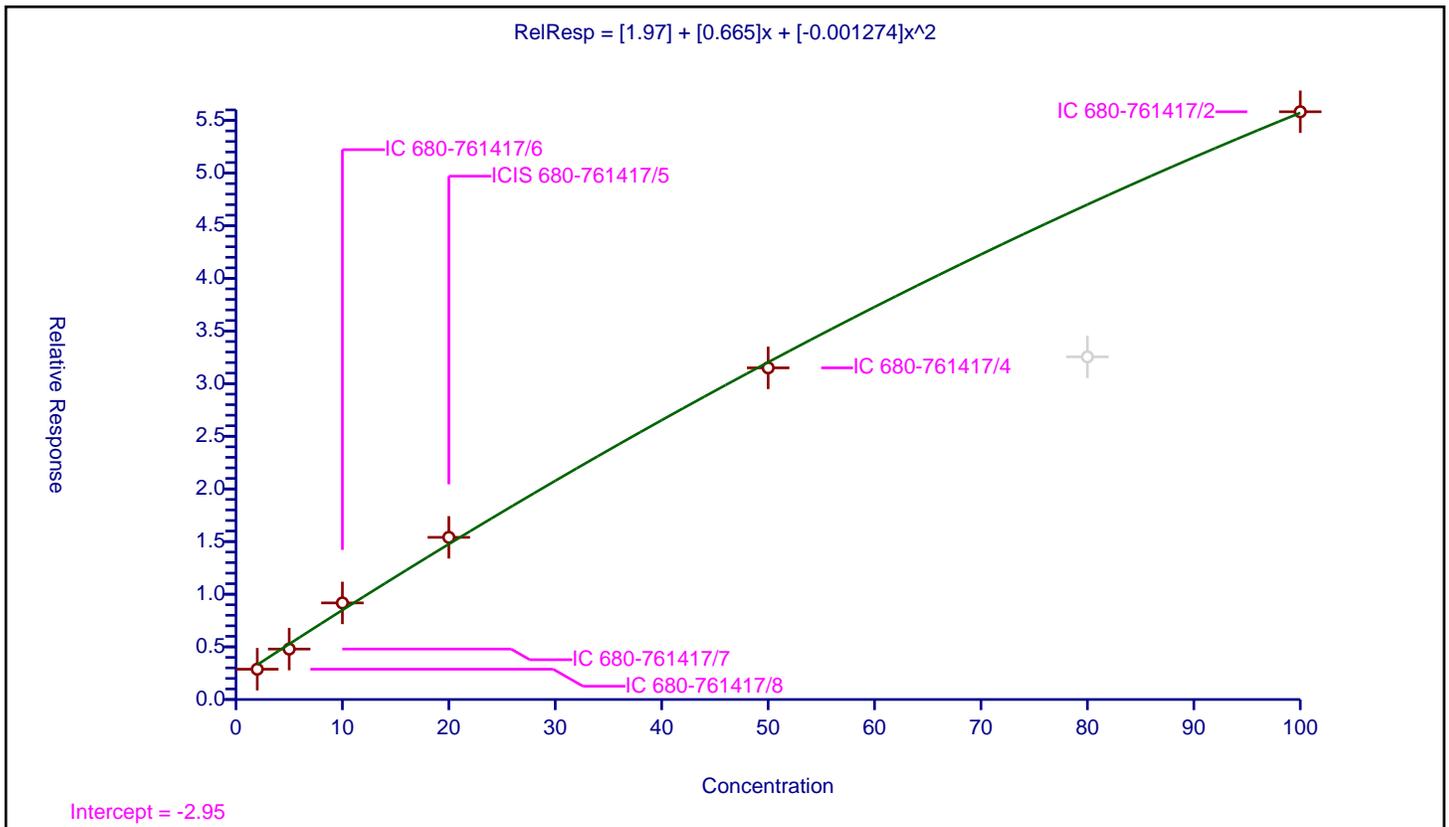
RelResp = [1.97] + [0.665]x + [-0.001274]x^2

Intercept = -2.95

Calibration

				Curve Coefficients	
Curve Type:	Quadratic		**Intercept:**		1.983
Weighting:	None		**Slope:**		0.614
Origin:	None		**Second Order:**		-0.0009674
Dependency:	Response				
Calib Mode:	ISTD			Error Coefficients	
Response Base:	AREA		**Standard Error:**		3350000
RF Rounding:	0		**Relative Standard Error:**		21.3
			Correlation Coefficient:		0.997
			Coefficient of Determination (Adjusted):		0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	2.856518	50.0	3775471.0	1.428259	Y
2	IC 680-761417/7	5.0	4.440094	50.0	4124530.0	0.888019	Y
3	IC 680-761417/6	10.0	8.535133	50.0	4072778.0	0.853513	Y
4	ICIS 680-761417/5	20.0	14.84856	50.0	4808813.0	0.742428	Y
5	IC 680-761417/4	50.0	29.596095	50.0	4760307.0	0.591922	Y
6	IC 680-761417/3	80.0	30.580944	50.0	4142709.0	0.382262	N
7	IC 680-761417/2	100.0	53.829262	50.0	4448338.0	0.538293	Y

RelResp = [1.983] + [0.614]x + [-0.0009674]x^2
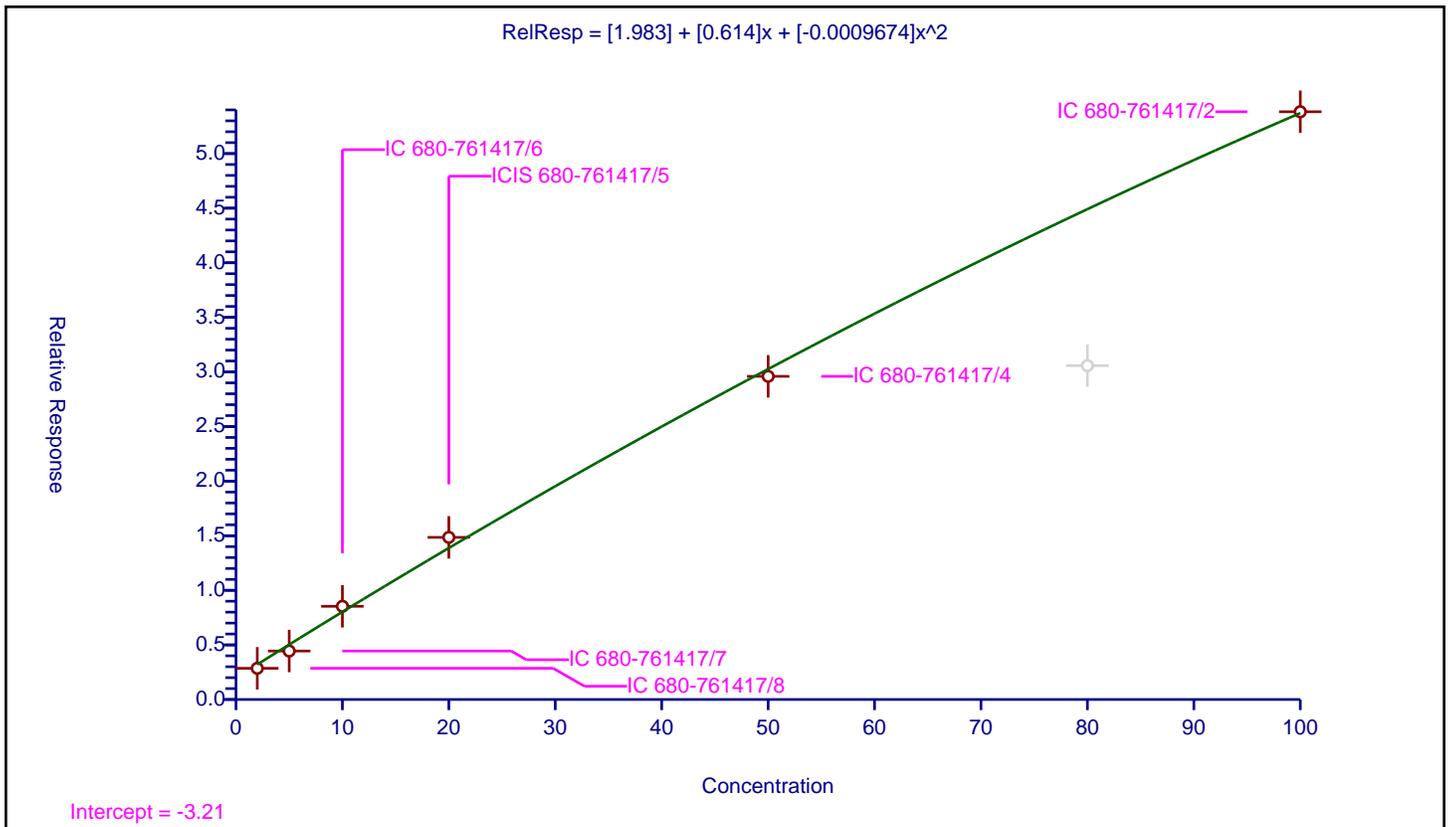
Intercept = -3.21

Calibration   **/ 2-Butoxyethanol**

			Curve Coefficients	
Curve Type:	Quadratic		**Intercept:**	2.267
Weighting:	None		**Slope:**	0.7374
Origin:	None		**Second Order:**	-0.001464
Dependency:	Response			
Calib Mode:	ISTD			Error Coefficients
Response Base:	AREA			
RF Rounding:	0		**Standard Error:**	3860000
			Relative Standard Error:	25.0
			Correlation Coefficient:	0.996
			Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	3.16138	50.0	3775471.0	1.58069	Y
2	IC 680-761417/7	5.0	5.415793	50.0	4124530.0	1.083159	Y
3	IC 680-761417/6	10.0	10.098635	50.0	4072778.0	1.009864	Y
4	ICIS 680-761417/5	20.0	17.540805	50.0	4808813.0	0.87704	Y
5	IC 680-761417/4	50.0	34.684318	50.0	4760307.0	0.693686	Y
6	IC 680-761417/3	80.0	36.320087	50.0	4142709.0	0.454001	N
7	IC 680-761417/2	100.0	61.506354	50.0	4448338.0	0.615064	Y
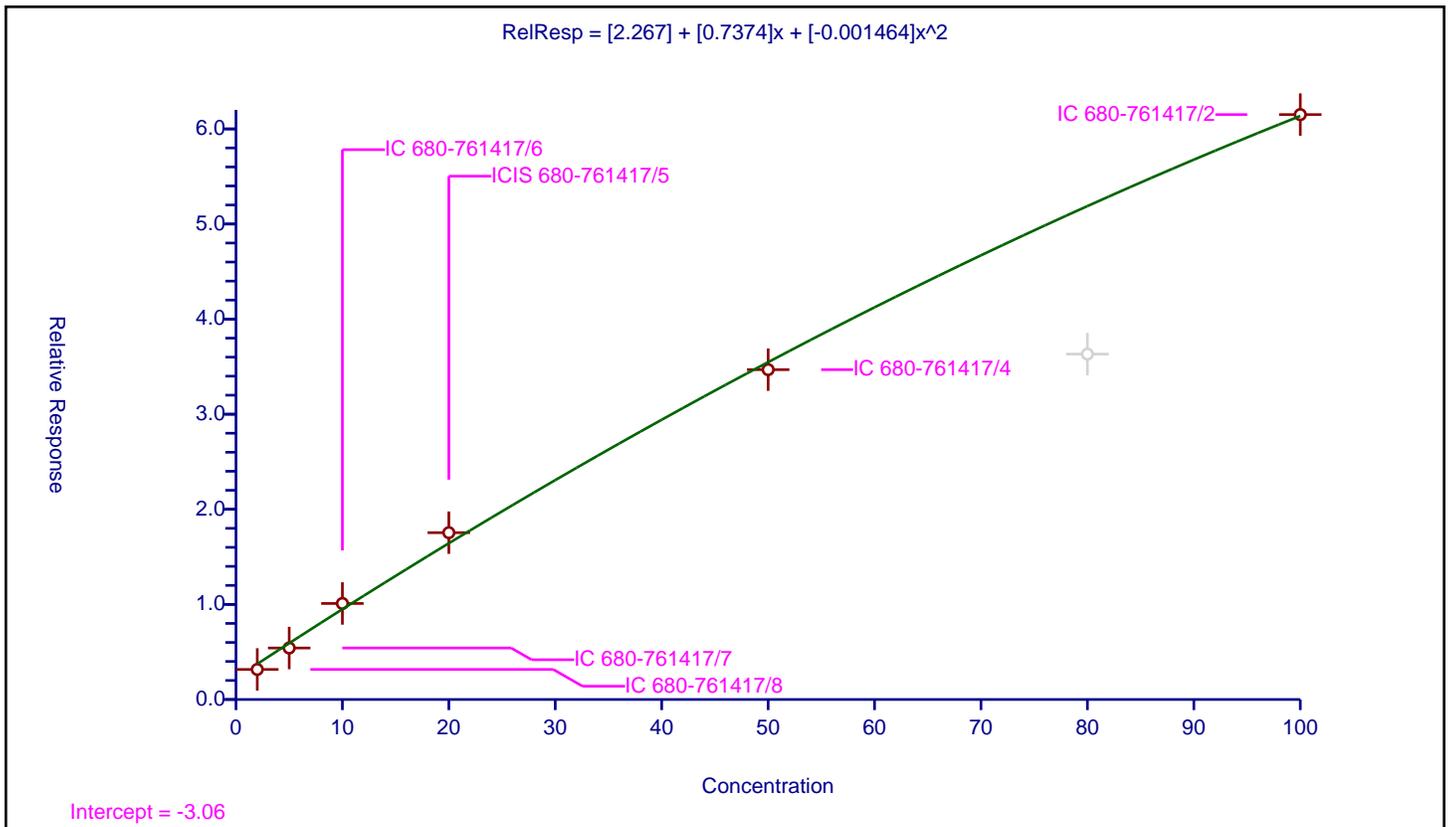
RelResp = [2.267] + [0.7374]x + [-0.001464]x^2

Intercept = -3.06

Calibration

			Curve Coefficients	
Curve Type:	Linear			
Weighting:	Conc_Sq		**Intercept:**	0.1271
Origin:	None		**Slope:**	0.04478
Dependency:	Response			
Calib Mode:	ISTD		**Error Coefficients**	
Response Base:	AREA			
RF Rounding:	0		**Standard Error:**	228000
			Relative Standard Error:	6.7
			Correlation Coefficient:	0.996
			Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	0.215642	50.0	3775471.0	0.107821	Y
2	IC 680-761417/7	5.0	0.345967	50.0	4124530.0	0.069193	Y
3	IC 680-761417/6	10.0	0.615501	50.0	4072778.0	0.06155	Y
4	ICIS 680-761417/5	20.0	1.070638	50.0	4808813.0	0.053532	Y
5	IC 680-761417/4	50.0	2.260674	50.0	4760307.0	0.045213	Y
6	IC 680-761417/3	80.0	2.399336	50.0	4142709.0	0.029992	N
7	IC 680-761417/2	100.0	4.321389	50.0	4448338.0	0.043214	Y
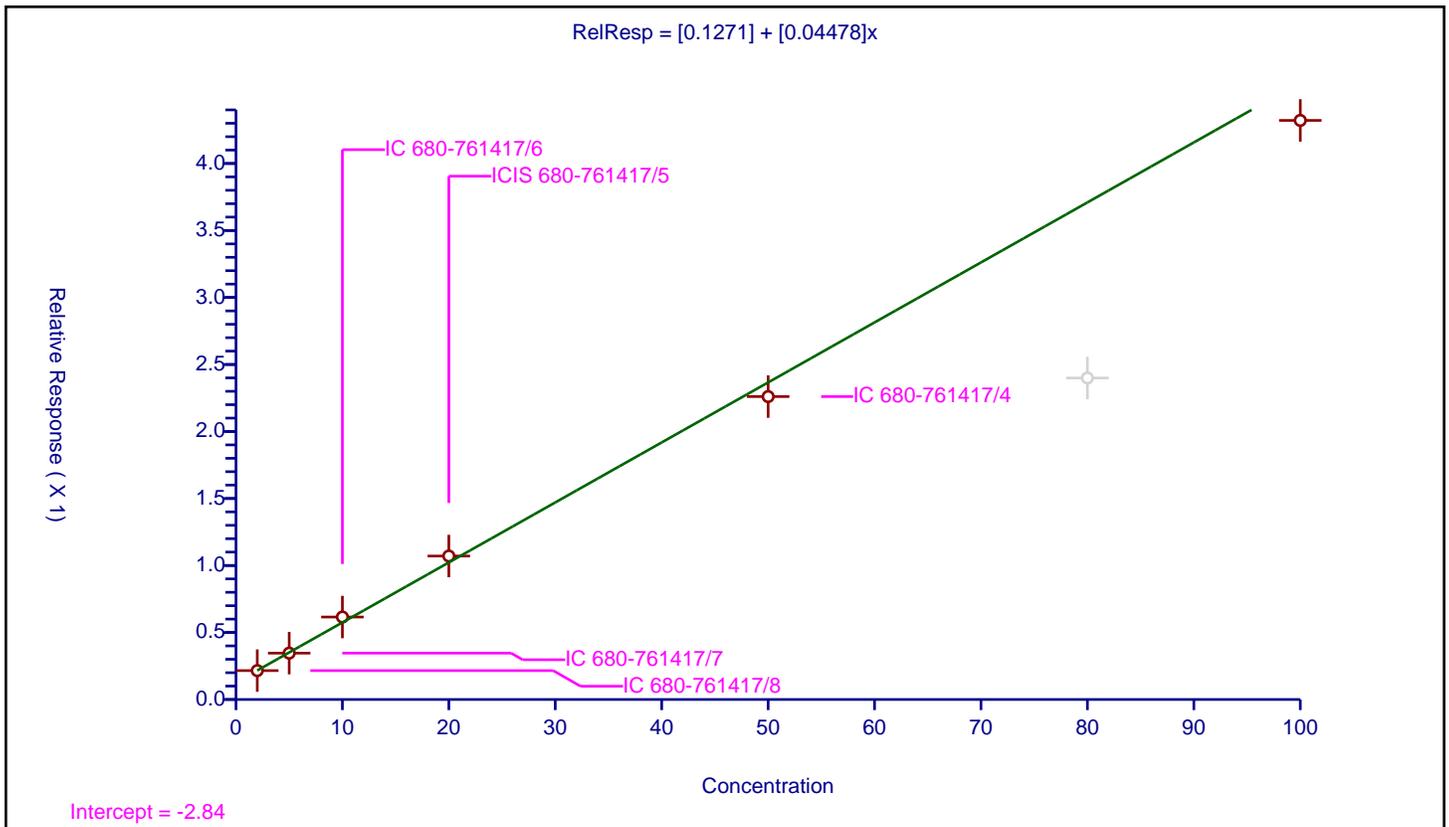
RelResp = [0.1271] + [0.04478]x

Intercept = -2.84

Calibration

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

Curve Coefficients

Intercept:	0.4914
Slope:	0.1582
Second Order:	8.621E-05

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	24.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	0.803886	50.0	3775471.0	0.401943	Y
2	IC 680-761417/7	5.0	1.595697	50.0	4124530.0	0.319139	Y
3	IC 680-761417/6	10.0	2.046858	50.0	4072778.0	0.204686	Y
4	ICIS 680-761417/5	20.0	3.195778	50.0	4808813.0	0.159789	Y
5	IC 680-761417/4	50.0	8.885624	50.0	4760307.0	0.177712	Y
6	IC 680-761417/3	80.0	10.476188	50.0	4142709.0	0.130952	N
7	IC 680-761417/2	100.0	17.123294	50.0	4448338.0	0.171233	Y

RelResp = [0.4914] + [0.1582]x + [8.621E-05]x^2
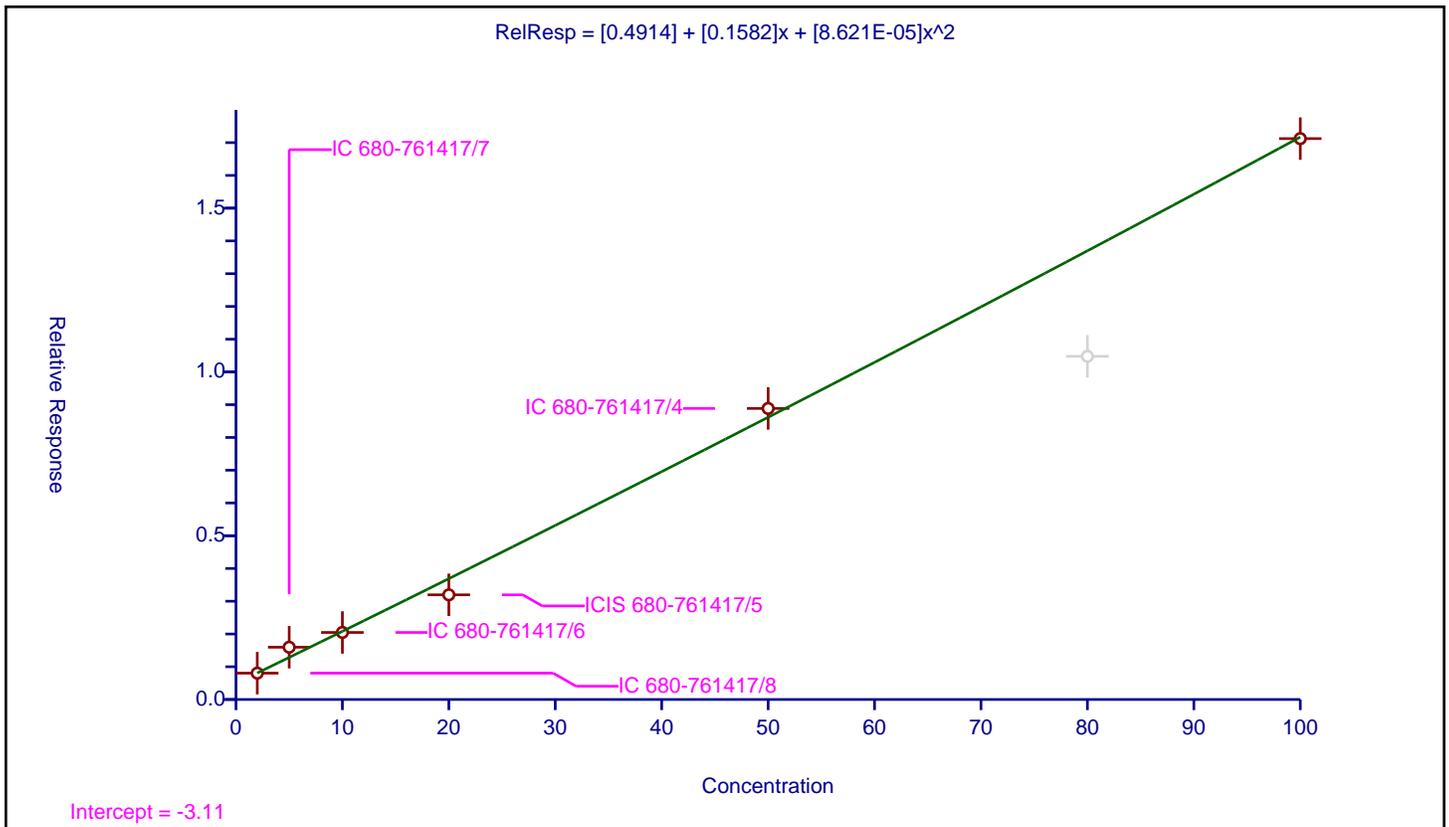
Intercept = -3.11

Calibration

/ Ethylene glycol

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

Curve Coefficients

Intercept:	1.578
Slope:	0.3634
Second Order:	-5.613E-05

Error Coefficients

Standard Error:	2280000
Relative Standard Error:	22.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	2.345111	50.0	3775471.0	1.172556	Y
2	IC 680-761417/7	5.0	4.031756	50.0	4124530.0	0.806351	Y
3	IC 680-761417/6	10.0	4.948465	50.0	4072778.0	0.494847	Y
4	ICIS 680-761417/5	20.0	7.995247	50.0	4808813.0	0.399762	Y
5	IC 680-761417/4	50.0	20.104355	50.0	4760307.0	0.402087	Y
6	IC 680-761417/3	80.0	23.135284	50.0	4142709.0	0.289191	N
7	IC 680-761417/2	100.0	37.262254	50.0	4448338.0	0.372623	Y

RelResp = [1.578] + [0.3634]x + [-5.613E-05]x^2
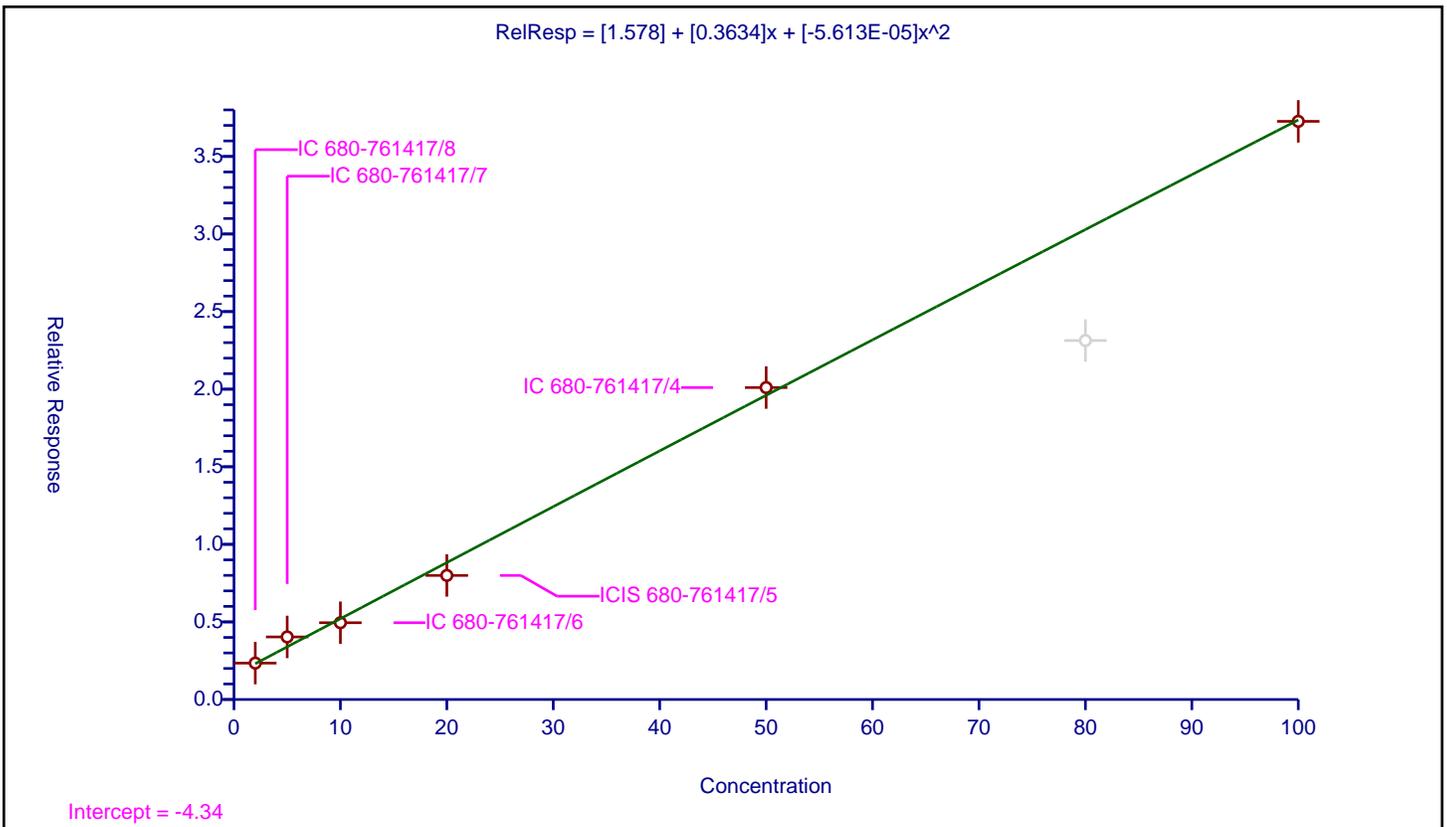
Intercept = -4.34

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

Curve Coefficients

Intercept:	1.56
Slope:	0.4916

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	6.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	2.531287	50.0	3775471.0	1.265643	Y
2	IC 680-761417/7	5.0	3.986672	50.0	4124530.0	0.797334	Y
3	IC 680-761417/6	10.0	6.815115	50.0	4072778.0	0.681511	Y
4	ICIS 680-761417/5	20.0	12.046029	50.0	4808813.0	0.602301	Y
5	IC 680-761417/4	50.0	24.906765	50.0	4760307.0	0.498135	Y
6	IC 680-761417/3	80.0	26.666959	50.0	4142709.0	0.333337	N
7	IC 680-761417/2	100.0	47.758612	50.0	4448338.0	0.477586	Y

RelResp = [1.56] + [0.4916]x
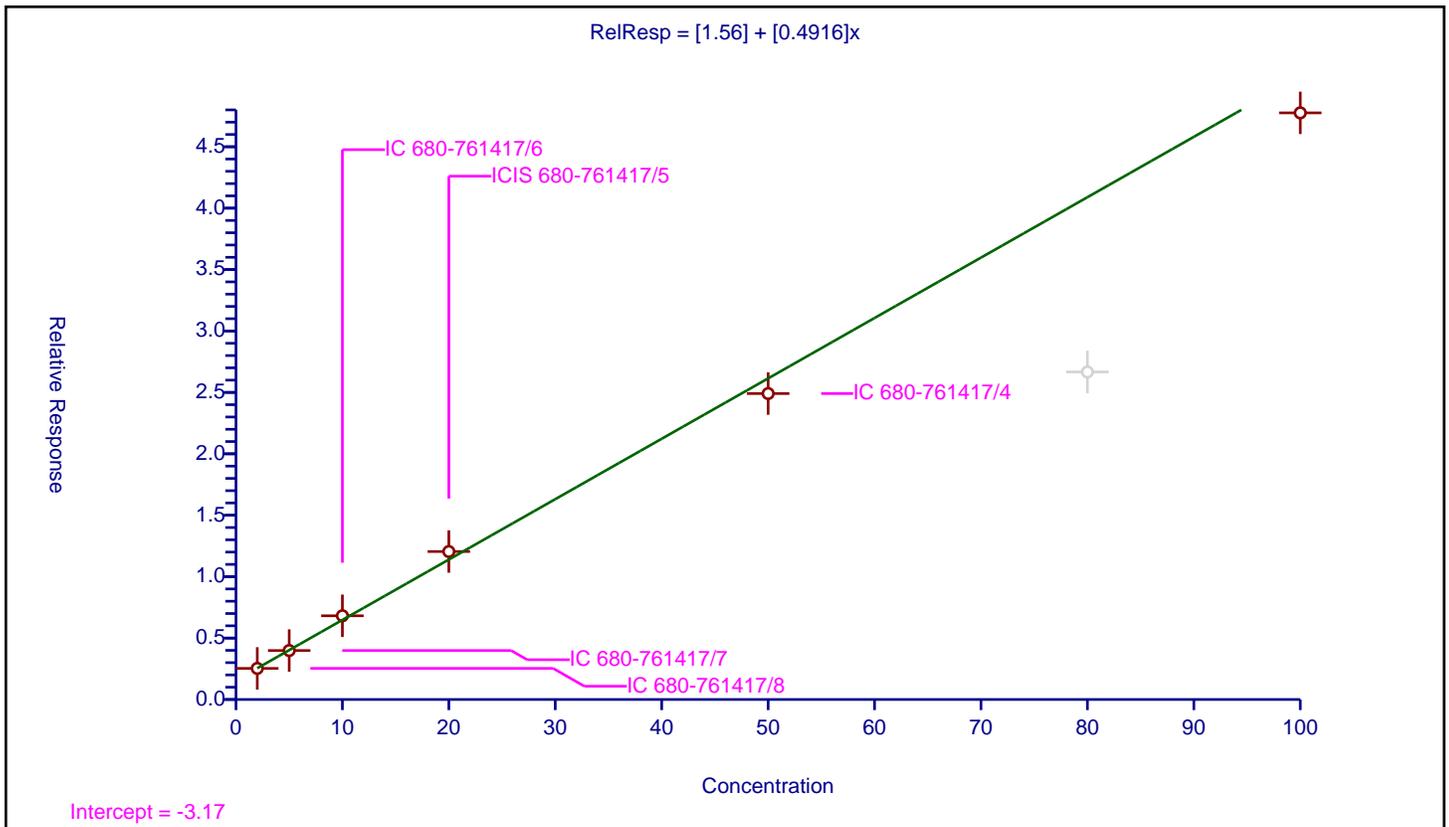
Intercept = -3.17

Calibration   **/ 2,2'-Oxybisethanol**

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

Curve Coefficients

Intercept:	0.4836
Slope:	0.2393
Second Order:	5.731E-06

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	31.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	1.01978	50.0	3775471.0	0.50989	Y
2	IC 680-761417/7	5.0	2.260209	50.0	4124530.0	0.452042	Y
3	IC 680-761417/6	10.0	2.629483	50.0	4072778.0	0.262948	Y
4	ICIS 680-761417/5	20.0	4.49611	50.0	4808813.0	0.224805	Y
5	IC 680-761417/4	50.0	12.931845	50.0	4760307.0	0.258637	Y
6	IC 680-761417/3	80.0	15.233981	50.0	4142709.0	0.190425	N
7	IC 680-761417/2	100.0	24.382275	50.0	4448338.0	0.243823	Y

RelResp = [0.4836] + [0.2393]x + [5.731E-06]x^2

Relative Response vs Concentration
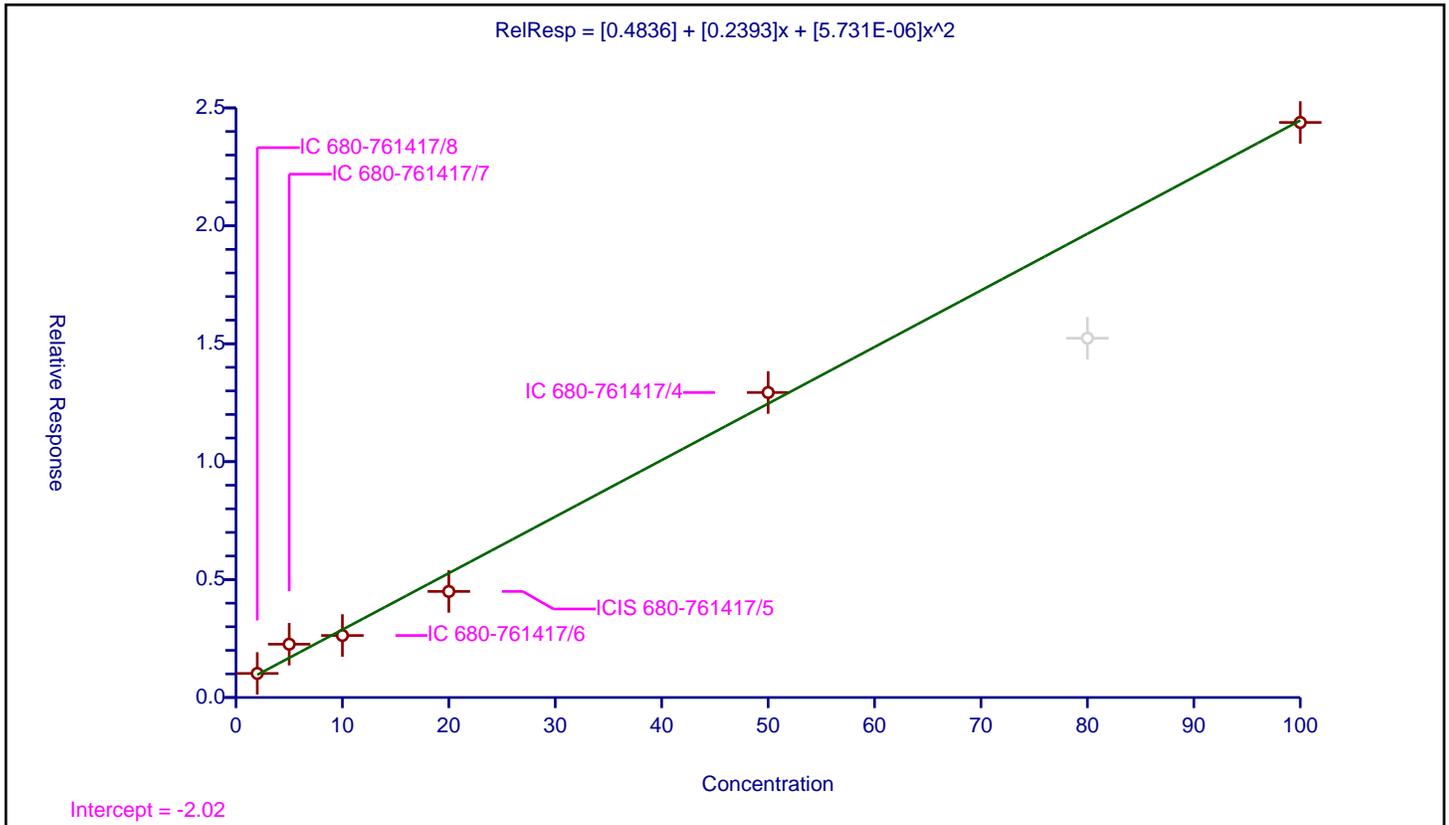
Intercept = -2.02

Calibration

/ Triethylene Glycol

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

Curve Coefficients

Intercept:	0.407
Slope:	0.2365
Second Order:	-7.258E-06

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	29.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	2.0	0.86425	50.0	3775471.0	0.432125	Y
2	IC 680-761417/7	5.0	2.161301	50.0	4124530.0	0.43226	Y
3	IC 680-761417/6	10.0	2.469445	50.0	4072778.0	0.246944	Y
4	ICIS 680-761417/5	20.0	4.597829	50.0	4808813.0	0.229891	Y
5	IC 680-761417/4	50.0	12.556911	50.0	4760307.0	0.251138	Y
6	IC 680-761417/3	80.0	14.524204	50.0	4142709.0	0.181553	N
7	IC 680-761417/2	100.0	23.919405	50.0	4448338.0	0.239194	Y

RelResp = [0.407] + [0.2365]x + [-7.258E-06]x^2
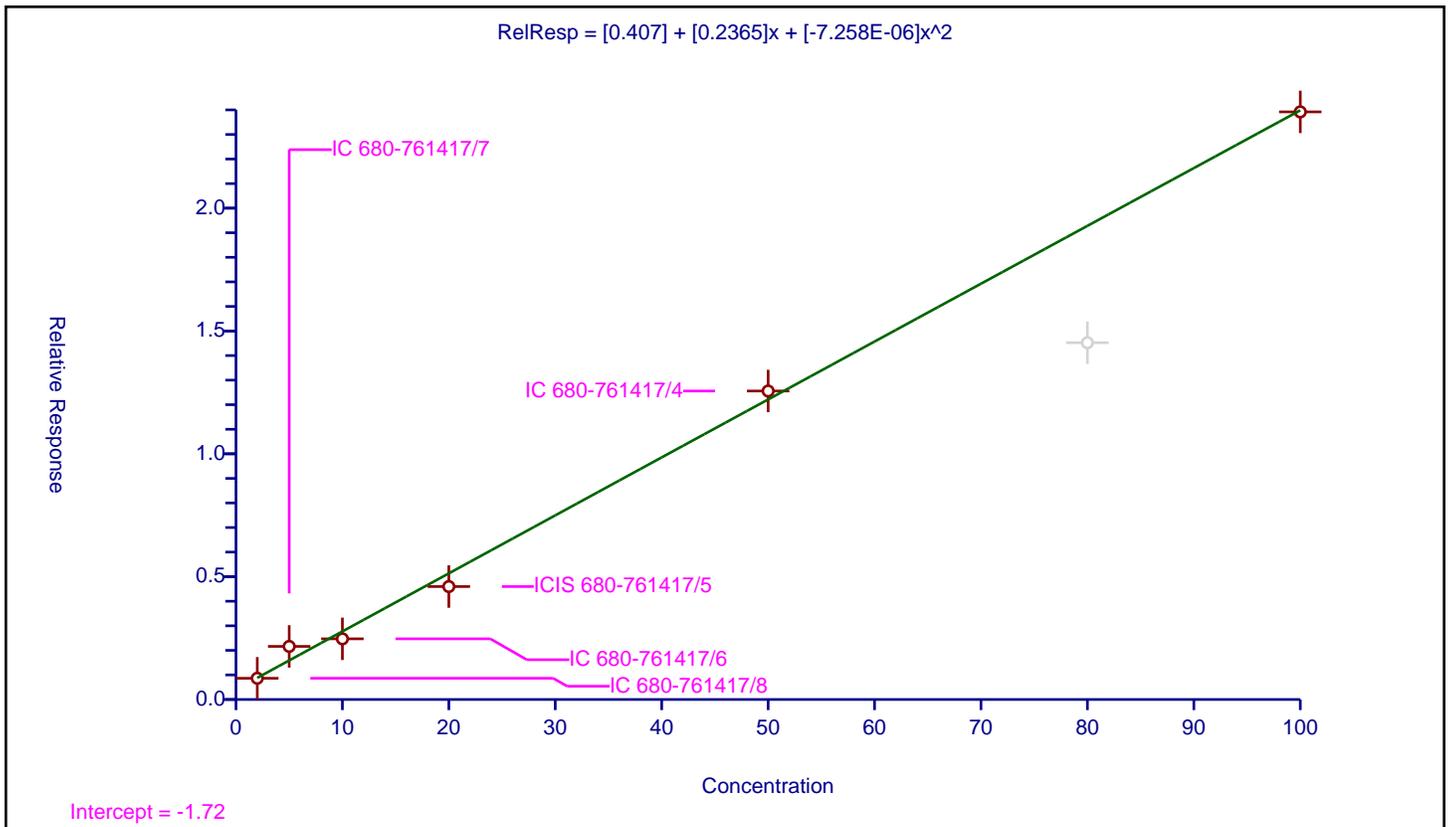
Intercept = -1.72

Calibration

/ Tetraethylene Glycol

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

Curve Coefficients

Intercept:	0.924
Slope:	0.2453
Second Order:	-1.801E-06

Error Coefficients

Standard Error:	3000000
Relative Standard Error:	28.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 680-761417/8	4.0	1.904637	50.0	3775471.0	0.476159	Y
2	IC 680-761417/7	10.0	4.518236	50.0	4124530.0	0.451824	Y
3	IC 680-761417/6	20.0	5.238808	50.0	4072778.0	0.26194	Y
4	ICIS 680-761417/5	40.0	9.58224	50.0	4808813.0	0.239556	Y
5	IC 680-761417/4	100.0	26.161674	50.0	4760307.0	0.261617	Y
6	IC 680-761417/3	160.0	29.931936	50.0	4142709.0	0.187075	N
7	IC 680-761417/2	200.0	49.768397	50.0	4448338.0	0.248842	Y

RelResp = [0.924] + [0.2453]x + [-1.801E-06]x^2

Intercept = -3.77

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Lab Sample ID: ICV 680-761417/9   Calibration Date: 01/31/2023 18:53

Instrument ID: CVGG2   Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 01/31/2023 18:30

Lab File ID: GA31016.D   Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Qua		0.7205		19.4	20.0	-2.9	20.0
4-Hydroxy-4-methyl-2-pentanone	Qua		0.6731		19.3	20.0	-3.6	20.0
2-Butoxyethanol	Qua		0.8216		20.0	20.0	0.0	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0498		19.4	20.0	-3.0	20.0
Propylene glycol	Qua		0.1959		21.4	20.0	7.0	20.0
Ethylene glycol	Qua		0.4941		22.9	20.0	14.7	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5623		19.7	20.0	-1.5	20.0
2,2'-Oxybisethanol	Qua		0.2670		20.3	20.0	1.4	20.0
Triethylene Glycol	Qua		0.2717		21.3	20.0	6.4	20.0
Tetraethylene Glycol	Qua		0.2784		41.7	40.0	4.1	20.0

FORM VII 8015C GLY

```
                              FORM VII
          GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY
```

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Lab Sample ID: ICV 680-761417/9   Calibration Date: 01/31/2023 18:53

Instrument ID: CVGG2   Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX   ID: 0.45(mm) Calib End Date: 01/31/2023 18:30

Lab File ID: GA31016.D

| Analyte | RT | RT WINDOW | |
		FROM	TO
Ethanol, 2-propoxy	3.11	3.05	3.18
4-Hydroxy-4-methyl-2-pentanone	3.70	3.63	3.78
2-Butoxyethanol	4.02	3.94	4.10
Dipropylene Glycol Methyl Ether	5.45	5.34	5.56
Propylene glycol	6.61	6.47	6.73
Ethylene glycol	6.85	6.72	7.00
2-(2-Butoxyethoxy)ethanol	8.75	8.57	8.92
2,2'-Oxybisethanol	9.74	9.54	9.93
Triethylene Glycol	10.75	10.54	10.97
Tetraethylene Glycol	12.01	11.77	12.25

Form VII 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31016.D		
Lims ID:	icv gly		
Client ID:			
Sample Type:	CCV		
Inject. Date:	31-Jan-2023 18:53:46	ALS Bottle#: 0	Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor: 1.0000	
Sample Info:	680-0083575-009		
Operator ID:		Instrument ID: CVGG2	
Sublist:	chrom-8015_GLY_VGG*sub2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\8015_GLY_VGG.m
Limit Group:	8015C_DAI
Last Update:	01-Feb-2023 12:29:57 Calib Date: 31-Jan-2023 18:30:20
Integrator:	Falcon
Quant Method:	Internal Standard Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1622

First Level Reviewer: SWK1   Date: 01-Feb-2023 12:25:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.109	3.115	-0.006	1254164	20.0	19.4	
2 4-Hydroxy-4-methyl-2-pentanone						
3.699	3.705	-0.006	1171657	20.0	19.3	
3 2-Butoxyethanol						
4.016	4.020	-0.004	1430145	20.0	20.0	
* 4 n-Heptyl Alcohol						
4.493	4.493	0.000	4351971	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.446	5.450	-0.004	86706	20.0	19.4	
6 Propylene glycol						
6.606	6.602	0.004	340962	20.0	21.4	
7 Ethylene glycol						
6.854	6.859	-0.005	860184	20.0	22.9	
8 2-(2-Butoxyethoxy)ethanol						
8.748	8.749	-0.001	978761	20.0	19.7	
9 2,2'-Oxybisethanol						
9.736	9.735	0.001	464740	20.0	20.3	
10 Triethylene Glycol						
10.751	10.751	0.000	473008	20.0	21.3	
11 Tetraethylene Glycol						
12.008	12.009	-0.001	969331	40.0	41.7	

QC Flag Legend
Processing Flags

Reagents:

SG_GlyICV_00052	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31016.D
Injection Date: 31-Jan-2023 18:53:46   Instrument ID: CVGG2   Operator ID:
Lims ID: icv gly   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)

GC FID2B, GA31016.D

2/16/2023 9:10
AM
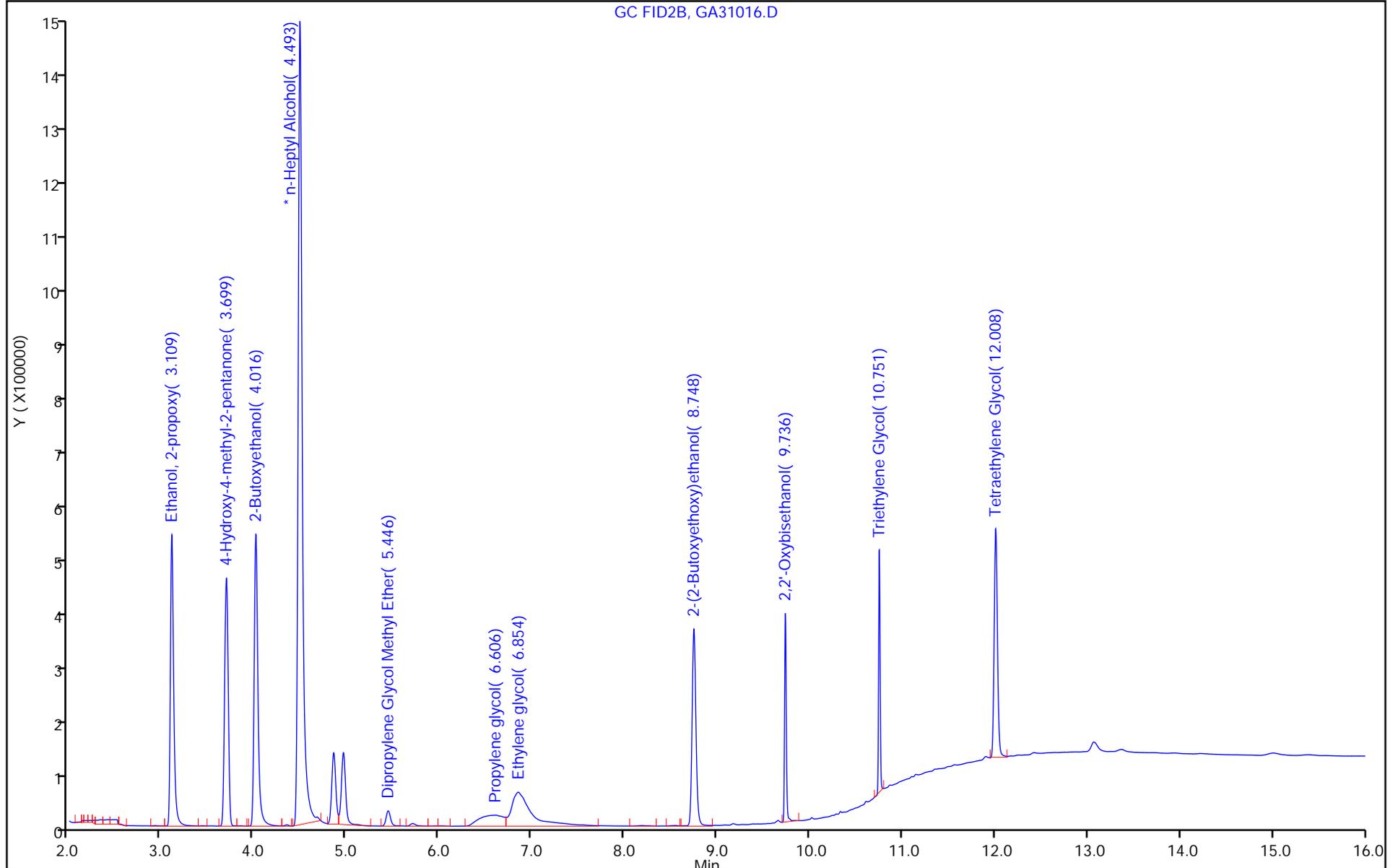
Lab Name: Eurofins Savannah _____   Job No.: 580-123424-1 _____

SDG No.: _____

Lab Sample ID: CCVIS 680-763353/6 _____   Calibration Date: 02/14/2023 15:15 _____

Instrument ID: CVGG2 _____   Calib Start Date: 01/31/2023 16:10 _____

GC Column: J&W DB WAX _____ ID: 0.45(mm) ____   Calib End Date: 01/31/2023 18:30 _____

Lab File ID: GB14006.D _____   Conc. Units: mg/L _____

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Qua		0.5893		15.2	20.0	-24.0*	20.0
4-Hydroxy-4-methyl-2-pentanone	Qua		0.5737		15.9	20.0	-20.7*	20.0
2-Butoxyethanol	Qua		0.6833		16.0	20.0	-20.2*	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0504		19.7	20.0	-1.7	20.0
Propylene glycol	Qua		0.2033		22.3	20.0	11.6	20.0
Ethylene glycol	Qua		0.4469		20.3	20.0	1.6	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5395		18.8	20.0	-6.1	20.0
2,2'-Oxybisethanol	Qua		0.2989		22.9	20.0	14.7	20.0
Triethylene Glycol	Qua		0.3160		25.0	20.0	25.1*	20.0
Tetraethylene Glycol	Qua		0.3172		48.0	40.0	19.9	20.0

FORM VII 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Lab Sample ID: CCVIS 680-763353/6   Calibration Date: 02/14/2023 15:15

Instrument ID: CVGG2   Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 01/31/2023 18:30

Lab File ID: GB14006.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.10	3.04	3.16
4-Hydroxy-4-methyl-2-pentanone	3.68	3.61	3.76
2-Butoxyethanol	4.01	3.93	4.09
Dipropylene Glycol Methyl Ether	5.43	5.32	5.54
Propylene glycol	6.58	6.45	6.71
Ethylene glycol	6.84	6.71	6.98
2-(2-Butoxyethoxy)ethanol	8.74	8.56	8.91
2,2'-Oxybisethanol	9.73	9.54	9.93
Triethylene Glycol	10.75	10.53	10.96
Tetraethylene Glycol	12.00	11.76	12.24

Form VII 8015C GLY

2/16/2023 9:10
                                                      AM

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D
Lims ID: ccvis g4
Client ID:
Sample Type: CCVIS

Inject. Date:	14-Feb-2023 15:15:07	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		

Sample Info: 680-0083839-006
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 14-Feb-2023 20:29:47   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1629

First Level Reviewer: SK9U   Date: 14-Feb-2023 15:51:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.098	3.098	0.000	1207496	20.0	15.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.683	3.683	0.000	1175579	20.0	15.9	
3 2-Butoxyethanol						M
4.006	4.006	0.000	1400145	20.0	16.0	M
* 4 n-Heptyl Alcohol						M
4.486	4.486	0.000	5122655	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.432	5.432	0.000	103254	20.0	19.7	M
6 Propylene glycol						M
6.583	6.583	0.000	416484	20.0	22.3	M
7 Ethylene glycol						
6.844	6.844	0.000	915721	20.0	20.3	
8 2-(2-Butoxyethoxy)ethanol						
8.738	8.738	0.000	1105568	20.0	18.8	
9 2,2'-Oxybisethanol						
9.733	9.733	0.000	612395	20.0	22.9	
10 Triethylene Glycol						
10.748	10.748	0.000	647542	20.0	25.0	
11 Tetraethylene Glycol						
12.004	12.004	0.000	1299804	40.0	48.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D			
Injection Date:	14-Feb-2023 15:15:07	Instrument ID:	CVGG2	Operator ID:
Lims ID:	ccvis g4			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)

GC FID2B, GB14006.D

2/16/2023 9:10 AM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D
Injection Date: 14-Feb-2023 15:15:07   Instrument ID: CVGG2
Lims ID: ccvis g4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   6
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Processing Integration Results

RT: 4.49
Area: 5030927
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

RT: 4.49
Area: 5122655
Amount: 50.000000
Amount Units: ug/ml

Reviewer: SK9U, 14-Feb-2023 15:51:25
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D
Injection Date: 14-Feb-2023 15:15:07   Instrument ID: CVGG2
Lims ID: ccvis g4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   6
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Signal: 1

RT: 4.01
Area: 1394666
Amount: 16.247964
Amount Units: ug/ml
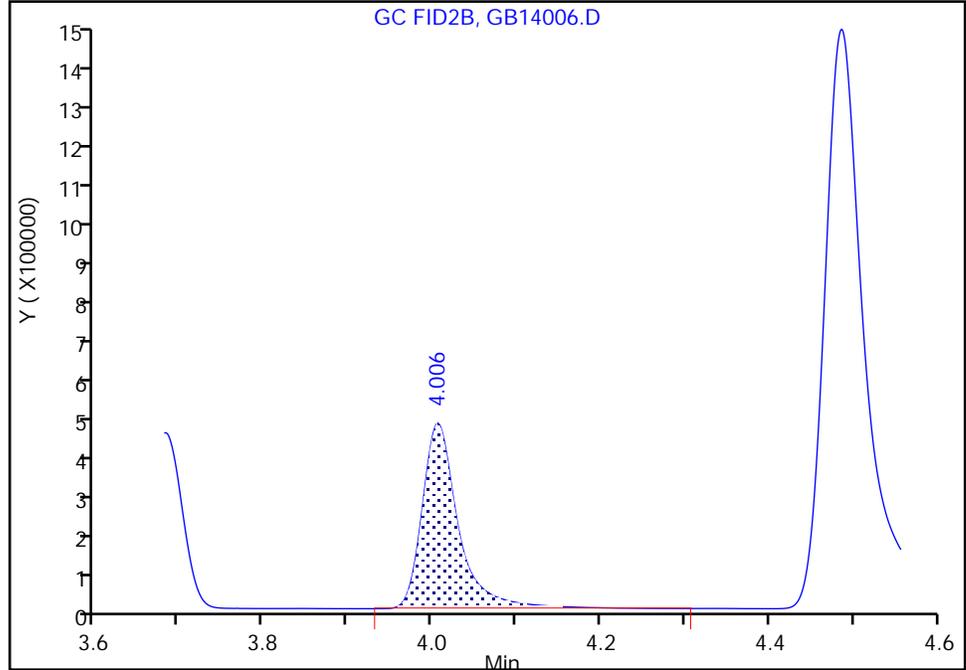
RT: 4.01
Area: 1400145
Amount: 15.965833
Amount Units: ug/ml
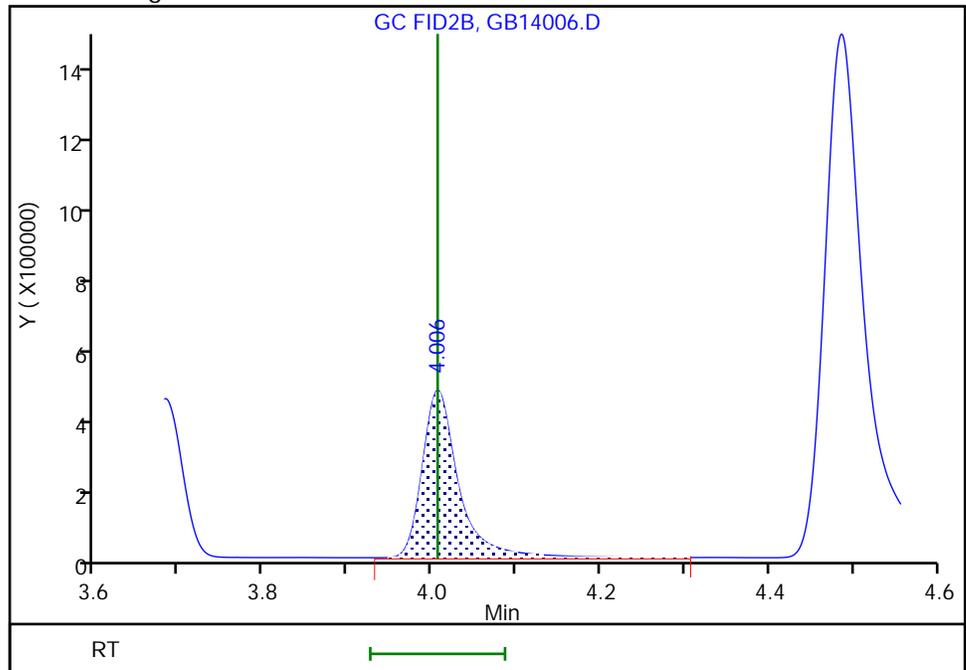
Reviewer: SK9U, 14-Feb-2023 15:51:25
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D
Injection Date: 14-Feb-2023 15:15:07   Instrument ID: CVGG2
Lims ID: ccvis g4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   6
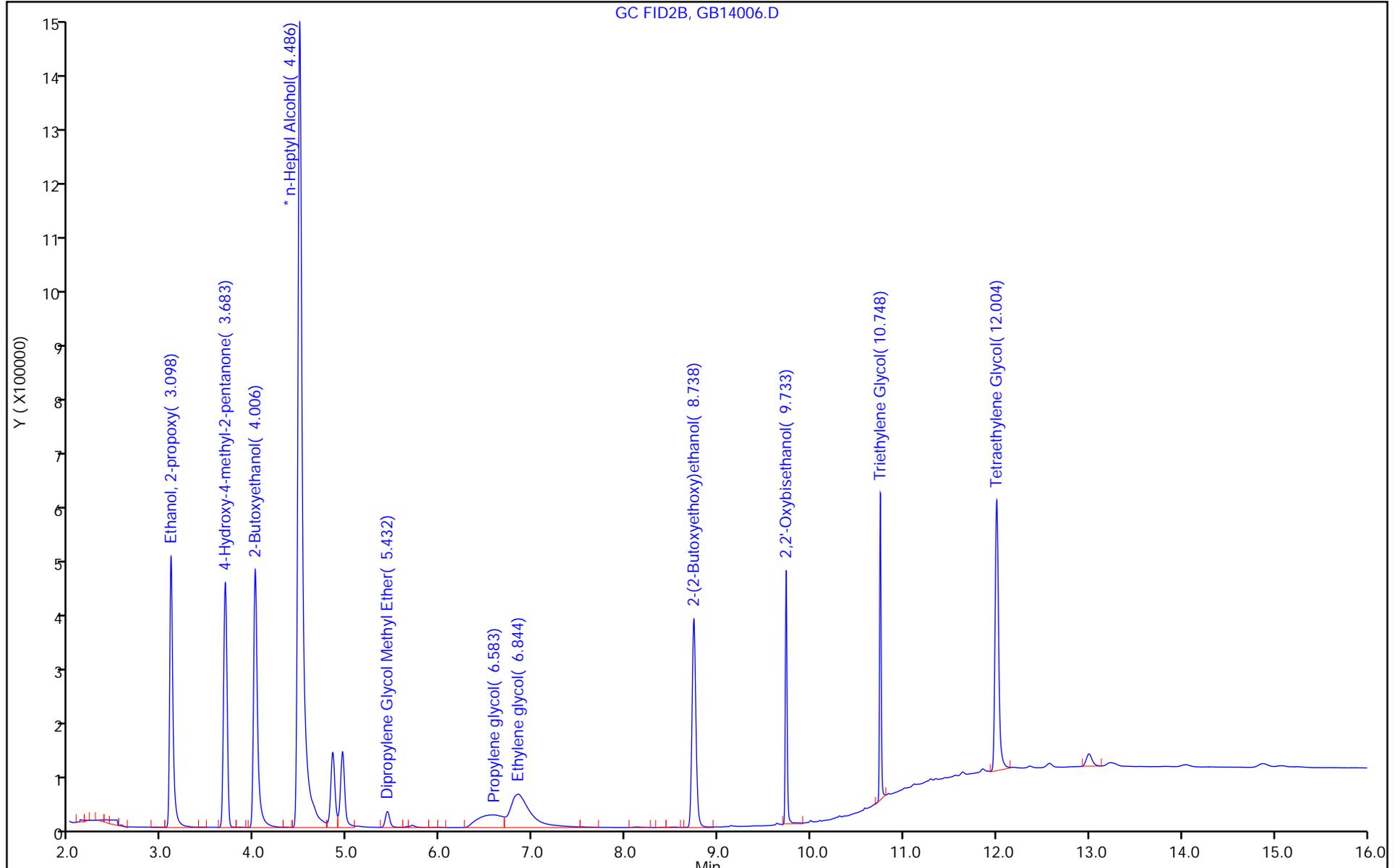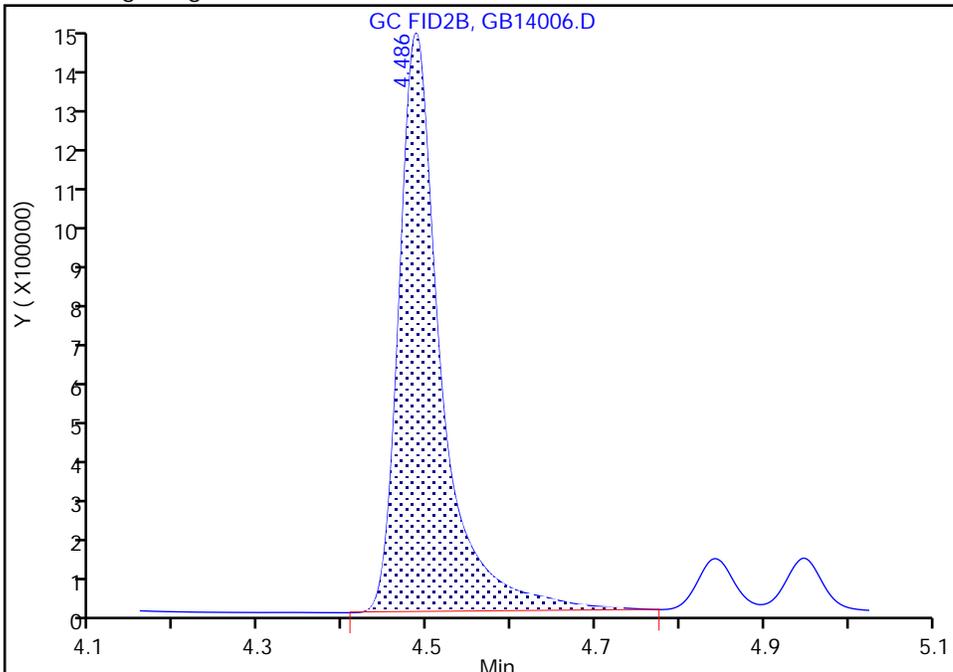Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

5 Dipropylene Glycol Methyl Ether, CAS: 34590-94-8
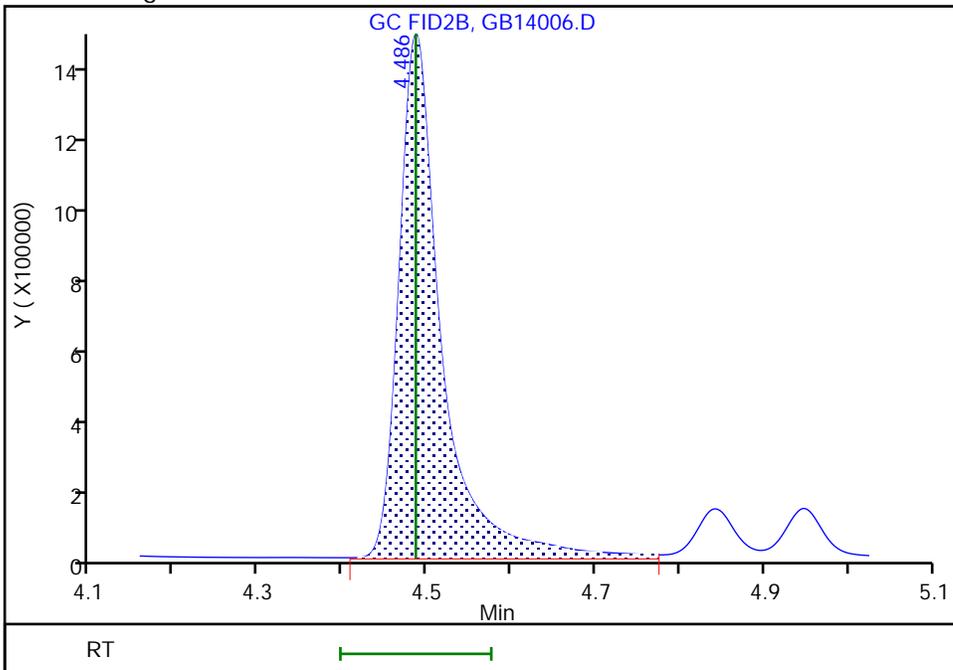
Signal: 1

Processing Integration Results

RT: 5.43
Area: 99057
Amount: 19.146835
Amount Units: ug/ml

Manual Integration Results
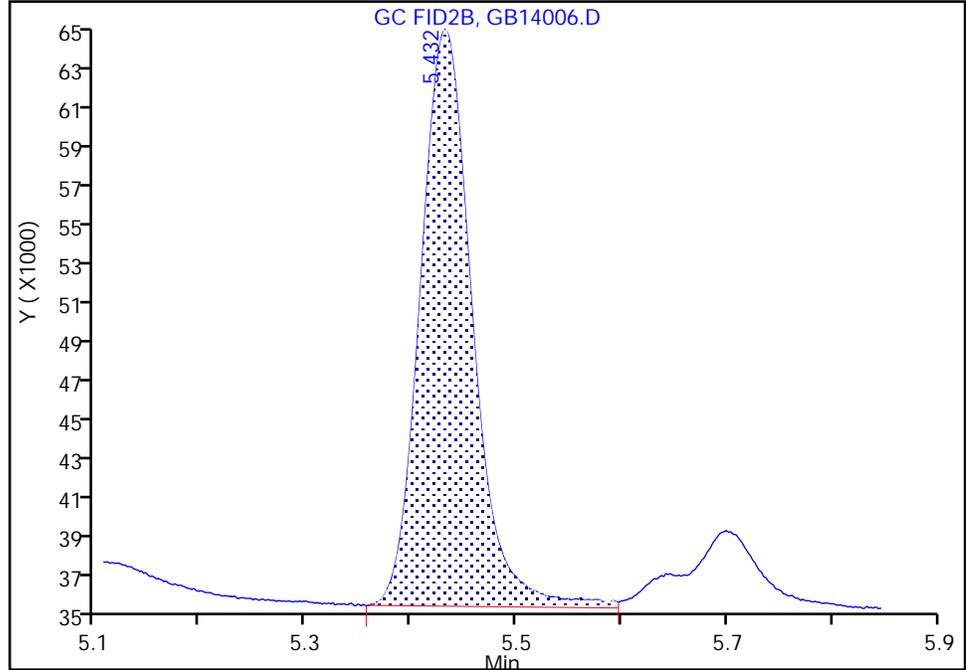
RT: 5.43
Area: 103254
Amount: 19.667984
Amount Units: ug/ml
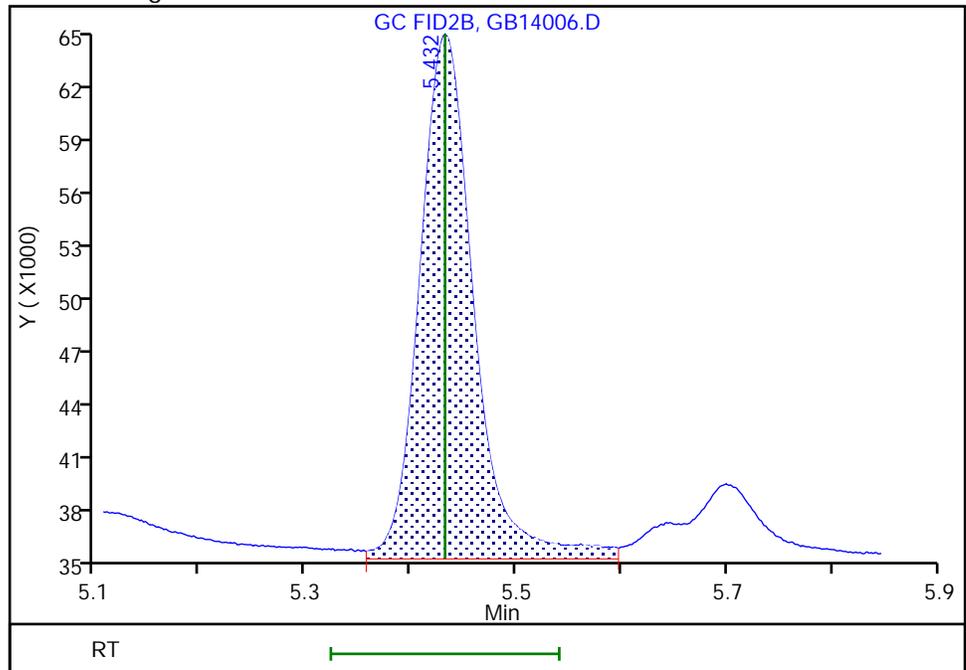
Reviewer: SK9U, 14-Feb-2023 15:51:25
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14006.D

Injection Date:	14-Feb-2023 15:15:07	Instrument ID:	CVGG2
Lims ID:	ccvis g4		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT:	6.58
Area:	178563
Amount:	8.077077
Amount Units:	ug/ml

Manual Integration Results
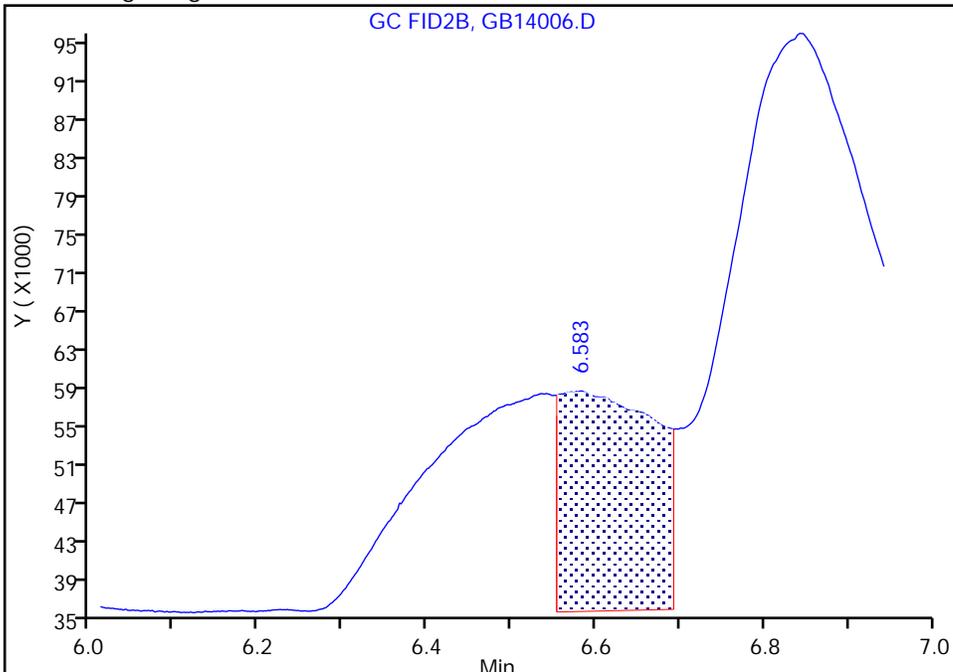
RT:	6.58
Area:	416484
Amount:	22.321291
Amount Units:	ug/ml
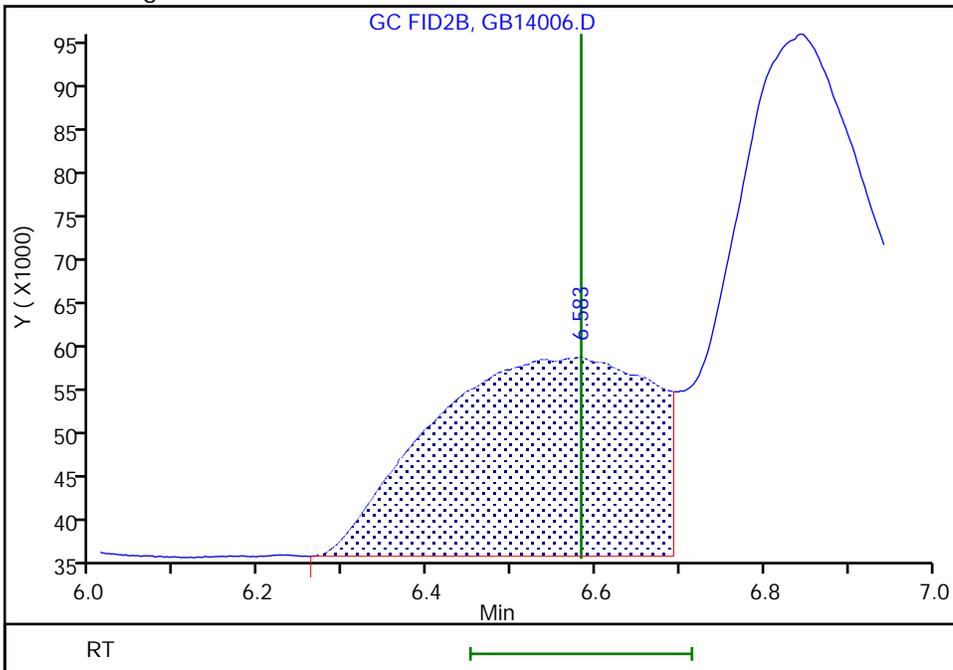
Reviewer: SK9U, 14-Feb-2023 15:51:02
Audit Action: Manually Integrated   Audit Reason: Baseline Smoothing

Lab Name: Eurofins Savannah _____ Job No.: 580-123424-1 _____

SDG No.: _____

Lab Sample ID: CCV 680-763353/18 _____ Calibration Date: 02/14/2023 19:55 ____

Instrument ID: CVGG2 _____ Calib Start Date: 01/31/2023 16:10 ____

GC Column: J&W DB WAX _____ ID: 0.45(mm) ____ Calib End Date: 01/31/2023 18:30 ____

Lab File ID: GB14018.D _____ Conc. Units: mg/L _____

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Qua		0.7034		18.9	20.0	-5.6	20.0
4-Hydroxy-4-methyl-2-pentanone	Qua		0.6276		17.7	20.0	-11.5	20.0
2-Butoxyethanol	Qua		0.8055		19.5	20.0	-2.3	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0497		19.3	20.0	-3.3	20.0
Propylene glycol	Qua		0.1470		15.4	20.0	-23.2*	20.0
Ethylene glycol	Qua		0.3376		14.3	20.0	-28.6*	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5399		18.8	20.0	-6.0	20.0
2,2'-Oxybisethanol	Qua		0.2014		14.8	20.0	-25.9*	20.0
Triethylene Glycol	Qua		0.1910		14.4	20.0	-27.8*	20.0
Tetraethylene Glycol	Qua		0.1180		15.5	40.0	-61.3*	20.0

FORM VII 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Lab Sample ID: CCV 680-763353/18   Calibration Date: 02/14/2023 19:55

Instrument ID: CVGG2   Calib Start Date: 01/31/2023 16:10

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 01/31/2023 18:30

Lab File ID: GB14018.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.10	3.04	3.16
4-Hydroxy-4-methyl-2-pentanone	3.69	3.61	3.76
2-Butoxyethanol	4.00	3.92	4.08
Dipropylene Glycol Methyl Ether	5.43	5.32	5.54
Propylene glycol	6.59	6.46	6.72
Ethylene glycol	6.83	6.69	6.97
2-(2-Butoxyethoxy)ethanol	8.73	8.56	8.91
2,2'-Oxybisethanol	9.73	9.54	9.93
Triethylene Glycol	10.75	10.53	10.96
Tetraethylene Glycol	12.00	11.76	12.24

Form VII 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D	
Lims ID:	ccv l4	
Client ID:		
Sample Type:	CCV	
Inject. Date:	14-Feb-2023 19:55:13	ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083839-018	
Operator ID:		Instrument ID: CVGG2
Sublist:	chrom-8015_GLY_VGG*sub2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	14-Feb-2023 20:29:46	Calib Date: 31-Jan-2023 18:30:20
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1629	

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:29:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						M
3.097	3.097	0.000	1552752	20.0	18.9	M
2 4-Hydroxy-4-methyl-2-pentanone						M
3.686	3.686	0.000	1385508	20.0	17.7	M
3 2-Butoxyethanol						M
4.003	4.003	0.000	1778183	20.0	19.5	M
* 4 n-Heptyl Alcohol						M
4.476	4.476	0.000	5518735	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.432	5.432	0.000	109641	20.0	19.3	M
6 Propylene glycol						M
6.587	6.587	0.000	324491	20.0	15.4	M
7 Ethylene glycol						Ma
6.829	6.829	0.000	745359	20.0	14.3	M
8 2-(2-Butoxyethoxy)ethanol						
8.732	8.732	0.000	1191818	20.0	18.8	
9 2,2'-Oxybisethanol						
9.731	9.731	0.000	444668	20.0	14.8	
10 Triethylene Glycol						
10.748	10.748	0.000	421611	20.0	14.4	
11 Tetraethylene Glycol						
12.001	12.001	0.000	520945	40.0	15.5	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated
 a - User Assigned ID

Reagents:

SG_Gly_CAL_00052   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date: 14-Feb-2023 19:55:13   Instrument ID: CVGG2   Operator ID:
Lims ID: ccv I4   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, GB14018.D

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D

Injection Date:	14-Feb-2023 19:55:13	Instrument ID:	CVGG2
Lims ID:	ccv l4		
Client ID:			
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	18
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:	3.10
Area:	1100067
Amount:	12.553160
Amount Units:	ug/ml

Manual Integration Results

RT:	3.10
Area:	1552752
Amount:	18.875952
Amount Units:	ug/ml
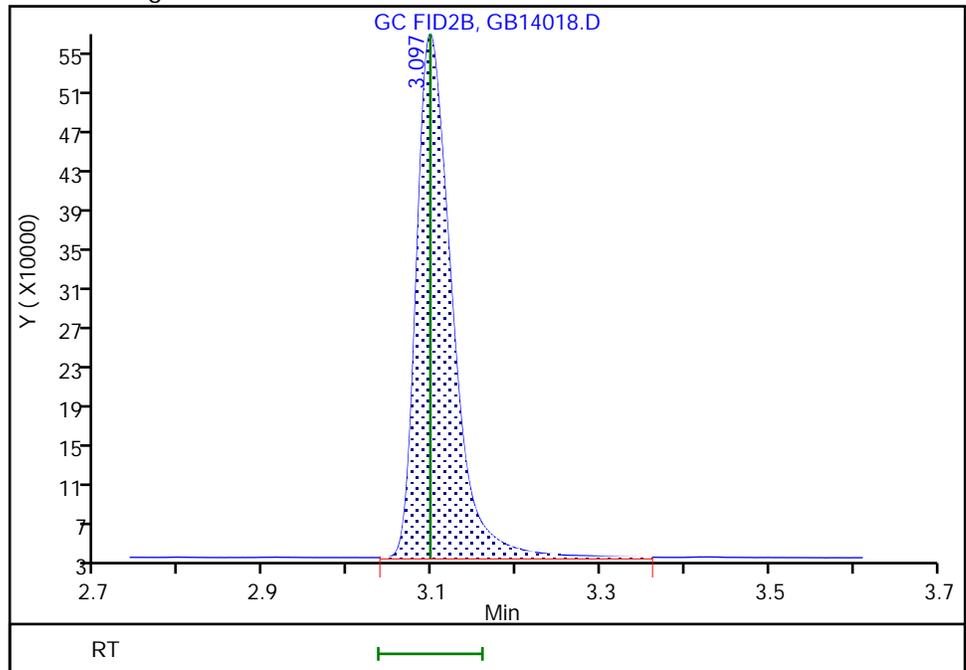
Reviewer: SK9U, 14-Feb-2023 20:24:21

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date:	14-Feb-2023 19:55:13

Injection Date:	14-Feb-2023 19:55:13	Instrument ID:	CVGG2	
Lims ID:	ccv I4			
Client ID:				
Operator ID:		ALS Bottle#:	0	Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI	
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B	

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

Signal: 1

Processing Integration Results

RT:	4.48
Area:	5436804
Amount:	50.000000
Amount Units:	ug/ml

Manual Integration Results

RT:	4.48
Area:	5518735
Amount:	50.000000
Amount Units:	ug/ml

Reviewer: SK9U, 14-Feb-2023 20:25:11

Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date:	14-Feb-2023 19:55:13
Lims ID:	ccv l4
Client ID:	
Operator ID:	
Injection Vol:	1.0 ul
Method:	8015_GLY_VGG
Column:	J&W DB WAX (0.45 mm)

Instrument ID:	CVGG2
ALS Bottle#:	0 Worklist Smp#: 18
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector:	GC FID2B

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

Signal: 1

Processing Integration Results

RT:	3.69
Area:	1383904
Amount:	17.684373
Amount Units:	ug/ml

Manual Integration Results

RT:	3.69
Area:	1385508
Amount:	17.709441
Amount Units:	ug/ml
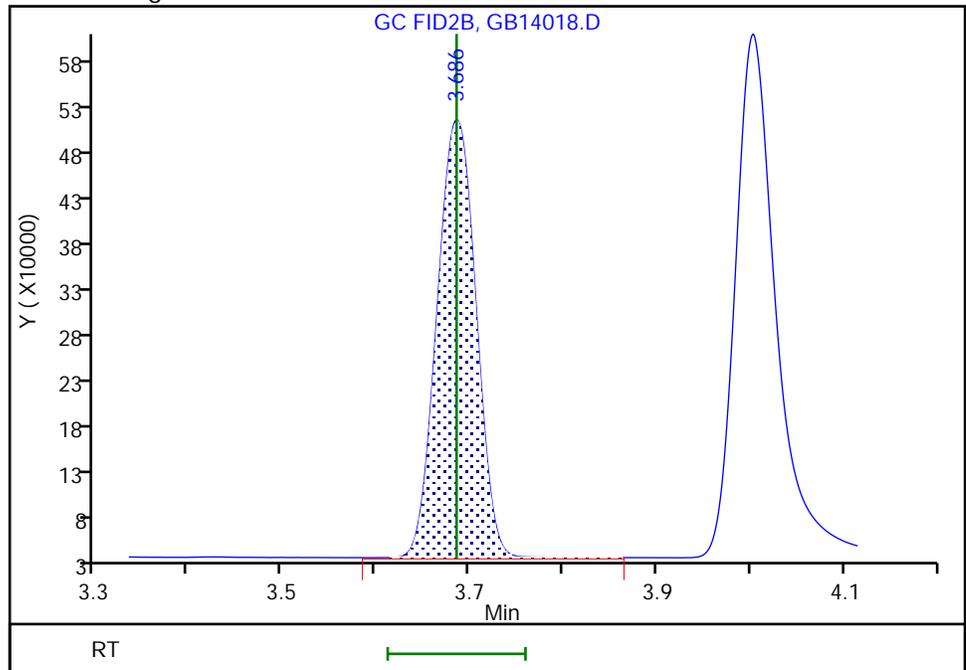
Reviewer: SK9U, 14-Feb-2023 20:25:19
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

2/16/2023 9:10
AM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date: 14-Feb-2023 19:55:13   Instrument ID: CVGG2
Lims ID: ccv I4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   18
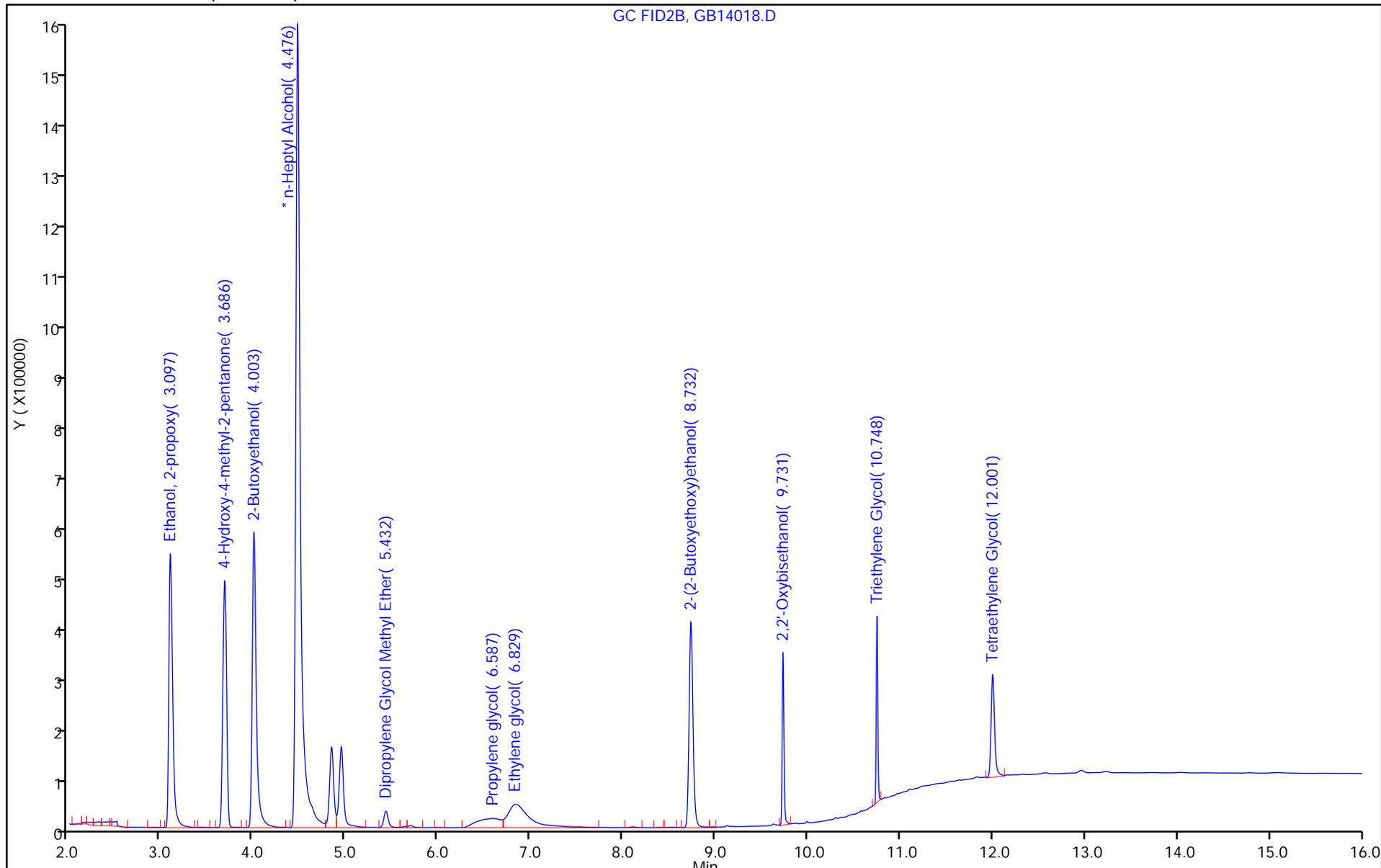Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Signal: 1

RT: 4.00
Area: 1770899
Amount: 19.435110
Amount Units: ug/ml

Processing Integration Results
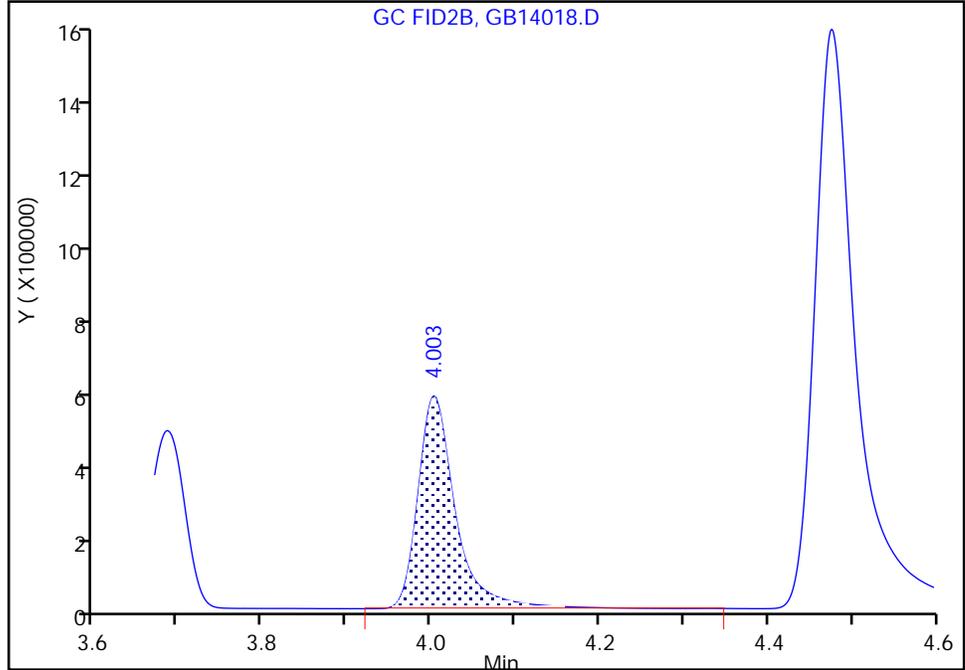
RT: 4.00
Area: 1778183
Amount: 19.532118
Amount Units: ug/ml
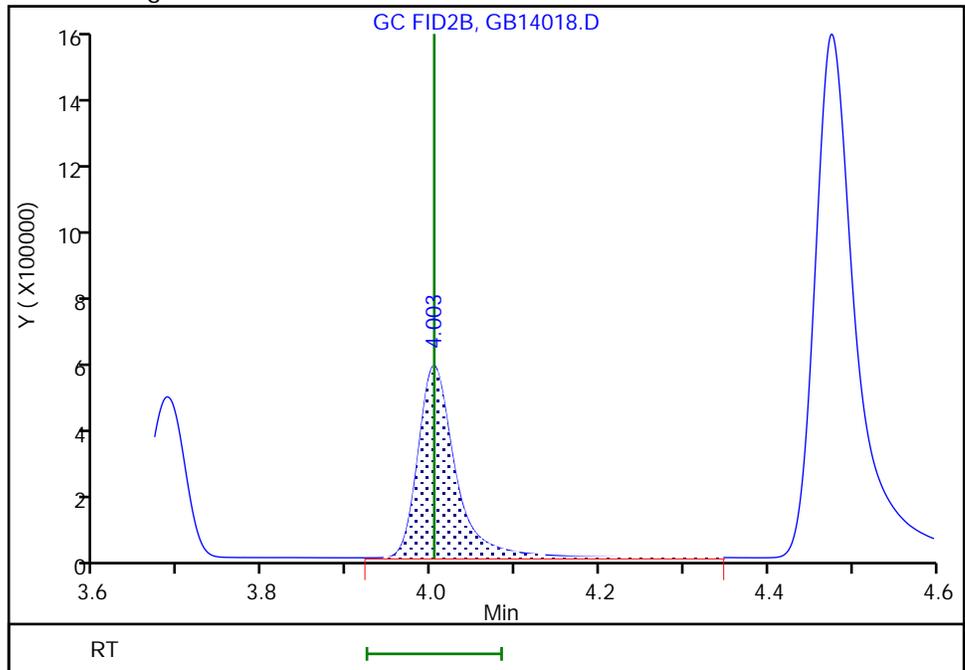
Manual Integration Results

Reviewer: SK9U, 14-Feb-2023 20:25:19
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

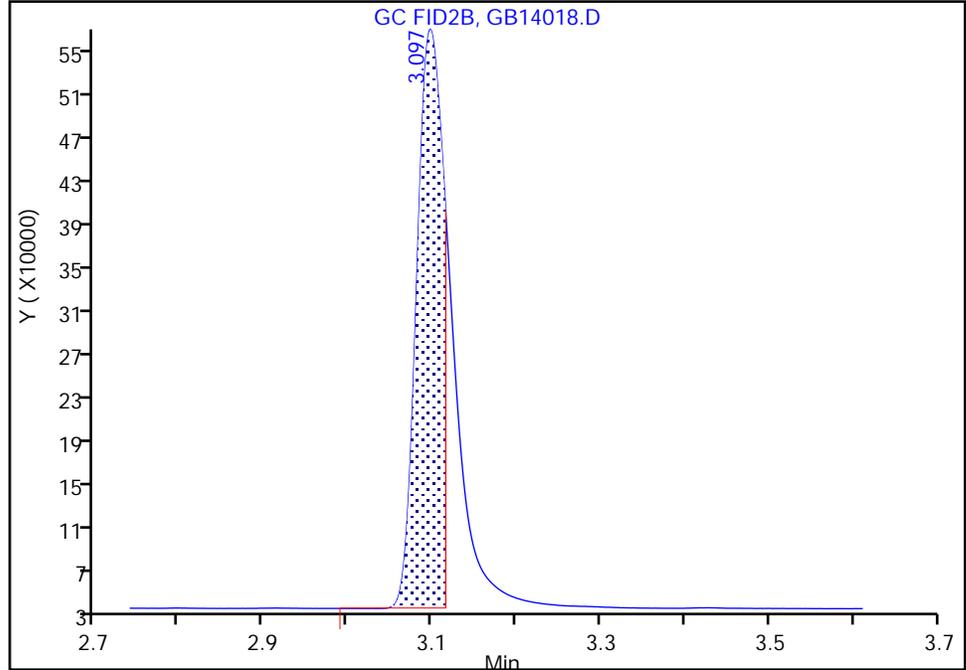Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date: 14-Feb-2023 19:55:13   Instrument ID: CVGG2
Lims ID: ccv l4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   18
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Signal: 1

Processing Integration Results

RT: 5.43
Area: 109072
Amount: 19.562401
Amount Units: ug/ml

Manual Integration Results

RT: 5.43
Area: 109641
Amount: 19.344964
Amount Units: ug/ml
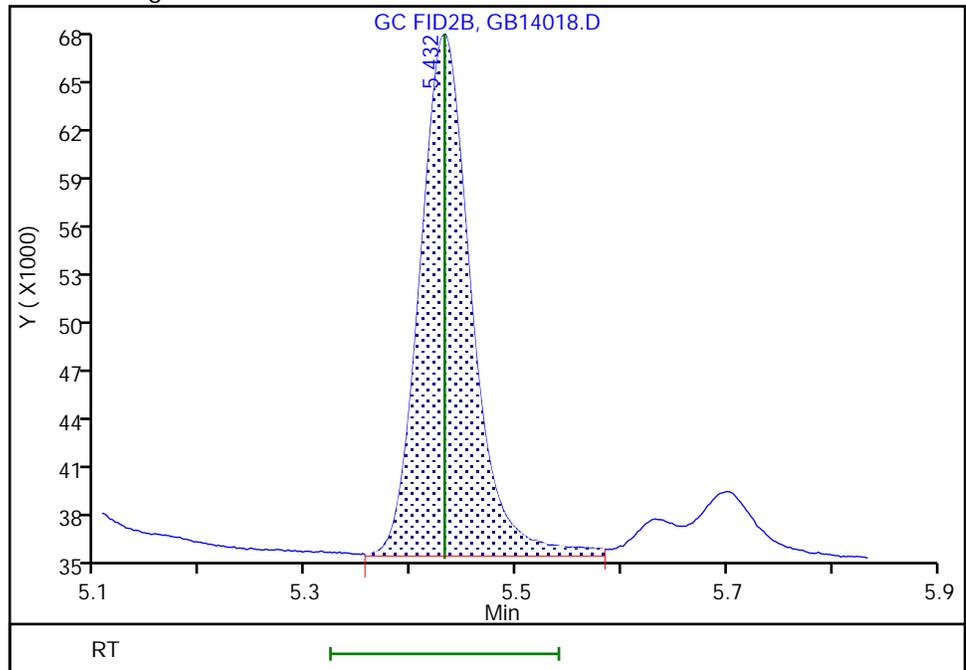
Reviewer: SK9U, 14-Feb-2023 20:25:11
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
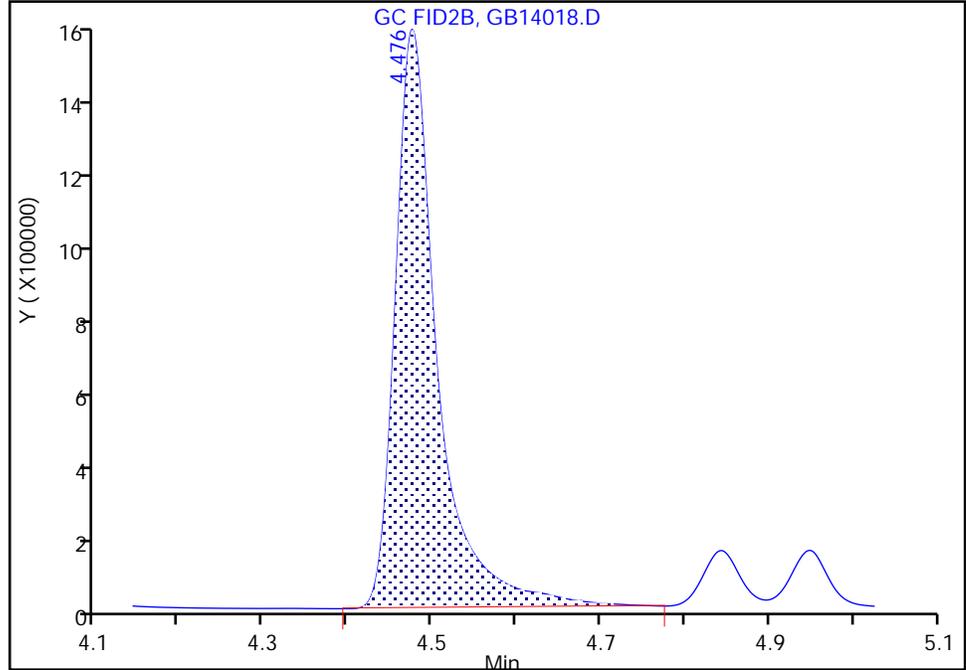
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date: 14-Feb-2023 19:55:13   Instrument ID: CVGG2
Lims ID: ccv l4
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   18
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
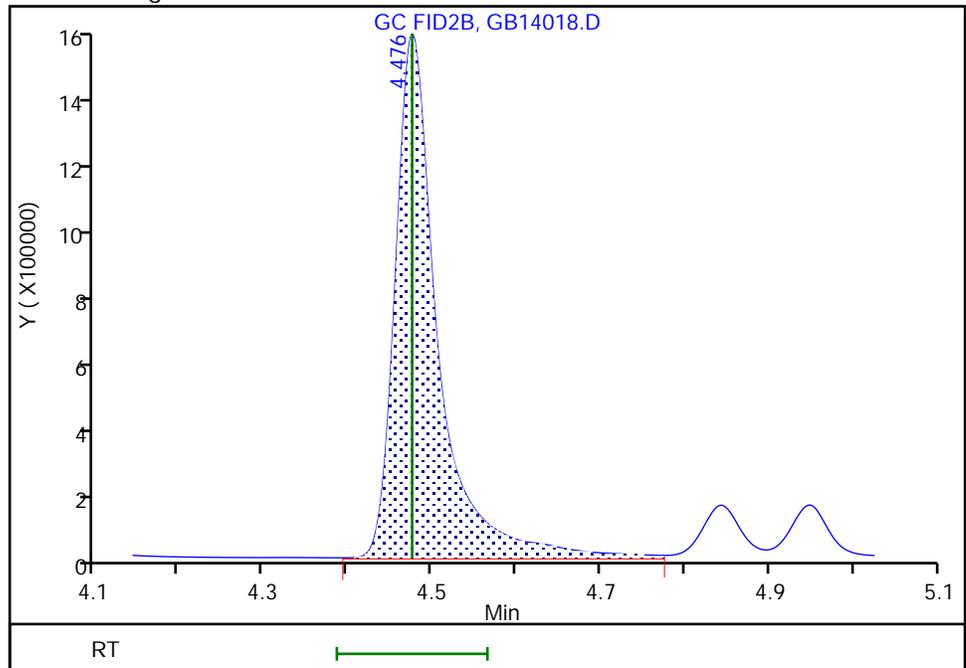Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT: 6.59
Area: 139991
Amount: 5.018760
Amount Units: ug/ml

Manual Integration Results

RT: 6.59
Area: 324491
Amount: 15.350857
Amount Units: ug/ml
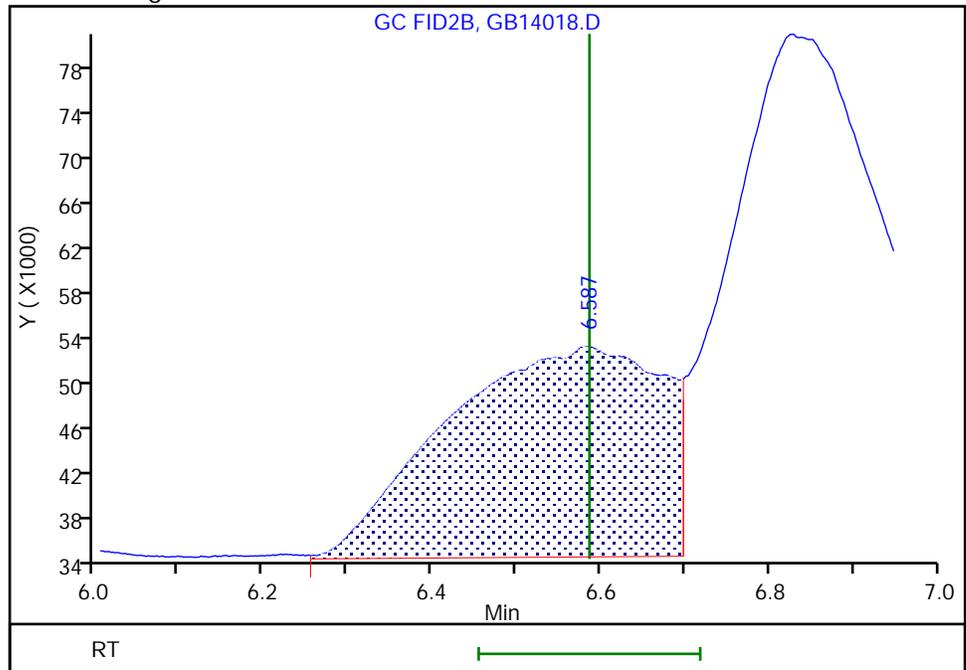
RT

Reviewer: SK9U, 14-Feb-2023 20:25:15
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
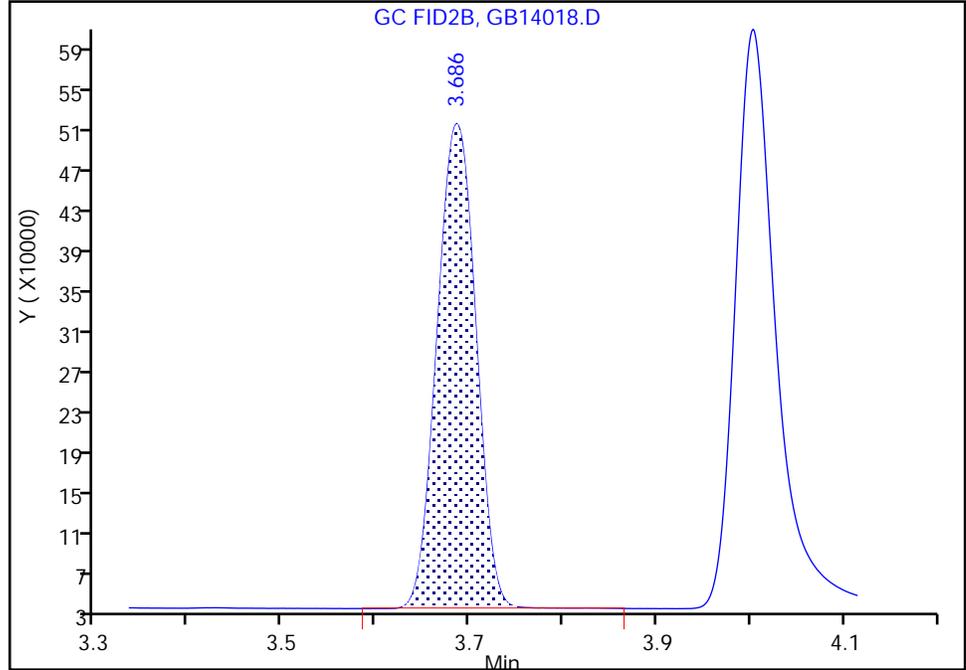
Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14018.D
Injection Date:	14-Feb-2023 19:55:13
Lims ID:	ccv l4
Client ID:	
Operator ID:	
Injection Vol:	1.0 ul
Method:	8015_GLY_VGG
Column:	J&W DB WAX (0.45 mm)

Instrument ID:	CVGG2
ALS Bottle#:	0 Worklist Smp#: 18
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT:	6.83
Area:	690641
Amount:	13.162752
Amount Units:	ug/ml

Manual Integration Results
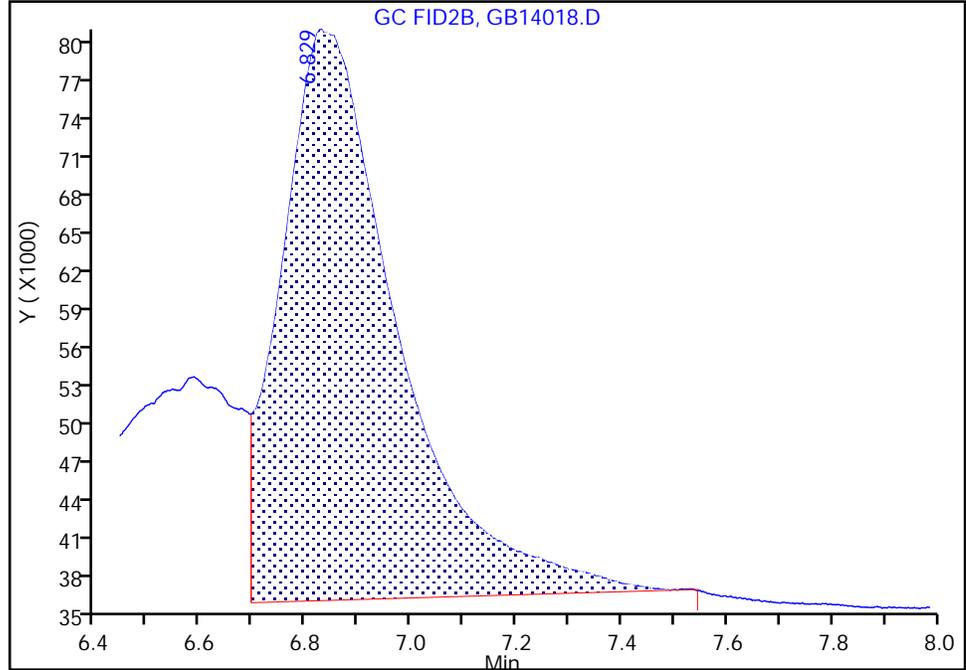
RT:	6.83
Area:	745359
Amount:	14.272302
Amount Units:	ug/ml
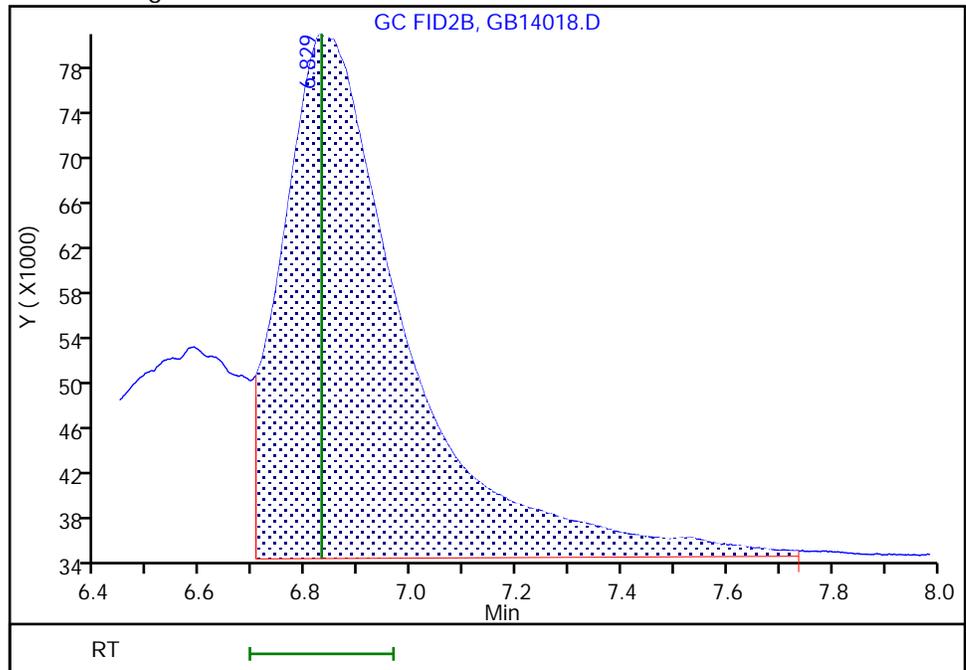
Reviewer: SK9U, 14-Feb-2023 20:25:15
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

2/16/2023 9:10 AM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 680-763353/10

Matrix: Water   Lab File ID: GB14010.D

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 16:48

Con. Extract Vol.: 1(mL)   Dilution Factor: 1

Injection Volume: 1(uL)   GC Column: J&W DB WAX   ID: 0.45(mm)

% Moisture: _____ % Solids: _____   GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 763353   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

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14010.D			
Lims ID:	mb			
Client ID:				
Sample Type:	MB			
Inject. Date:	14-Feb-2023 16:48:28	ALS Bottle#:	0	Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Sample Info:	680-0083839-010			
Operator ID:		Instrument ID:	CVGG2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	14-Feb-2023 20:26:11	Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D		

Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B
Process Host:	CTX1629		

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:26:11

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol						
4.477	4.476	0.001	5455712	50.0	50.0	
6 Propylene glycol						7
6.593	6.587	0.006	2867		-2.95	7
LOD =	0.5000					
8 2-(2-Butoxyethoxy)ethanol						7
8.739	8.732	0.007	5091		-3.08	7
LOD =	0.5000					

QC Flag Legend
Processing Flags
 7 - Failed Limit of Detection

Reagents:
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent
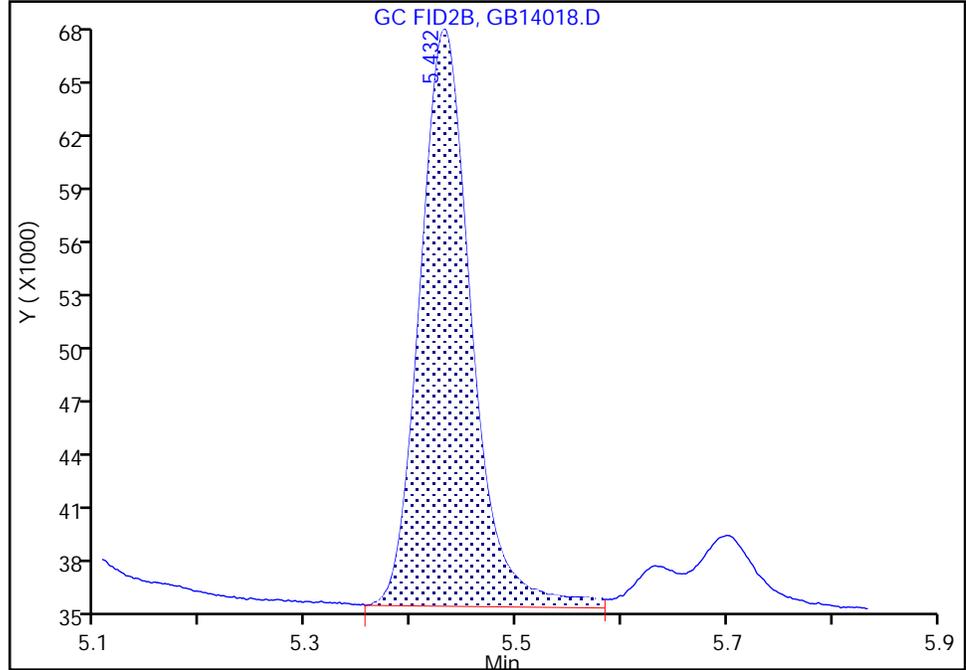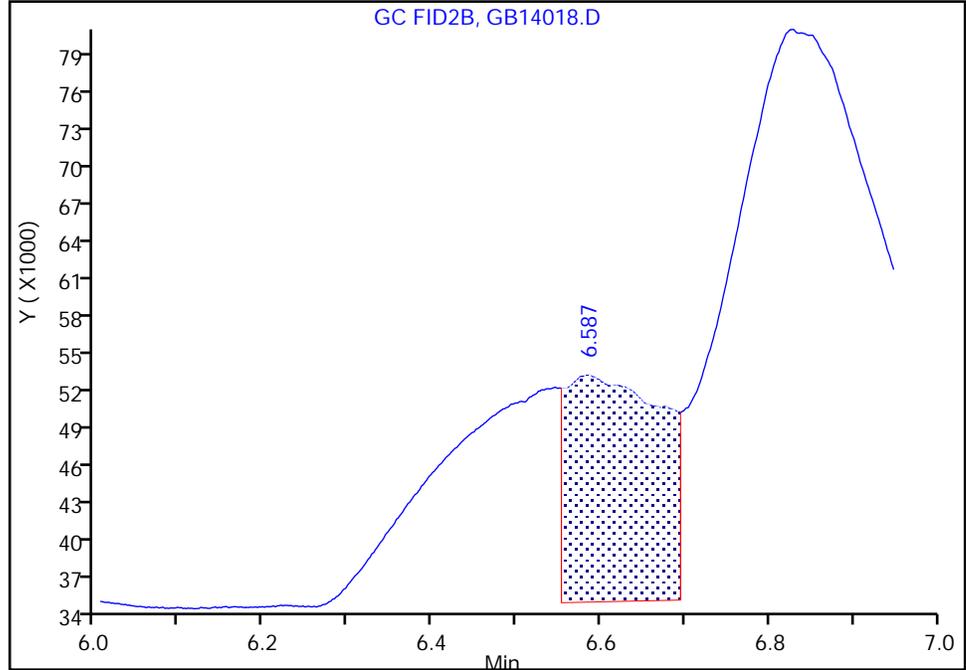
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14010.D

Injection Date: 14-Feb-2023 16:48:28   Instrument ID: CVGG2   Operator ID:

Lims ID: mb   Worklist Smp#:   10

Client ID:

Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0

Method: 8015_GLY_VGG   Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)

GC FID2B, GB14010.D

2/16/2023 9:10
AM
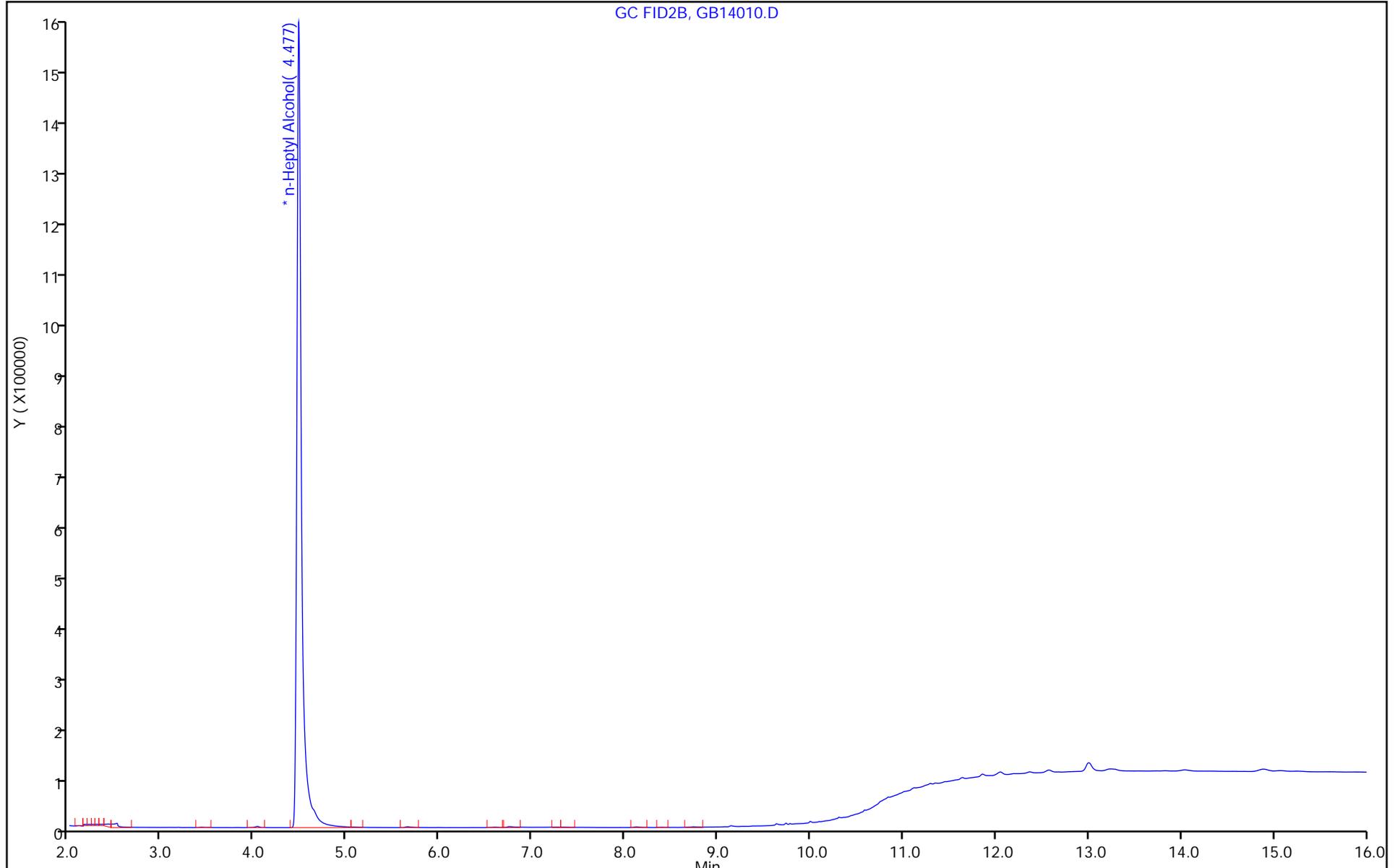
FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 680-763353/1006

Matrix: Water   Lab File ID: -GB14006-LCS.d

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 15:15

Con. Extract Vol.: 1(mL)   Dilution Factor: 1

Injection Volume: 1(uL)   GC Column: J&W DB WAX   ID: 0.45(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 763353   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	18.8		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Environment Testing America
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\-GB14006-LCS.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Feb-2023 15:15:07   ALS Bottle#:   0   Worklist Smp#:   1006
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083839-006
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 14-Feb-2023 20:29:47   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1629

First Level Reviewer: SK9U   Date: 14-Feb-2023 15:51:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.098	3.098	0.000	1207496	20.0	15.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.683	3.683	0.000	1175579	20.0	15.9	
3 2-Butoxyethanol						M
4.006	4.006	0.000	1400145	20.0	16.0	M
* 4 n-Heptyl Alcohol						M
4.486	4.486	0.000	5122655	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.432	5.432	0.000	103254	20.0	19.7	M
6 Propylene glycol						M
6.583	6.583	0.000	416484	20.0	22.3	M
7 Ethylene glycol						
6.844	6.844	0.000	915721	20.0	20.3	
8 2-(2-Butoxyethoxy)ethanol						
8.738	8.738	0.000	1105568	20.0	18.8	
9 2,2'-Oxybisethanol						
9.733	9.733	0.000	612395	20.0	22.9	
10 Triethylene Glycol						
10.748	10.748	0.000	647542	20.0	25.0	
11 Tetraethylene Glycol						
12.004	12.004	0.000	1299804	40.0	48.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052	Amount Added: 10.00	Units: uL
SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL Run Reagent

Eurofins Environment Testing America

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\-GB14006-LCS.d
Injection Date: 14-Feb-2023 15:15:07   Instrument ID: CVGG2   Operator ID:
Lims ID: LCS   Worklist Smp#:   1006
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, -GB14006-LCS.d

Eurofins Environment Testing America

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\-GB14006-LCS.d
Injection Date: 14-Feb-2023 15:15:07   Instrument ID: CVGG2
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 0   Worklist Smp#: 1006
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector GC FID2B

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

RT: 4.49
Area: 5030927
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results

RT: 4.49
Area: 5122655
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

Reviewer: SK9U, 14-Feb-2023 15:51:25
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

2/16/2023 9:10 AM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 680-763353/7

Matrix: Water   Lab File ID: GB14007.D

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 15:38

Con. Extract Vol.: 1(mL)   Dilution Factor: 1

Injection Volume: 1(uL)   GC Column: J&W DB WAX   ID: 0.45(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 763353   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	19.9		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14007.D
Lims ID:	lcsd
Client ID:	
Sample Type:	LCSD

Inject. Date:	14-Feb-2023 15:38:30	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083839-007				
Operator ID:		Instrument ID:	CVGG2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	14-Feb-2023 20:29:47	Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det:	GC FID2B
Process Host:	CTX1629		

First Level Reviewer: SK9U   Date: 14-Feb-2023 16:06:41

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.103	3.098	0.005	1502462	20.0	19.6	
2 4-Hydroxy-4-methyl-2-pentanone						
3.693	3.683	0.010	1435181	20.0	20.0	
3 2-Butoxyethanol						M
4.006	4.006	0.000	1723025	20.0	20.3	M
* **4 n-Heptyl Alcohol**						M
4.479	4.486	-0.007	5171220	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.436	5.432	0.004	111459	20.0	21.2	M
6 Propylene glycol						M
6.589	6.583	0.006	300673	20.0	15.1	M
7 Ethylene glycol						M
6.844	6.844	0.000	723687	20.0	14.9	M
8 2-(2-Butoxyethoxy)ethanol						
8.737	8.738	-0.001	1170962	20.0	19.9	
9 2,2'-Oxybisethanol						
9.732	9.733	-0.001	434535	20.0	15.5	
10 Triethylene Glycol						
10.748	10.748	0.000	464932	20.0	17.3	
11 Tetraethylene Glycol						
12.003	12.004	-0.001	981933	40.0	35.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14007.D
Injection Date: 14-Feb-2023 15:38:30   Instrument ID: CVGG2   Operator ID:
Lims ID: lcsd   Worklist Smp#:   7
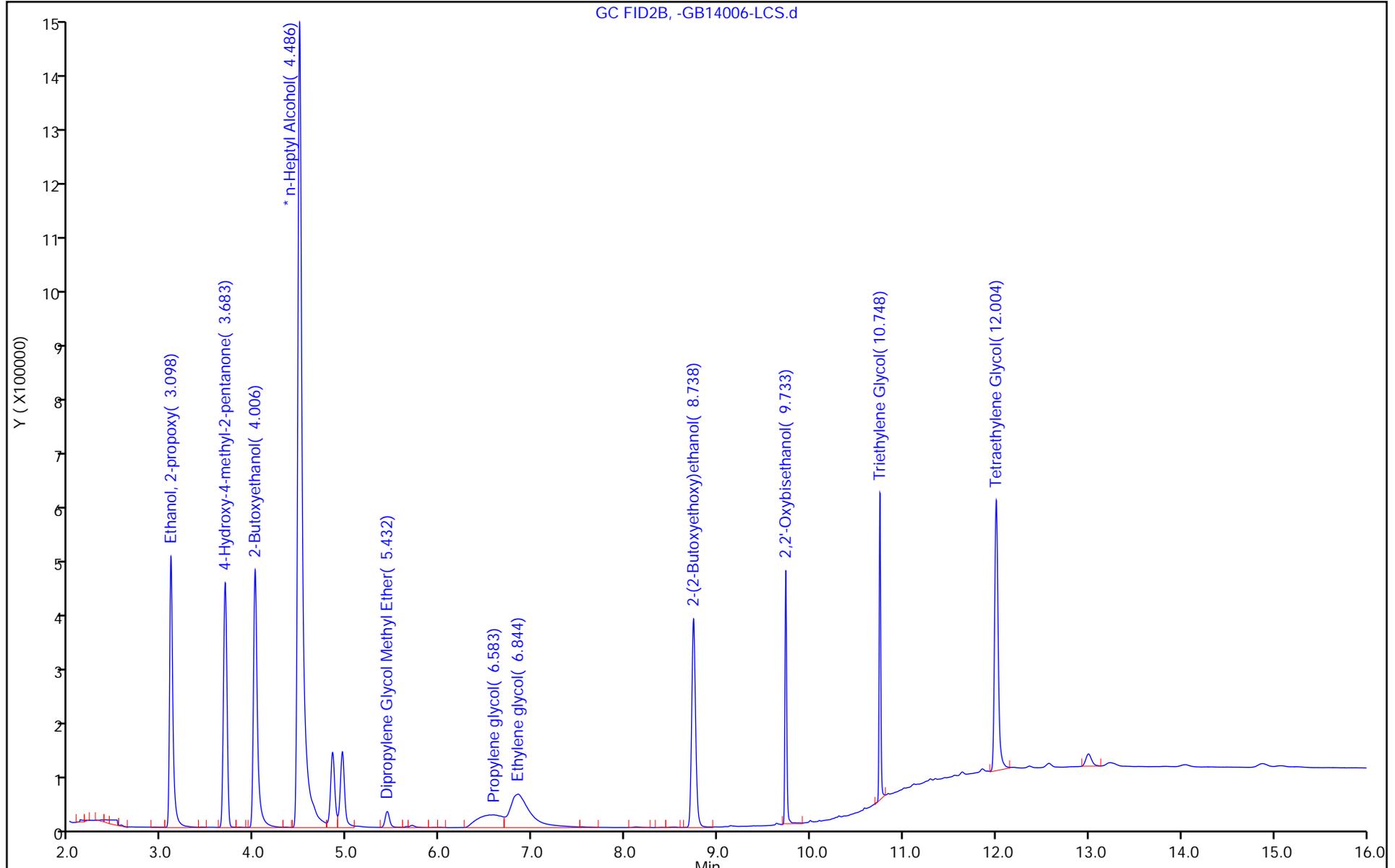Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
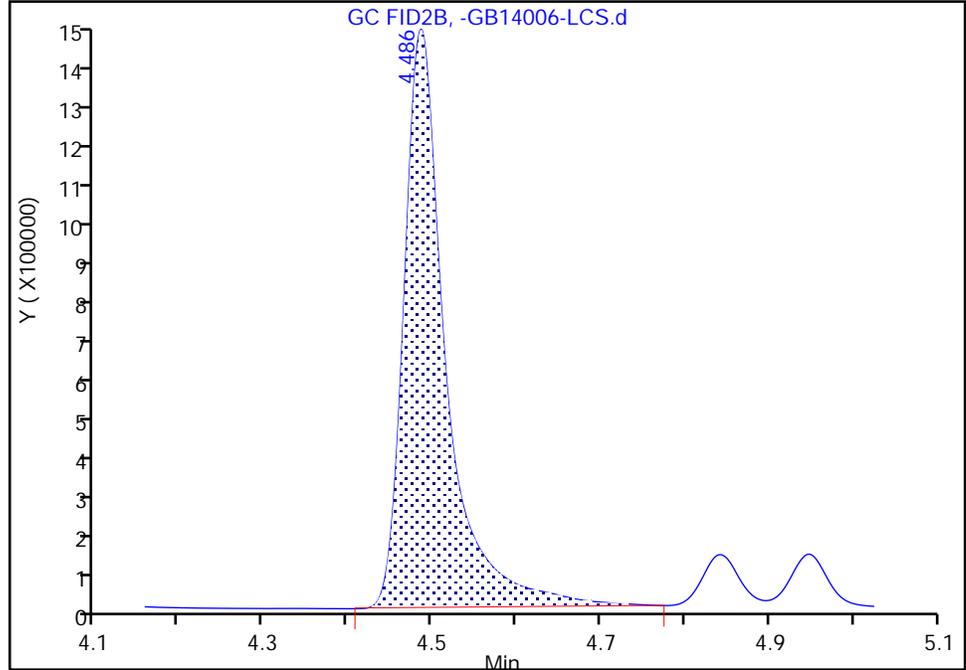Column: J&W DB WAX (0.45 mm)

GC FID2B, GB14007.D
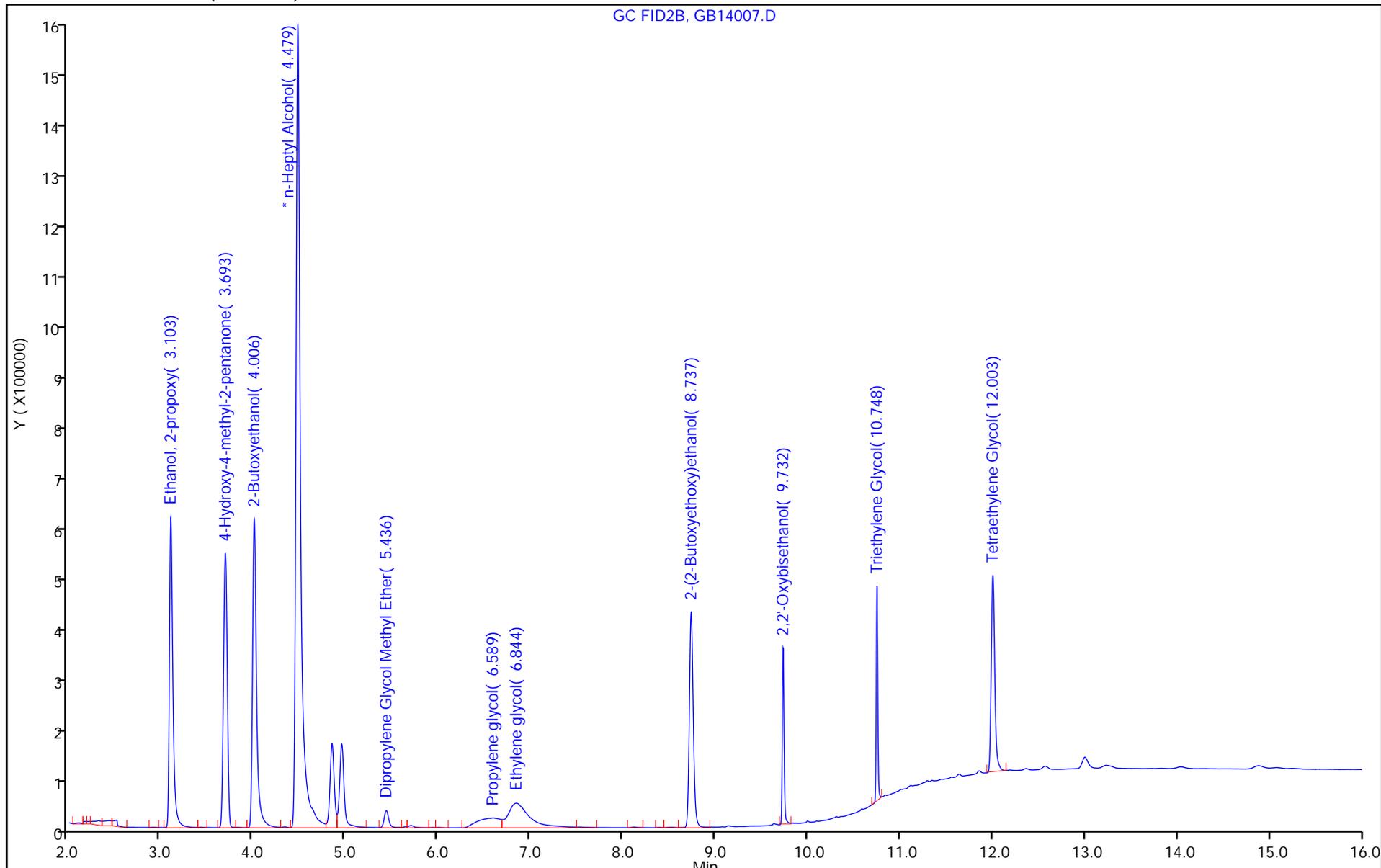
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14007.D
Injection Date: 14-Feb-2023 15:38:30   Instrument ID: CVGG2
Lims ID: lcsd
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   7
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B
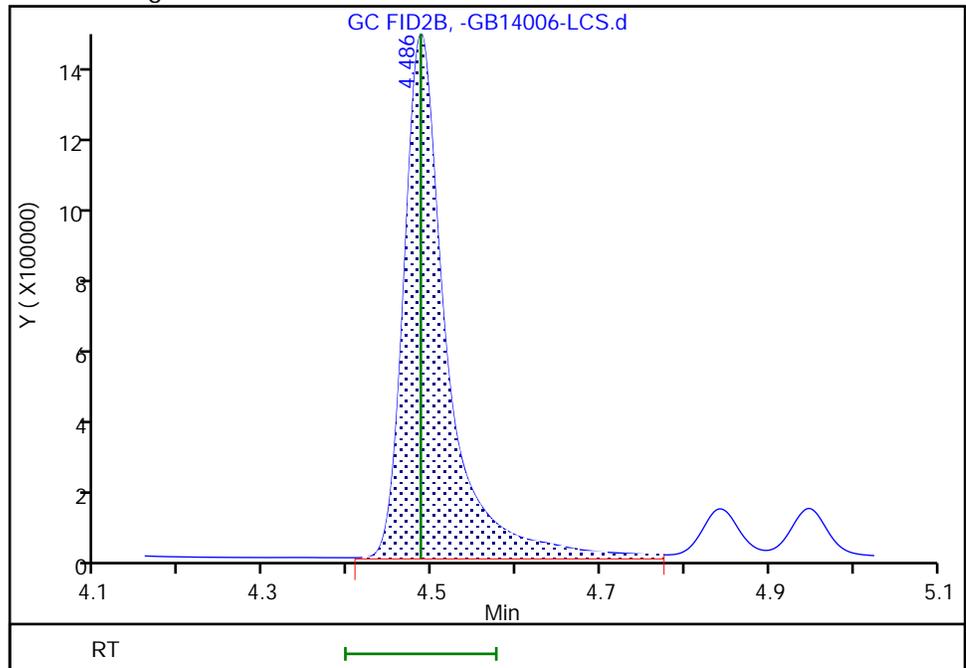
*   4 n-Heptyl Alcohol, CAS: 111-70-6
Signal: 1

RT: 4.48
Area: 5090291
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results
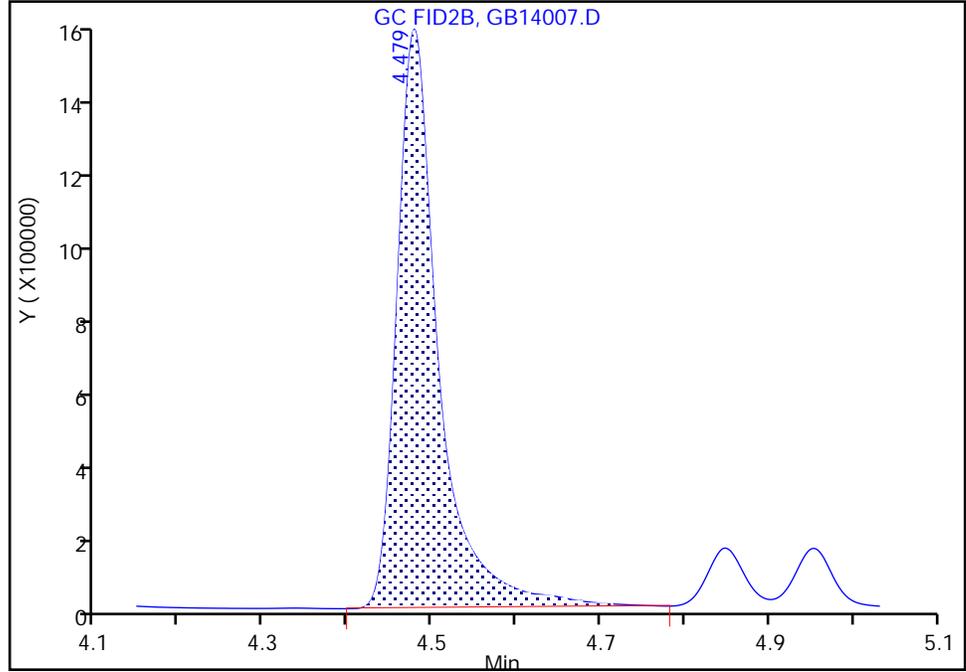
RT: 4.48
Area: 5171220
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

Reviewer: SK9U, 14-Feb-2023 16:06:11
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

```
                          FORM I
              GC SEMI VOA ORGANICS ANALYSIS DATA SHEET
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Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Client Sample ID: AF-RHMW06-WGN01LF-2302W1   Lab Sample ID: 580-123424-2 MS
                  MS

Matrix: Water   Lab File ID: GB14013.D

Analysis Method: 8015C GLY   Date Collected: 02/09/2023 12:05

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 17:58

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.: 763353   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	21.2		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14013.D
Lims ID:	580-123424-A-2 MS
Client ID:	
Sample Type:	MS

Inject. Date:	14-Feb-2023 17:58:41	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083839-013				
Operator ID:		Instrument ID:	CVGG2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	14-Feb-2023 20:27:16	Calib Date:	31-Jan-2023 18:30:20
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det:	GC FID2B
Process Host:	CTX1629		

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:27:16

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.104	3.097	0.007	1589392	20.0	19.9	
2 4-Hydroxy-4-methyl-2-pentanone						M
3.698	3.686	0.012	1528245	20.0	20.4	M
3 2-Butoxyethanol						M
4.008	4.003	0.005	1799209	20.0	20.3	M
* 4 n-Heptyl Alcohol						M
4.473	4.476	-0.003	5415012	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.440	5.432	0.008	116581	20.0	21.2	M
6 Propylene glycol						
6.633	6.587	0.046	320157	20.0	15.5	
7 Ethylene glycol						
6.839	6.829	0.010	702764	20.0	13.5	
8 2-(2-Butoxyethoxy)ethanol						
8.737	8.732	0.005	1296202	20.0	21.2	
9 2,2'-Oxybisethanol						
9.732	9.731	0.001	274756	20.0	8.58	
10 Triethylene Glycol						
10.748	10.748	0.000	158864	20.0	4.48	
11 Tetraethylene Glycol						7
12.000	12.001	-0.001	169009	40.0	2.60	7

LOD =   4.50

QC Flag Legend
Processing Flags
 7 - Failed Limit of Detection

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00105	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14013.D

Injection Date:	14-Feb-2023 17:58:41	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-123424-A-2 MS			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)

GC FID2B, GB14013.D

2/16/2023 9:10 AM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14013.D
Injection Date:	14-Feb-2023 17:58:41
Lims ID:	580-123424-A-2 MS
Client ID:	
Operator ID:	
Injection Vol:	1.0 ul
Method:	8015_GLY_VGG
Column:	J&W DB WAX (0.45 mm)

Instrument ID:	CVGG2
ALS Bottle#:	0
Worklist Smp#:	13
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

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

Signal: 1

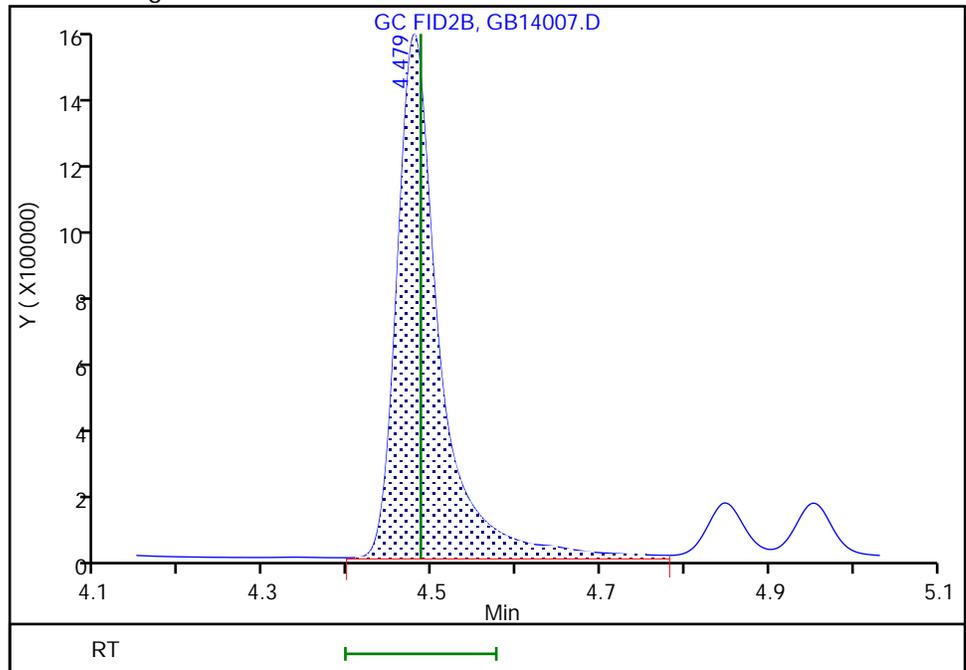RT: 4.47
Area: 5309976
Amount: 50.000000
Amount Units: ug/ml
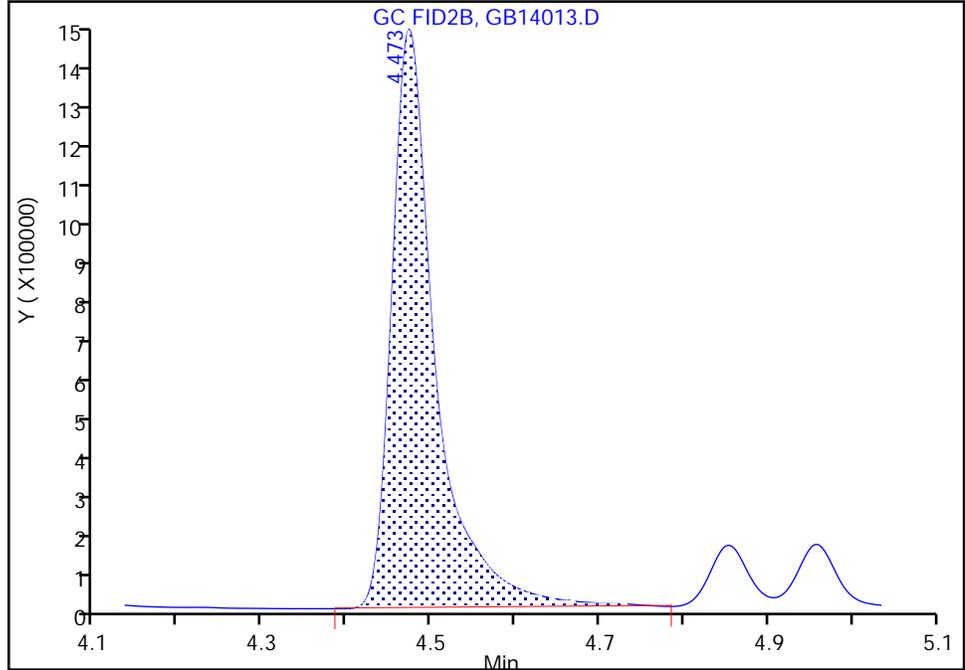
Processing Integration Results

RT: 4.47
Area: 5415012
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

Reviewer: SK9U, 14-Feb-2023 20:27:08
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Client Sample ID: AF-RHMW06-WGN01LF-2302W1   Lab Sample ID: 580-123424-2 MSD
                  MSD

Matrix: Water   Lab File ID: GB14014.D

Analysis Method: 8015C GLY   Date Collected: 02/09/2023 12:05

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/14/2023 18:22

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.: 763353   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	18.1		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14014.D
Lims ID: 580-123424-A-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 14-Feb-2023 18:22:00   ALS Bottle#:   0   Worklist Smp#:   14
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083839-014
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 14-Feb-2023 20:27:54   Calib Date: 31-Jan-2023 18:30:20
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230131-83575.b\GA31015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1629

First Level Reviewer: SK9U   Date: 14-Feb-2023 20:27:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.097	3.097	0.000	1569564	20.0	19.6	
2 4-Hydroxy-4-methyl-2-pentanone						
3.687	3.686	0.001	1434756	20.0	18.9	
3 2-Butoxyethanol						M
4.002	4.003	-0.001	1791940	20.0	20.2	M
*** 4 n-Heptyl Alcohol**						M
4.477	4.476	0.001	5412704	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						
5.433	5.432	0.001	101518	20.0	18.1	
6 Propylene glycol						M
6.627	6.587	0.040	284743	20.0	13.4	M
7 Ethylene glycol						
6.832	6.829	0.003	628724	20.0	11.7	
8 2-(2-Butoxyethoxy)ethanol						
8.736	8.732	0.004	1129908	20.0	18.1	
9 2,2'-Oxybisethanol						
9.732	9.731	0.001	375712	20.0	12.5	
10 Triethylene Glycol						
10.749	10.748	0.001	291814	20.0	9.68	
11 Tetraethylene Glycol						
12.002	12.001	0.001	314287	40.0	8.07	

QC Flag Legend
Processing Flags

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00052   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00105   Amount Added: 10.00   Units: uL   Run Reagent

Chrom Revision: 2.3 01-Feb-2023 13:23:06

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14014.D				
Injection Date:	14-Feb-2023 18:22:00	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-123424-A-2 MSD			Worklist Smp#:	14
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, GB14014.D

2/16/2023 9:10
AM
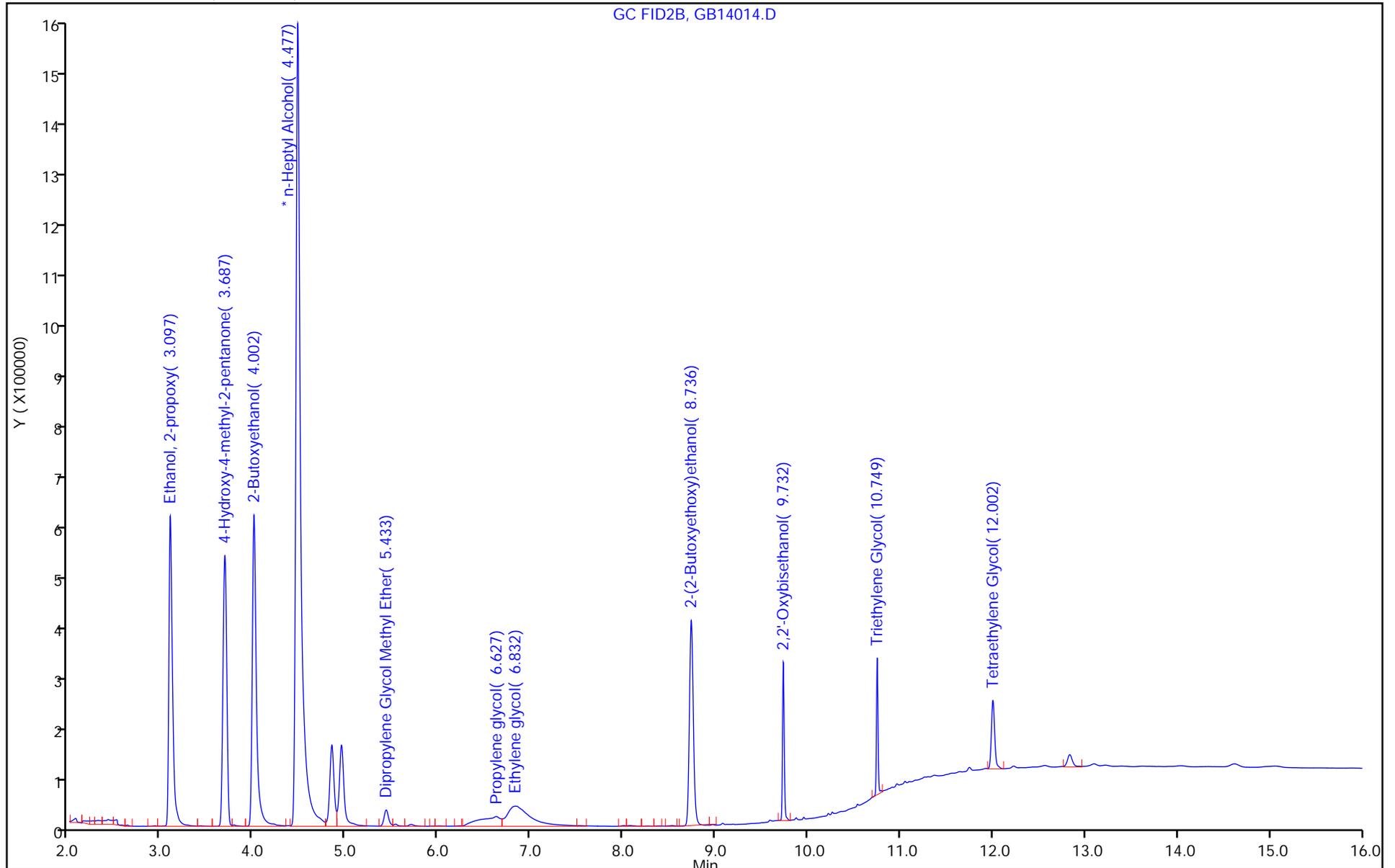
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230214-83839.b\GB14014.D
Injection Date: 14-Feb-2023 18:22:00   Instrument ID: CVGG2
Lims ID: 580-123424-A-2 MSD
Client ID:
Operator ID: ALS Bottle#: 0   Worklist Smp#: 14
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Processing Integration Results

RT: 4.48
Area: 5322603
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results
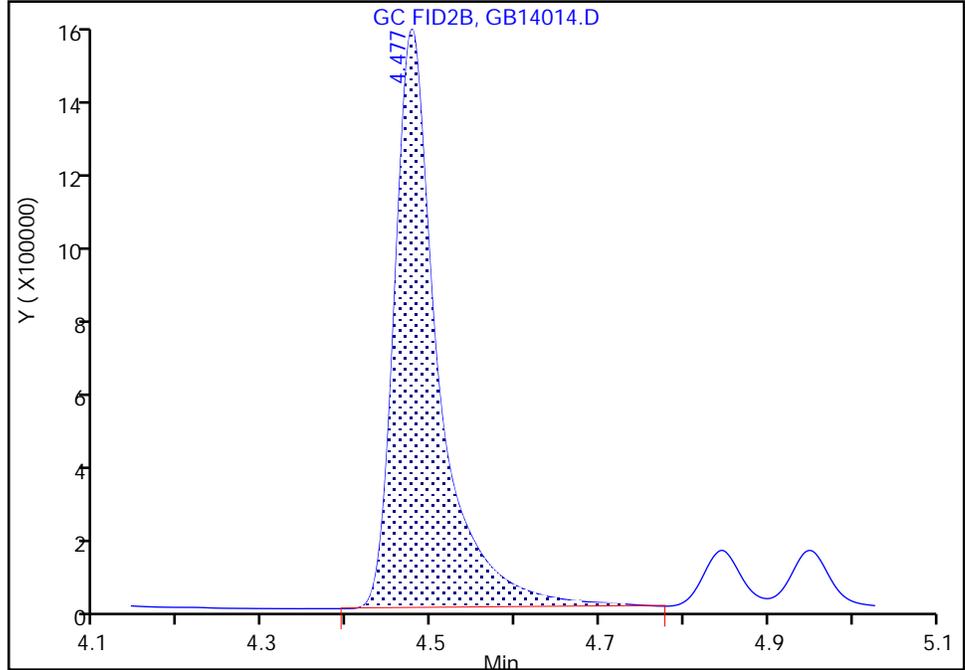
RT: 4.48
Area: 5412704
Amount: 50.000000
Amount Units: ug/ml

Reviewer: SK9U, 14-Feb-2023 20:27:45
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Start Date: 01/31/2023 16:10

Analysis Batch Number: 761417   End Date: 02/01/2023 08:04

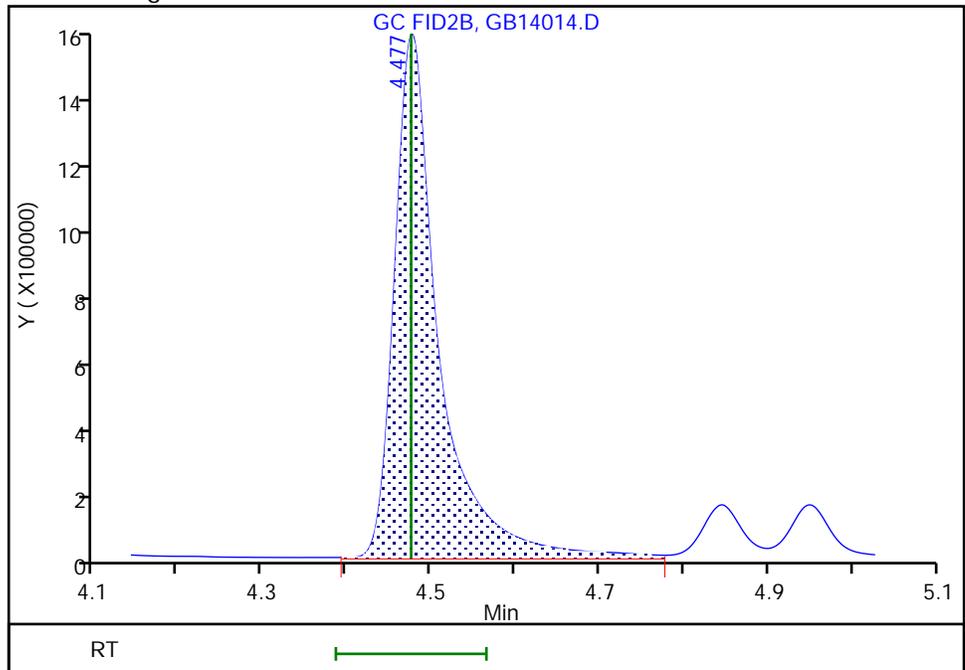| LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-761417/2		01/31/2023 16:10	1	GA31009.D	J&W DB WAX 0.45(mm)
IC 680-761417/3		01/31/2023 16:33	1	GA31010.D	J&W DB WAX 0.45(mm)
IC 680-761417/4		01/31/2023 16:57	1	GA31011.D	J&W DB WAX 0.45(mm)
ICIS 680-761417/5		01/31/2023 17:20	1	GA31012.D	J&W DB WAX 0.45(mm)
IC 680-761417/6		01/31/2023 17:43	1	GA31013.D	J&W DB WAX 0.45(mm)
IC 680-761417/7		01/31/2023 18:07	1	GA31014.D	J&W DB WAX 0.45(mm)
IC 680-761417/8		01/31/2023 18:30	1	GA31015.D	J&W DB WAX 0.45(mm)
ICV 680-761417/9 CCV		01/31/2023 18:53	1	GA31016.D	J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 19:17	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 19:40	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 20:03	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 20:27	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 21:36	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 22:00	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 22:23	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 22:46	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 23:33	1		J&W DB WAX 0.45(mm)
ZZZZZ		01/31/2023 23:56	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 00:19	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 00:43	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 01:29	5		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 01:52	25		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 02:15	100		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 02:38	50		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 03:01	50		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 03:25	50		J&W DB WAX 0.45(mm)
CCV 680-761417/33		02/01/2023 04:11	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 05:21	500		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 05:44	500		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 06:07	100		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 06:31	50		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 06:54	100		J&W DB WAX 0.45(mm)
ZZZZZ		02/01/2023 07:17	10000		J&W DB WAX 0.45(mm)
CCV 680-761417/43		02/01/2023 08:04	1		J&W DB WAX 0.45(mm)

8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Instrument ID: CVGG2   Start Date: 02/14/2023 15:15

Analysis Batch Number: 763353   End Date: 02/14/2023 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 680-763353/6		02/14/2023 15:15	1	GB14006.D	J&W DB WAX 0.45(mm)
LCS 680-763353/1006		02/14/2023 15:15	1	-GB14006-LCS.d	J&W DB WAX 0.45(mm)
LCSD 680-763353/7		02/14/2023 15:38	1	GB14007.D	J&W DB WAX 0.45(mm)
MB 680-763353/10		02/14/2023 16:48	1	GB14010.D	J&W DB WAX 0.45(mm)
580-123424-1	AF-RHMW04-WGN01LF-2302W1	02/14/2023 17:11	1	GB14011.D	J&W DB WAX 0.45(mm)
580-123424-2	AF-RHMW06-WGN01LF-2302W1	02/14/2023 17:35	1	GB14012.D	J&W DB WAX 0.45(mm)
580-123424-2 MS	AF-RHMW06-WGN01LF-2302W1 MS	02/14/2023 17:58	1	GB14013.D	J&W DB WAX 0.45(mm)
580-123424-2 MSD	AF-RHMW06-WGN01LF-2302W1 MSD	02/14/2023 18:22	1	GB14014.D	J&W DB WAX 0.45(mm)
ZZZZZ		02/14/2023 18:45	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/14/2023 19:08	1		J&W DB WAX 0.45(mm)
CCV 680-763353/18		02/14/2023 19:55	1	GB14018.D	J&W DB WAX 0.45(mm)

8015C GLY

GC SEMI VOA BATCH WORKSHEET

Lab Name: **Eurofins Savannah**   Job No.: **580-123424-1**

SDG No.:

Batch Number: **761417**   Batch Start Date: **01/31/23 16:10**   Batch Analyst: **Kellar, Joshua C**

Batch Method: **8015C GLY**   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SG_Gly_CAL 00052	SG_GLY_ISTD 00105	SG_GlyICV 00052		
IC 680-761417/2		8015C GLY		1 mL	50 uL	10 uL			
IC 680-761417/3		8015C GLY		1 mL	40 uL	10 uL			
IC 680-761417/4		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-761417/5		8015C GLY		1 mL	10 uL	10 uL			
IC 680-761417/6		8015C GLY		1 mL	5 uL	10 uL			
IC 680-761417/7		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-761417/8		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-761417/9 CCV		8015C GLY		1 mL		10 uL	10 uL		

Batch Notes	

Basis	Basis Description

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

8015C GLY   Page 1 of 1

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah   Job No.: 580-123424-1

SDG No.:

Batch Number: 763353   Batch Start Date: 02/14/23 15:15   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 00052	SG_GLY_ISTD 00105			
CCVIS 680-763353/6		8015C GLY		1 mL	10 uL	10 uL			
LCSD 680-763353/7		8015C GLY		1 mL	10 uL	10 uL			
MB 680-763353/10		8015C GLY		1 mL		10 uL			
580-123424-A-1	AF-RHMW04-WGN01LF-2302W1	8015C GLY	T	1 mL		10 uL			
580-123424-A-2	AF-RHMW06-WGN01LF-2302W1	8015C GLY	T	1 mL		10 uL			
580-123424-A-2 MS	AF-RHMW06-WGN01LF-2302W1	8015C GLY	T	1 mL	10 uL	10 uL			
580-123424-A-2 MSD	AF-RHMW06-WGN01LF-2302W1	8015C GLY	T	1 mL	10 uL	10 uL			
CCV 680-763353/18		8015C GLY		1 mL	10 uL	10 uL			
LCS 680-763353/1006		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes

Basis	Basis Description
T	Total/NA

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

8015C GLY

Page 1 of 1

2/16/2023 9:10 AM

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

eurofins | Environment Testing America

COC No: 2302W1AFEA08
Page: Page 1 of 1
Job #:

Client Information

Sampler: Owns Hayden
Phone: 800-597-0055

Lab PM: Elaine Walker
E-Mail: M.Elaine.Walker@EurofinsET.com

Carrier Tracking No(s): FedEx
State of Origin: Hawaii

Client Contact:

PWSID:

Company: AECOM
Address: 1001 Bishop St. Suite 1600
City: Honolulu
State, Zip: Hawaii 96813
Phone: 808-954-4512 / 770-331-0794
Email: Watson.tanji@aecom.com/ Mark Kromis (mark.kromis@aecom.com)
Project Name: CTO N6274223F0104
Site: RHSF

Due Date Requested: see subcontract
TAT Requested (days): Rush - ASAP
Compliance Project: △ Yes △ No
PO #:
WO #:
Project #: 60697810
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL M - Hexane
B - NaOH N - None
C - Zn Acetate O - AsNaO2
D - Nitric Acid P - Na2O4S
E - NaHSO4 Q - Na2SO3
F - MeOH R - Na2S2O3
G - Amchlor S - H2SO4
H - Ascorbic Acid T - TSP Dodecahydrate
I - Ice U - Acetone
J - DI Water V - MCAA
K - EDTA W - pH 4-5
L - EDA Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	8015C_DAI_GL_DS/ 2-(2-butoxyethoxy)-ethanol	Perform MS/MSD (Yes or NO)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:
						A				
AF-RHMW04-WGN01LF-2302W1	2.9.23	1055	G	W	W	X	N	N	3	

Preservation Code: W

Possible Hazard Identification

Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)
Prelim data (Level 1or2) =see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements: DOD QSM project.

Empty Kit Relinquished by:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	2.9.23 / 1300	AECOM	Miranda DeGarmo	2/9/23 1300	AECOM
Relinquished by: Miranda DeGarmo	2/9/23 / 1400	AECOM	Received by:	02/11/23 10:30	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Method of Shipment:

Custody Seals Intact: △ Yes △ No **Custody Seal No.:**
Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Chain of Custody Record

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

eurofins | Environment Testing America

COC No: 2302W1AFEA09
Page: Page 1 of 1
Job #:

Client Information	
Client Contact:	Sampler: Mark Yim Phone: 808-349-477_ PWSID:
Company: AECOM	Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com
Address: 1001 Bishop St. Suite 1600	Carrier Tracking No(s): FedEx
City: Honolulu	State of Origin: Hawaii
State, Zip: Hawaii 96813	Due Date Requested: see subcontract
Phone: 808-954-4512 / 770-331-0794	TAT Requested (days): Rush - ASAP
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	Compliance Project: ▲ Yes ▲ No PO #:
Project Name: CTO N6274223F0104	WO #:
Site: RHSF	Project #: 60697810 SSOW#:

Analysis Requested

Preservation Codes:
A - HCL   M - Hexane
B - NaOH   N - None
C - Zn Acetate   O - AsNaO2
D - Nitric Acid   P - Na2O4S
E - NaHSO4   Q - Na2SO3
F - MeOH   R - Na2S2O3
G - Amchlor   S - H2SO4
H - Ascorbic Acid   T - TSP Dodecahydrate
I - Ice   U - Acetone
J - DI Water   V - MCAA
K - EDTA   W - pH 4-5
L - EDA   Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AF=Air)	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note:
AF-RHMW06-WGN01LF-2302W1	2/9/23	1205	W	G	A	N	N	X	3	

Possible Hazard Identification
■ Non-Hazard   □ Flammable   □ Skin Irritant   □ Poison B   □ Unknown   □ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)
Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuiS EDD

Empty Kit Relinquished by: ___ Date: ___ Time: ___

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
□ Return To Client   □ Disposal By Lab   □ Archive For ___ Months

Special Instructions/QC Requirements: DOD QSM project.

	Date/Time:	Company:		Date/Time:	Company:
Relinquished by: Mark Yim Mark Yim	2/9/13 1200	AECOM	Received by: Miranda DeGramo	2/9/13 1300	AECOM
Relinquished by: Miranda DeGramo	2/9/23 1406	Aecom	Received by:	02/11/23 10:30	
Relinquished by:			Received by:		Company:

Custody Seals Intact: ▲ Yes ▲ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Method of Shipment:

Ver: 01/16/2019

Chain of Custody Record

COC No: 2302W1AFEA07
Page: Page 1 of 1
Job #:

Client Information

Sampler: NOAH TURNER	**Carrier Tracking No(s):** FedEx
Lab PM: Elaine Walker	**State of Origin:** Hawaii

Company: AECOM

Client Contact:
Phone: (78) 366-4777
PWSID:

E-Mail: M.Elaine_Walker@EurofinsET.com

Address:
1001 Bishop St. Suite 1600
City: Honolulu
State, Zip: Hawaii 96813
Phone: 808-954-4512 / 770-331-0794
Email: Watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)

Due Date Requested: see subcontract
TAT Requested (days): Rush - ASAP
Compliance Project: △ Yes △ No
PO #:
WO #:

Project Name: CTO N6274223F0104
Project #: 60697810
SSOW#:

Site: RHSF

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)
Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DS/ 2-(2-butoxyethoxy)-ethanol A	Total Number of containers
AF-RHMW225401-WGN01P-2302W1	2/9/2023	0920	G	W		N	N	X	3

Special Instructions/Note:
HOLD FOR ANALYSIS
UNTIL NOTIFIED
BY CLIENT

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)
Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuiS EDD

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements: DOD QSM project.

Method of Shipment:

Empty Kit Relinquished by: _____ **Date:** _____ **Time:** _____

Relinquished by: NOAH TURNER	**Date/Time:** 2/9/23 1300	**Company:** AECOM
Relinquished by: Miranda DeCarmo	**Date/Time:** 2/9/23 1400	**Company:** AECOM
Relinquished by:	**Date/Time:**	**Company:**
Received by: Miranda DeCarmo	**Date/Time:** 2/9/23 1300	**Company:** AECOM
Received by:	**Date/Time:** 2/11/23 10:30	**Company:**
Received by:	**Date/Time:**	**Company:**

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4-4

LF
MD 2/08/23

Ver: 01/16/2019

Login Sample Receipt Checklist

Login Number: 123424
List Number: 2
Creator: Meincke, Griffin E

List Source: Eurofins Savannah
List Creation: 02/14/23 11:31 AM

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