ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu HI 96813

Generated 2/22/2023 3:02 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123622-1

See page two for job notes and contact information.

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

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Job ID: 580-123622-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 580-123622-1

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
Five samples were received on 2/16/2023 11:00 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 5.0º C.

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

GLYCOLS
Samples AF-RHMW10-WGN01LF-2302W2 (580-123622-1), AF-RHMW16-WGN01LF-2302W2 (580-123622-2), AF-RHMW12A-WGN01LF-2302W2 (580-123622-3), AF-RHMW12A-WGFD01LF-2302W2 (580-123622-4) and AF-HDMW225303-WGN01LF-2302W2 (580-123622-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/21/2023.

The closing continuing calibration verification (CCV) associated with batch 680-764187 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported. The associated samples are impacted: AF-HDMW225303-WGN01LF-2302W2 (580-123622-5) and (CCV 680-764187/44).

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

Detection Summary

Client Sample ID: AF-RHMW10-WGN01LF-2302W2 **Lab Sample ID: 580-123622-1**

No Detections.

Client Sample ID: AF-RHMW16-WGN01LF-2302W2 **Lab Sample ID: 580-123622-2**

No Detections.

Client Sample ID: AF-RHMW12A-WGN01LF-2302W2 **Lab Sample ID: 580-123622-3**

No Detections.

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W2 **Lab Sample ID: 580-123622-4**

No Detections.

Client Sample ID: AF-HDMW225303-WGN01LF-2302W2 **Lab Sample ID: 580-123622-5**

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client Sample ID: AF-RHMW10-WGN01LF-2302W2
Lab Sample ID: 580-123622-1
Date Collected: 02/14/23 12:40
Date Received: 02/16/23 11:00
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			02/21/23 02:55	1

Client Sample ID: AF-RHMW16-WGN01LF-2302W2
Lab Sample ID: 580-123622-2
Date Collected: 02/14/23 11:55
Date Received: 02/16/23 11:00
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			02/21/23 04:05	1

Client Sample ID: AF-RHMW12A-WGN01LF-2302W2
Lab Sample ID: 580-123622-3
Date Collected: 02/14/23 09:45
Date Received: 02/16/23 11:00
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			02/21/23 04:29	1

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W2
Lab Sample ID: 580-123622-4
Date Collected: 02/14/23 09:45
Date Received: 02/16/23 11:00
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			02/21/23 04:52	1

Client Sample ID: AF-HDMW225303-WGN01LF-2302W2
Lab Sample ID: 580-123622-5
Date Collected: 02/14/23 10:30
Date Received: 02/16/23 11:00
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 Q	5.0	1.1	mg/L			02/21/23 06:48	1

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Default Detection Limits

Project/Site: Red Hill - AFFF Assessment Sampling

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

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

QC Sample Results

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

Lab Sample ID: MB 680-764187/14
Matrix: Water
Analysis Batch: 764187

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/20/23 23:25	1

Lab Sample ID: LCS 680-764187/10
Matrix: Water
Analysis Batch: 764187

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	23.6		mg/L		118	50 - 150

Lab Sample ID: LCSD 680-764187/11
Matrix: Water
Analysis Batch: 764187

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	24.5		mg/L		122	50 - 150	4	50

Lab Sample ID: 580-123622-1 MS
Matrix: Water
Analysis Batch: 764187

Client Sample ID: AF-RHMW10-WGN01LF-2302W2
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	23.4		mg/L		117	50 - 150

Lab Sample ID: 580-123622-1 MSD
Matrix: Water
Analysis Batch: 764187

Client Sample ID: AF-RHMW10-WGN01LF-2302W2
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	25.0		mg/L		125	50 - 150	7	50

GC Semi VOA

Analysis Batch: 764187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-123622-1	AF-RHMW10-WGN01LF-2302W2	Total/NA	Water	8015C GLY	
580-123622-2	AF-RHMW16-WGN01LF-2302W2	Total/NA	Water	8015C GLY	
580-123622-3	AF-RHMW12A-WGN01LF-2302W2	Total/NA	Water	8015C GLY	
580-123622-4	AF-RHMW12A-WGFD01LF-2302W2	Total/NA	Water	8015C GLY	
580-123622-5	AF-HDMW225303-WGN01LF-2302W2	Total/NA	Water	8015C GLY	
MB 680-764187/14	Method Blank	Total/NA	Water	8015C GLY	
LCS 680-764187/10	Lab Control Sample	Total/NA	Water	8015C GLY	
LCSD 680-764187/11	Lab Control Sample Dup	Total/NA	Water	8015C GLY	
580-123622-1 MS	AF-RHMW10-WGN01LF-2302W2	Total/NA	Water	8015C GLY	
580-123622-1 MSD	AF-RHMW10-WGN01LF-2302W2	Total/NA	Water	8015C GLY	

Lab Chronicle

Client Sample ID: AF-RHMW10-WGN01LF-2302W2
Lab Sample ID: 580-123622-1
Date Collected: 02/14/23 12:40
Matrix: Water
Date Received: 02/16/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 02:55

Client Sample ID: AF-RHMW16-WGN01LF-2302W2
Lab Sample ID: 580-123622-2
Date Collected: 02/14/23 11:55
Matrix: Water
Date Received: 02/16/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 04:05

Client Sample ID: AF-RHMW12A-WGN01LF-2302W2
Lab Sample ID: 580-123622-3
Date Collected: 02/14/23 09:45
Matrix: Water
Date Received: 02/16/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 04:29

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W2
Lab Sample ID: 580-123622-4
Date Collected: 02/14/23 09:45
Matrix: Water
Date Received: 02/16/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 04:52

Client Sample ID: AF-HDMW225303-WGN01LF-2302W2
Lab Sample ID: 580-123622-5
Date Collected: 02/14/23 10:30
Matrix: Water
Date Received: 02/16/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 06:48

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
580-123622-1	AF-RHMW10-WGN01LF-2302W2	Water	02/14/23 12:40	02/16/23 11:00
580-123622-2	AF-RHMW16-WGN01LF-2302W2	Water	02/14/23 11:55	02/16/23 11:00
580-123622-3	AF-RHMW12A-WGN01LF-2302W2	Water	02/14/23 09:45	02/16/23 11:00
580-123622-4	AF-RHMW12A-WGFD01LF-2302W2	Water	02/14/23 09:45	02/16/23 11:00
580-123622-5	AF-HDMW225303-WGN01LF-2302W2	Water	02/14/23 10:30	02/16/23 11:00

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 764187

Lab Sample ID: IC 680-764187/2   Client Sample ID:

Date Analyzed: 02/20/23 18:45   Lab File ID: GB20009.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	4.00	Baseline Smoothing	SK9U	02/21/23 12:26
n-Heptyl Alcohol	4.48	Baseline Smoothing	SK9U	02/21/23 12:26
Dipropylene Glycol Methyl Ether	5.42	Baseline Smoothing	SK9U	02/21/23 12:26
Propylene glycol	6.57	Incomplete Integration	SK9U	02/21/23 10:48

Lab Sample ID: IC 680-764187/3   Client Sample ID:

Date Analyzed: 02/20/23 19:08   Lab File ID: GB20010.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	02/21/23 12:27
Dipropylene Glycol Methyl Ether	5.43	Baseline Smoothing	SK9U	02/21/23 12:27
Propylene glycol	6.58	Baseline Smoothing	SK9U	02/21/23 12:42
Ethylene glycol	6.82	Baseline Smoothing	SK9U	02/21/23 12:42

Lab Sample ID: IC 680-764187/4   Client Sample ID:

Date Analyzed: 02/20/23 19:32   Lab File ID: GB20011.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	4.00	Baseline Smoothing	SK9U	02/21/23 12:28
n-Heptyl Alcohol	4.48	Baseline Smoothing	SK9U	02/21/23 12:28
Dipropylene Glycol Methyl Ether	5.43	Baseline Smoothing	SK9U	02/21/23 12:28
Propylene glycol	6.55	Incomplete Integration	SK9U	02/21/23 10:47

8015C GLY

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Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 764187

Lab Sample ID: ICIS 680-764187/5   Client Sample ID:

Date Analyzed: 02/20/23 19:55   Lab File ID: GB20012.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	02/21/23 12:28
Dipropylene Glycol Methyl Ether	5.42	Baseline Smoothing	SK9U	02/21/23 12:28
Propylene glycol	6.57	Baseline Smoothing	SK9U	02/21/23 12:41
Ethylene glycol	6.82	Baseline Smoothing	SK9U	02/21/23 12:41

Lab Sample ID: IC 680-764187/6   Client Sample ID:

Date Analyzed: 02/20/23 20:18   Lab File ID: GB20013.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.59	Baseline Smoothing	SK9U	02/21/23 12:41
Ethylene glycol	6.82	Baseline Smoothing	SK9U	02/21/23 12:41

Lab Sample ID: IC 680-764187/7   Client Sample ID:

Date Analyzed: 02/20/23 20:42   Lab File ID: GB20014.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.58	Baseline Smoothing	SK9U	02/21/23 12:40
Ethylene glycol	6.84	Baseline Smoothing	SK9U	02/21/23 12:40

Lab Sample ID: IC 680-764187/8   Client Sample ID:

Date Analyzed: 02/20/23 21:05   Lab File ID: GB20015.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene glycol	6.59	Baseline Smoothing	SK9U	02/21/23 12:40
Ethylene glycol	6.83	Baseline Smoothing	SK9U	02/21/23 12:40

8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 764187

Lab Sample ID: ICV 680-764187/9 CCV   Client Sample ID:

Date Analyzed: 02/20/23 21:28   Lab File ID: GB20016.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butoxyethanol	4.00	Baseline Smoothing	SK9U	02/21/23 12:30
Dipropylene Glycol Methyl Ether	5.43	Baseline Smoothing	SK9U	02/21/23 12:30
Propylene glycol	6.57	Baseline Smoothing	SK9U	02/21/23 12:31
Ethylene glycol	6.82	Baseline Smoothing	SK9U	02/21/23 12:31

Lab Sample ID: MB 680-764187/14   Client Sample ID:

Date Analyzed: 02/20/23 23:25   Lab File ID: GB20021.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:20

Lab Sample ID: 580-123622-1   Client Sample ID: AF-RHMW10-WGN01LF-2302W2

Date Analyzed: 02/21/23 02:55   Lab File ID: GB20030.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:21

Lab Sample ID: 580-123622-2   Client Sample ID: AF-RHMW16-WGN01LF-2302W2

Date Analyzed: 02/21/23 04:05   Lab File ID: GB20033.D   GC Column: J&W DB WAX   ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:21

8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Instrument ID: CVGG2   Analysis Batch Number: 764187

Lab Sample ID: 580-123622-3   Client Sample ID: AF-RHMW12A-WGN01LF-2302W2

Date Analyzed: 02/21/23 04:29   Lab File ID: GB20034.D   GC Column: J&W DB WAX   ID: 0.45(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:21

Lab Sample ID: 580-123622-4   Client Sample ID: AF-RHMW12A-WGFD01LF-2302W2

Date Analyzed: 02/21/23 04:52   Lab File ID: GB20035.D   GC Column: J&W DB WAX   ID: 0.45(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:21

Lab Sample ID: 580-123622-5   Client Sample ID: AF-HDMW225303-WGN01LF-2302W2

Date Analyzed: 02/21/23 06:48   Lab File ID: GB20040.D   GC Column: J&W DB WAX   ID: 0.45(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
		REASON	ANALYST	DATE
2-(2-Butoxyethoxy)ethanol		Invalid Compound ID	SWK1	02/21/23 16:22

8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Volume Added	Analyte	Concentration
SG_Gly_CAL_00046	07/31/23		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_00107	02/15/24		Agilent, Lot 0006720623		(Purchased Reagent)		n-Heptyl Alcohol	5000 ug/mL
SG_GlyICV_00051	07/01/23		o2si, Lot 454407		(Purchased Reagent)		2-(2-Butoxyethoxy)ethanol	2000 ug/mL

Reagent

SG_Gly_CAL_00046

o2si
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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:

2/22/2023 3:02 PM

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 (signature)	(signature)	*Susan Mat* (signature)
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

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2/22/2023 3:02 PM

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**

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Reagent

SG_GLY_ISTD_00107

Agilent
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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

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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

2/22/2023 3:02
PM

Reagent

SG_GlyICV_00051

o2si
smart solutions®

Certificate of Analysis

Rev 0

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:

2/22/2023 3:02 PM

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: $\leq$ -10 °C
Once the product is opened, it should be transferred to a vial with minimum head space if the product was received in a sealed ampule.

Glassware Calibration:

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

Weights and Balance Calibration:

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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.

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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:
J Ball	*C. Desrochers*	*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**

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

Expiration Information:

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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:**
Jared Ball	*Claire Desrochers*	*Susan Mathews*
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**
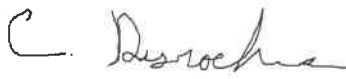
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Method 8015C - DAI Glycols

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

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB20017.D

Lab ID: LCS 680-764187/10   Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2-(2-Butoxyethoxy)ethanol	20.0	23.6	118	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB20018.D

Lab ID: LCSD 680-764187/11   Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
2-(2-Butoxyethoxy)ethanol	20.0	24.5	122	4	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

2/22/2023 3:02
                                               PM

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB20031.D

Lab ID: 580-123622-1 MS   Client ID: AF-RHMW10-WGN01LF-2302W2 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	23.4	117	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: GB20032.D

Lab ID: 580-123622-1 MSD   Client ID: AF-RHMW10-WGN01LF-2302W2 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	25.0	125	7	50	50-150	

Column to be used to flag recovery and RPD values

FORM III 8015C GLY

```
                              FORM IV
                GC SEMI VOA METHOD BLANK SUMMARY
```

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: MB 680-764187/14

Matrix: Water   Date Extracted:

Lab File ID:(1) GB20021.D   Lab File ID:(2)

Date Analyzed:(1) 02/20/2023 23:25   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 680-764187/10	02/20/2023 21:52	
	LCSD 680-764187/11	02/20/2023 22:15	
AF-RHMW10-WGN01LF-2302W2	580-123622-1	02/21/2023 02:55	
AF-RHMW10-WGN01LF-2302W2 MS	580-123622-1 MS	02/21/2023 03:18	
AF-RHMW10-WGN01LF-2302W2 MSD	580-123622-1 MSD	02/21/2023 03:42	
AF-RHMW16-WGN01LF-2302W2	580-123622-2	02/21/2023 04:05	
AF-RHMW12A-WGN01LF-2302W2	580-123622-3	02/21/2023 04:29	
AF-RHMW12A-WGFD01LF-2302W2	580-123622-4	02/21/2023 04:52	
AF-HDMW225303-WGN01LF-2302W2	580-123622-5	02/21/2023 06:48	

FORM IV 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Sample No.: ICIS 680-764187/5   Date Analyzed: 02/20/2023 19:55

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

Lab File ID (Standard): GB20012.D   Heated Purge: (Y/N) N

Calibration ID: 89986

		nHPA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		4433879	4.48				
UPPER LIMIT		8867758	4.98				
LOWER LIMIT		2216940	3.98				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-764187/9 CCV		4044707	4.47				
LCS 680-764187/10		5150478	4.47				
LCSD 680-764187/11		5097337	4.47				
MB 680-764187/14		5168788	4.47				
580-123622-1	AF-RHMW10-WGN01LF-2302W2	5239205	4.48				
580-123622-1 MS	AF-RHMW10-WGN01LF-2302W2 MS	4903800	4.48				
580-123622-1 MSD	AF-RHMW10-WGN01LF-2302W2 MSD	4905950	4.48				
580-123622-2	AF-RHMW16-WGN01LF-2302W2	5387107	4.48				
580-123622-3	AF-RHMW12A-WGN01LF-2302W2	5427035	4.47				
580-123622-4	AF-RHMW12A-WGFD01LF-2302W2	5722809	4.47				
CCV 680-764187/30		5324132	4.47				
580-123622-5	AF-HDMW225303-WGN01LF-2302W2	5556360	4.47				
CCV 680-764187/44		4854363	4.47				

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.: 580-123622-1

SDG No.:

Client Sample ID: AF-RHMW10-WGN01LF-2302W2    Lab Sample ID: 580-123622-1

Matrix: Water                          Lab File ID: GB20030.D

Analysis Method: 8015C GLY             Date Collected: 02/14/2023  12:40

Extraction Method:                     Date Extracted:

Sample wt/vol: 1(mL)                   Date Analyzed: 02/21/2023  02:55

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.: 764187             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\20230220-83951.b\GB20030.D	
Lims ID:	580-123622-A-1	
Client ID:	AF-RHMW10-WGN01LF-2302W2	
Sample Type:	Client	
Inject. Date:	21-Feb-2023 02:55:29	ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083951-023	
Operator ID:		Instrument ID: CVGG2

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	21-Feb-2023 16:22:48	Calib Date: 20-Feb-2023 21:05:32
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:21:42

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 4 n-Heptyl Alcohol					
4.475	4.479	-0.004	5239205	50.0	
10 Triethylene Glycol					7
10.746	10.746	0.000	12097	-2.24	7
LOD =	1.40				

QC Flag Legend
Processing Flags
 7 - Failed Limit of Detection

Reagents:
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20030.D
Injection Date: 21-Feb-2023 02:55:29   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123622-A-1   Lab Sample ID: 680-123622-1   Worklist Smp#:   23
Client ID: AF-RHMW10-WGN01LF-2302W2
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, GB20030.D

2/22/2023 3:02
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```
                              FORM I
               GC SEMI VOA ORGANICS ANALYSIS DATA SHEET
```

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: AF-RHMW16-WGN01LF-2302W2   Lab Sample ID: 580-123622-2

Matrix: Water   Lab File ID: GB20033.D

Analysis Method: 8015C GLY   Date Collected: 02/14/2023 11:55

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/21/2023 04:05

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

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

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

Cleanup Factor:

Analysis Batch No.: 764187   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\20230220-83951.b\GB20033.D	
Lims ID:	580-123622-A-2	
Client ID:	AF-RHMW16-WGN01LF-2302W2	
Sample Type:	Client	

Inject. Date:	21-Feb-2023 04:05:39	ALS Bottle#:	0	Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Sample Info:	680-0083951-026			
Operator ID:		Instrument ID:	CVGG2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:48	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:21:50

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

* 4 n-Heptyl Alcohol

4.477	4.479	-0.002	5387107	50.0

Reagents:

SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20033.D
Injection Date: 21-Feb-2023 04:05:39   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123622-A-2   Lab Sample ID: 680-123622-2   Worklist Smp#: 26
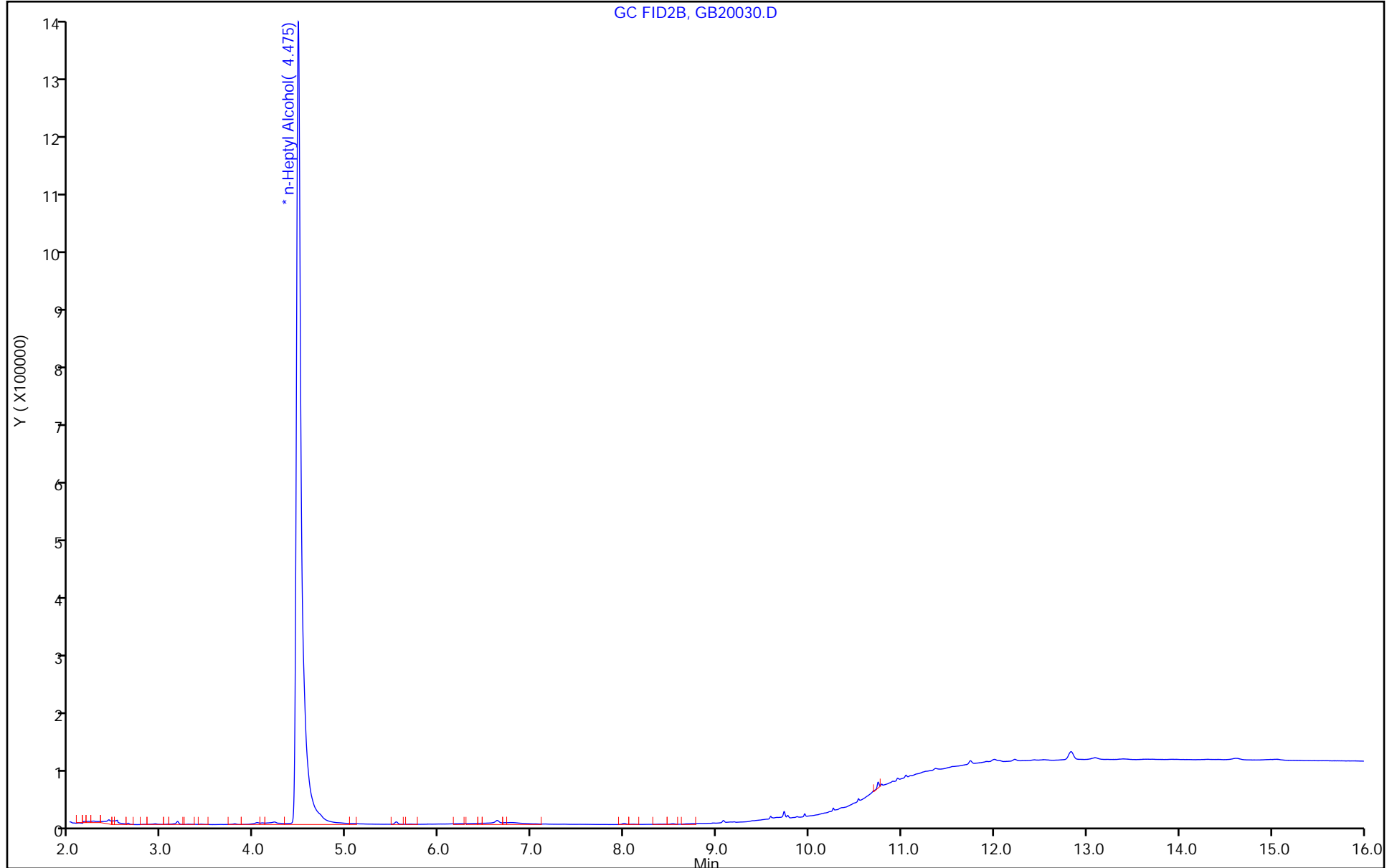Client ID: AF-RHMW16-WGN01LF-2302W2
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#: 0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20033.D

2/22/2023 3:02 PM

```
                              FORM I
              GC SEMI VOA ORGANICS ANALYSIS DATA SHEET
```
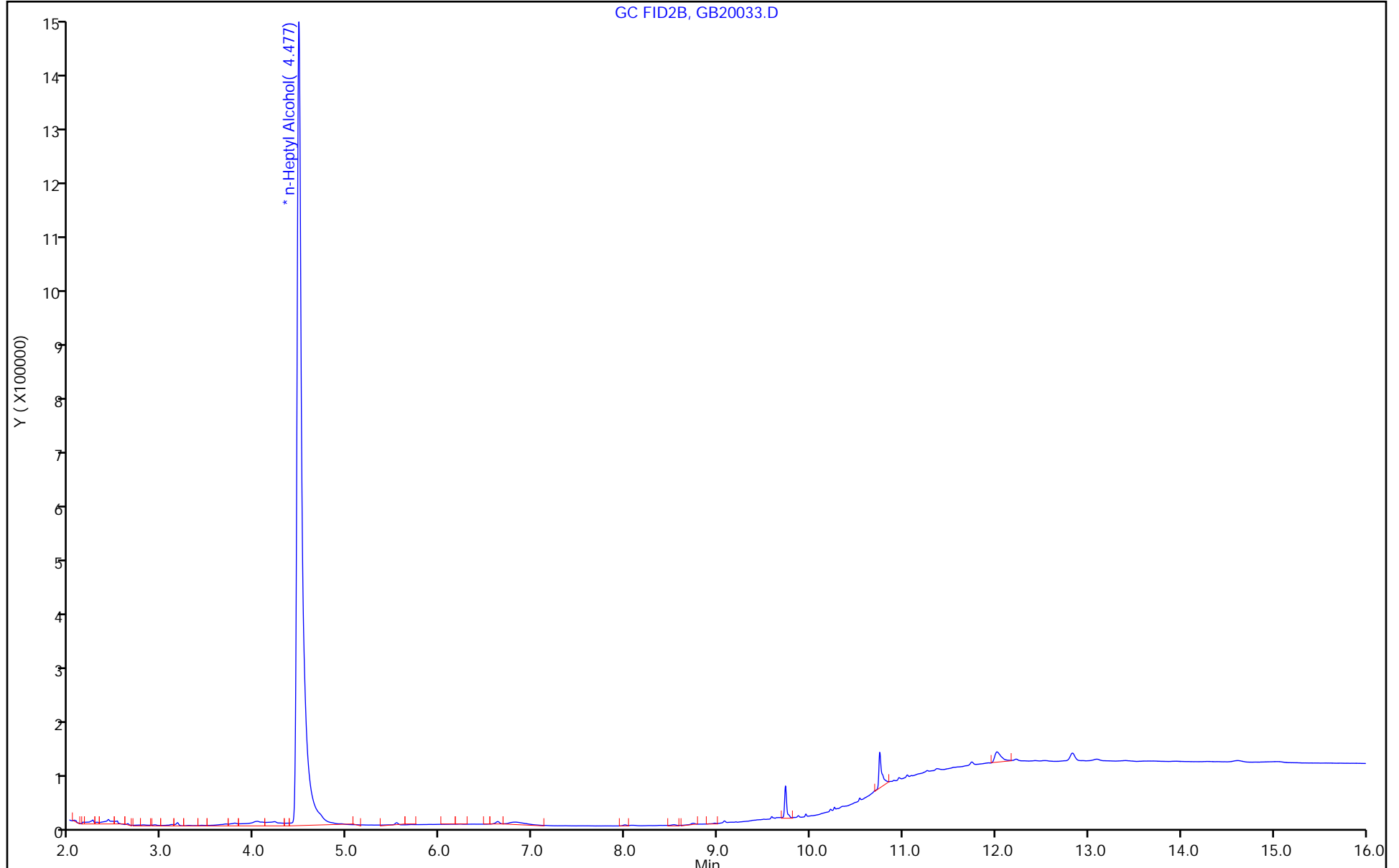
Lab Name: Eurofins Savannah _____ Job No.: 580-123622-1 _____

SDG No.: _____

Client Sample ID: AF-RHMW12A-WGN01LF-2302W2   Lab Sample ID: 580-123622-3 _____

Matrix: Water _____   Lab File ID: GB20034.D _____

Analysis Method: 8015C GLY _____   Date Collected: 02/14/2023 09:45 _____

Extraction Method: _____   Date Extracted: _____

Sample wt/vol: 1(mL) _____   Date Analyzed: 02/21/2023 04:29 _____

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

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

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

Cleanup Factor: _____

Analysis Batch No.: 764187 _____   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\20230220-83951.b\GB20034.D					
Lims ID:	580-123622-A-3					
Client ID:	AF-RHMW12A-WGN01LF-2302W2					
Sample Type:	Client					
Inject. Date:	21-Feb-2023 04:29:01	ALS Bottle#:	0	Worklist Smp#:	27	
Injection Vol:	1.0 ul	Dil. Factor:	1.0000			
Sample Info:	680-0083951-027					
Operator ID:		Instrument ID:	CVGG2			

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:48	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det:	GC FID2B
Process Host:	CTX1609		

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:21:53

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

* 4 n-Heptyl Alcohol

4.474	4.479	-0.005	5427035	50.0

Reagents:

SG_GLY_ISTD_00107		Amount Added: 10.00	Units: uL	Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20034.D

Injection Date:	21-Feb-2023 04:29:01	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-123622-A-3	Lab Sample ID:	680-123622-3	Worklist Smp#:	27
Client ID:	AF-RHMW12A-WGN01LF-2302W2				
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, GB20034.D

2/22/2023 3:02 PM
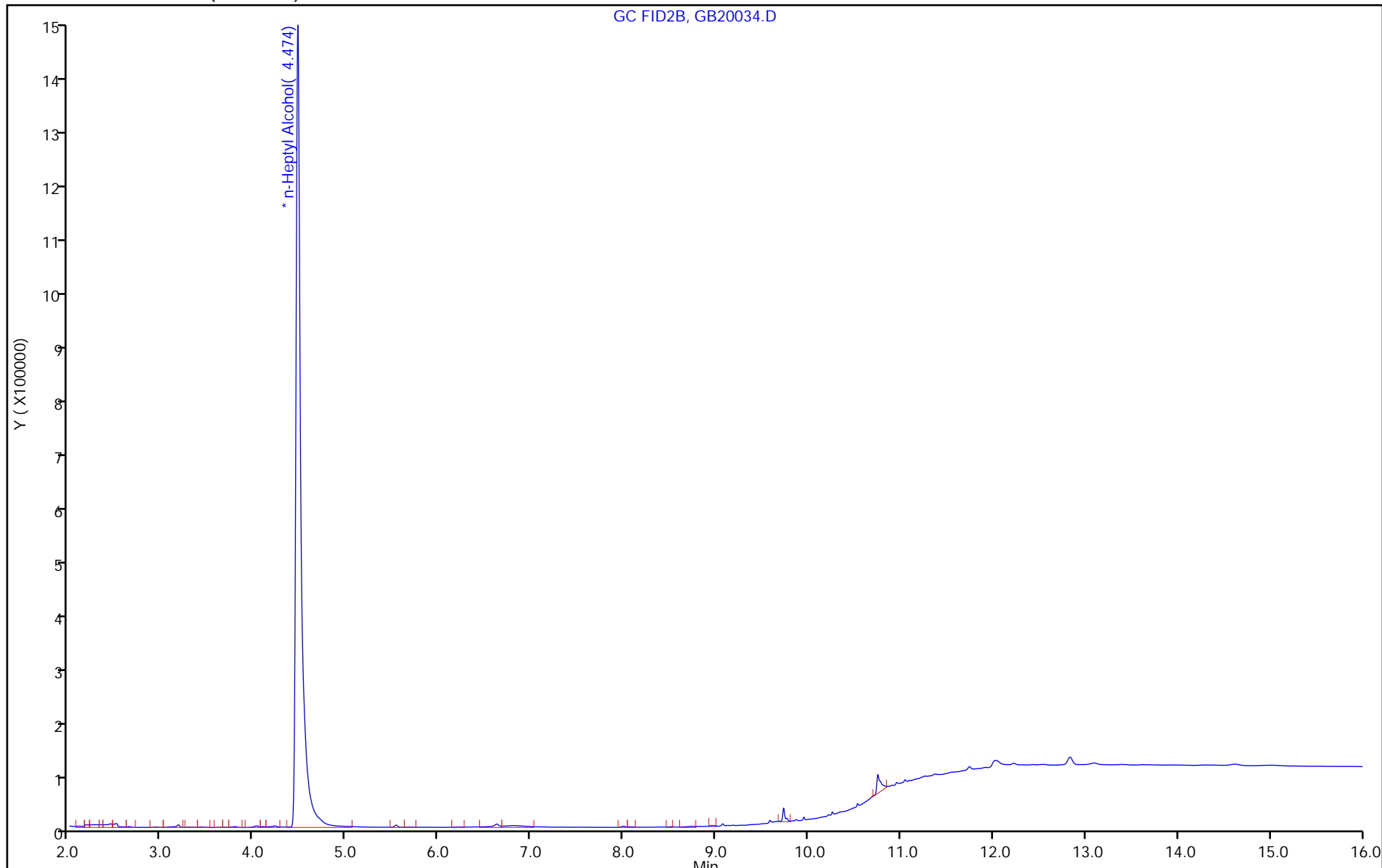
```
                              FORM I
              GC SEMI VOA ORGANICS ANALYSIS DATA SHEET


Lab Name: Eurofins Savannah              Job No.: 580-123622-1

SDG No.:

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W  Lab Sample ID: 580-123622-4
                  2

Matrix: Water                            Lab File ID: GB20035.D

Analysis Method: 8015C GLY               Date Collected: 02/14/2023  09:45

Extraction Method:                       Date Extracted:

Sample wt/vol: 1(mL)                     Date Analyzed: 02/21/2023  04:52

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.: 764187               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\20230220-83951.b\GB20035.D			
Lims ID:	580-123622-A-4			
Client ID:	AF-RHMW12A-WGFD01LF-2302W2			
Sample Type:	Client			
Inject. Date:	21-Feb-2023 04:52:17	ALS Bottle#:	0	Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Sample Info:	680-0083951-028			
Operator ID:		Instrument ID:	CVGG2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:48	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:21:57

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

* 4 n-Heptyl Alcohol

4.474	4.479	-0.005	5722809	50.0	

Reagents:

SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20035.D				
Injection Date:	21-Feb-2023 04:52:17	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-123622-A-4	Lab Sample ID:	680-123622-4	Worklist Smp#:	28
Client ID:	AF-RHMW12A-WGFD01LF-2302W2				
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, GB20035.D

2/22/2023 3:02 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: AF-HDMW225303-WGN01LF-230   Lab Sample ID: 580-123622-5
                  2W2

Matrix: Water   Lab File ID: GB20040.D

Analysis Method: 8015C GLY   Date Collected: 02/14/2023 10:30

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/21/2023 06:48

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.: 764187   Units: mg/L

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

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20040.D	
Lims ID:	580-123622-A-5	
Client ID:	AF-HDMW225303-WGN01LF-2302W2	
Sample Type:	Client	

Inject. Date:	21-Feb-2023 06:48:51	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083951-033				
Operator ID:		Instrument ID:	CVGG2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:56	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:22:14

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

*   4 n-Heptyl Alcohol

4.473	4.470	0.003	5556360	50.0	

Reagents:

SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20040.D
Injection Date: 21-Feb-2023 06:48:51   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123622-A-5   Lab Sample ID: 680-123622-5   Worklist Smp#:   33
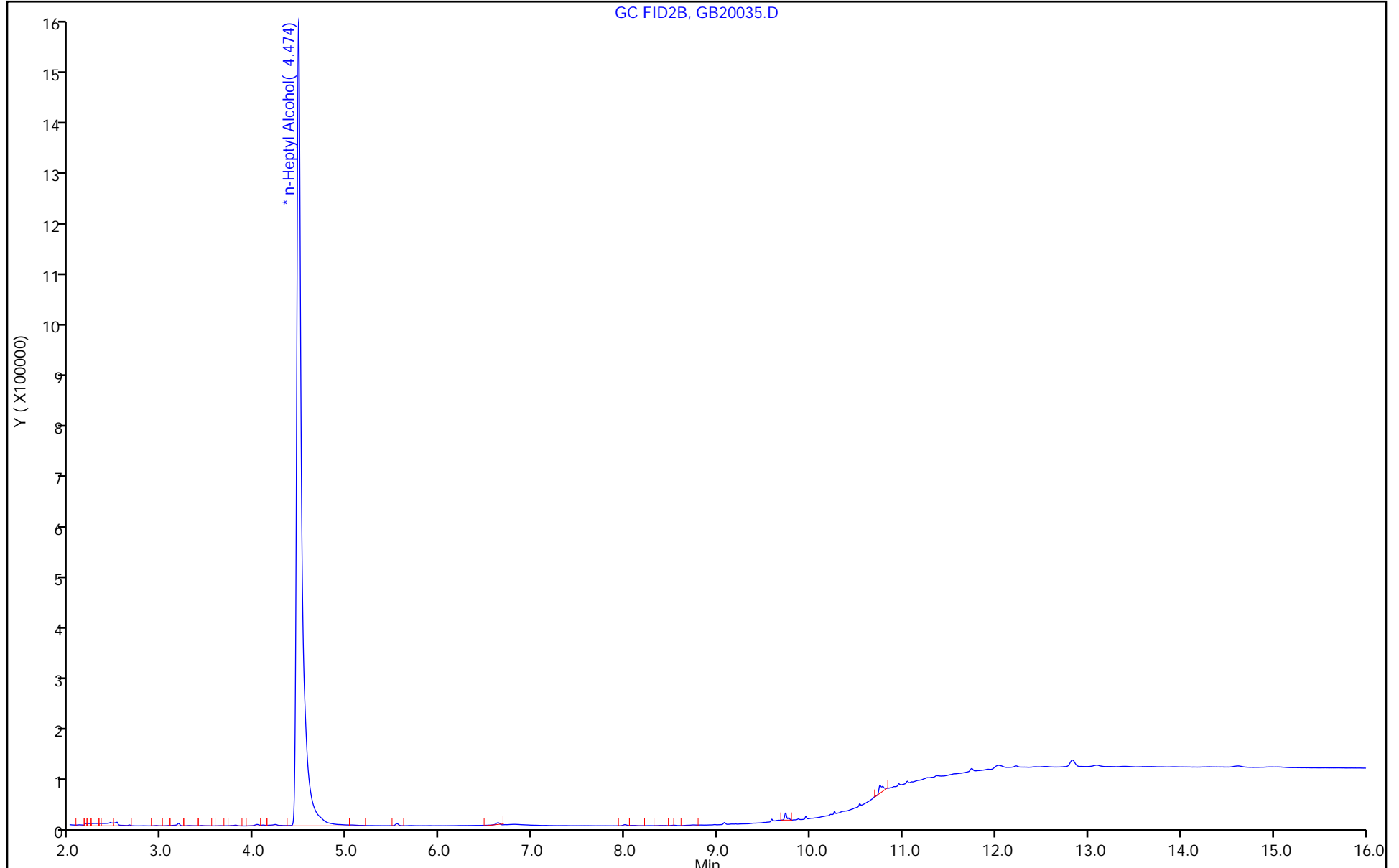Client ID: AF-HDMW225303-WGN01LF-2302W2
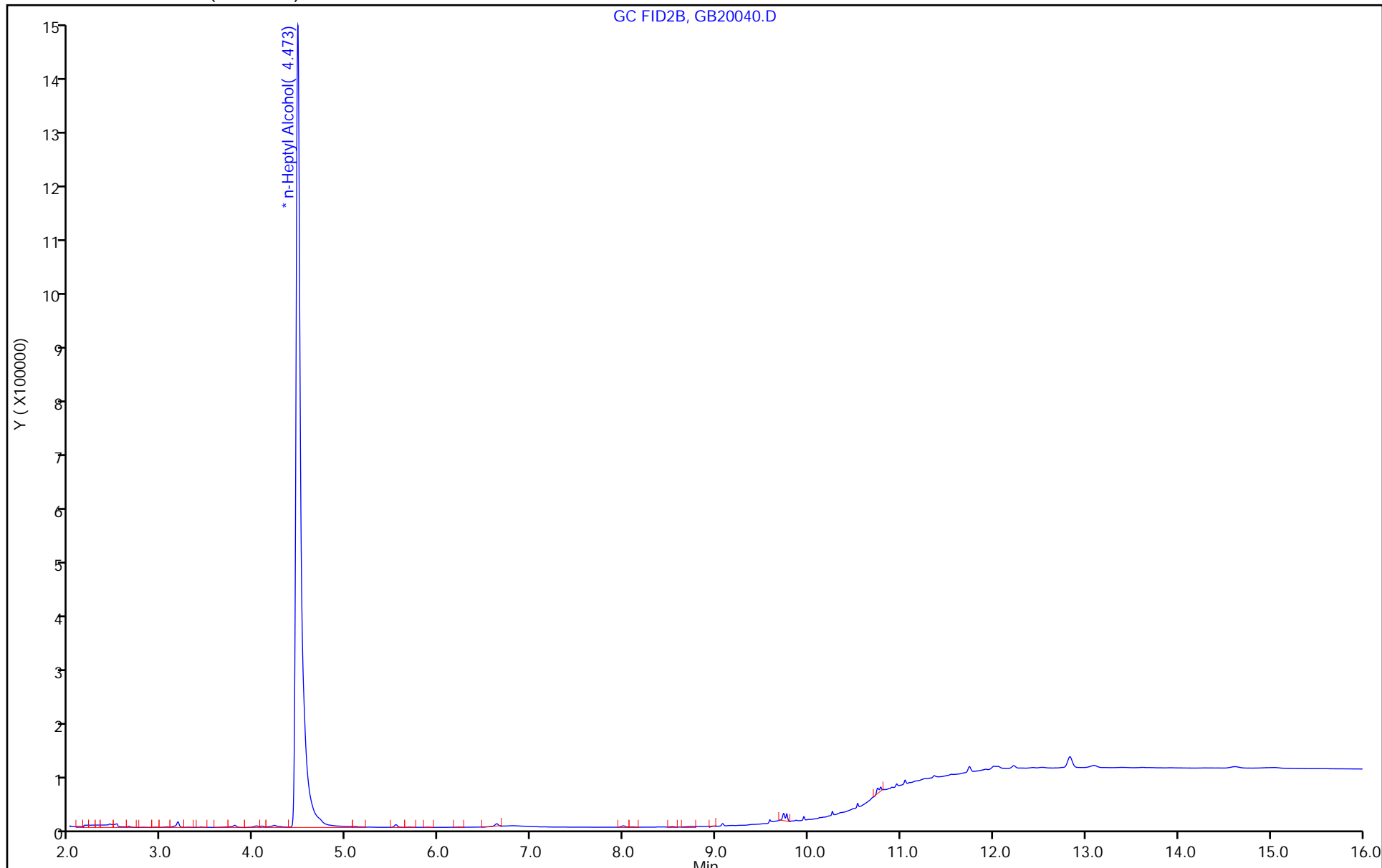Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20040.D

2/22/2023 3:02 PM

Lab Name: Eurofins Savannah   Job No.: 580-123622-1   Analy Batch No.: 764187

SDG No.: _____

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

Calibration Start Date: 02/20/2023 18:45   Calibration End Date: 02/20/2023 21:05   Calibration ID: 89986

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-764187/8	GB20015.D
Level 2	IC 680-764187/7	GB20014.D
Level 3	IC 680-764187/6	GB20013.D
Level 4	ICIS 680-764187/5	GB20012.D
Level 5	IC 680-764187/4	GB20011.D
Level 6	IC 680-764187/3	GB20010.D
Level 7	IC 680-764187/2	GB20009.D

ANALYTE	RRF LVL 1 LVL 6	RRF LVL 2 LVL 7	RRF LVL 3	RRF LVL 4	RRF LVL 5	CURVE TYPE	COEFFICIENT B	COEFFICIENT M1	COEFFICIENT M2	#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
Ethanol, 2-propoxy	0.9746 0.5907	0.7069 0.5341	0.6682	0.5567	+++++	Lin2	0.8521	0.5480							0.9960		0.9900
4-Hydroxy-4-methyl-2-pentanone	+++++ 0.5631	0.6510 0.4922	0.6050	0.4987	+++++	Ave		0.5620				12.1		20.0			
2-Butoxyethanol	1.0816 0.6374	0.7913 0.5950	0.7506	0.6232	+++++	Lin2	0.9544	0.6077							0.9970		0.9900
Dipropylene Glycol Methyl Ether	0.0778 0.0442	0.0518 0.0395	0.0488	0.0396	+++++	Lin2	0.0751	0.0393							0.9930		0.9900
Propylene glycol	0.3312 0.1592	0.2476 0.1694	0.2248	0.1861	+++++	Lin1	0.3965	0.1621							0.9970		0.9900
Ethylene glycol	0.6921 0.3082	0.5040 0.3194	0.4481	0.3715	+++++	Lin	1.0903	0.3035							0.9990		0.9900
2-(2-Butoxyethoxy)ethanol	0.9211 0.4637	0.6126 0.4310	0.5503	0.4325	+++++	Lin2	0.9881	0.4249							0.9950		0.9900
2,2'-Oxybisethanol	0.4049 0.2034	0.3388 0.2187	0.3003	0.2458	+++++	Lin	0.6429	0.2060							0.9970		0.9900
Triethylene Glycol	0.3673 0.1956	0.3256 0.2139	0.2892	0.2343	+++++	Lin	0.5656	0.2008							0.9950		0.9900
Tetraethylene Glycol	0.3979 +++++	0.3518 +++++	0.3106	0.2450	+++++	Qua	0.1967	0.3618	-0.003045						1.0000		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.: 580-123622-1   Analy Batch No.: 764187

SDG No.:

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

Calibration Start Date: 02/20/2023 18:45   Calibration End Date: 02/20/2023 21:05   Calibration ID: 89986

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-764187/8	GB20015.D
Level 2	IC 680-764187/7	GB20014.D
Level 3	IC 680-764187/6	GB20013.D
Level 4	ICIS 680-764187/5	GB20012.D
Level 5	IC 680-764187/4	GB20011.D
Level 6	IC 680-764187/3	GB20010.D
Level 7	IC 680-764187/2	GB20009.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	Lin2	200428 / 3293287	367183 / 4615137	667342	987298	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
4-Hydroxy-4-methyl-2-pentanone	nHPA	Ave	+++++ / 3139533	338143 / 4253163	604209	884438	+++++	+++++ / 80.0	5.00 / 100	10.0	20.0	+++++
2-Butoxyethanol	nHPA	Lin2	222427 / 3553544	411001 / 5141113	749670	1105242	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
Dipropylene Glycol Methyl Ether	nHPA	Lin2	16002 / 246167	26885 / 341008	48699	70167	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
Propylene glycol	nHPA	Lin1	68115 / 887793	128630 / 1463379	224460	329971	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
Ethylene glycol	nHPA	Lin	142337 / 1718353	261771 / 2759840	447498	658843	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
2-(2-Butoxyethoxy)ethanol	nHPA	Lin2	189426 / 2585173	318221 / 3724190	549607	767132	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
2,2'-Oxybisethanol	nHPA	Lin	83271 / 1134016	175957 / 1889936	299924	435871	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
Triethylene Glycol	nHPA	Lin	75541 / 1090312	169134 / 1847910	288813	415601	+++++	2.00 / 80.0	5.00 / 100	10.0	20.0	+++++
Tetraethylene Glycol	nHPA	Qua	163648 / +++++	365463 / +++++	620328	868911	+++++	4.00 / +++++	10.0 / +++++	20.0	40.0	+++++

Curve Type Legend

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Lab Name: Eurofins Savannah   Job No.: 580-123622-1   Analy Batch No.: 764187

SDG No.:

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

Calibration Start Date: 02/20/2023 18:45   Calibration End Date: 02/20/2023 21:05   Calibration ID: 89986

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-764187/8	GB20015.D
Level 2	IC 680-764187/7	GB20014.D
Level 3	IC 680-764187/6	GB20013.D
Level 4	ICIS 680-764187/5	GB20012.D
Level 5	IC 680-764187/4	GB20011.D
Level 6	IC 680-764187/3	GB20010.D
Level 7	IC 680-764187/2	GB20009.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethanol, 2-propoxy	0.1 -4.1	-2.1	6.4	-6.2	+++++	5.9	20 20	20	20	20		20
4-Hydroxy-4-methyl-2-pentanone	+++++ -12.4	15.8	7.6	-11.3	+++++	0.2	20	20	20	20		20
2-Butoxyethanol	-0.5 -3.7	-1.2	7.8	-5.3	+++++	2.9	20 20	20	20	20		20
Dipropylene Glycol Methyl Ether	2.3 -1.6	-6.6	4.9	-9.0	+++++	9.9	20 20	20	20	20		20
Propylene glycol	-17.9 2.1	3.9	14.2	2.6	+++++	-4.8	20 20	20	20	20		20
2-(2-Butoxyethoxy)ethanol	0.5 -0.9	-2.3	6.3	-9.8	+++++	6.2	20 20	20	20	20		20

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Lims ID: ic g7
Client ID:
Sample Type: IC   Calib Level: 7
Inject. Date: 20-Feb-2023 18:45:13   ALS Bottle#:   0   Worklist Smp#:   2
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-002
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:10:32   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:48:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.084	3.086	-0.002	4615137	100.0	95.9	
2 4-Hydroxy-4-methyl-2-pentanone						
3.667	3.671	-0.004	4253163	100.0	87.6	
3 2-Butoxyethanol						M
3.996	3.996	0.000	5141113	100.0	96.3	M
* 4 n-Heptyl Alcohol						M
4.480	4.479	0.001	4320326	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.420	5.424	-0.004	341008	100.0	98.4	M
6 Propylene glycol						M
6.565	6.567	-0.002	1463379	100.0	102.1	M
7 Ethylene glycol						
6.812	6.821	-0.009	2759840	100.0	101.6	
8 2-(2-Butoxyethoxy)ethanol						
8.733	8.732	0.001	3724190	100.0	99.1	
9 2,2'-Oxybisethanol						
9.730	9.729	0.001	1889936	100.0	103.0	
10 Triethylene Glycol						
10.747	10.746	0.001	1847910	100.0	103.7	
11 Tetraethylene Glycol						
12.001	11.997	0.004	3878972	200.0	NQ	

QC Flag Legend
Processing Flags
 NQ - Not Quantifiable

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 50.00   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g7   Worklist Smp#:   2
Client ID:
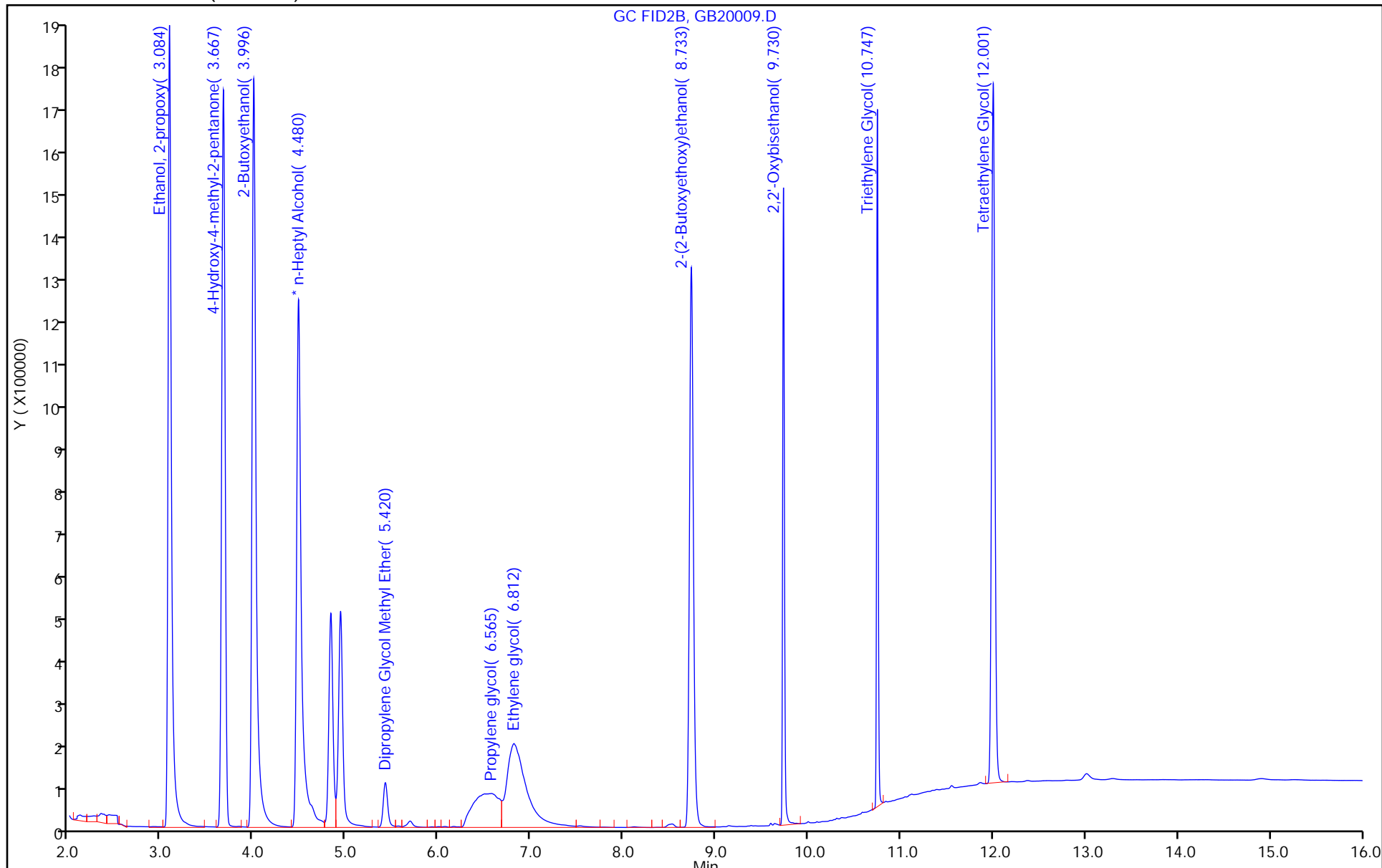Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

2/22/2023 3:02 PM

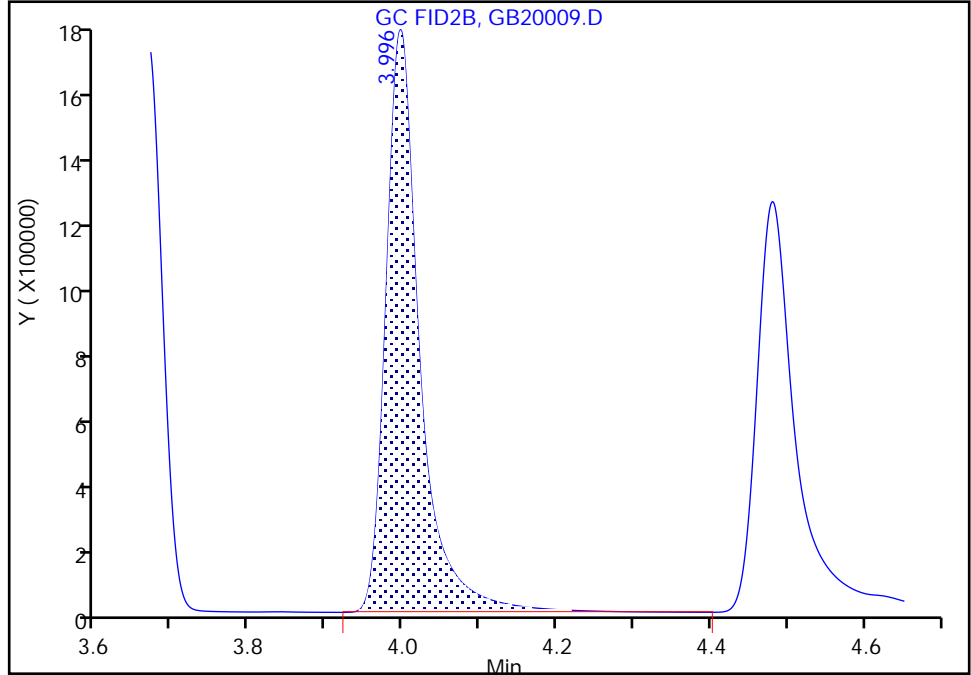Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13   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

3 2-Butoxyethanol, CAS: 111-76-2
Signal: 1

Processing Integration Results

RT: 4.00
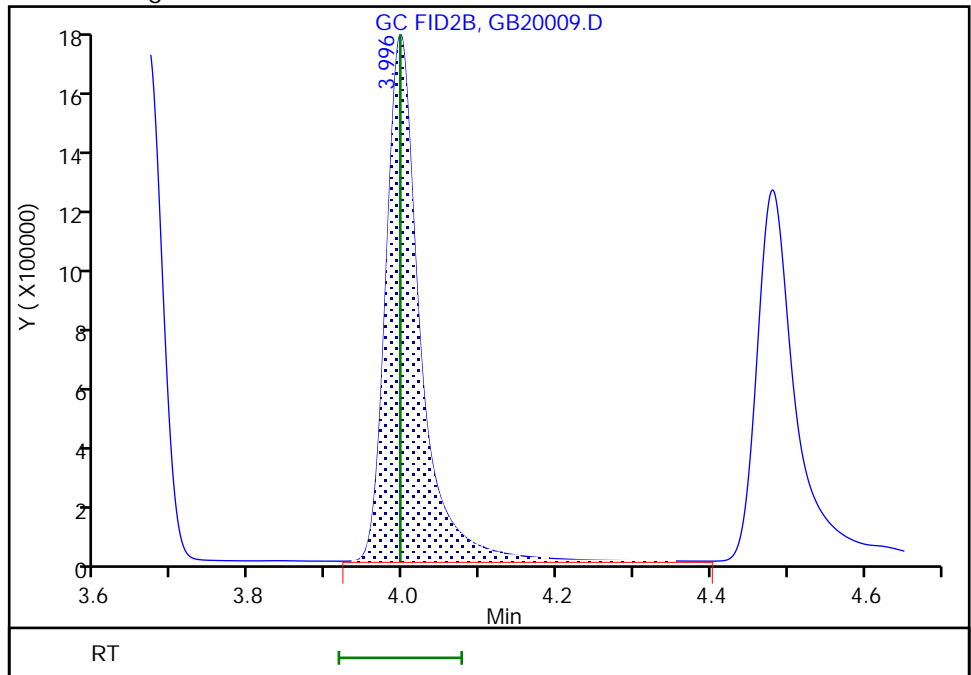Area: 5137030
Amount: 95.142166
Amount Units: ug/ml

Manual Integration Results

RT: 4.00
Area: 5141113
Amount: 96.334485
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 12:26:55
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
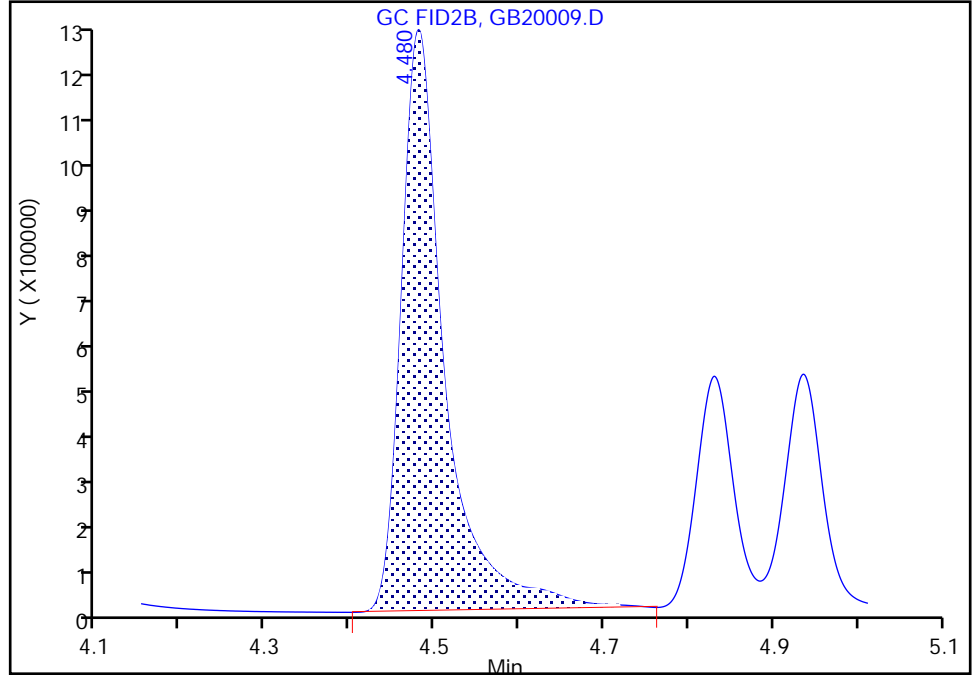
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13   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

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

RT: 4.48
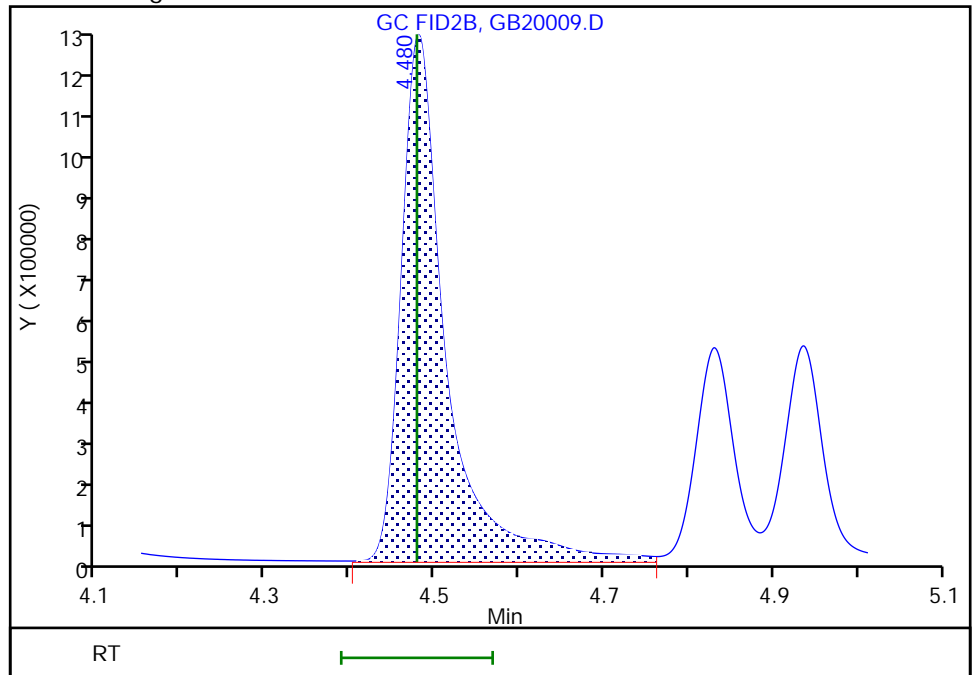Area: 4205446
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results

RT: 4.48
Area: 4320326
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:26:55
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date:	20-Feb-2023 18:45:13

Injection Date:	20-Feb-2023 18:45:13	Instrument ID:	CVGG2
Lims ID:	ic g7		
Client ID:			
Operator ID:		ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

Worklist Smp#: 2

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

Signal: 1

Processing Integration Results

RT:	5.42
Area:	337855
Amount:	93.857135
Amount Units:	ug/ml

Manual Integration Results

RT:	5.42
Area:	341008
Amount:	98.439742
Amount Units:	ug/ml

Reviewer: SK9U, 21-Feb-2023 12:26:55
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

2/22/2023 3:02
PM

Eurofins Savannah
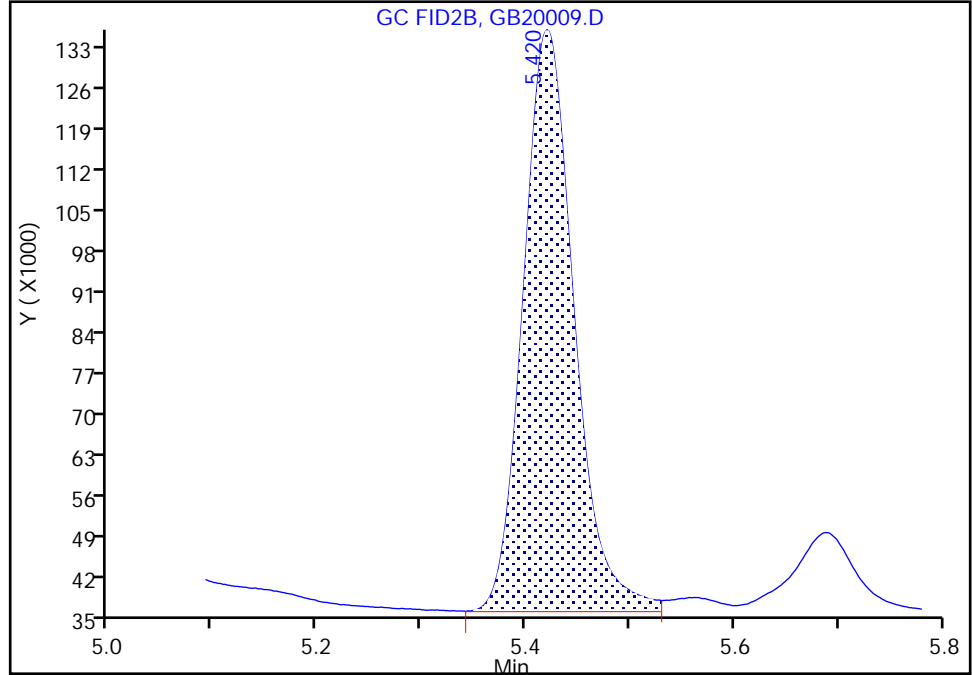
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13   Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   2
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B
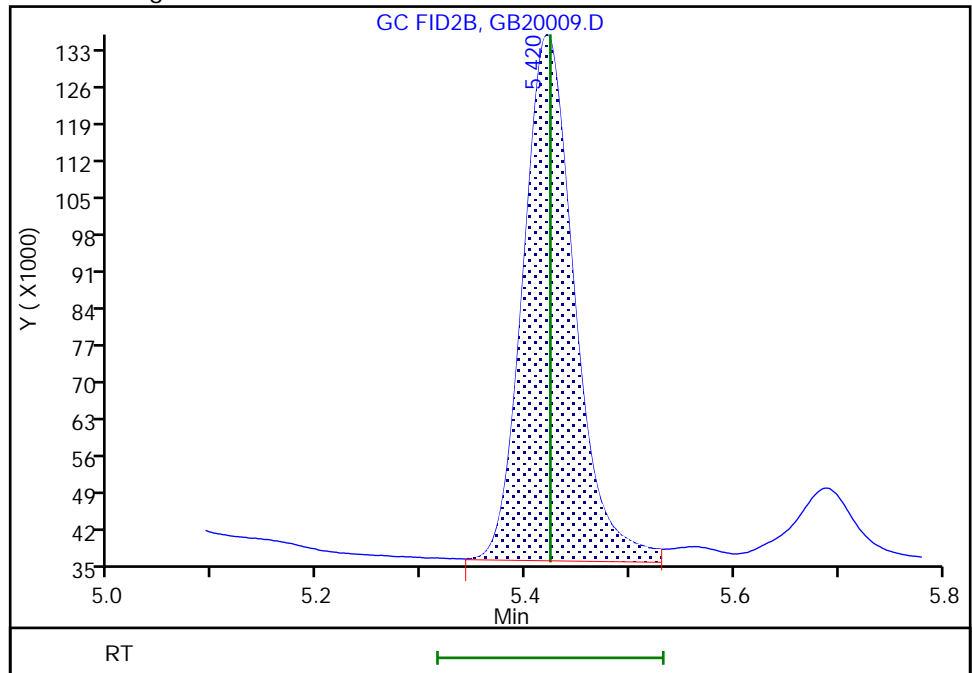
6 Propylene glycol, CAS: 57-55-6
Signal: 1

Processing Integration Results

RT: 6.57
Area: 723408
Amount: 42.295333
Amount Units: ug/ml

Manual Integration Results

RT: 6.57
Area: 1463379
Amount: 102.0623
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 10:48:08
Audit Action: Manually Integrated   Audit Reason: Incomplete Integration

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Lims ID: ic g6
Client ID:
Sample Type: IC   Calib Level: 6
Inject. Date: 20-Feb-2023 19:08:40   ALS Bottle#:   0   Worklist Smp#:   3
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-003
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:10:33   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:47:52

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy							
	3.092	3.086	0.006	3293287	80.0	84.7	
2 4-Hydroxy-4-methyl-2-pentanone							
	3.680	3.671	0.009	3139533	80.0	80.2	
3 2-Butoxyethanol							
	3.999	3.996	0.003	3553544	80.0	82.3	
* 4 n-Heptyl Alcohol							M
	4.475	4.479	-0.004	3484458	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether							M
	5.428	5.424	0.004	246167	80.0	87.9	M
6 Propylene glycol							M
	6.579	6.567	0.012	887793	80.0	76.2	M
7 Ethylene glycol							M
	6.822	6.821	0.001	1718353	80.0	77.6	M
8 2-(2-Butoxyethoxy)ethanol							
	8.734	8.732	0.002	2585173	80.0	85.0	
9 2,2'-Oxybisethanol							
	9.730	9.729	0.001	1134016	80.0	75.9	
10 Triethylene Glycol							
	10.746	10.746	0.000	1090312	80.0	75.1	
11 Tetraethylene Glycol							
	12.000	11.997	0.003	2287135	160.0	NQ	

QC Flag Legend

Processing Flags
 NQ - Not Quantifiable

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046	Amount Added: 40.00	Units: uL	
SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah
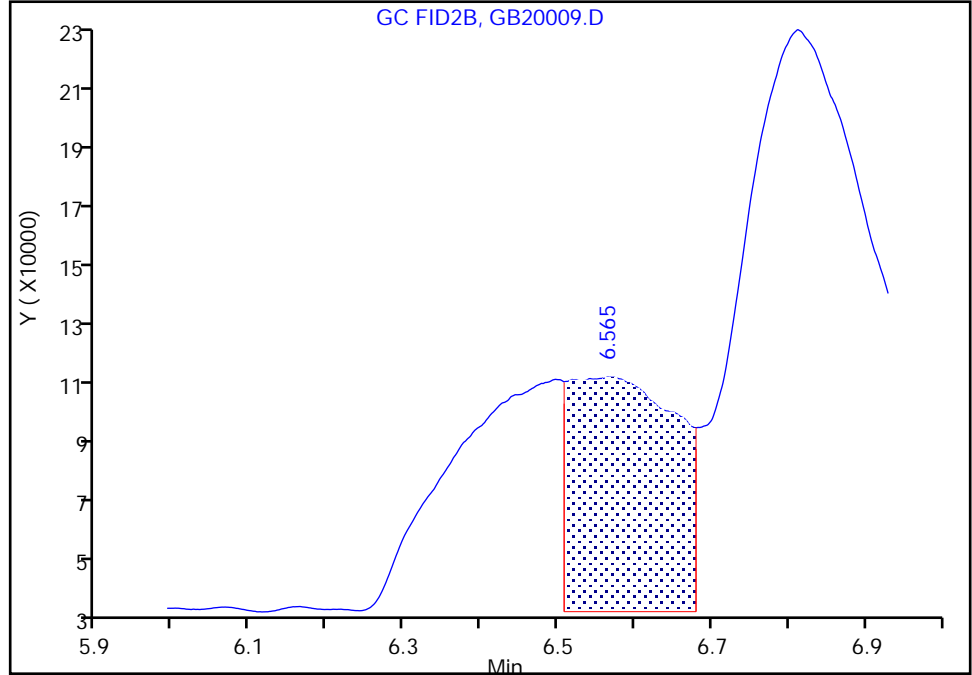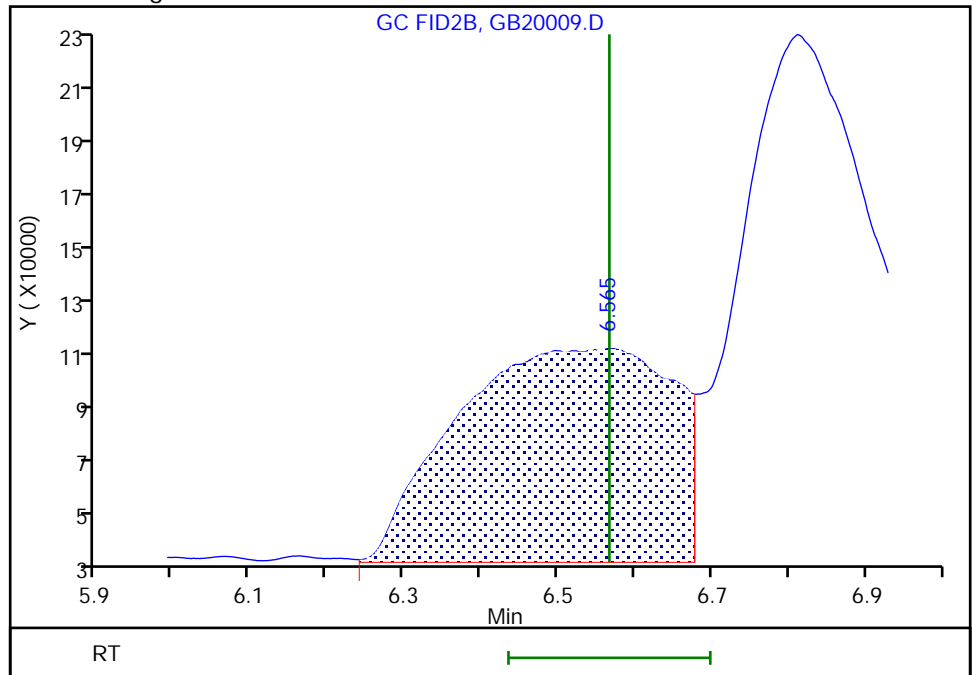
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g6   Worklist Smp#:   3
Client ID:
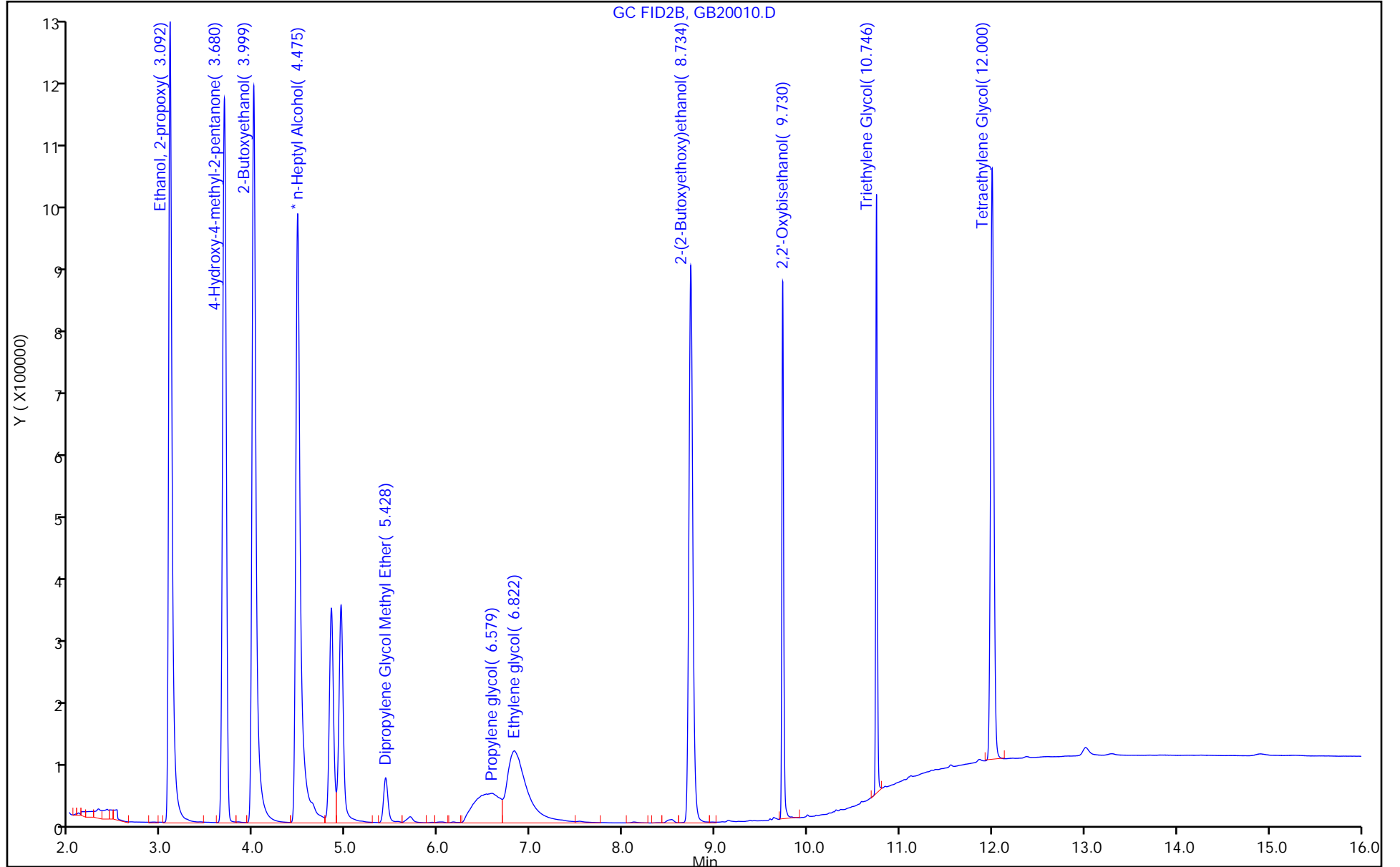Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

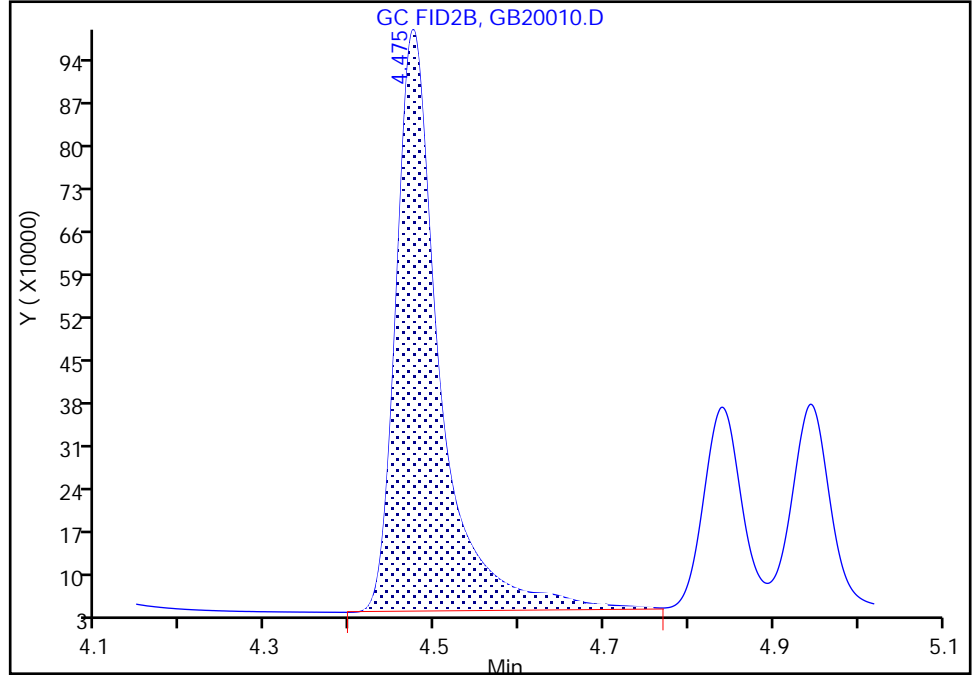GC FID2B, GB20010.D

2/22/2023 3:02
PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40   Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   3
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: 4.47
Area: 3403381
Amount: 50.000000
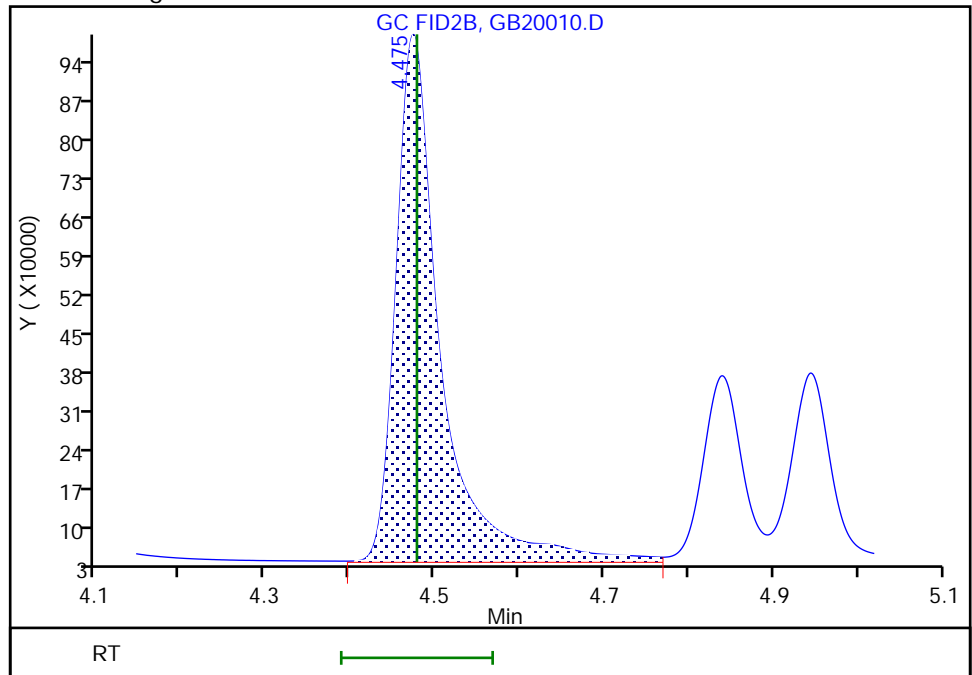Amount Units: ug/ml

Processing Integration Results

RT: 4.47
Area: 3484458
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:27:12
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

2/22/2023 3:02
PM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date:	20-Feb-2023 19:08:40

Injection Date:	20-Feb-2023 19:08:40	Instrument ID:	CVGG2	
Lims ID:	ic g6			
Client ID:				
Operator ID:		ALS Bottle#:	0	Worklist Smp#: 3
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:	243064
Amount:	83.843486
Amount Units:	ug/ml

Manual Integration Results

RT:	5.43
Area:	246167
Amount:	87.907851
Amount Units:	ug/ml
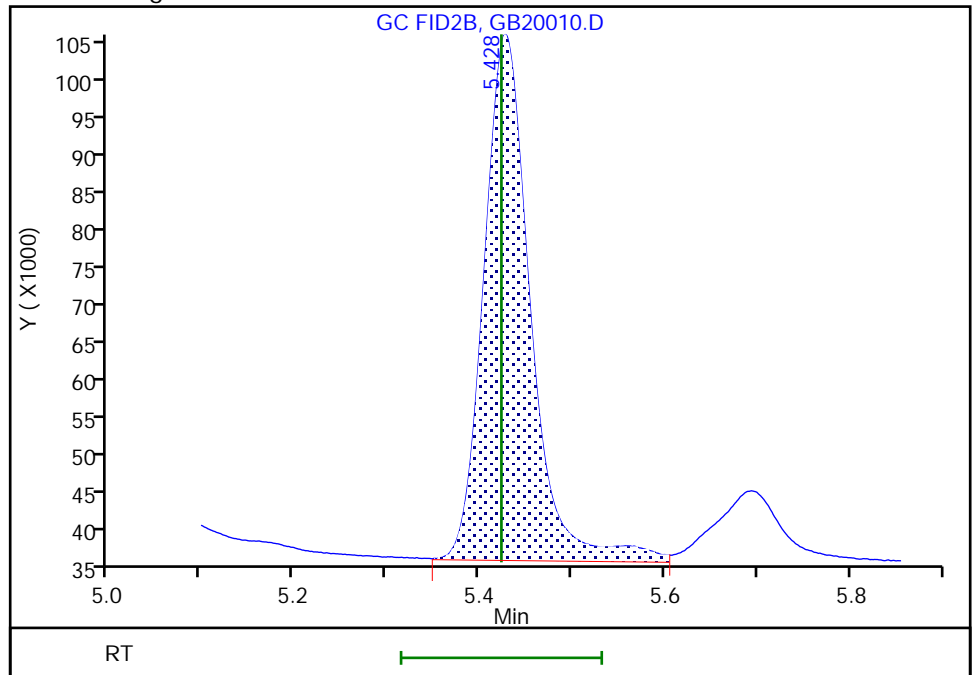
Reviewer: SK9U, 21-Feb-2023 12:27:12
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
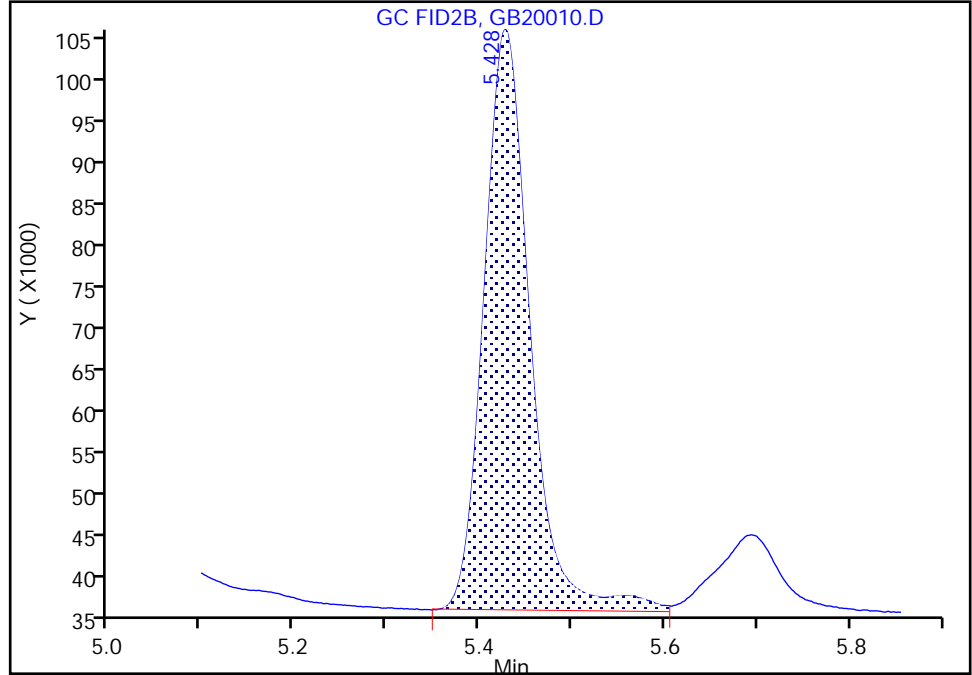
2/22/2023 3:02
PM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date:	20-Feb-2023 19:08:40	Instrument ID:	CVGG2
Lims ID:	ic g6		
Client ID:			
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	3
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: 407702
Amount: 31.371932
Amount Units: ug/ml

Manual Integration Results

RT: 6.58
Area: 887793
Amount: 76.165451
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 12:42:10
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
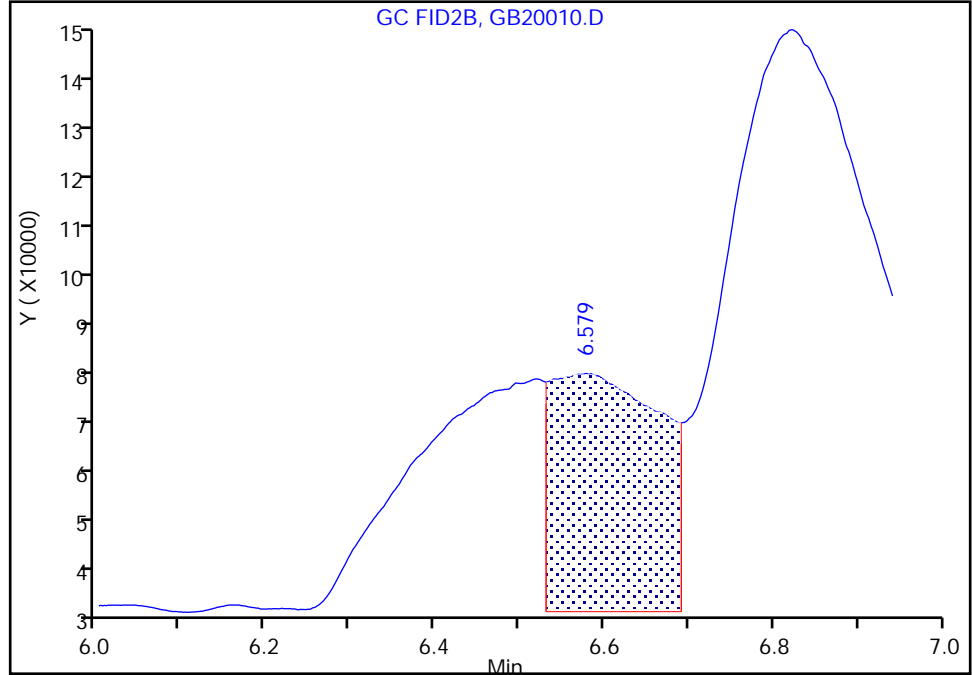
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40   Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   3
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
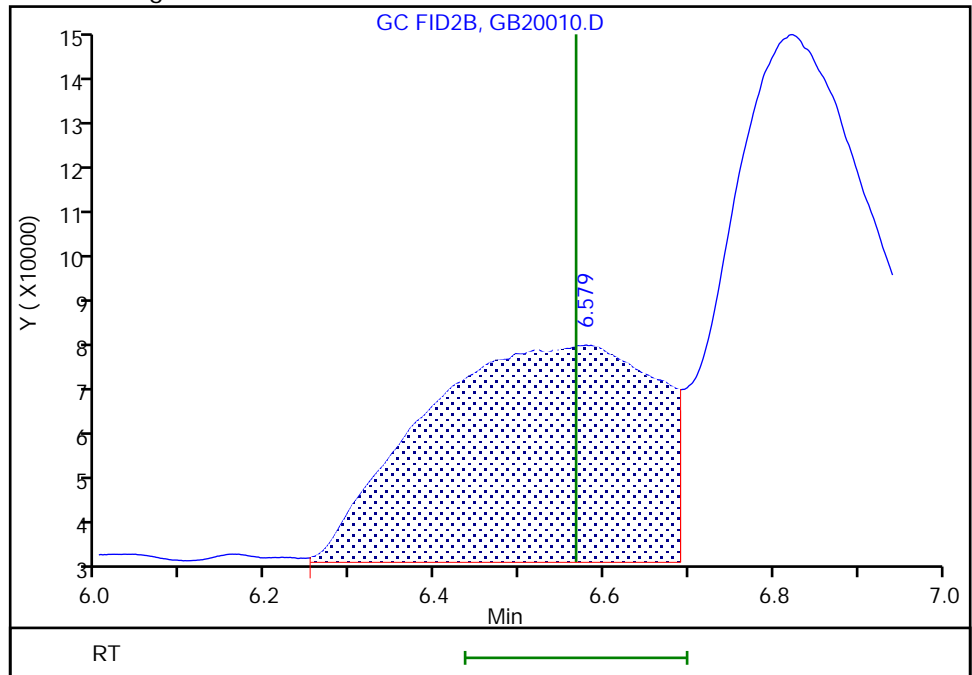Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT: 6.82
Area: 1700738
Amount: 70.749963
Amount Units: ug/ml

Manual Integration Results

RT: 6.82
Area: 1718353
Amount: 77.638487
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 12:42:10
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
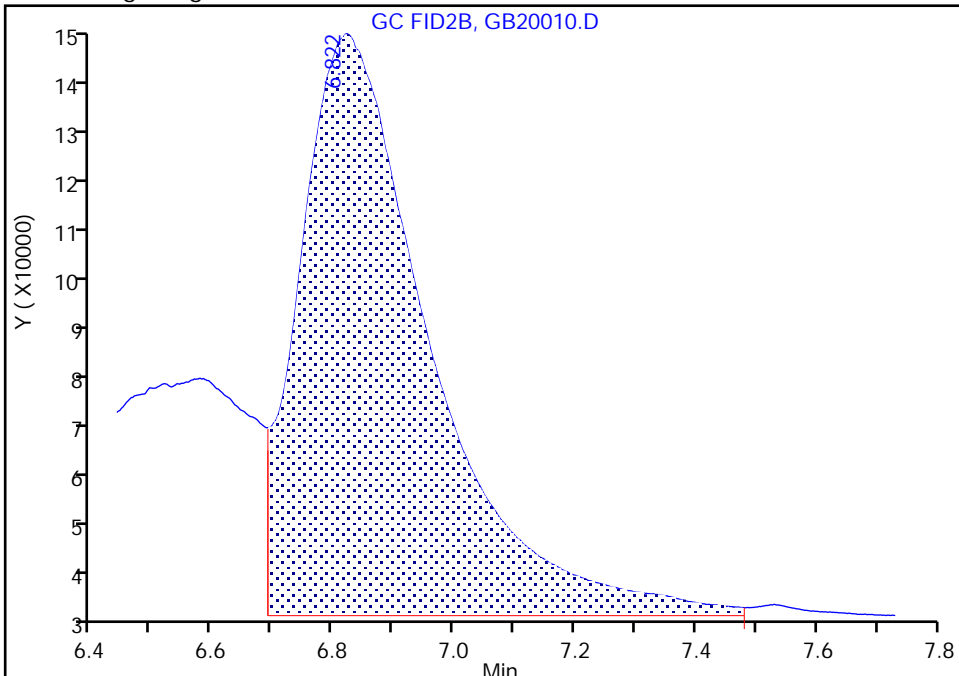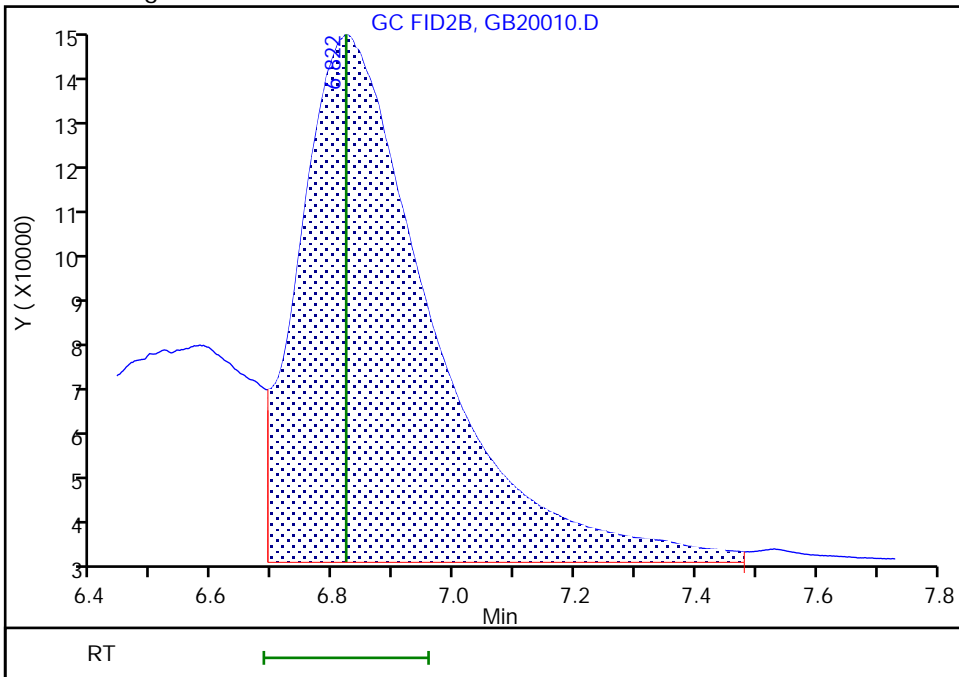
Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Lims ID: ic g5
Client ID:
Sample Type: IC   Calib Level: 5
Inject. Date: 20-Feb-2023 19:32:03   ALS Bottle#:   0   Worklist Smp#:   4
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-004
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:10:34   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:47:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.089	3.086	0.003	3086610	50.0	55.2	
2 4-Hydroxy-4-methyl-2-pentanone						
3.676	3.671	0.005	2914771	50.0	52.2	
3 2-Butoxyethanol						M
3.998	3.996	0.002	3401759	50.0	54.8	M
* 4 n-Heptyl Alcohol						M
4.477	4.479	-0.002	4963591	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.425	5.424	0.001	238085	50.0	59.1	M
6 Propylene glycol						M
6.554	6.567	-0.013	971172	50.0	57.9	M
7 Ethylene glycol						
6.813	6.821	-0.008	1818667	50.0	56.8	
8 2-(2-Butoxyethoxy)ethanol						
8.733	8.732	0.001	2604819	50.0	59.4	
9 2,2'-Oxybisethanol						
9.730	9.729	0.001	1252188	50.0	58.1	
10 Triethylene Glycol						
10.746	10.746	0.000	1226435	50.0	58.7	
11 Tetraethylene Glycol						
11.999	11.997	0.002	2606157	100.0	NQ	

QC Flag Legend

Processing Flags
 NQ - Not Quantifiable

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 25.00   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date: 20-Feb-2023 19:32:03   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g5   Worklist Smp#:   4
Client ID:
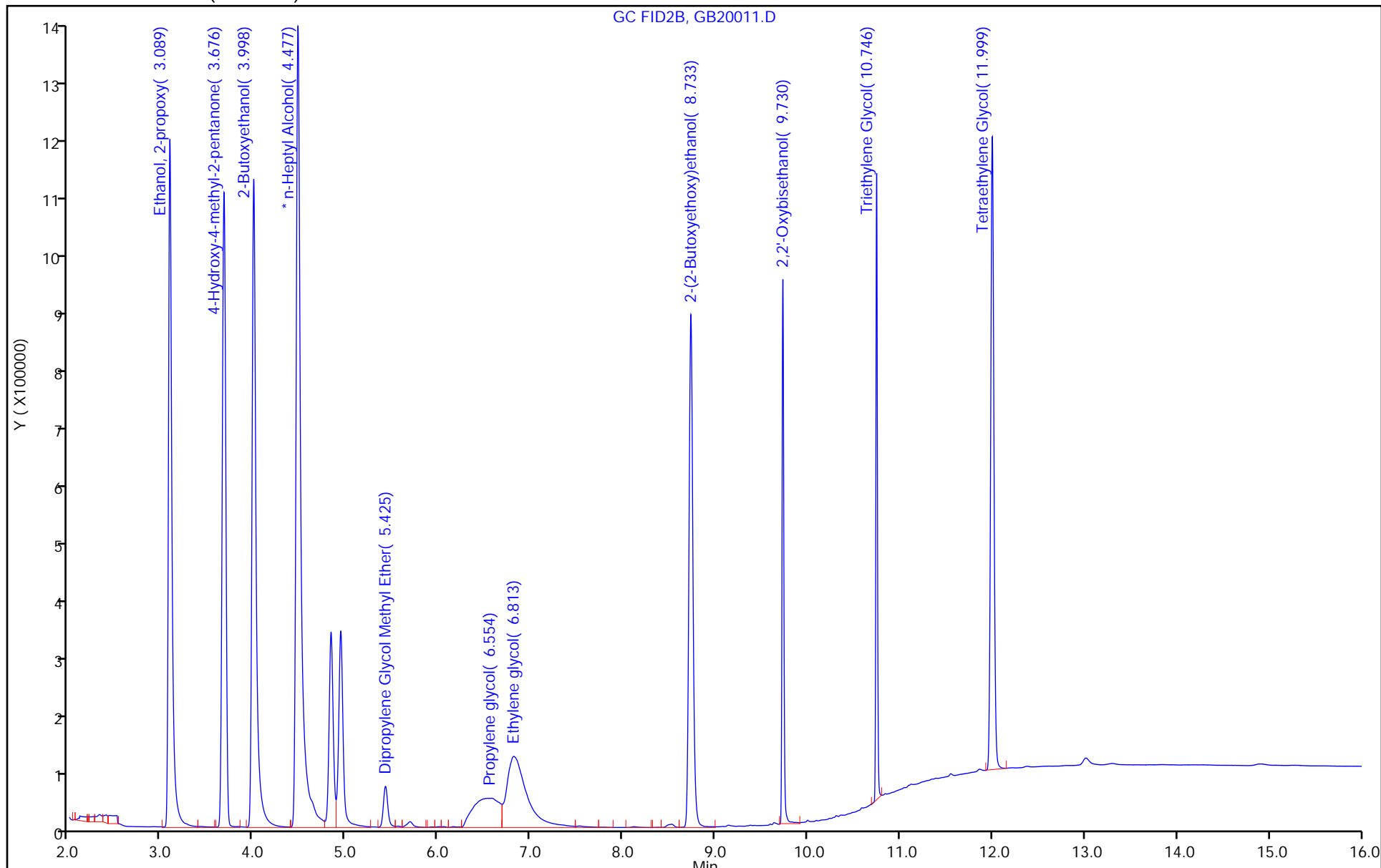Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20011.D

2/22/2023 3:02 PM

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date:	20-Feb-2023 19:32:03
Lims ID:	ic g5
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#: 4
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

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

Signal: 1

Processing Integration Results

RT:	4.00
Area:	3391309
Amount:	54.420216
Amount Units:	ug/ml

Manual Integration Results

RT:	4.00
Area:	3401759
Amount:	54.815582
Amount Units:	ug/ml

Reviewer: SK9U, 21-Feb-2023 12:28:07
Audit Action: Assigned New Baseline

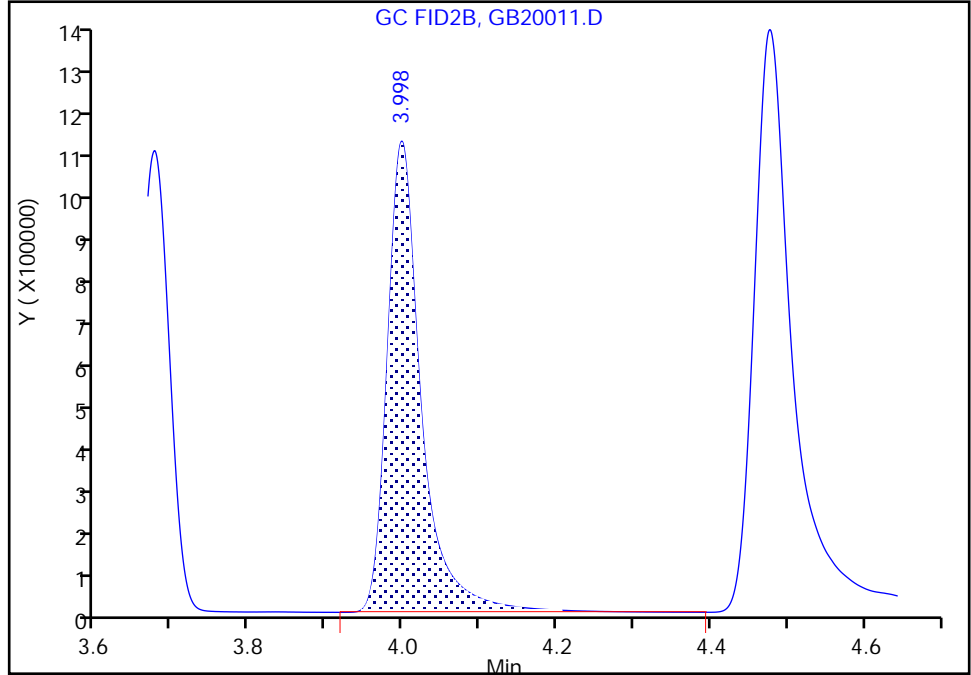Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date:	20-Feb-2023 19:32:03
Lims ID:	ic g5
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#: 4
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

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

Processing Integration Results

RT:	4.48
Area:	4850022
Amount:	50.000000
Amount Units:	ug/ml

Manual Integration Results

RT:	4.48
Area:	4963591
Amount:	50.000000
Amount Units:	ug/ml
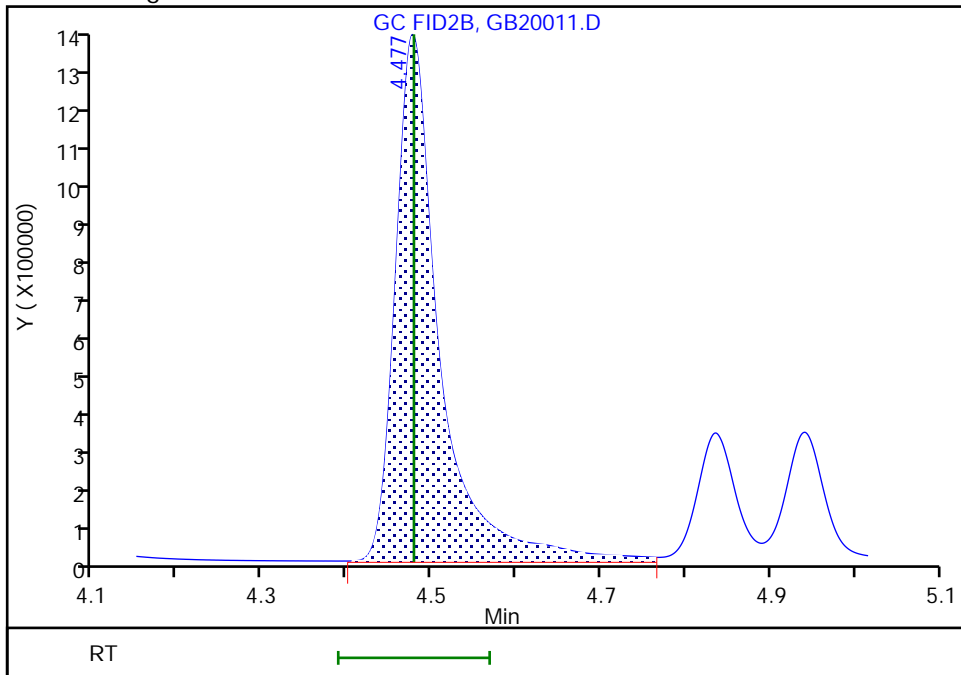
Reviewer: SK9U, 21-Feb-2023 12:28:07
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date:	20-Feb-2023 19:32:03

Lims ID:	ic g5	Instrument ID:	CVGG2
Client ID:			
Operator ID:		ALS Bottle#:	0	Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

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

Processing Integration Results

RT:	5.43
Area:	234665
Amount:	55.696206
Amount Units:	ug/ml

Manual Integration Results

RT:	5.43
Area:	238085
Amount:	59.072248
Amount Units:	ug/ml
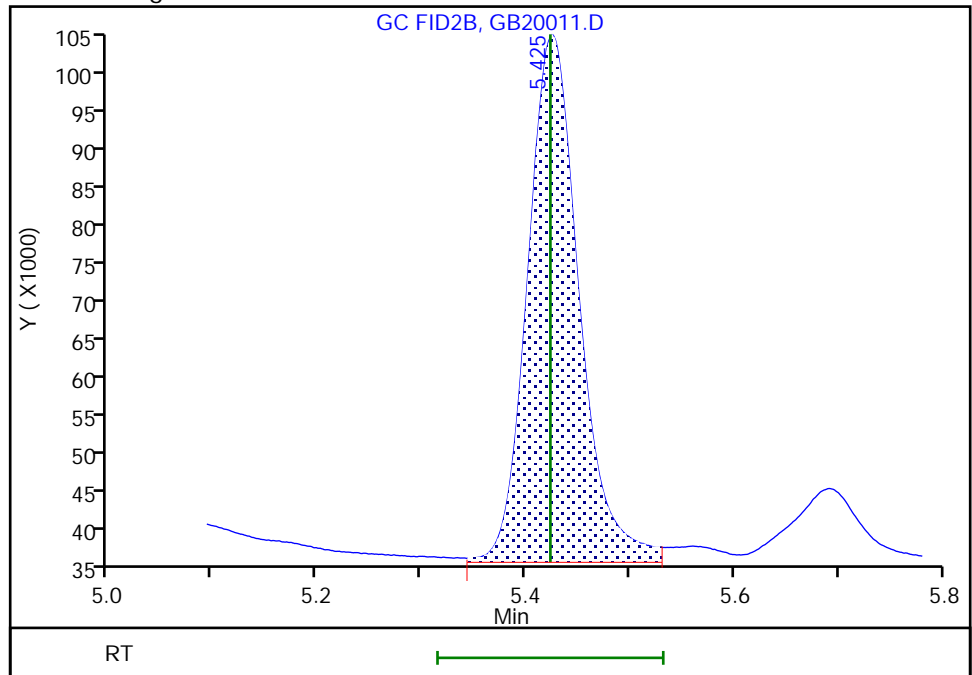
Reviewer: SK9U, 21-Feb-2023 12:28:07
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

2/22/2023 3:02
PM

Eurofins Savannah
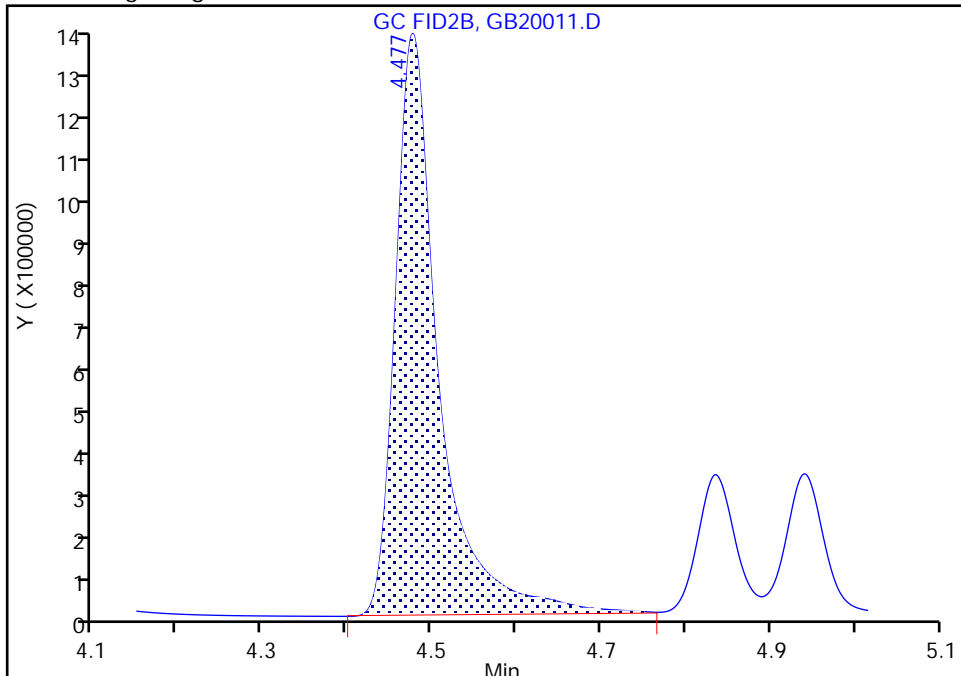
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date: 20-Feb-2023 19:32:03   Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   4
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
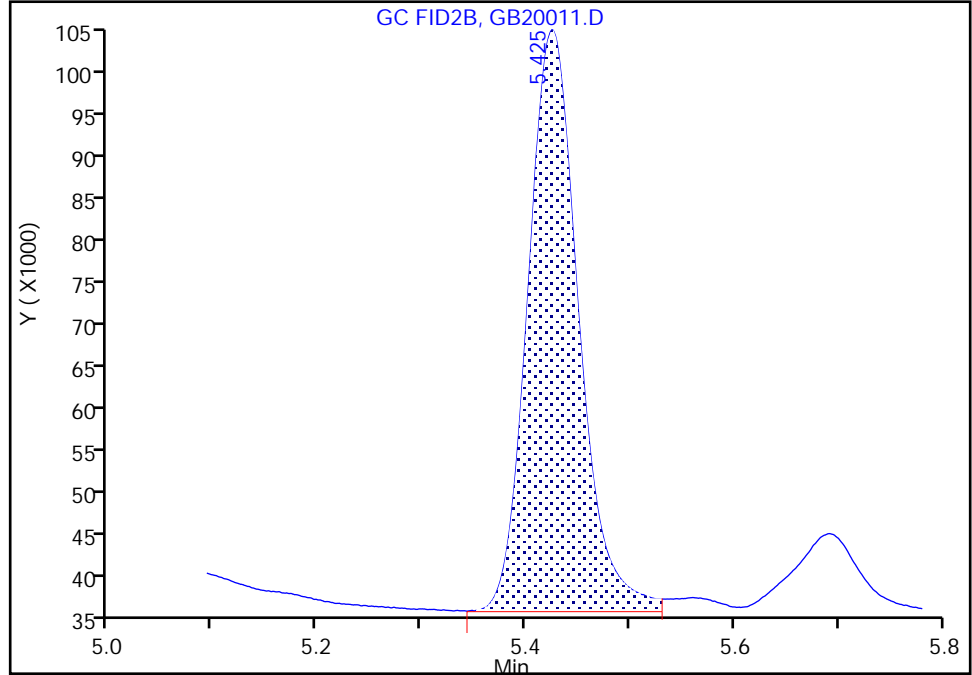Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT: 6.53
Area: 466006
Amount: 27.289474
Amount Units: ug/ml

Manual Integration Results

RT: 6.55
Area: 971172
Amount: 57.922209
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 10:47:23
Audit Action: Manually Integrated   Audit Reason: Incomplete Integration

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Lims ID: icis g4
Client ID:

Sample Type: ICIS	Calib Level: 4	
Inject. Date: 20-Feb-2023 19:55:25	ALS Bottle#: 0	Worklist Smp#: 5
Injection Vol: 1.0 ul	Dil. Factor: 1.0000	
Sample Info: 680-0083951-005		
Operator ID:	Instrument ID: CVGG2	
Sublist: chrom-8015_GLY_VGG*sub2		

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI

Last Update: 21-Feb-2023 16:10:35	Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon	
Quant Method: Internal Standard	Quant By: Initial Calibration

Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 : J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host: CTX1609	

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:47:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.086	3.086	0.000	987298	20.0	18.8	
2 4-Hydroxy-4-methyl-2-pentanone						
3.671	3.671	0.000	884438	20.0	17.7	
3 2-Butoxyethanol						
3.996	3.996	0.000	1105242	20.0	18.9	
* **4 n-Heptyl Alcohol**						M
4.479	4.479	0.000	4433879	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.424	5.424	0.000	70167	20.0	18.2	M
6 Propylene glycol						M
6.567	6.567	0.000	329971	20.0	20.5	M
7 Ethylene glycol						M
6.821	6.821	0.000	658843	20.0	20.9	M
8 2-(2-Butoxyethoxy)ethanol						
8.732	8.732	0.000	767132	20.0	18.0	
9 2,2'-Oxybisethanol						
9.729	9.729	0.000	435871	20.0	20.7	
10 Triethylene Glycol						
10.746	10.746	0.000	415601	20.0	20.5	
11 Tetraethylene Glycol						
11.997	11.997	0.000	868911	40.0	40.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent
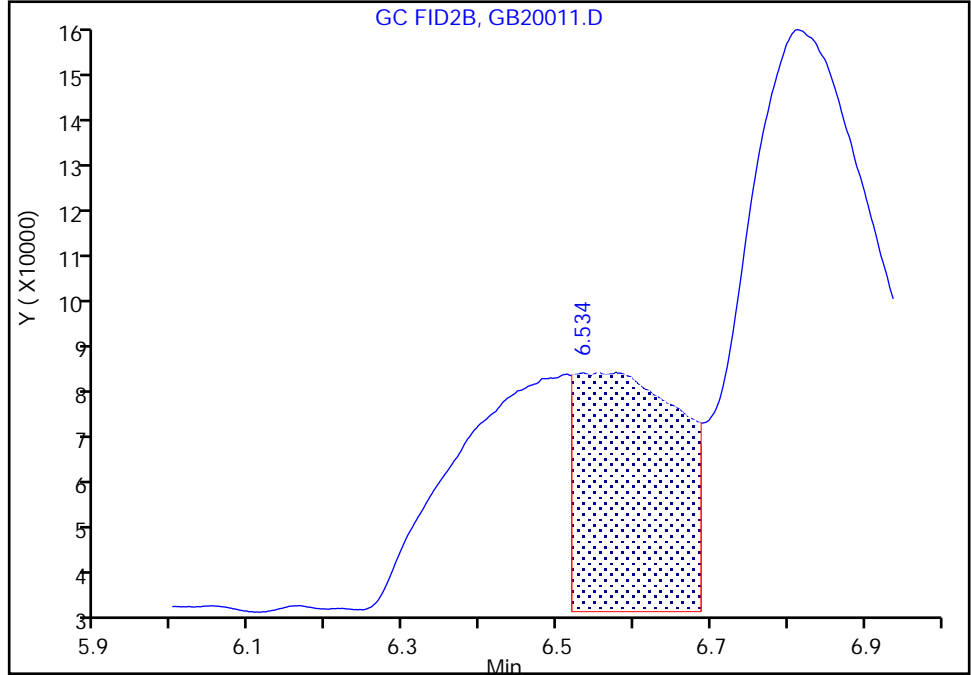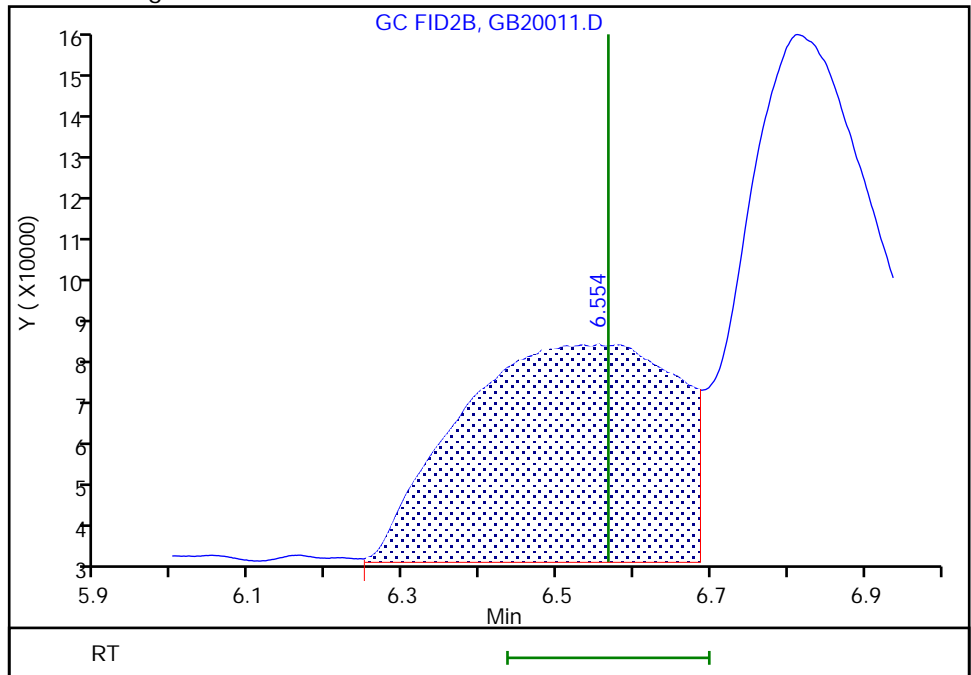
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25   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, GB20012.D

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D

Injection Date:	20-Feb-2023 19:55:25	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

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

Signal: 1

Processing Integration Results
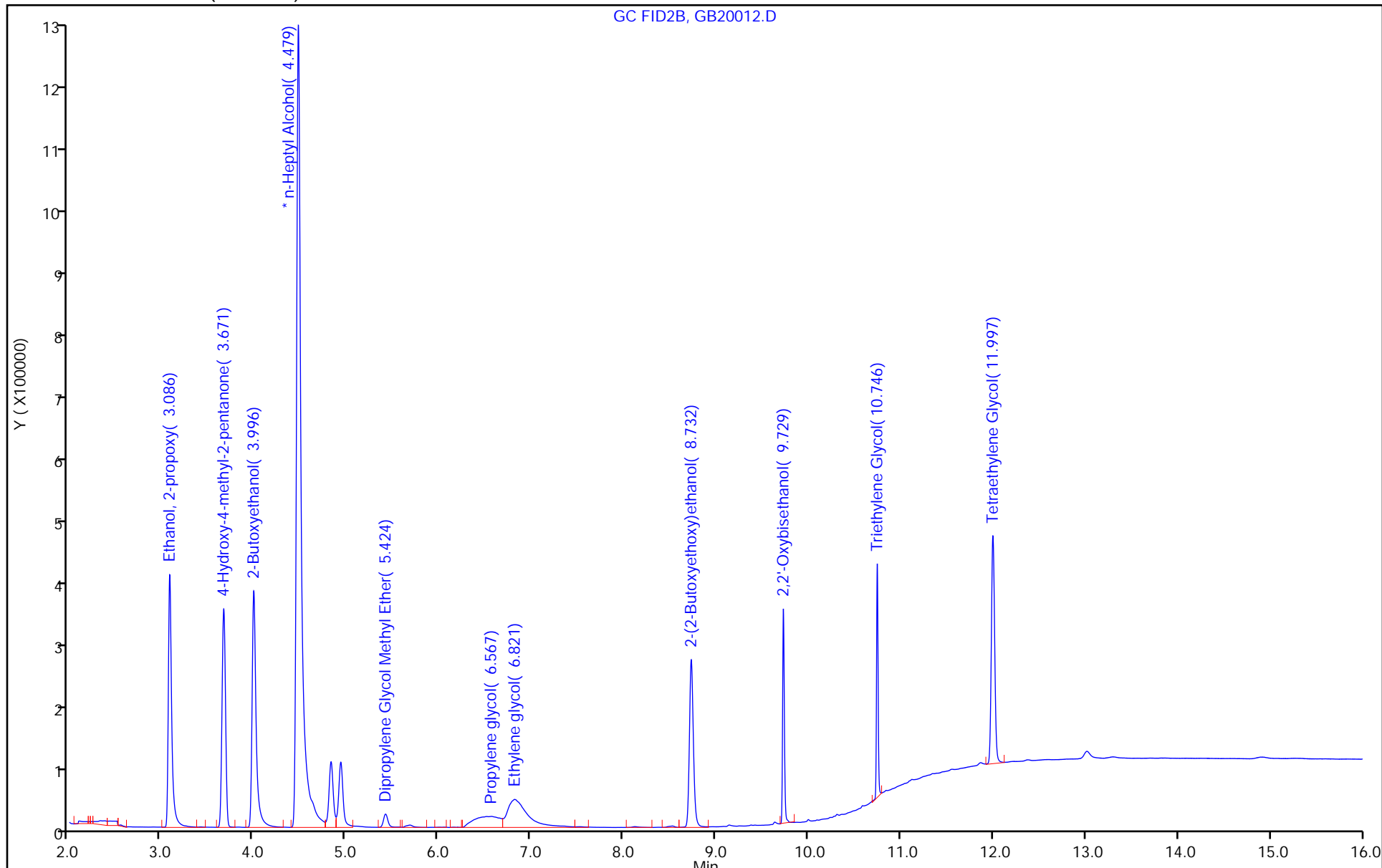
RT:	4.48
Area:	4346575
Amount:	50.000000
Amount Units:	ug/ml

Manual Integration Results

RT:	4.48
Area:	4433879
Amount:	50.000000
Amount Units:	ug/ml

Reviewer: SK9U, 21-Feb-2023 12:28:52

Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

2/22/2023 3:02
PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25   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

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

Processing Integration Results

RT: 5.42
Area: 67426
Amount: 17.099509
Amount Units: ug/ml

Manual Integration Results

RT: 5.42
Area: 70167
Amount: 18.209267
Amount Units: ug/ml
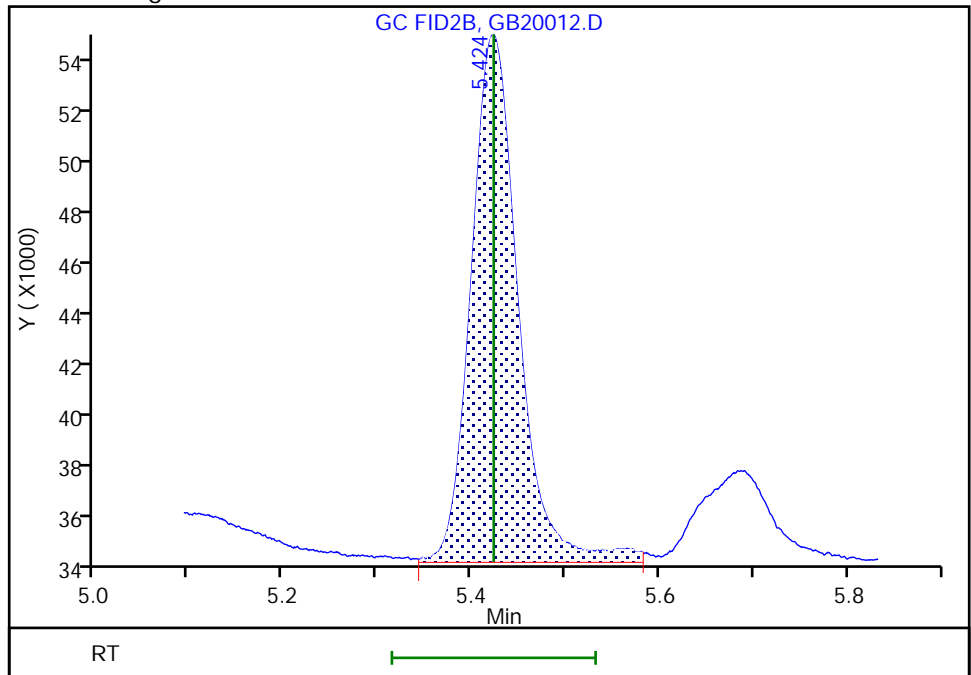
Reviewer: SK9U, 21-Feb-2023 12:28:52
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
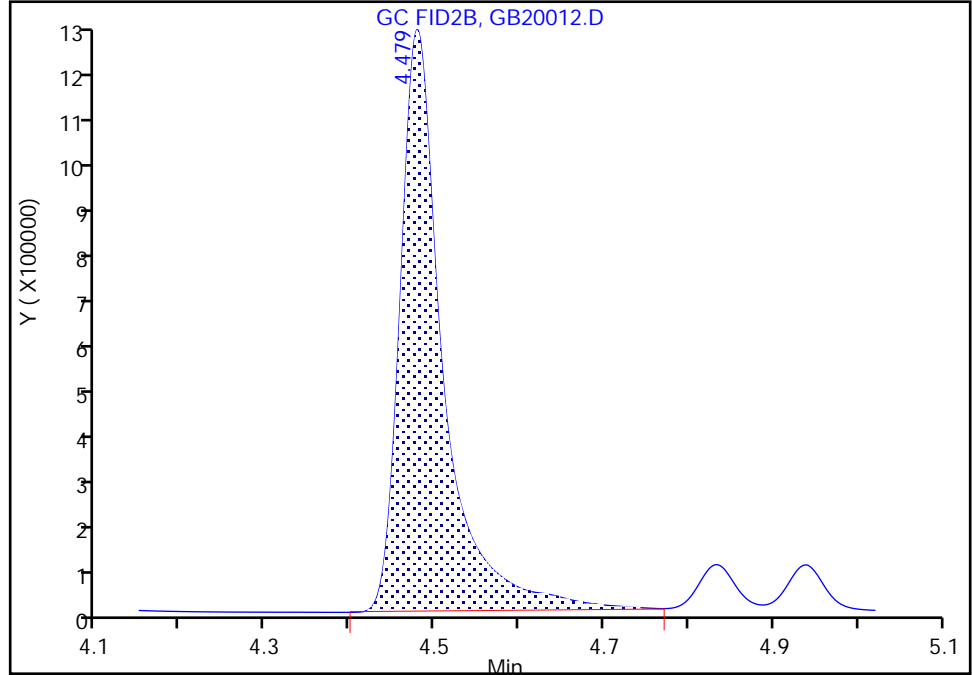
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25   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
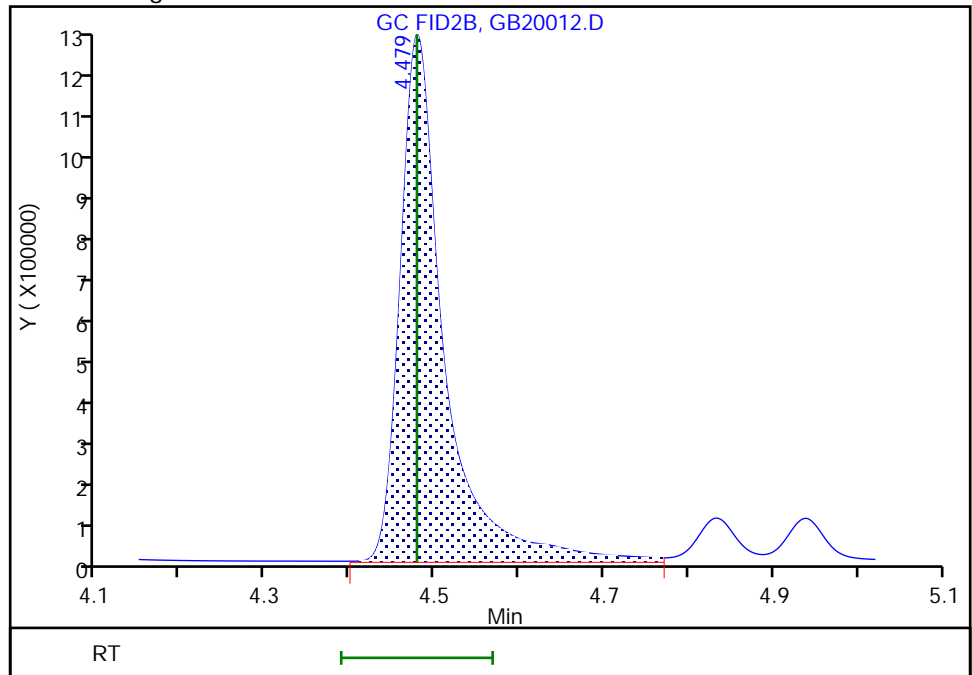Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT: 6.57
Area: 143597
Amount: 10.249228
Amount Units: ug/ml

Manual Integration Results

RT: 6.57
Area: 329971
Amount: 20.515044
Amount Units: ug/ml
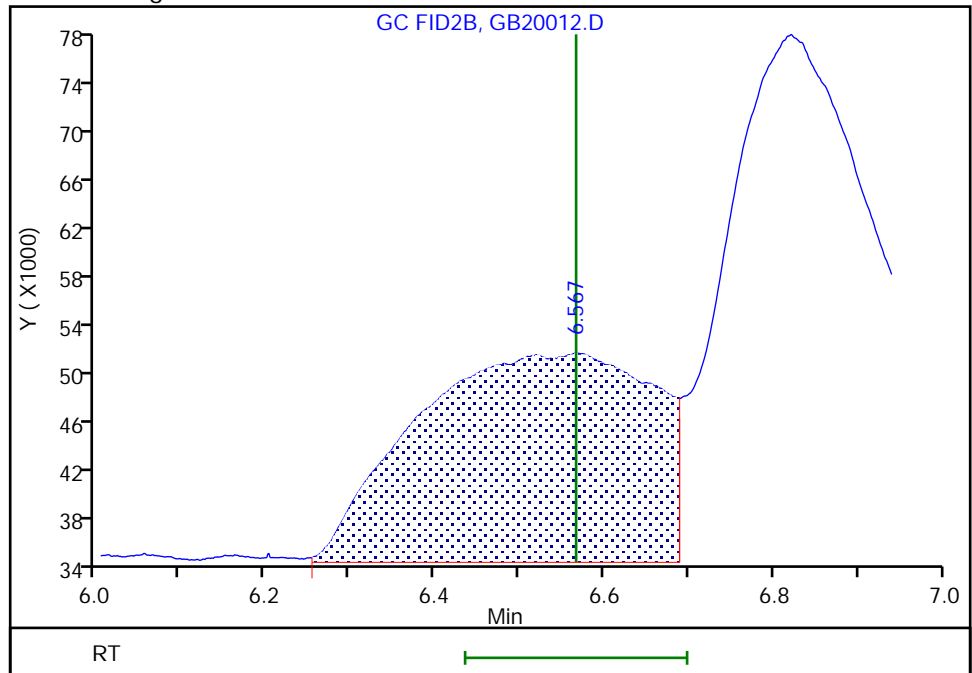
Reviewer: SK9U, 21-Feb-2023 12:41:41
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing
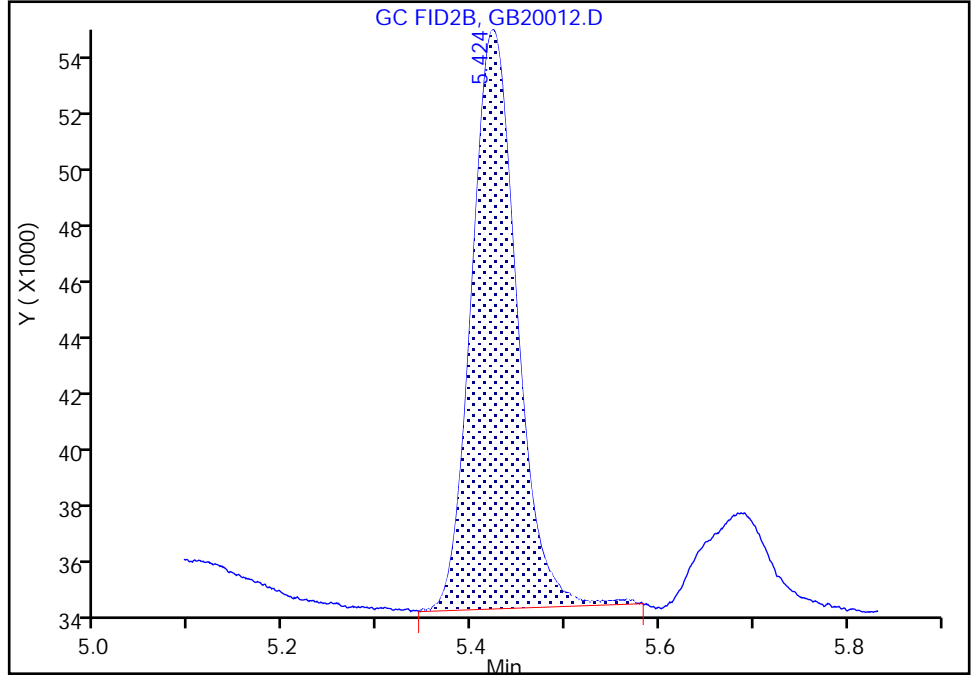
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25   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

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT: 6.82
Area: 640599
Amount: 19.476332
Amount Units: ug/ml

GC FID2B, GB20012.D

Manual Integration Results

RT: 6.82
Area: 658843
Amount: 20.884006
Amount Units: ug/ml
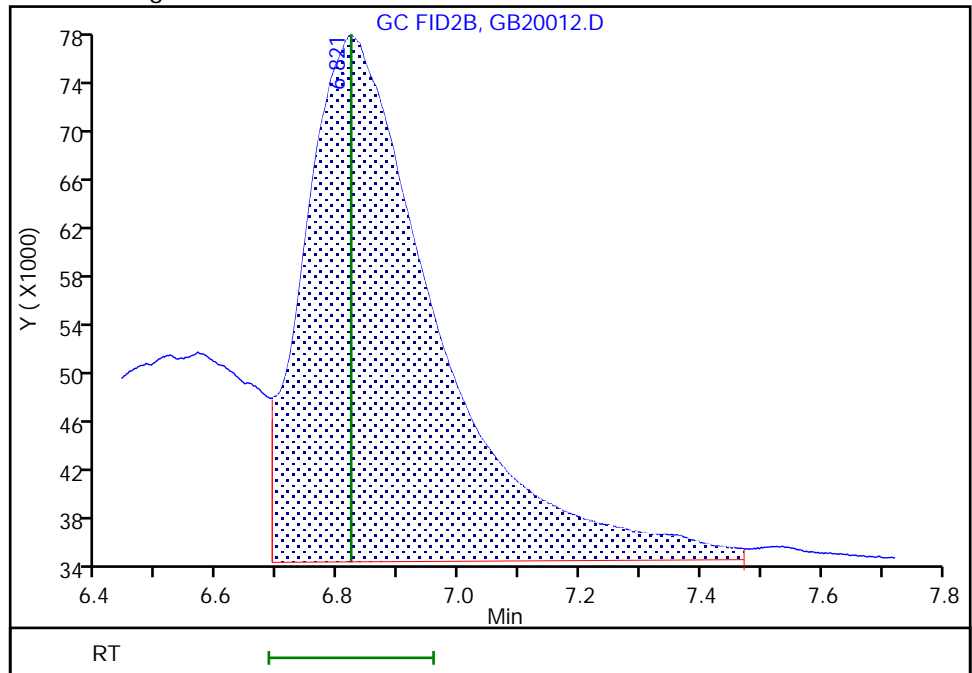
GC FID2B, GB20012.D

Reviewer: SK9U, 21-Feb-2023 12:41:41
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D	
Lims ID:	ic g3	
Client ID:		
Sample Type:	IC	Calib Level: 3
Inject. Date:	20-Feb-2023 20:18:51	ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083951-006	
Operator ID:		Instrument ID: CVGG2
Sublist:	chrom-8015_GLY_VGG*sub2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	21-Feb-2023 16:10:37	Calib Date: 20-Feb-2023 21:05:32
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SK9U   Date: 21-Feb-2023 12:41:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.091	3.086	0.005	667342	10.0	10.6	
2 4-Hydroxy-4-methyl-2-pentanone						
3.676	3.671	0.005	604209	10.0	10.8	
3 2-Butoxyethanol						
3.998	3.996	0.002	749670	10.0	10.8	
* 4 n-Heptyl Alcohol						
4.478	4.479	-0.001	4993540	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.425	5.424	0.001	48699	10.0	10.5	
6 Propylene glycol						M
6.585	6.567	0.018	224460	10.0	11.4	M
7 Ethylene glycol						M
6.816	6.821	-0.005	447498	10.0	11.2	M
8 2-(2-Butoxyethoxy)ethanol						
8.731	8.732	-0.001	549607	10.0	10.6	
9 2,2'-Oxybisethanol						
9.729	9.729	0.000	299924	10.0	11.5	
10 Triethylene Glycol						
10.745	10.746	-0.001	288813	10.0	11.6	
11 Tetraethylene Glycol						
11.998	11.997	0.001	620328	20.0	20.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 5.00   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

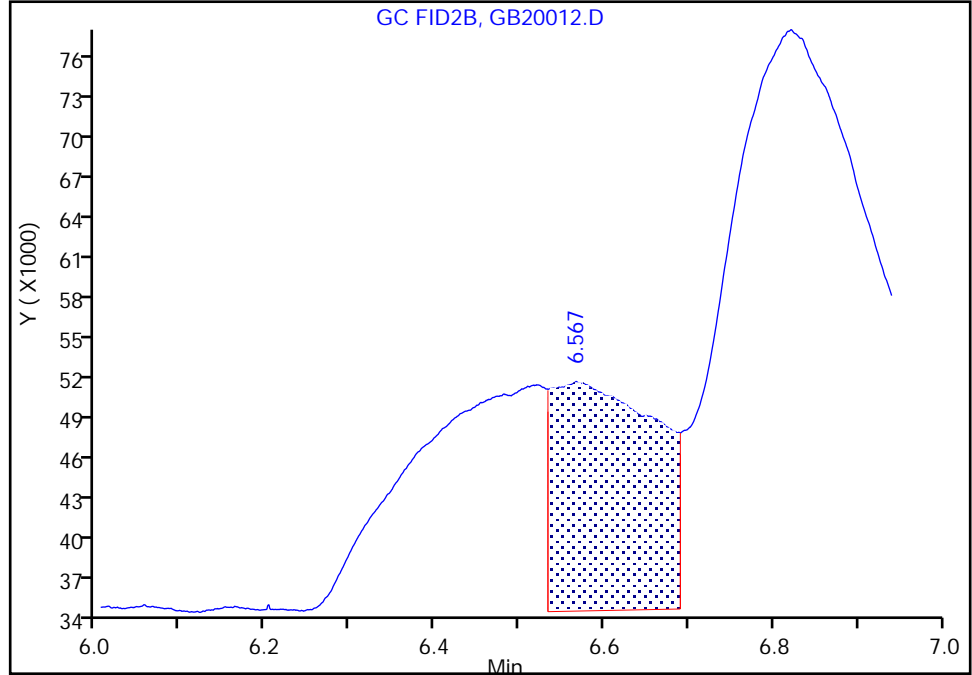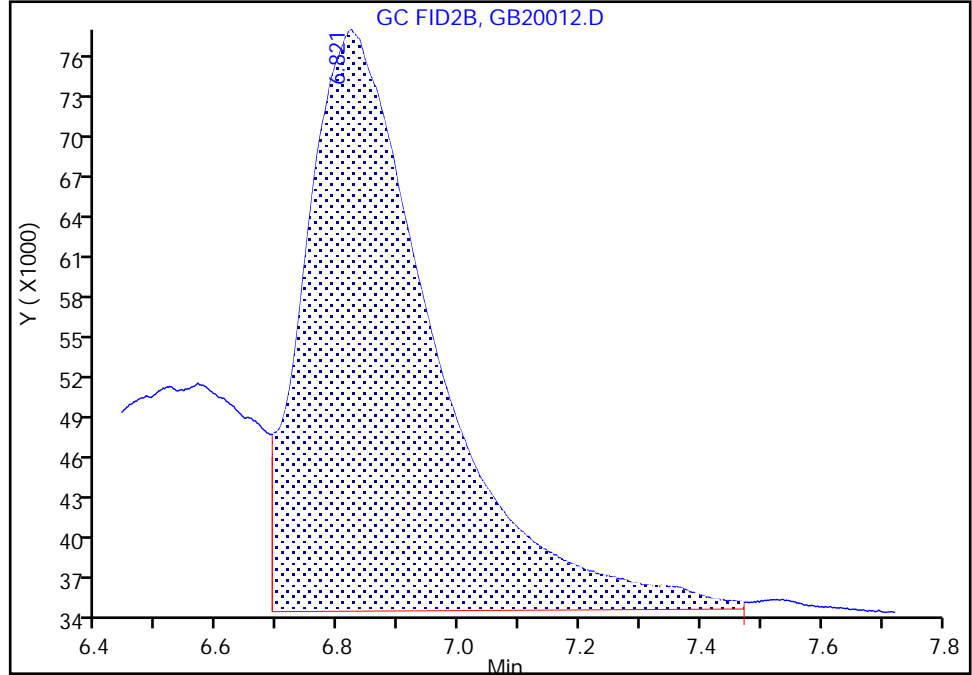Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D
Injection Date: 20-Feb-2023 20:18:51   Instrument ID: CVGG2   Operator ID:
Lims ID: ic g3   Worklist Smp#:   6
Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20013.D
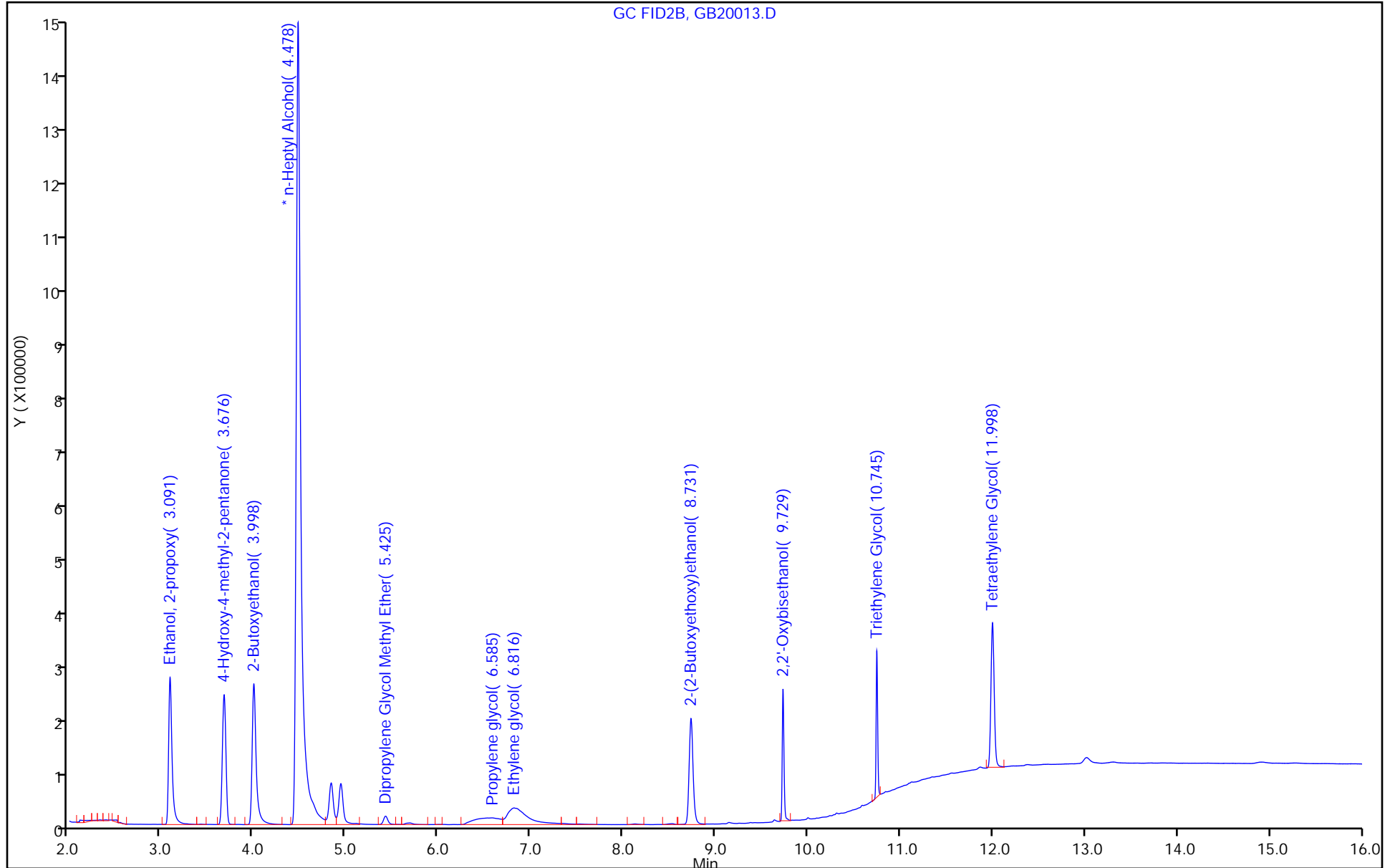
Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D
Injection Date:	20-Feb-2023 20:18:51	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

6 Propylene glycol, CAS: 57-55-6

Signal: 1

RT:	6.53
Area:	224217
Amount:	11.025394
Amount Units:	ug/ml

Processing Integration Results
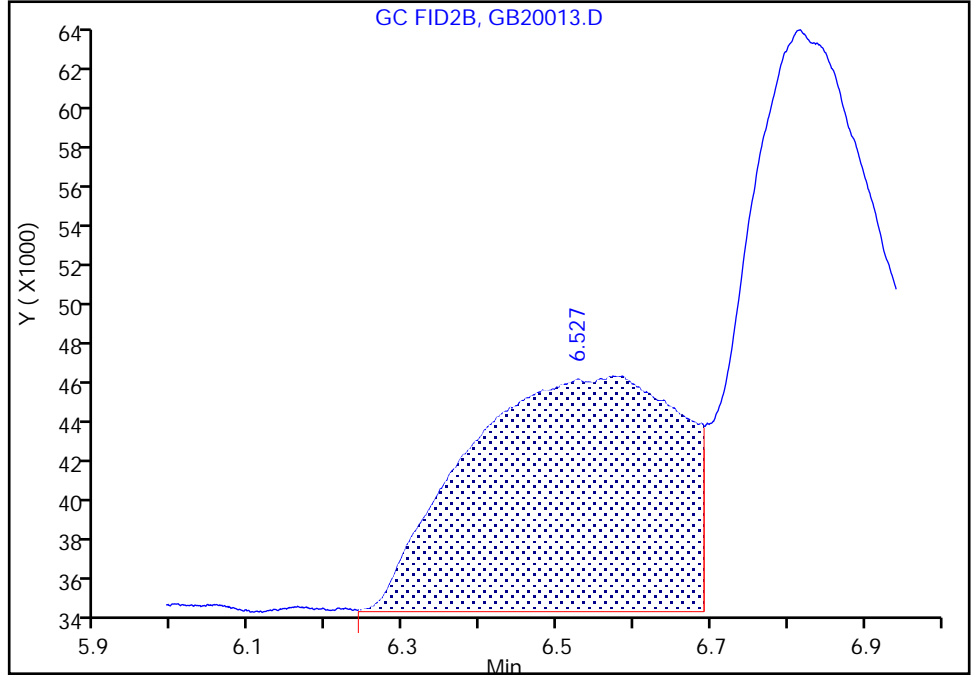
RT:	6.58
Area:	224460
Amount:	11.422236
Amount Units:	ug/ml
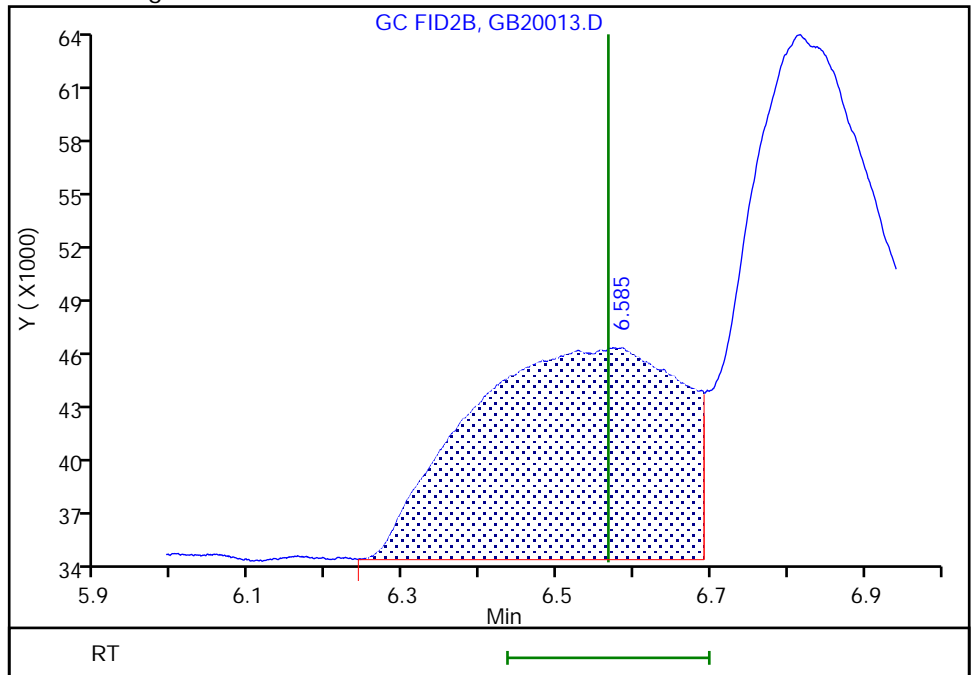
Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:41:17
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D
Injection Date: 20-Feb-2023 20:18:51   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: 6.82
Area: 444847
Amount: 11.156976
Amount Units: ug/ml

Manual Integration Results
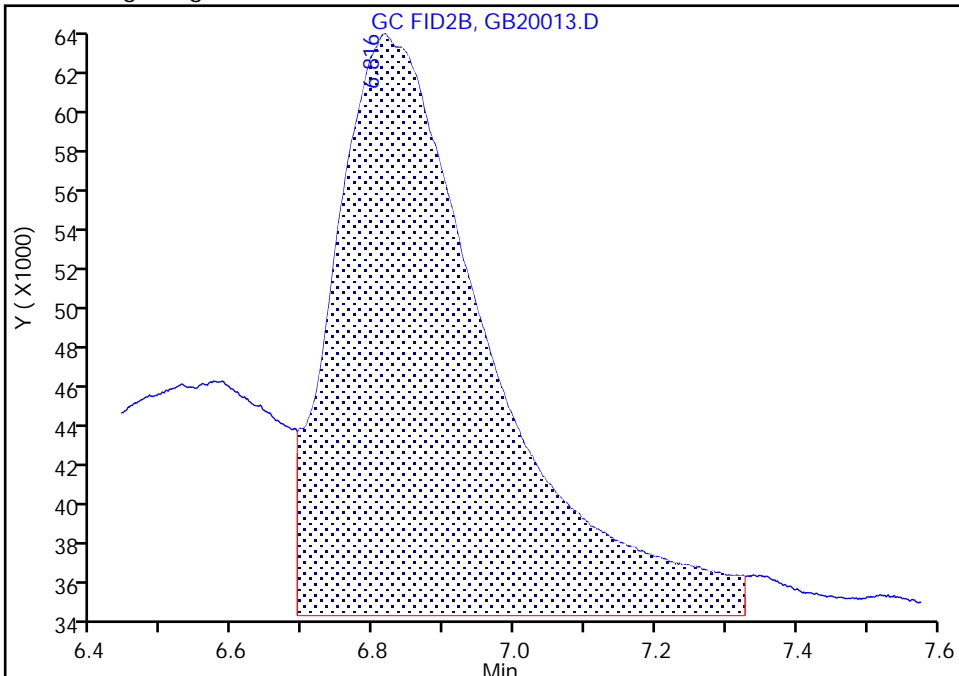
RT: 6.82
Area: 447498
Amount: 11.169331
Amount Units: ug/ml
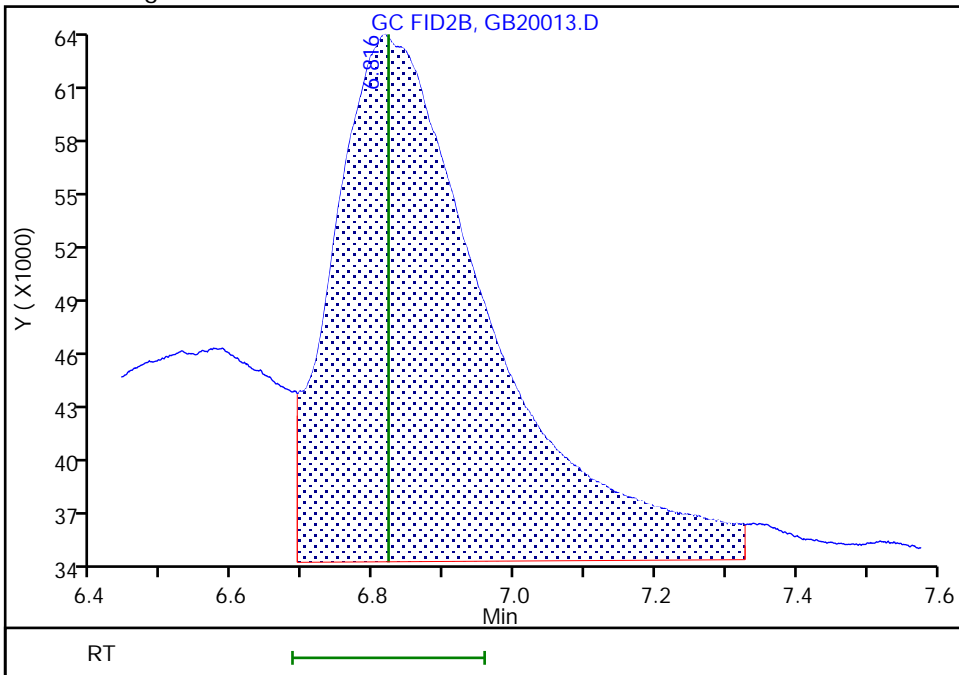
Reviewer: SK9U, 21-Feb-2023 12:41:17
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D
Lims ID: ic g2
Client ID:
Sample Type: IC   Calib Level: 2
Inject. Date: 20-Feb-2023 20:42:11   ALS Bottle#:   0   Worklist Smp#:   7
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-007
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:10:38   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:46:40

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.092	3.086	0.006	367183	5.00	4.90	
2 4-Hydroxy-4-methyl-2-pentanone						
3.680	3.671	0.009	338143	5.00	5.79	
3 2-Butoxyethanol						
4.000	3.996	0.004	411001	5.00	4.94	
* 4 n-Heptyl Alcohol						
4.477	4.479	-0.002	5194297	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.427	5.424	0.003	26885	5.00	4.67	
6 Propylene glycol						M
6.579	6.567	0.012	128630	5.00	5.19	M
7 Ethylene glycol						M
6.839	6.821	0.018	261771	5.00	4.71	M
8 2-(2-Butoxyethoxy)ethanol						
8.733	8.732	0.001	318221	5.00	4.88	
9 2,2'-Oxybisethanol						
9.730	9.729	0.001	175957	5.00	5.10	
10 Triethylene Glycol						
10.746	10.746	0.000	169134	5.00	5.29	
11 Tetraethylene Glycol						
12.000	11.997	0.003	365463	10.0	10.0	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 2.50   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D

|			
Injection Date:	20-Feb-2023 20:42:11	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, GB20014.D

2/22/2023 3:02 PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D
Injection Date: 20-Feb-2023 20:42:11   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

RT: 6.55
Area: 33650
Amount: 2.385603
Amount Units: ug/ml

Processing Integration Results

RT: 6.58
Area: 128630
Amount: 5.193904
Amount Units: ug/ml
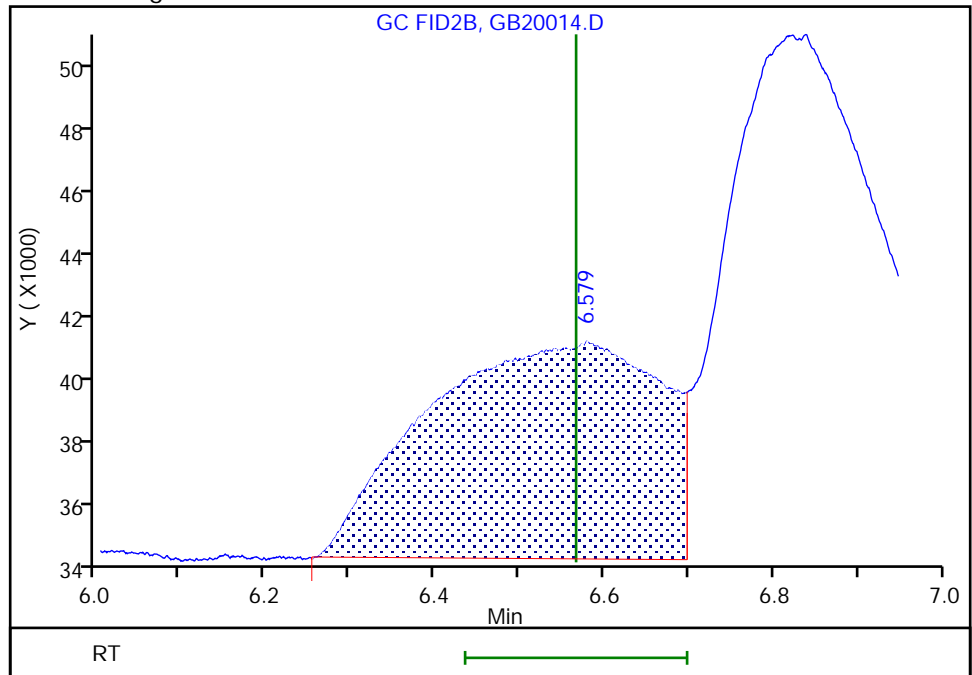
Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:40:56
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D

Injection Date: 20-Feb-2023 20:42:11   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: 6.82
Area: 38097
Amount: 1.007288
Amount Units: ug/ml

Manual Integration Results

RT: 6.84
Area: 261771
Amount: 4.709158
Amount Units: ug/ml
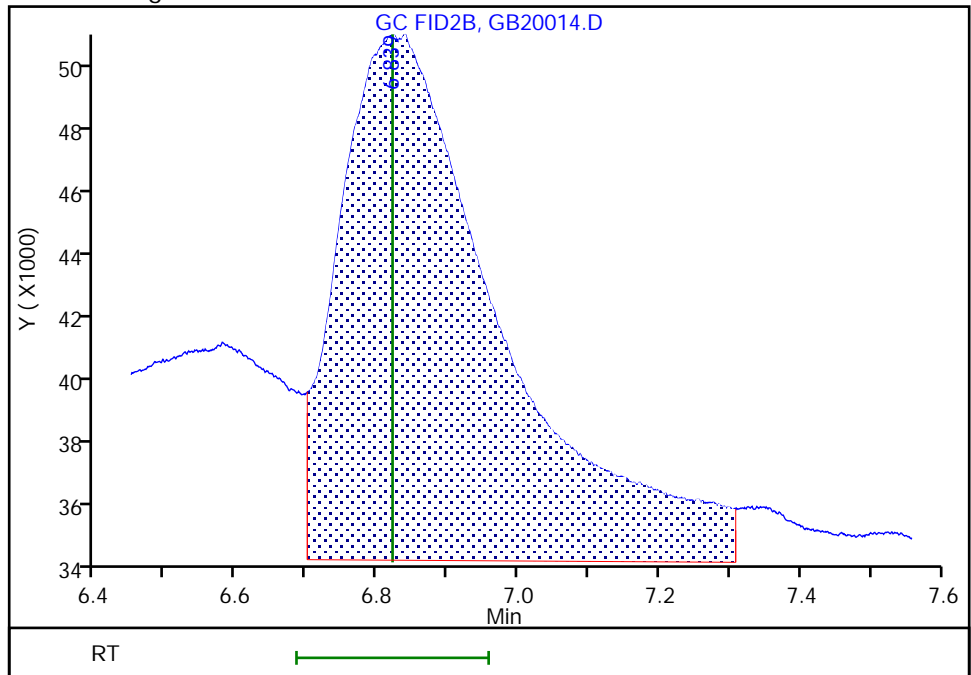
Reviewer: SK9U, 21-Feb-2023 12:40:56
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Lims ID: ic g1
Client ID:

Sample Type:	IC	Calib Level:	1
Inject. Date:	20-Feb-2023 21:05:32	ALS Bottle#:	0 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Sample Info:	680-0083951-008		
Operator ID:		Instrument ID:	CVGG2
Sublist:	chrom-8015_GLY_VGG*sub2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:10:39	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B	
Process Host:	CTX1609		

First Level Reviewer: SK9U   Date: 21-Feb-2023 10:46:11

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.097	3.086	0.011	200428	2.00	2.00	
2 4-Hydroxy-4-methyl-2-pentanone						
3.688	3.671	0.017	198771	2.00	3.44	
3 2-Butoxyethanol						
4.001	3.996	0.005	222427	2.00	1.99	
* 4 n-Heptyl Alcohol						
4.472	4.479	-0.007	5141192	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.432	5.424	0.008	16002	2.00	2.05	
6 Propylene glycol						M
6.585	6.567	0.018	68115	2.00	1.64	M
7 Ethylene glycol						M
6.825	6.821	0.004	142337	2.00	0.9684	M
8 2-(2-Butoxyethoxy)ethanol						
8.734	8.732	0.002	189426	2.00	2.01	
9 2,2'-Oxybisethanol						
9.730	9.729	0.001	83271	2.00	0.8103	
10 Triethylene Glycol						
10.746	10.746	0.000	75541	2.00	0.8417	
11 Tetraethylene Glycol						
12.001	11.997	0.004	163648	4.00	3.99	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046   Amount Added: 1.00   Units: uL

SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Injection Date: 20-Feb-2023 21:05:32   Instrument ID: CVGG2   Operator ID:
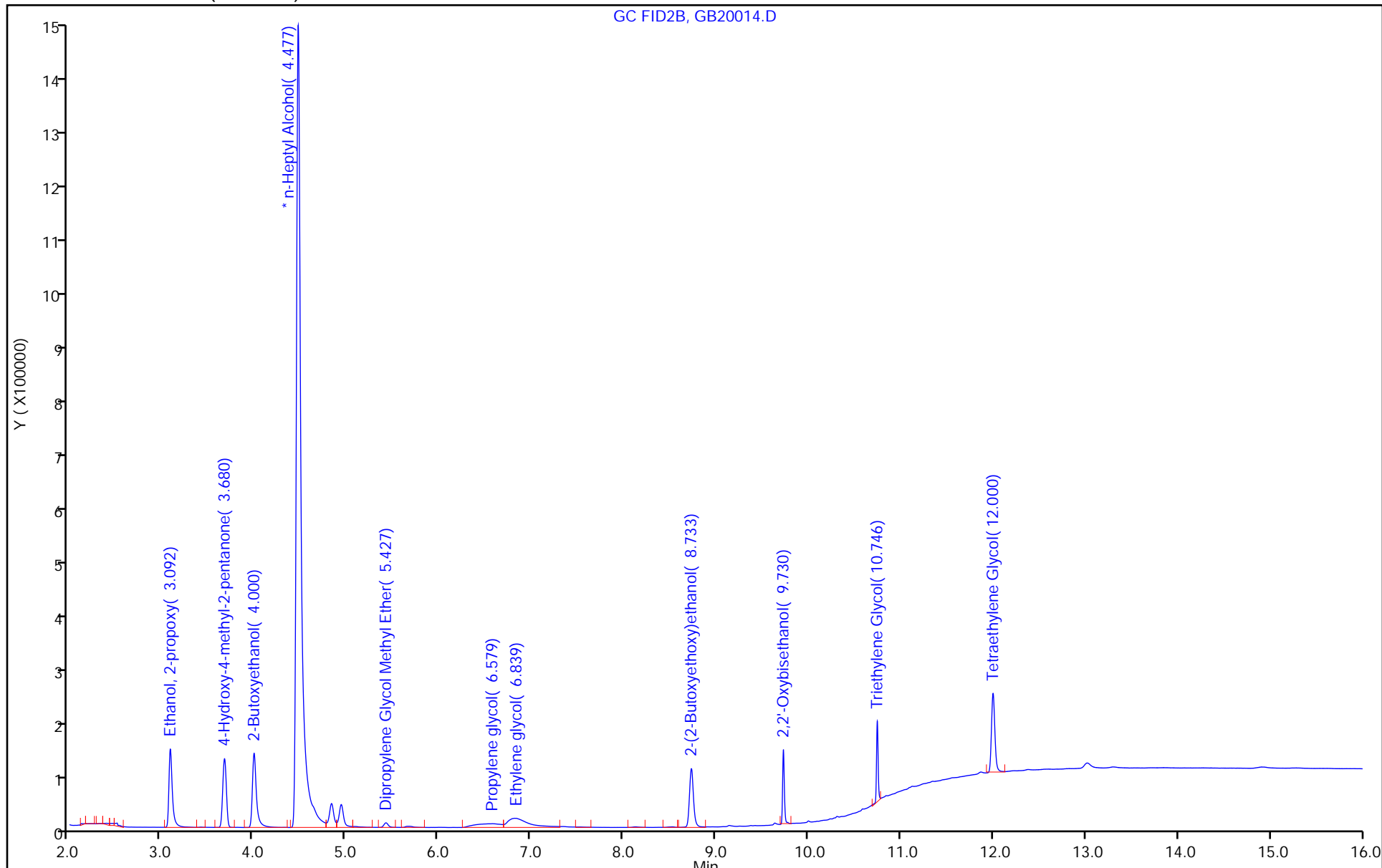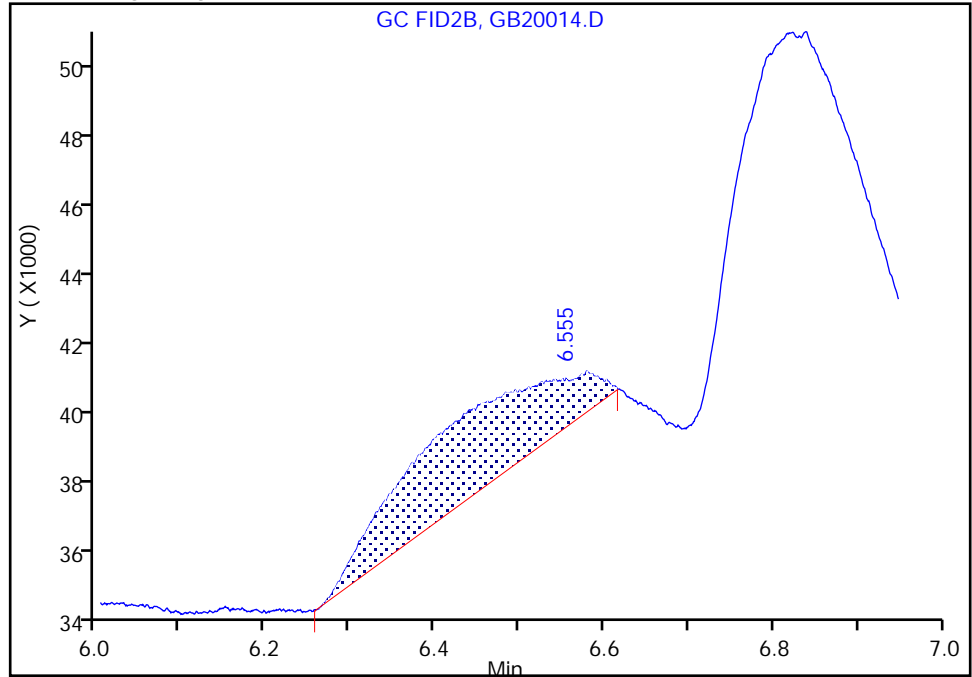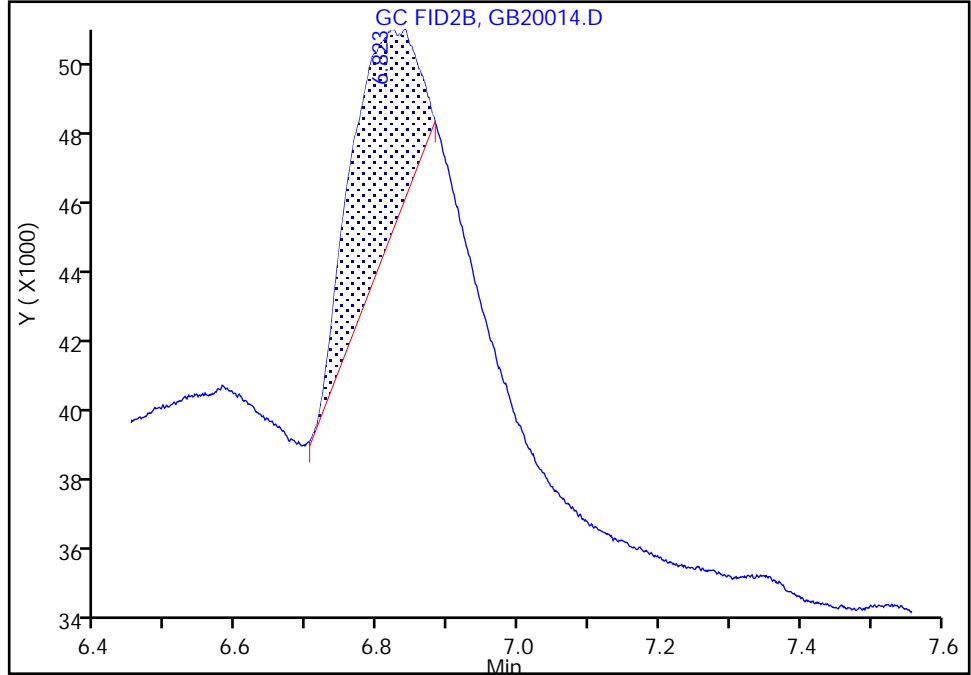Lims ID: ic g1   Worklist Smp#:   8
Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20015.D

2/22/2023 3:02 PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Injection Date: 20-Feb-2023 21:05:32   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

Processing Integration Results
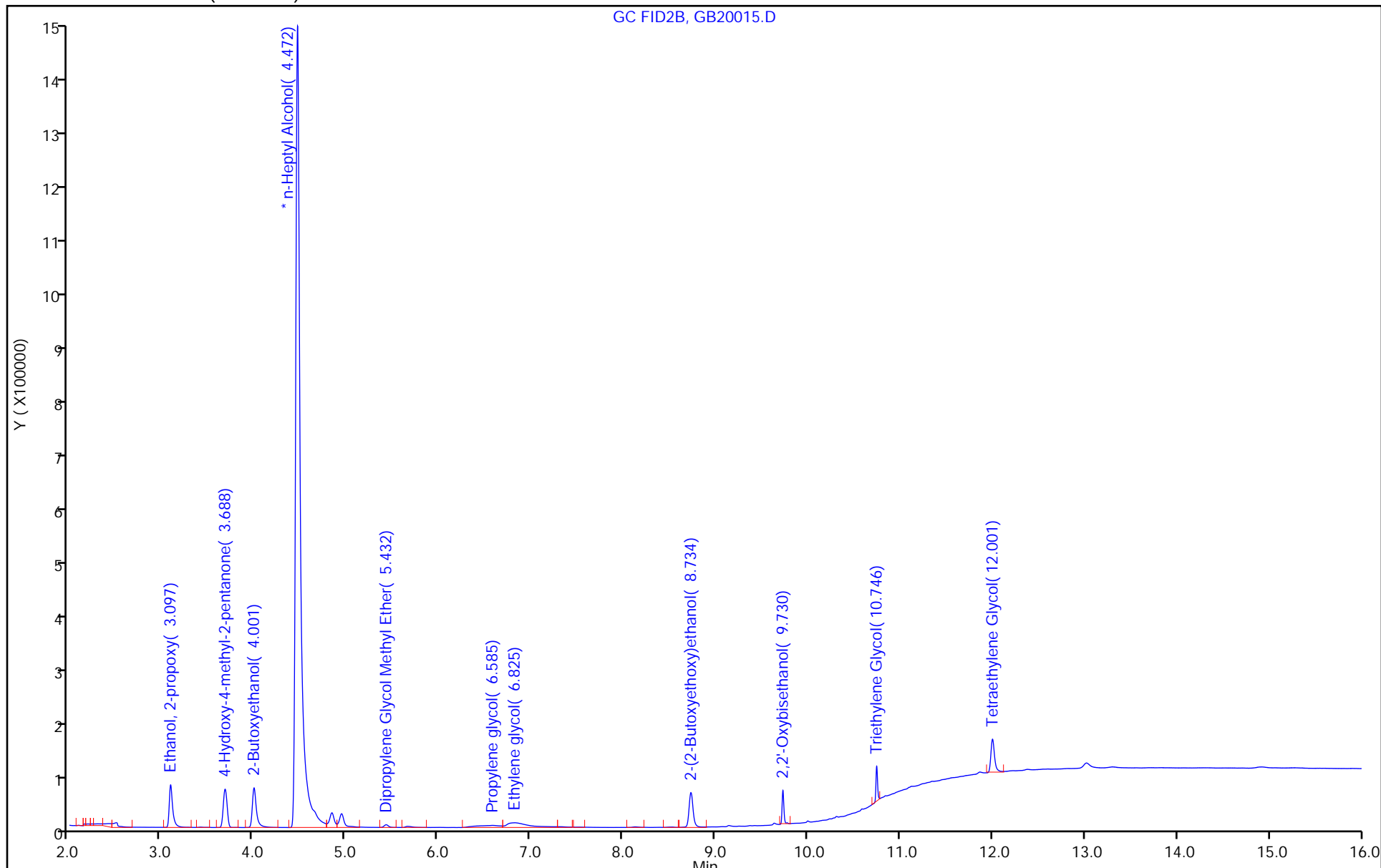
RT: 6.58
Area: 40609
Amount: 3.345661
Amount Units: ug/ml

Manual Integration Results
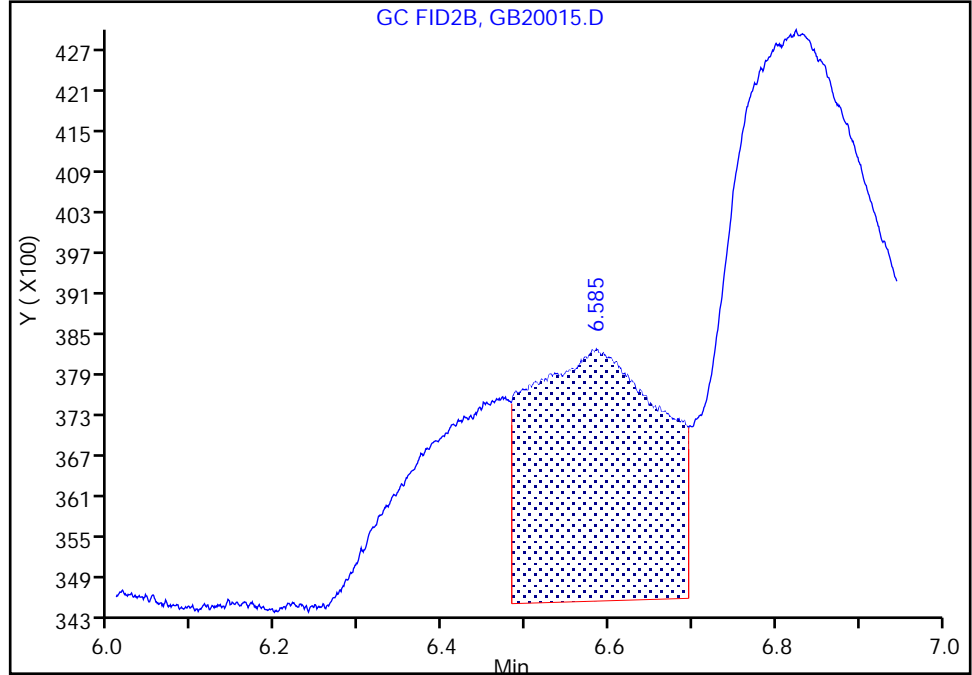
RT: 6.58
Area: 68115
Amount: 1.641105
Amount Units: ug/ml

Reviewer: SK9U, 21-Feb-2023 12:40:39
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Injection Date:	20-Feb-2023 21:05:32
Lims ID:	ic g1
Client ID:	
Operator ID:	
Injection Vol:	1.0 ul
Method:	8015_GLY_VGG
Column:	J&W DB WAX (0.45 mm)

Instrument ID:	CVGG2
ALS Bottle#:	0 Worklist Smp#: 8
Dil. Factor:	1.0000
Limit Group:	8015C_DAI
Detector	GC FID2B

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

Processing Integration Results

RT: 6.82
Area: 132810
Amount: 1.923392
Amount Units: ug/ml

Manual Integration Results
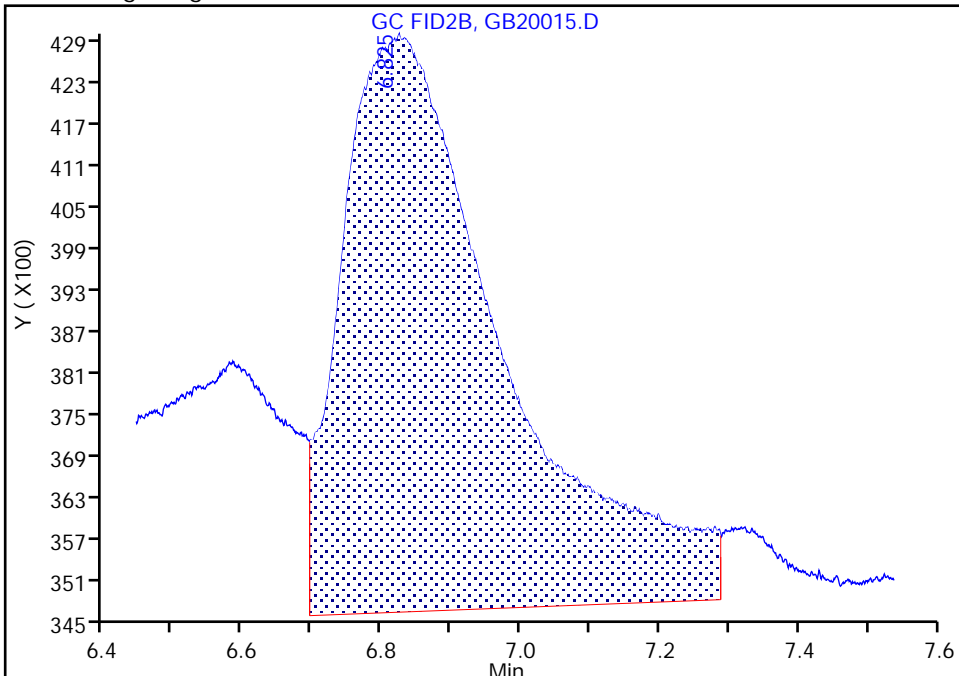
RT: 6.82
Area: 142337
Amount: 0.968367
Amount Units: ug/ml
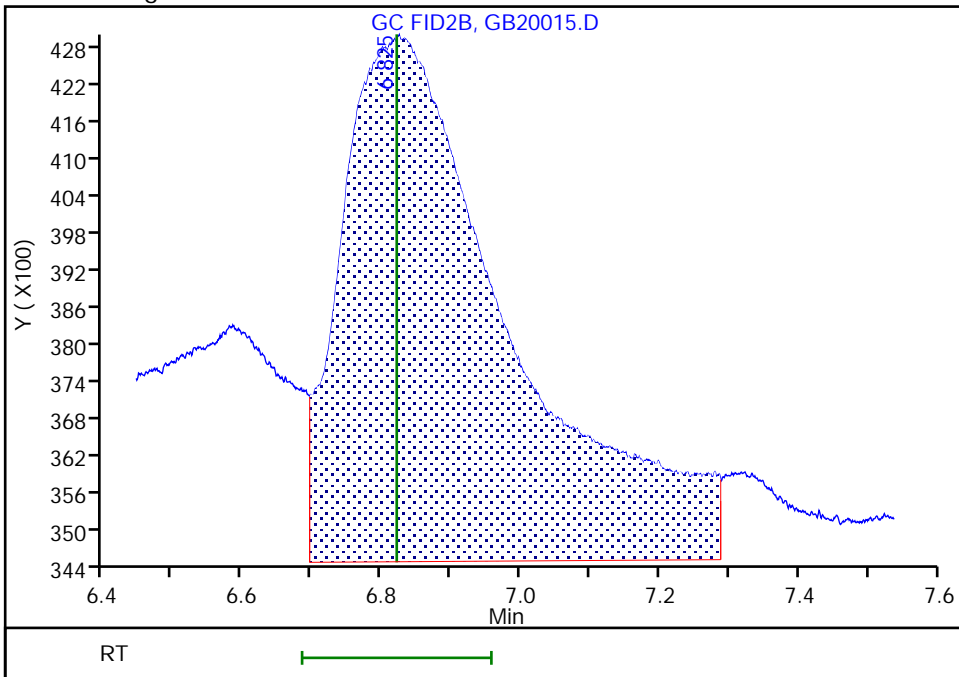
Reviewer: SK9U, 21-Feb-2023 12:40:39
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

```
                              FORM VII
                GC SEMI VOA CONTINUING CALIBRATION DATA
```

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: ICV 680-764187/9   Calibration Date: 02/20/2023 21:28

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20016.D   Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.6913		23.7	20.0	18.4	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5620	0.6669		23.7	20.0	18.7	20.0
2-Butoxyethanol	Lin2		0.7746		23.9	20.0	19.6	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0502		23.6	20.0	18.2	20.0
Propylene glycol	Lin1		0.1471		15.7	20.0	-21.5*	20.0
Ethylene glycol	Lin		0.2785		14.8	20.0	-26.2*	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5376		23.0	20.0	14.9	20.0
2,2'-Oxybisethanol	Lin		0.1635		12.7	20.0	-36.3*	20.0
Triethylene Glycol	Lin		0.1633		13.4	20.0	-32.8*	20.0
Tetraethylene Glycol	Qua		0.1682		22.2	40.0	-44.5*	20.0

FORM VII 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: ICV 680-764187/9   Calibration Date: 02/20/2023 21:28

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.09	3.02	3.15
4-Hydroxy-4-methyl-2-pentanone	3.68	3.60	3.74
2-Butoxyethanol	4.00	3.92	4.08
Dipropylene Glycol Methyl Ether	5.43	5.32	5.53
Propylene glycol	6.57	6.44	6.70
Ethylene glycol	6.82	6.69	6.96
2-(2-Butoxyethoxy)ethanol	8.73	8.56	8.91
2,2'-Oxybisethanol	9.73	9.54	9.92
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\20230220-83951.b\GB20016.D
Lims ID: icv gly
Client ID:
Sample Type: CCV
Inject. Date: 20-Feb-2023 21:28:59   ALS Bottle#:   0   Worklist Smp#:   9
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-009
Operator ID: Instrument ID: CVGG2
Sublist: chrom-8015_GLY_VGG*sub2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:22:48   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 12:32:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.094	3.086	0.008	1118366	20.0	23.7	
2 4-Hydroxy-4-methyl-2-pentanone						
3.684	3.671	0.013	1078892	20.0	23.7	
3 2-Butoxyethanol						M
3.999	3.996	0.003	1253189	20.0	23.9	M
* 4 n-Heptyl Alcohol						M
4.474	4.479	-0.005	4044707	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether						M
5.429	5.424	0.005	81271	20.0	23.6	M
6 Propylene glycol						M
6.565	6.567	-0.002	237983	20.0	15.7	M
7 Ethylene glycol						M
6.820	6.821	-0.001	450581	20.0	14.8	M
8 2-(2-Butoxyethoxy)ethanol						
8.734	8.732	0.002	869751	20.0	23.0	
9 2,2'-Oxybisethanol						
9.729	9.729	0.000	264501	20.0	12.7	
10 Triethylene Glycol						
10.746	10.746	0.000	264253	20.0	13.4	
11 Tetraethylene Glycol						
11.999	11.997	0.002	544321	40.0	22.2	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_GlyICV_00051   Amount Added: 10.00   Units: uL
SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D				
Injection Date:	20-Feb-2023 21:28:59	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, GB20016.D

2/22/2023 3:02
PM

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector GC FID2B

* 4 n-Heptyl Alcohol, CAS: 111-70-6
Signal: 1
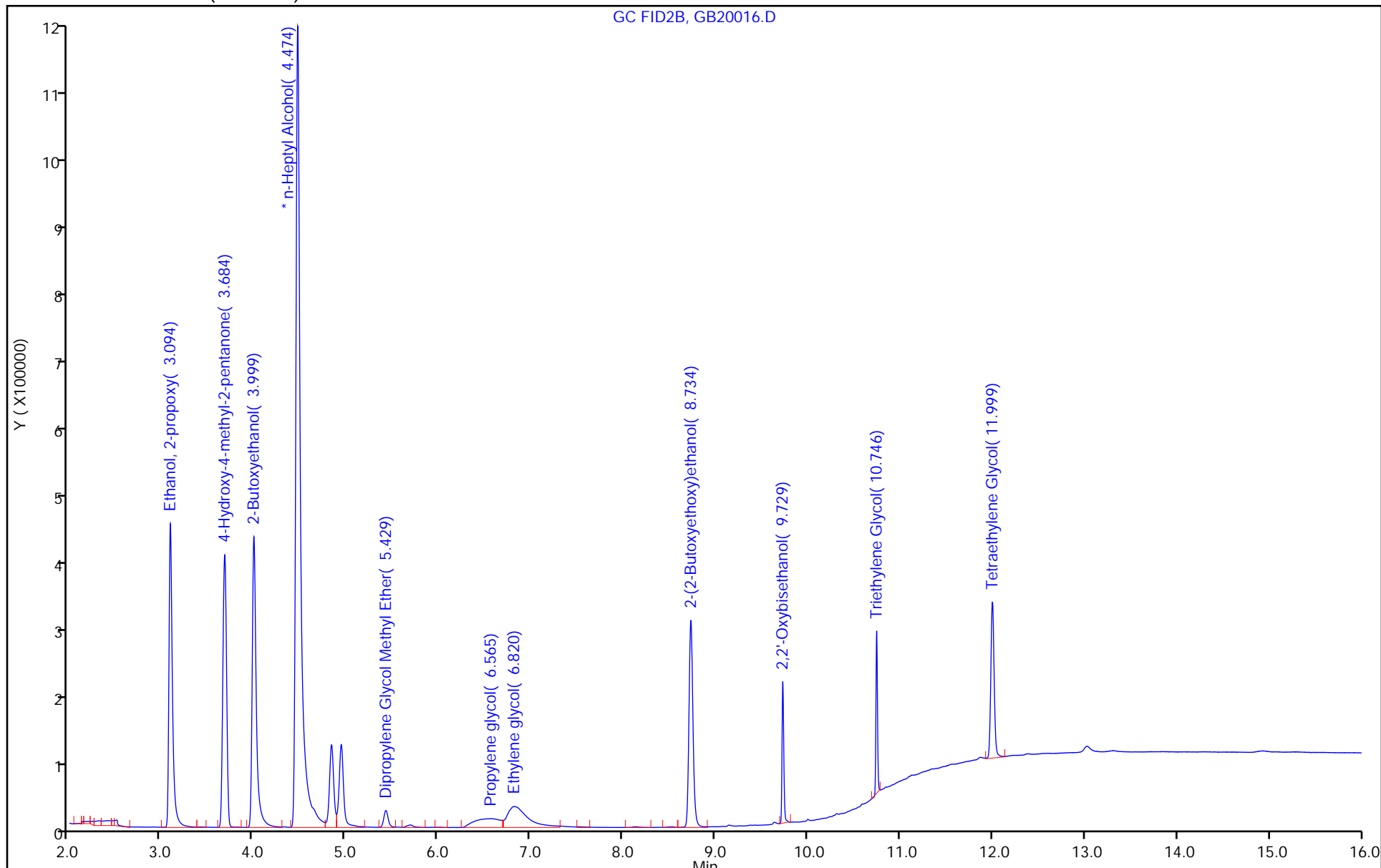
RT: 4.47
Area: 3970146
Amount: 50.000000
Amount Units: ug/ml
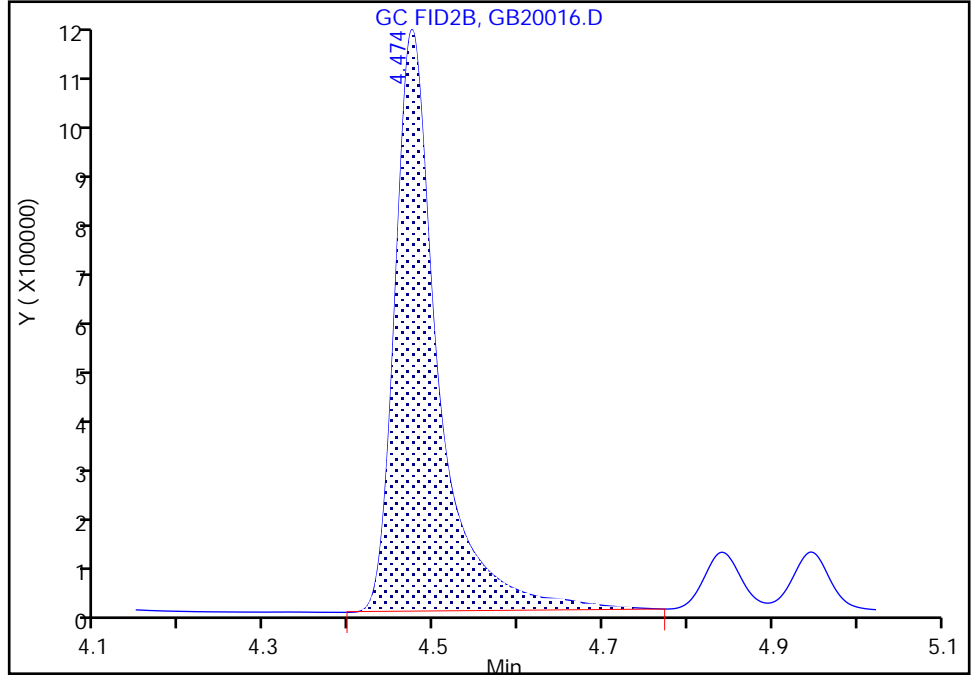
Processing Integration Results

RT: 4.47
Area: 4044707
Amount: 50.000000
Amount Units: ug/ml
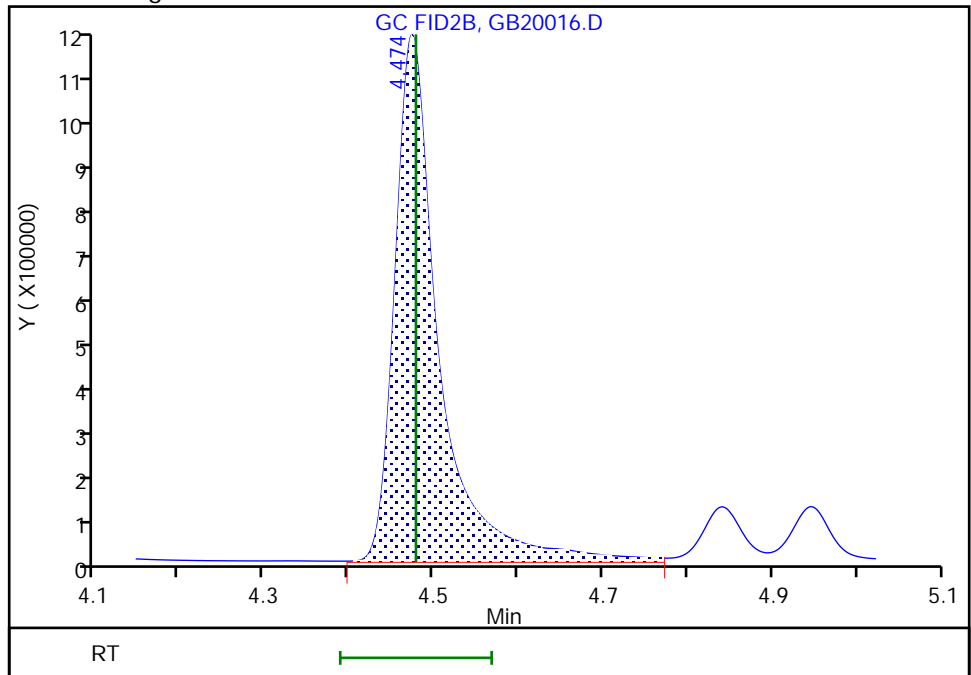
Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:30:59
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59   Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   9
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

3 2-Butoxyethanol, CAS: 111-76-2
Signal: 1

RT: 4.00
Area: 1246606
Amount: 23.824066
Amount Units: ug/ml

Processing Integration Results
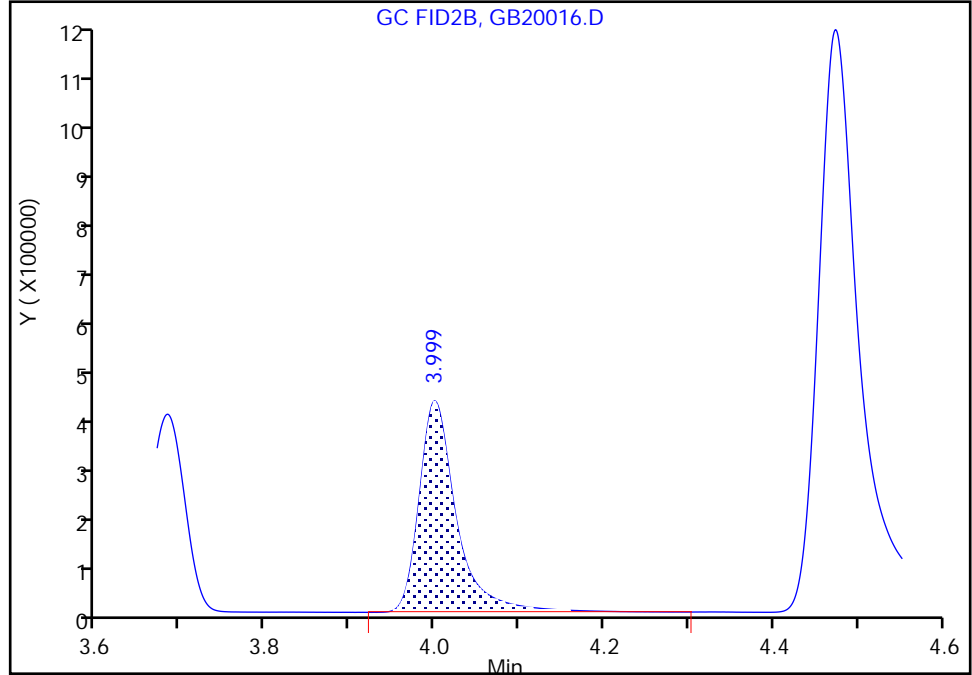
RT: 4.00
Area: 1253189
Amount: 23.920944
Amount Units: ug/ml
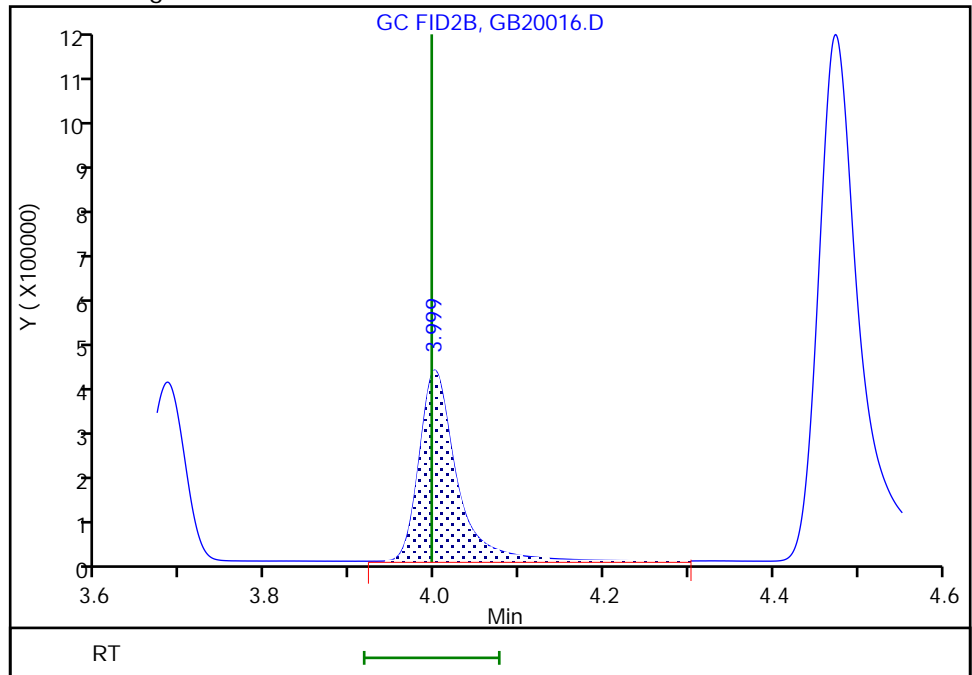
Manual Integration Results

Reviewer: SK9U, 21-Feb-2023 12:30:59
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59   Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   9
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Signal: 1

Processing Integration Results

RT: 5.43
Area: 77119
Amount: 21.767458
Amount Units: ug/ml

Manual Integration Results
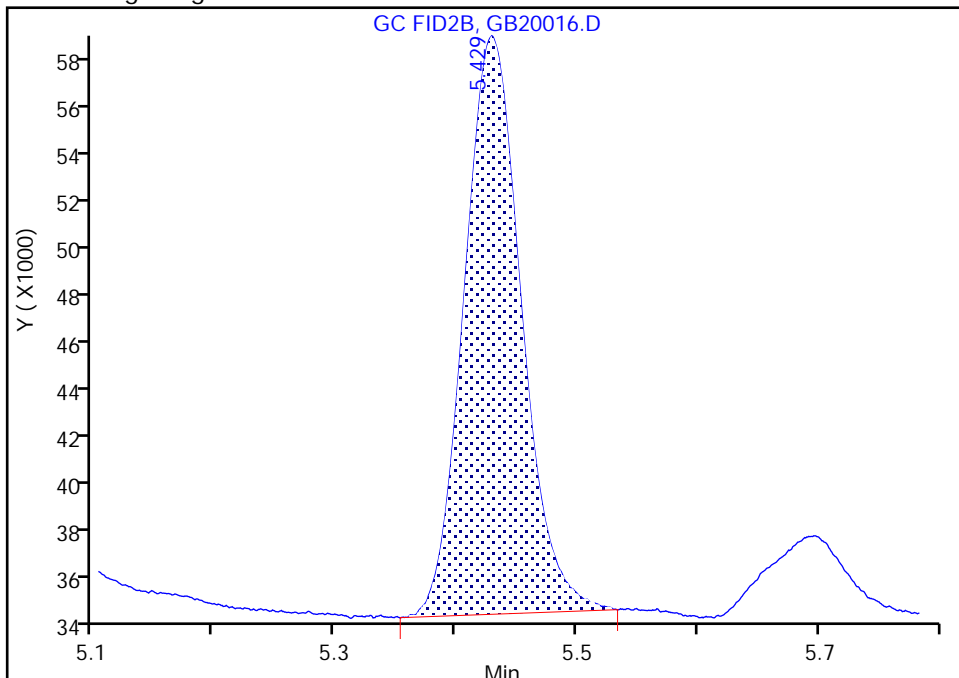
RT: 5.43
Area: 81271
Amount: 23.635416
Amount Units: ug/ml
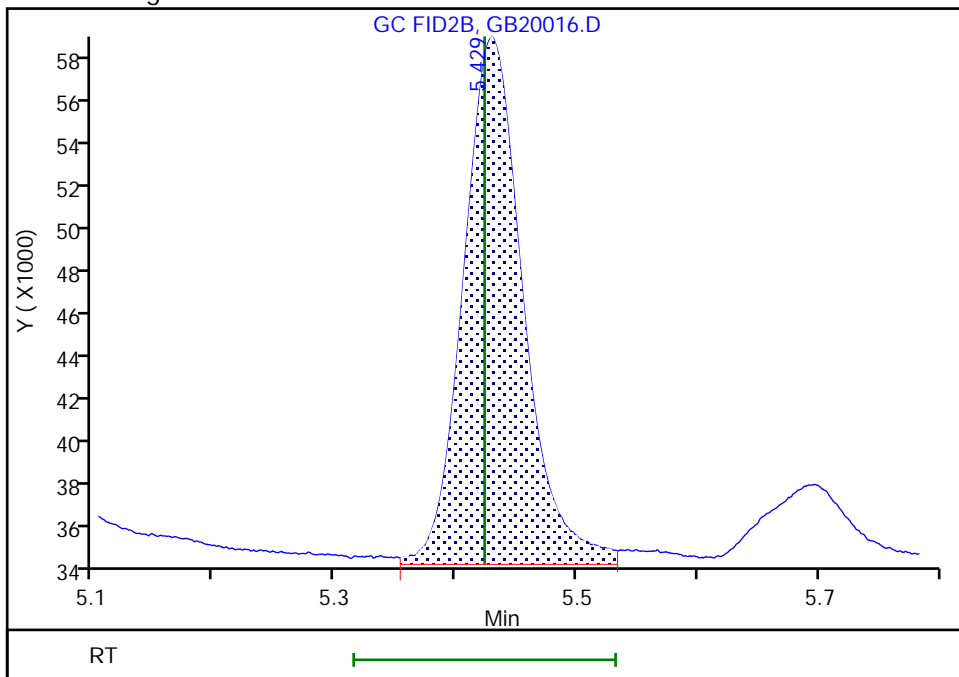
Reviewer: SK9U, 21-Feb-2023 12:30:59
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D

Injection Date:	20-Feb-2023 21:28:59	Instrument ID:	CVGG2
Lims ID:	icv gly		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

Processing Integration Results

RT:	6.57
Area:	102412
Amount:	5.500967
Amount Units:	ug/ml

Manual Integration Results
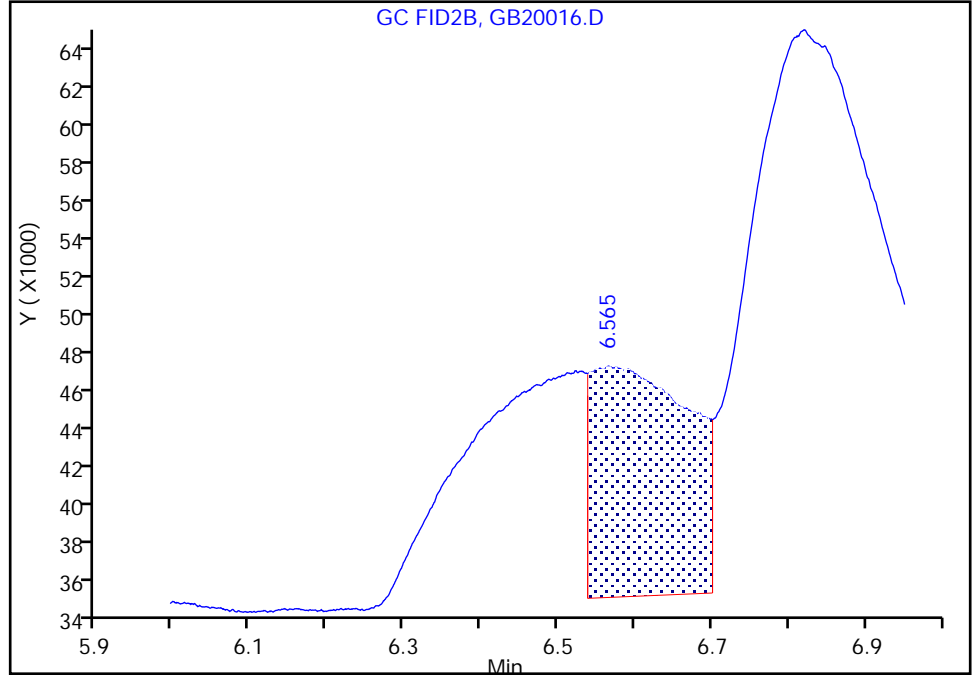
RT:	6.57
Area:	237983
Amount:	15.707274
Amount Units:	ug/ml
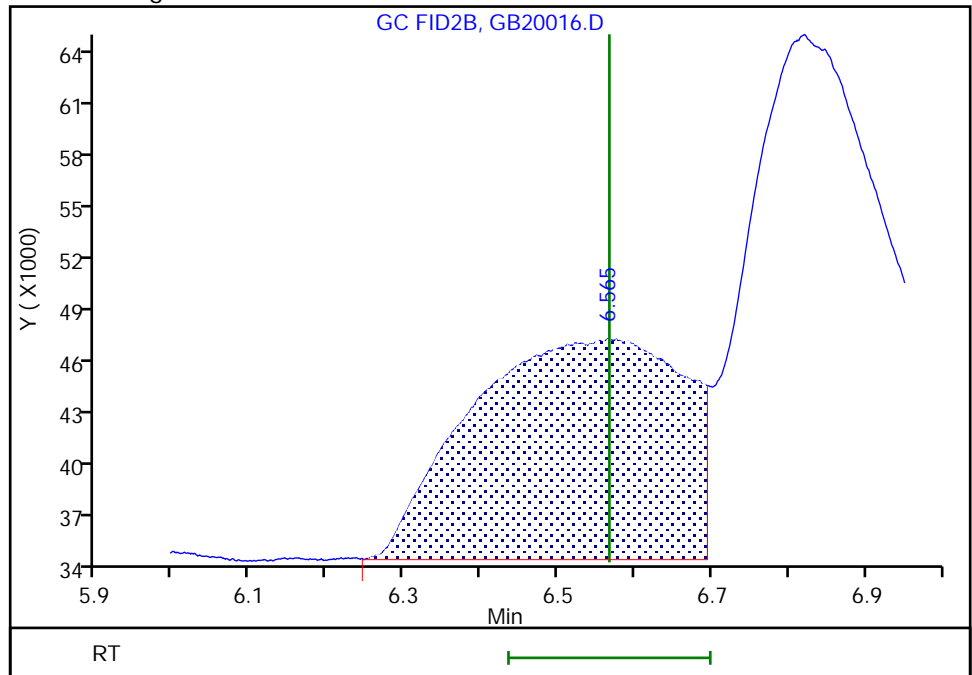
Reviewer: SK9U, 21-Feb-2023 12:31:21
Audit Action: Manually Integrated   Audit Reason: Baseline Smoothing

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date:	20-Feb-2023 21:28:59

Lims ID:	icv gly	Instrument ID:	CVGG2
Client ID:			
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI
Column:	J&W DB WAX (0.45 mm)	Detector	GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

Processing Integration Results

RT:	6.82
Area:	398497
Amount:	12.794840
Amount Units:	ug/ml

Manual Integration Results
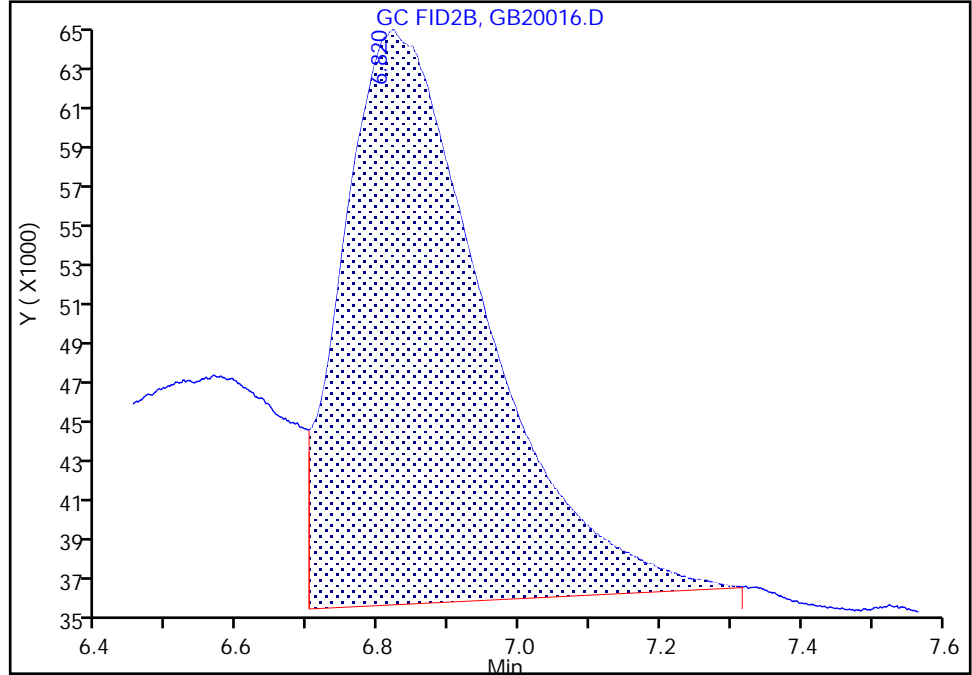
RT:	6.82
Area:	450581
Amount:	14.757681
Amount Units:	ug/ml
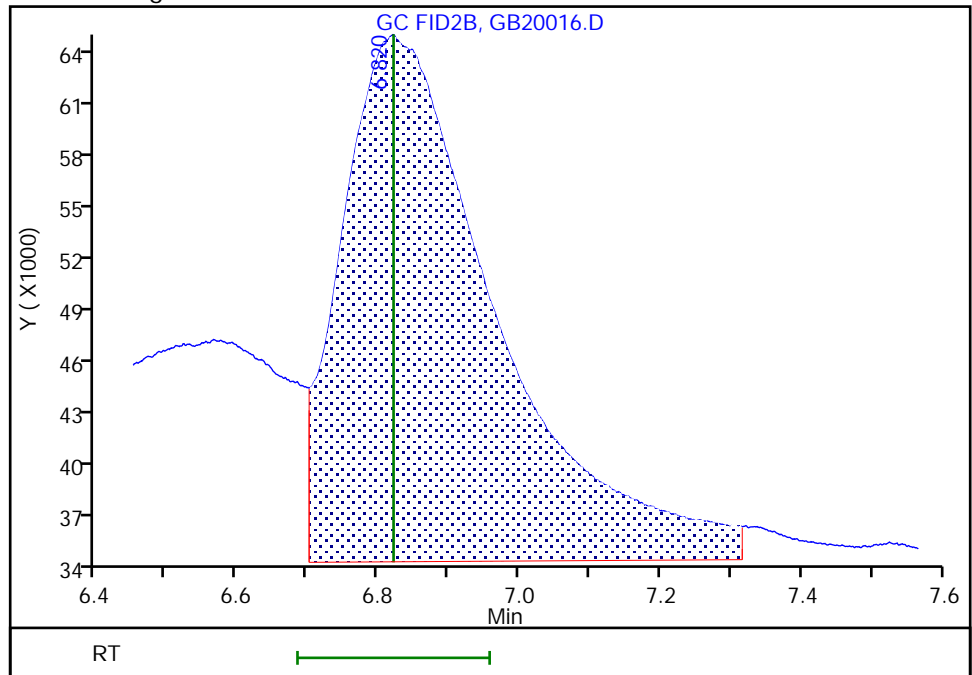
Reviewer: SK9U, 21-Feb-2023 12:31:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

2/22/2023 3:02 PM

```
                              FORM VII
                 GC SEMI VOA CONTINUING CALIBRATION DATA
```

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: CCV 680-764187/30   Calibration Date: 02/21/2023 05:38

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20037.D   Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.6700		22.9	20.0	14.5	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5620	0.6007		21.4	20.0	6.9	20.0
2-Butoxyethanol	Lin2		0.7287		22.4	20.0	12.1	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0478		22.4	20.0	11.9	20.0
Propylene glycol	Lin1		0.1387		14.7	20.0	-26.7*	20.0
Ethylene glycol	Lin		0.3067		16.6	20.0	-16.9	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.5377		23.0	20.0	14.9	20.0
2,2'-Oxybisethanol	Lin		0.1502		11.5	20.0	-42.7*	20.0
Triethylene Glycol	Lin		0.1168		8.82	20.0	-55.9*	20.0
Tetraethylene Glycol	Qua		0.0501		5.22	40.0	-86.9*	20.0

FORM VII 8015C GLY

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

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: CCV 680-764187/30   Calibration Date: 02/21/2023 05:38

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20037.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	6.58	6.45	6.71
Ethylene glycol	6.84	6.70	6.98
2-(2-Butoxyethoxy)ethanol	8.73	8.56	8.91
2,2'-Oxybisethanol	9.73	9.54	9.93
Triethylene Glycol	10.75	10.54	10.97
Tetraethylene Glycol	12.02	11.78	12.26

Form VII 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20037.D
Lims ID:	ccv g4
Client ID:	
Sample Type:	CCV

Inject. Date:	21-Feb-2023 05:38:57	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083951-030				
Operator ID:		Instrument ID:	CVGG2		
Sublist:	chrom-8015_GLY_VGG*sub2				

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:57	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B
Process Host:	CTX1609		

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy	3.100	3.100	0.000	1426822	20.0	22.9	
2 4-Hydroxy-4-methyl-2-pentanone	3.688	3.688	0.000	1279331	20.0	21.4	
3 2-Butoxyethanol	4.002	4.002	0.000	1551866	20.0	22.4	
* 4 n-Heptyl Alcohol	4.473	4.473	0.000	5324132	50.0	50.0	
5 Dipropylene Glycol Methyl Ether	5.430	5.430	0.000	101758	20.0	22.4	
6 Propylene glycol	6.579	6.579	0.000	295342	20.0	14.7	
7 Ethylene glycol	6.840	6.840	0.000	653102	20.0	16.6	
8 2-(2-Butoxyethoxy)ethanol	8.731	8.731	0.000	1145186	20.0	23.0	
9 2,2'-Oxybisethanol	9.733	9.733	0.000	319821	20.0	11.5	
10 Triethylene Glycol	10.751	10.751	0.000	248797	20.0	8.82	
11 Tetraethylene Glycol	12.019	12.019	0.000	213293	40.0	5.22	

Reagents:

SG_Gly_CAL_00046	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20037.D
Injection Date: 21-Feb-2023 05:38:57   Instrument ID: CVGG2   Operator ID:
Lims ID: ccv g4   Worklist Smp#:   30
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, GB20037.D
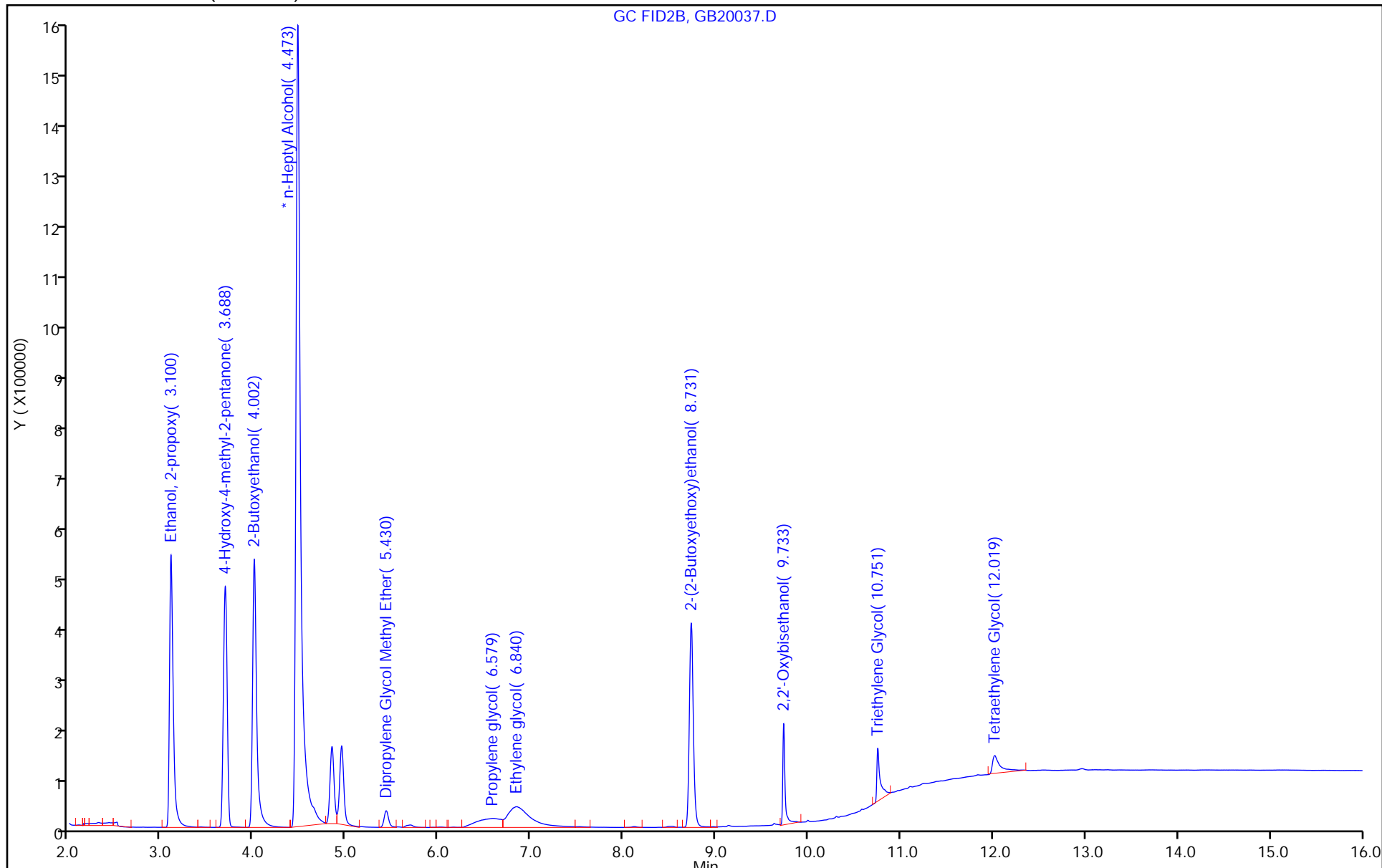
Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: CCV 680-764187/44   Calibration Date: 02/21/2023 11:05

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20051.D   Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol, 2-propoxy	Lin2		0.7322		25.2	20.0	25.8*	20.0
4-Hydroxy-4-methyl-2-pentanone	Ave	0.5620	0.6609		23.5	20.0	17.6	20.0
2-Butoxyethanol	Lin2		0.7807		24.1	20.0	20.6*	20.0
Dipropylene Glycol Methyl Ether	Lin2		0.0577		27.4	20.0	37.2*	20.0
Propylene glycol	Lin1		0.1411		15.0	20.0	-25.1*	20.0
Ethylene glycol	Lin		0.3617		20.2	20.0	1.2	20.0
2-(2-Butoxyethoxy)ethanol	Lin2		0.6185		26.8	20.0	33.9*	20.0
2,2'-Oxybisethanol	Lin		0.1981		16.1	20.0	-19.5	20.0
Triethylene Glycol	Lin		0.1533		12.5	20.0	-37.7*	20.0
Tetraethylene Glycol	Qua		0.0820		9.24	40.0	-76.9*	20.0

FORM VII 8015C GLY

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Lab Sample ID: CCV 680-764187/44   Calibration Date: 02/21/2023 11:05

Instrument ID: CVGG2   Calib Start Date: 02/20/2023 18:45

GC Column: J&W DB WAX   ID: 0.45(mm)   Calib End Date: 02/20/2023 21:05

Lab File ID: GB20051.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethanol, 2-propoxy	3.10	3.04	3.17
4-Hydroxy-4-methyl-2-pentanone	3.69	3.62	3.77
2-Butoxyethanol	4.00	3.92	4.08
Dipropylene Glycol Methyl Ether	5.43	5.32	5.54
Propylene glycol	6.58	6.45	6.72
Ethylene glycol	6.85	6.71	6.99
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	12.01	11.77	12.25

Form VII 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20051.D	
Lims ID:	ccv g4	
Client ID:		
Sample Type:	CCV	
Inject. Date:	21-Feb-2023 11:05:16	ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083951-044	
Operator ID:		Instrument ID: CVGG2
Sublist:	chrom-8015_GLY_VGG*sub2	

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group:	8015C_DAI
Last Update:	21-Feb-2023 16:22:56 Calib Date: 20-Feb-2023 21:05:32
Integrator:	Falcon
Quant Method:	Internal Standard Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :	J&W DB WAX (0.45 mm) Det: GC FID2B
Process Host:	CTX1609

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy							
	3.103	3.103	0.000	1421774	20.0	25.2	
2 4-Hydroxy-4-methyl-2-pentanone							
	3.693	3.693	0.000	1283278	20.0	23.5	
3 2-Butoxyethanol							
	4.003	4.003	0.000	1515903	20.0	24.1	
* 4 n-Heptyl Alcohol							
	4.470	4.470	0.000	4854363	50.0	50.0	
5 Dipropylene Glycol Methyl Ether							
	5.433	5.433	0.000	112075	20.0	27.4	
6 Propylene glycol							
	6.584	6.584	0.000	274045	20.0	15.0	
7 Ethylene glycol							
	6.850	6.850	0.000	702413	20.0	20.2	
8 2-(2-Butoxyethoxy)ethanol							
	8.731	8.731	0.000	1200901	20.0	26.8	
9 2,2'-Oxybisethanol							
	9.731	9.731	0.000	384586	20.0	16.1	
10 Triethylene Glycol							
	10.749	10.749	0.000	297666	20.0	12.5	
11 Tetraethylene Glycol							
	12.008	12.008	0.000	318494	40.0	9.24	

Reagents:

SG_Gly_CAL_00046	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20051.D
Injection Date: 21-Feb-2023 11:05:16   Instrument ID: CVGG2   Operator ID:
Lims ID: ccv g4   Worklist Smp#:   44
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, GB20051.D

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 680-764187/14

Matrix: Water   Lab File ID: GB20021.D

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/20/2023 23:25

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

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

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

Cleanup Factor:

Analysis Batch No.: 764187   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\20230220-83951.b\GB20021.D	
Lims ID:	mb	
Client ID:		
Sample Type:	MB	
Inject. Date:	20-Feb-2023 23:25:39	ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083951-014	
Operator ID:		Instrument ID: CVGG2

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	21-Feb-2023 16:22:48	Calib Date: 20-Feb-2023 21:05:32
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

First Level Reviewer: SWK1   Date: 21-Feb-2023 16:20:35

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

* 4 n-Heptyl Alcohol

RT	Exp RT	Dlt RT	Response	Cal Amt	OnCol Amt
4.473	4.479	-0.006	5168788	50.0	50.0

Reagents:

SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20021.D
Injection Date: 20-Feb-2023 23:25:39   Instrument ID: CVGG2   Operator ID:
Lims ID: mb   Worklist Smp#:   14
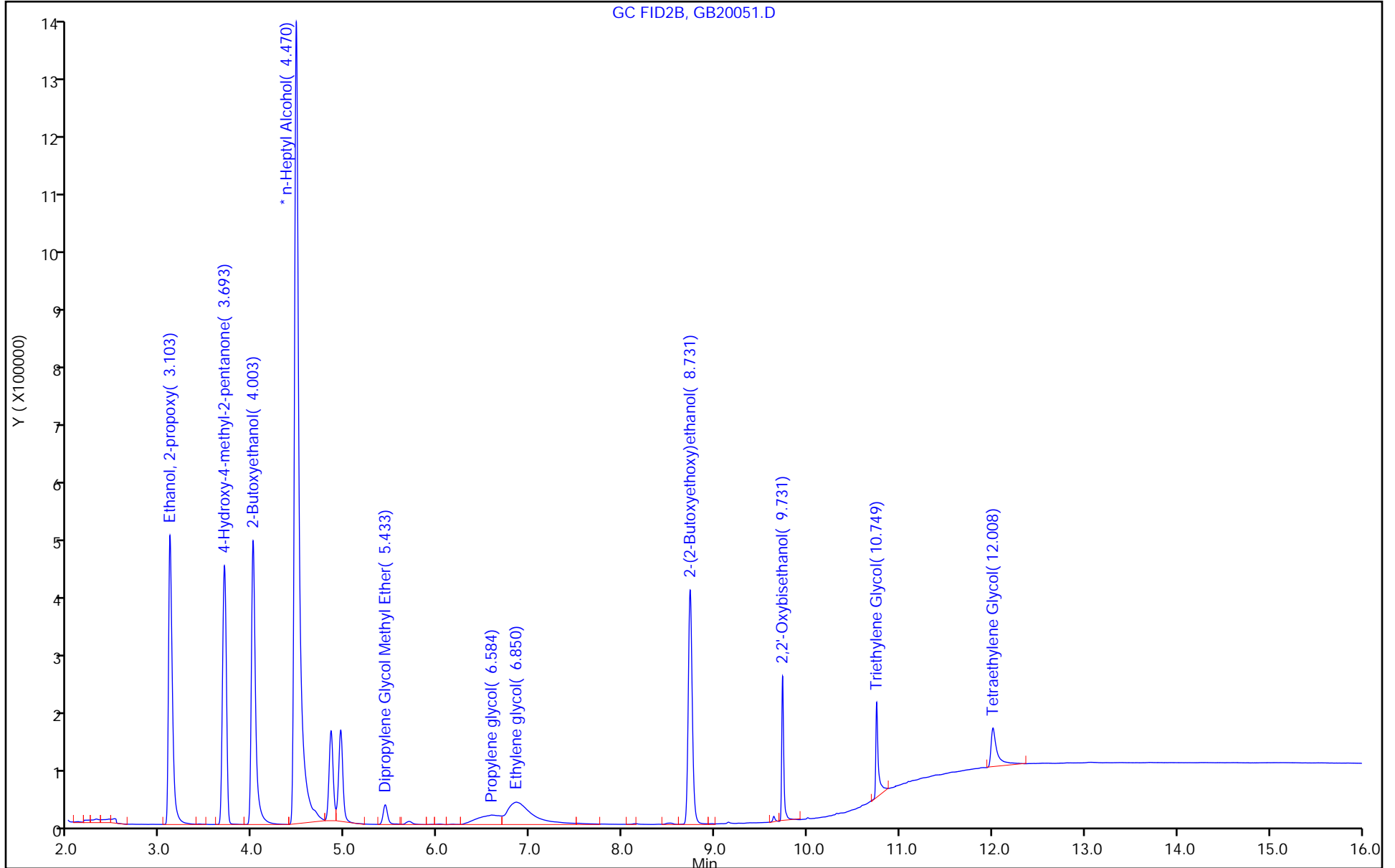Client ID:
Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20021.D

2/22/2023 3:02 PM
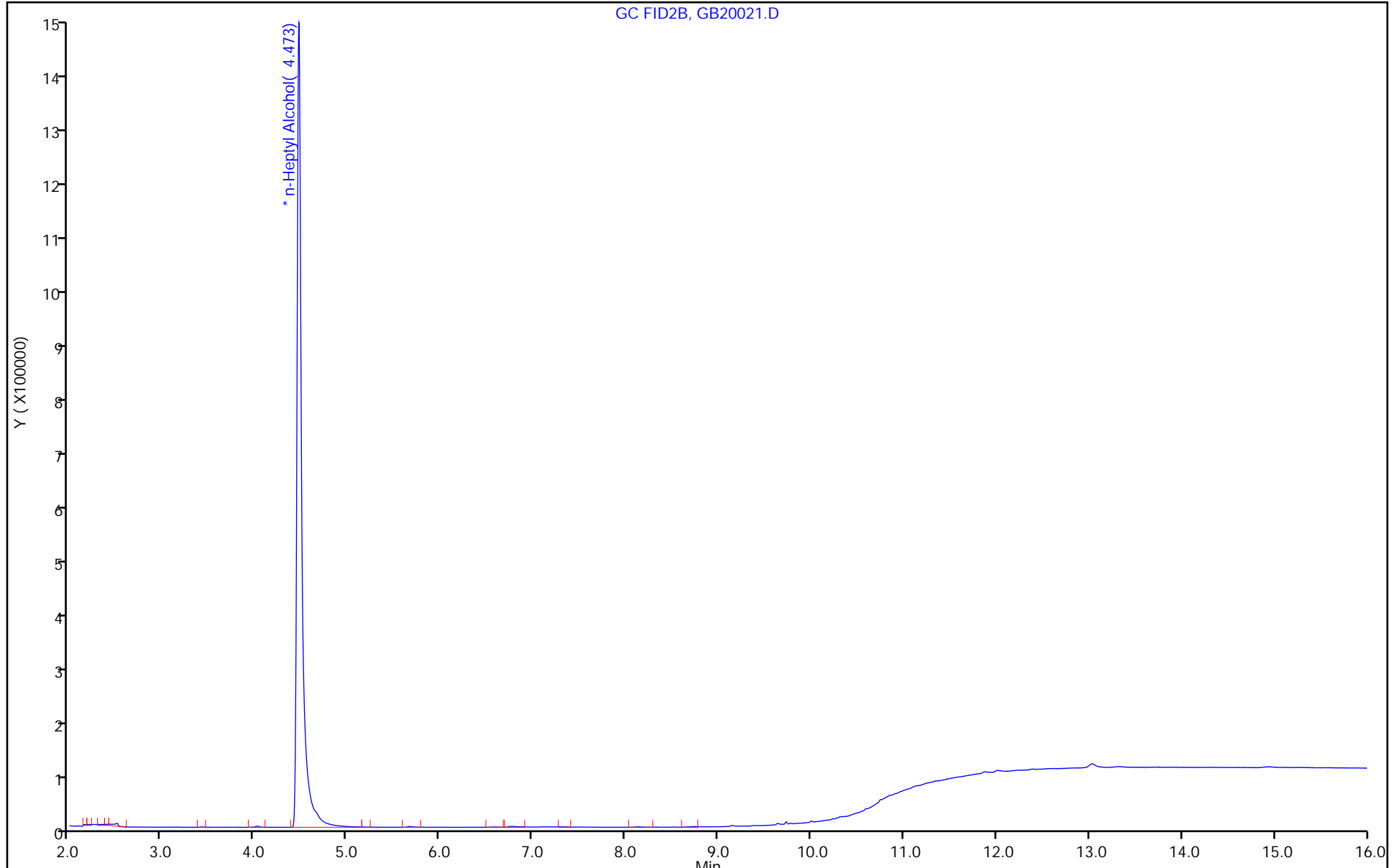
FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 680-764187/10

Matrix: Water   Lab File ID: GB20017.D

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/20/2023 21:52

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.: 764187   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	23.6		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20017.D
Lims ID:	lcs
Client ID:	
Sample Type:	LCS

Inject. Date:	20-Feb-2023 21:52:18	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0083951-010				
Operator ID:		Instrument ID:	CVGG2		

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m		
Limit Group:	8015C_DAI		
Last Update:	21-Feb-2023 16:22:14	Calib Date:	20-Feb-2023 21:05:32
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D		

Column 1 :	J&W DB WAX (0.45 mm)		Det: GC FID2B
Process Host:	CTX1609		

First Level Reviewer: SK9U   Date: 21-Feb-2023 12:33:16

	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy							
	3.093	3.086	0.007	1361855	20.0	22.6	
2 4-Hydroxy-4-methyl-2-pentanone							
	3.683	3.671	0.012	1300907	20.0	22.5	
3 2-Butoxyethanol							M
	3.999	3.996	0.003	1485996	20.0	22.2	M
* 4 n-Heptyl Alcohol							M
	4.473	4.479	-0.006	5150478	50.0	50.0	M
5 Dipropylene Glycol Methyl Ether							M
	5.429	5.424	0.005	104876	20.0	24.0	M
6 Propylene glycol							
	6.528	6.567	-0.039	392959	20.0	21.1	
7 Ethylene glycol							
	6.817	6.821	-0.004	738319	20.0	20.0	
8 2-(2-Butoxyethoxy)ethanol							
	8.733	8.732	0.001	1135420	20.0	23.6	
9 2,2'-Oxybisethanol							
	9.729	9.729	0.000	488871	20.0	19.9	
10 Triethylene Glycol							
	10.745	10.746	-0.001	474883	20.0	20.1	
11 Tetraethylene Glycol							
	11.998	11.997	0.001	1003872	40.0	39.6	

QC Flag Legend
Processing Flags

Review Flags
 M - Manually Integrated

Reagents:

SG_Gly_CAL_00046	Amount Added: 10.00	Units: uL
SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL　　Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20017.D			
Injection Date:	20-Feb-2023 21:52:18	Instrument ID:	CVGG2	Operator ID:
Lims ID:	lcs			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, GB20017.D

2/22/2023 3:02 PM
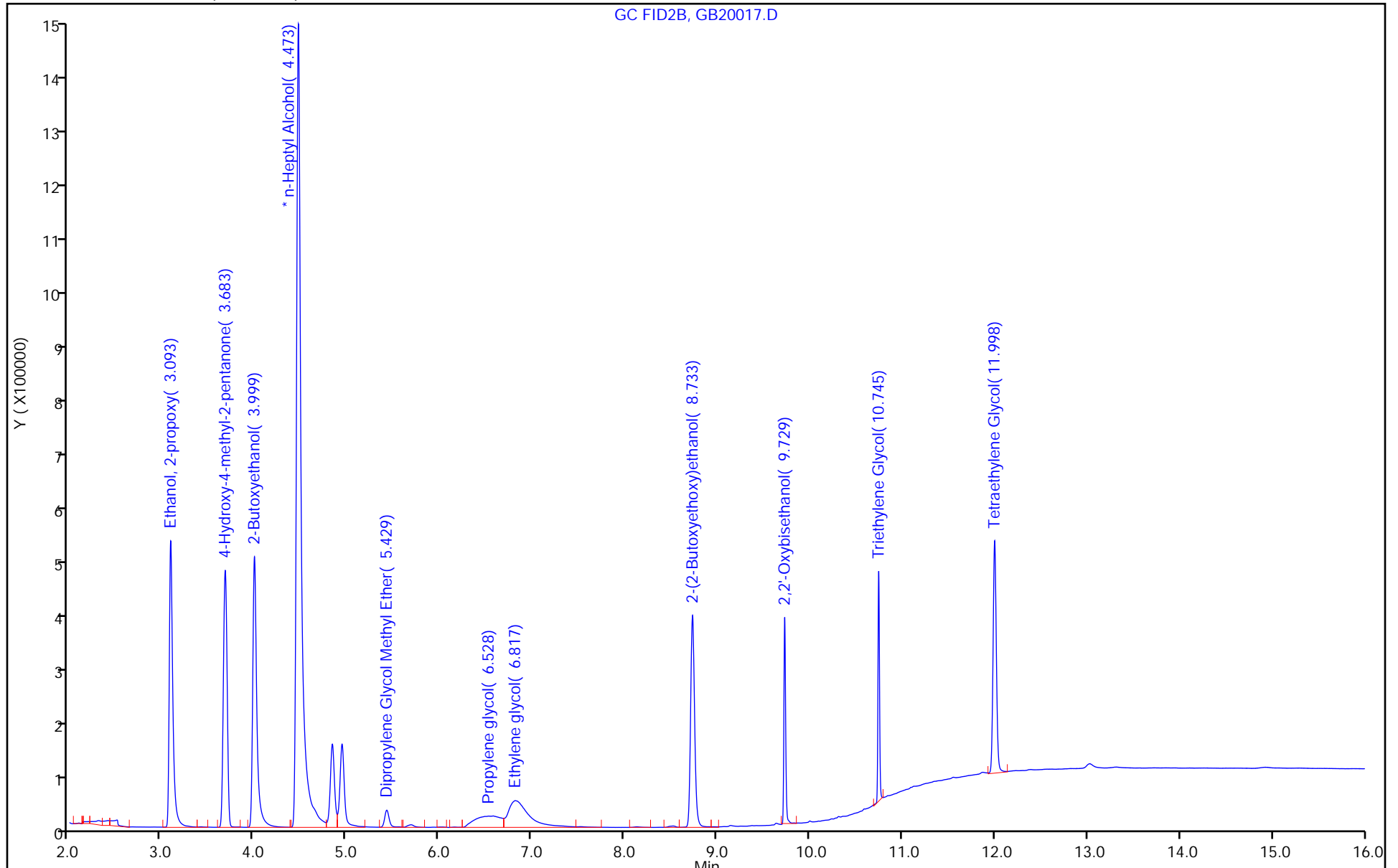
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20017.D
Injection Date: 20-Feb-2023 21:52:18   Instrument ID: CVGG2
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#:   0   Worklist Smp#:   10
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)   Detector   GC FID2B

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

Processing Integration Results

RT: 4.47
Area: 5057193
Amount: 50.000000
Amount Units: ug/ml
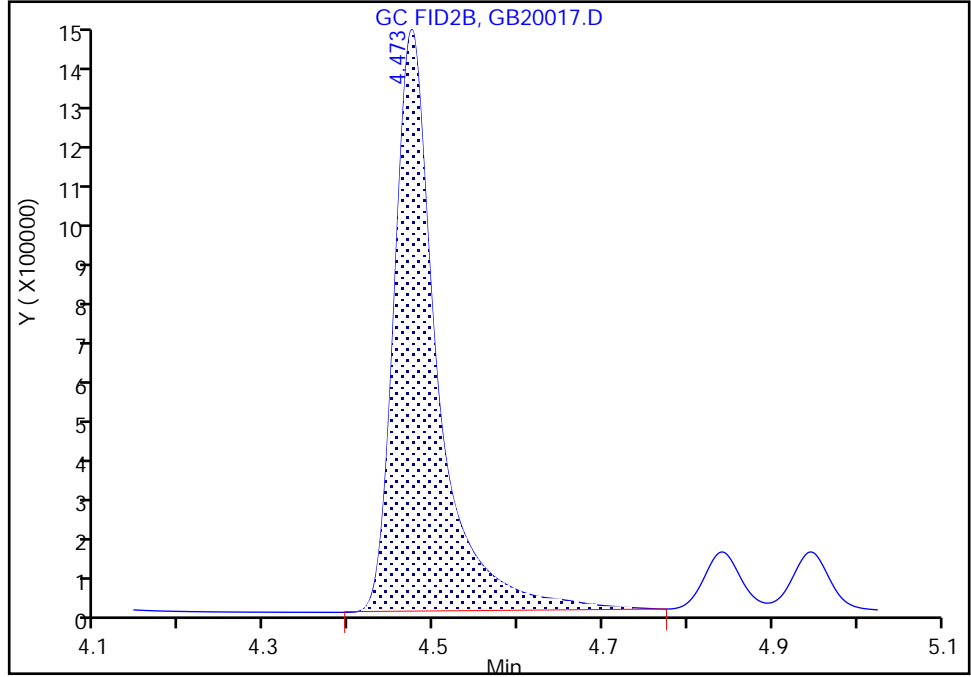
Manual Integration Results

RT: 4.47
Area: 5150478
Amount: 50.000000
Amount Units: ug/ml
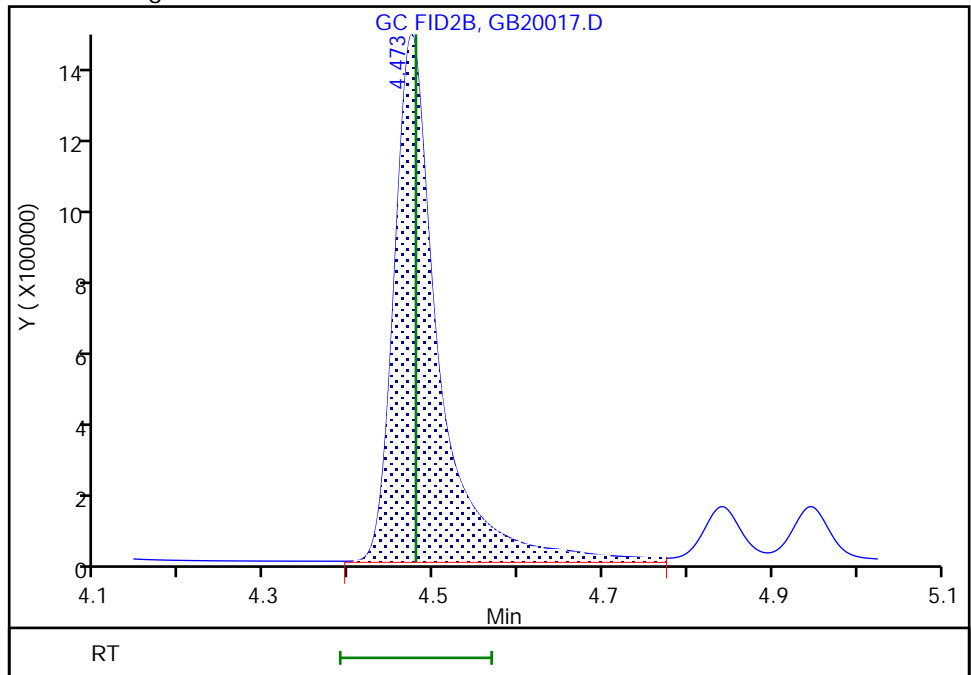
Reviewer: SK9U, 21-Feb-2023 12:33:10
Audit Action: Assigned New Baseline   Audit Reason: Baseline Smoothing

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 680-764187/11

Matrix: Water   Lab File ID: GB20018.D

Analysis Method: 8015C GLY   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/20/2023 22:15

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.: 764187   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	24.5		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20018.D
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 20-Feb-2023 22:15:38   ALS Bottle#:   0   Worklist Smp#:   11
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-011
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:22:14   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

First Level Reviewer: SK9U   Date: 21-Feb-2023 12:35:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.095	3.086	0.009	1355133	20.0	22.7	
2 4-Hydroxy-4-methyl-2-pentanone						
3.684	3.671	0.013	1298204	20.0	22.7	
3 2-Butoxyethanol						
4.000	3.996	0.004	1478832	20.0	22.3	
* 4 n-Heptyl Alcohol						
4.474	4.479	-0.005	5097337	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.428	5.424	0.004	104486	20.0	24.2	
6 Propylene glycol						M
6.564	6.567	-0.003	412404	20.0	22.5	M
7 Ethylene glycol						
6.827	6.821	0.006	774219	20.0	21.4	
8 2-(2-Butoxyethoxy)ethanol						
8.733	8.732	0.001	1160439	20.0	24.5	
9 2,2'-Oxybisethanol						
9.729	9.729	0.000	525265	20.0	21.9	
10 Triethylene Glycol						
10.745	10.746	-0.001	506447	20.0	21.9	
11 Tetraethylene Glycol						E
11.998	11.997	0.001	1074024	40.0	47.8	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags
　M - Manually Integrated

Reagents:

SG_Gly_CAL_00046	Amount Added: 10.00	Units: uL	
SG_GLY_ISTD_00107	Amount Added: 10.00	Units: uL	Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20018.D

Injection Date:	20-Feb-2023 22:15:38	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	lcsd			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015_GLY_VGG	Limit Group:	8015C_DAI		

Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20018.D

2/22/2023 3:02 PM
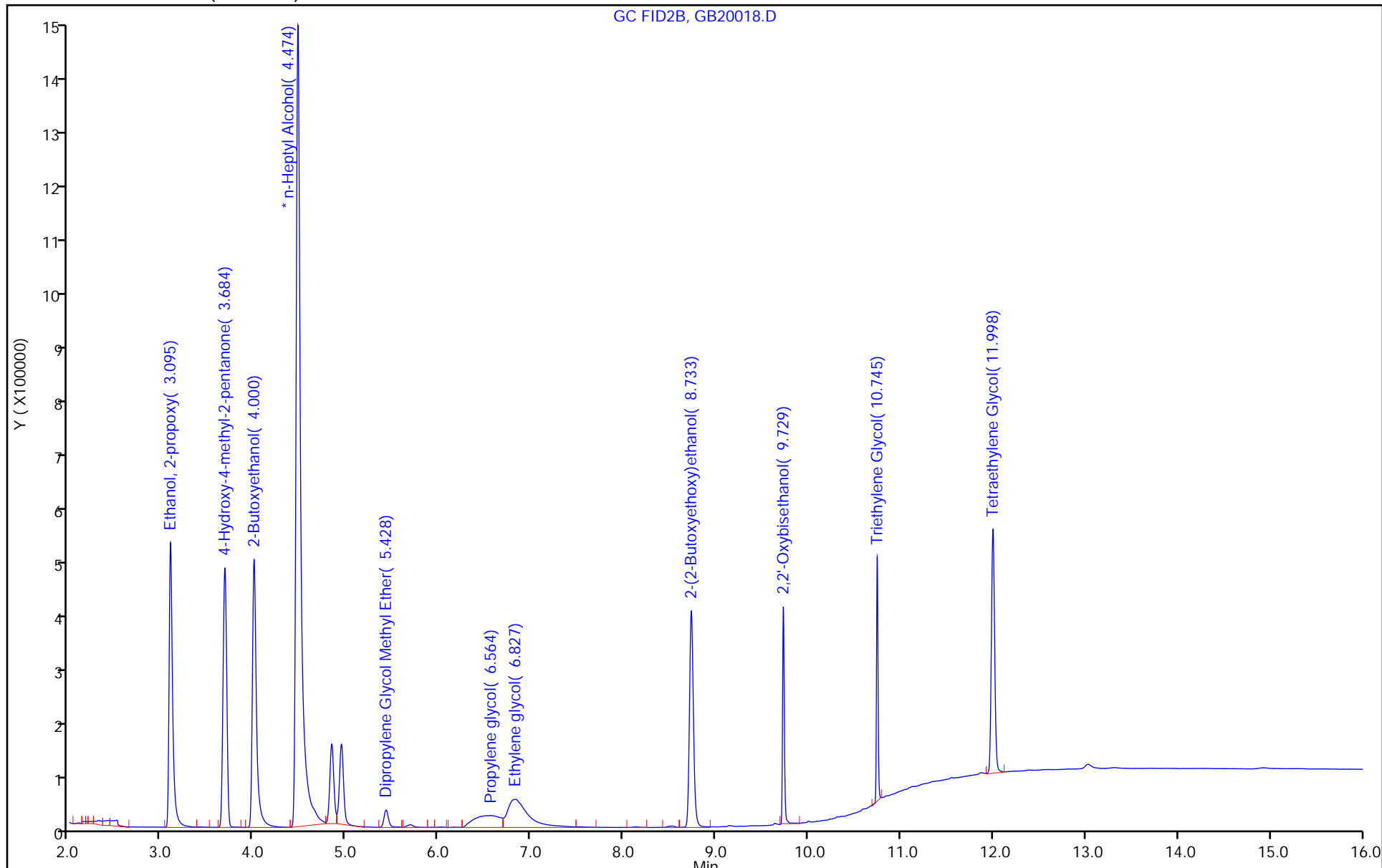
```
                            FORM I
             GC SEMI VOA ORGANICS ANALYSIS DATA SHEET


Lab Name: Eurofins Savannah              Job No.: 580-123622-1

SDG No.:

Client Sample ID: AF-RHMW10-WGN01LF-2302W2   Lab Sample ID: 580-123622-1 MS
                  MS

Matrix: Water                            Lab File ID: GB20031.D

Analysis Method: 8015C GLY               Date Collected: 02/14/2023  12:40

Extraction Method:                       Date Extracted:

Sample wt/vol: 1(mL)                     Date Analyzed: 02/21/2023  03:18

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.: 764187               Units: mg/L
```

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	23.4		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20031.D	
Lims ID:	580-123622-A-1 MS	
Client ID:		
Sample Type:	MS	
Inject. Date:	21-Feb-2023 03:18:50	ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor: 1.0000
Sample Info:	680-0083951-024	
Operator ID:		Instrument ID: CVGG2

Method:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m	
Limit Group:	8015C_DAI	
Last Update:	21-Feb-2023 16:22:48	Calib Date: 20-Feb-2023 21:05:32
Integrator:	Falcon	
Quant Method:	Internal Standard	Quant By: Initial Calibration
Last ICal File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D	

Column 1 :	J&W DB WAX (0.45 mm)	Det: GC FID2B
Process Host:	CTX1609	

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
			1 Ethanol, 2-propoxy			
3.097	3.086	0.011	1419307		24.9	
			2 4-Hydroxy-4-methyl-2-pentanone			
3.683	3.671	0.012	1220444		22.1	
			3 2-Butoxyethanol			
4.001	3.996	0.005	1616715		25.6	
*			4 n-Heptyl Alcohol			
4.475	4.479	-0.004	4903800	50.0	50.0	
			5 Dipropylene Glycol Methyl Ether			
5.429	5.424	0.005	96462		23.1	
			6 Propylene glycol			
6.623	6.567	0.056	356027		20.0	
			7 Ethylene glycol			
6.829	6.821	0.008	706937		20.2	
			8 2-(2-Butoxyethoxy)ethanol			
8.733	8.732	0.001	1072205		23.4	
			9 2,2'-Oxybisethanol			
9.731	9.729	0.002	342272		13.8	
			10 Triethylene Glycol			
10.749	10.746	0.003	194732		7.07	
			11 Tetraethylene Glycol			7
12.009	11.997	0.012	85387		1.89	7
LOD =	4.50					

QC Flag Legend
Processing Flags
7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20031.D
Injection Date: 21-Feb-2023 03:18:50   Instrument ID: CVGG2   Operator ID:
Lims ID: 580-123622-A-1 MS   Worklist Smp#:   24
Client ID:
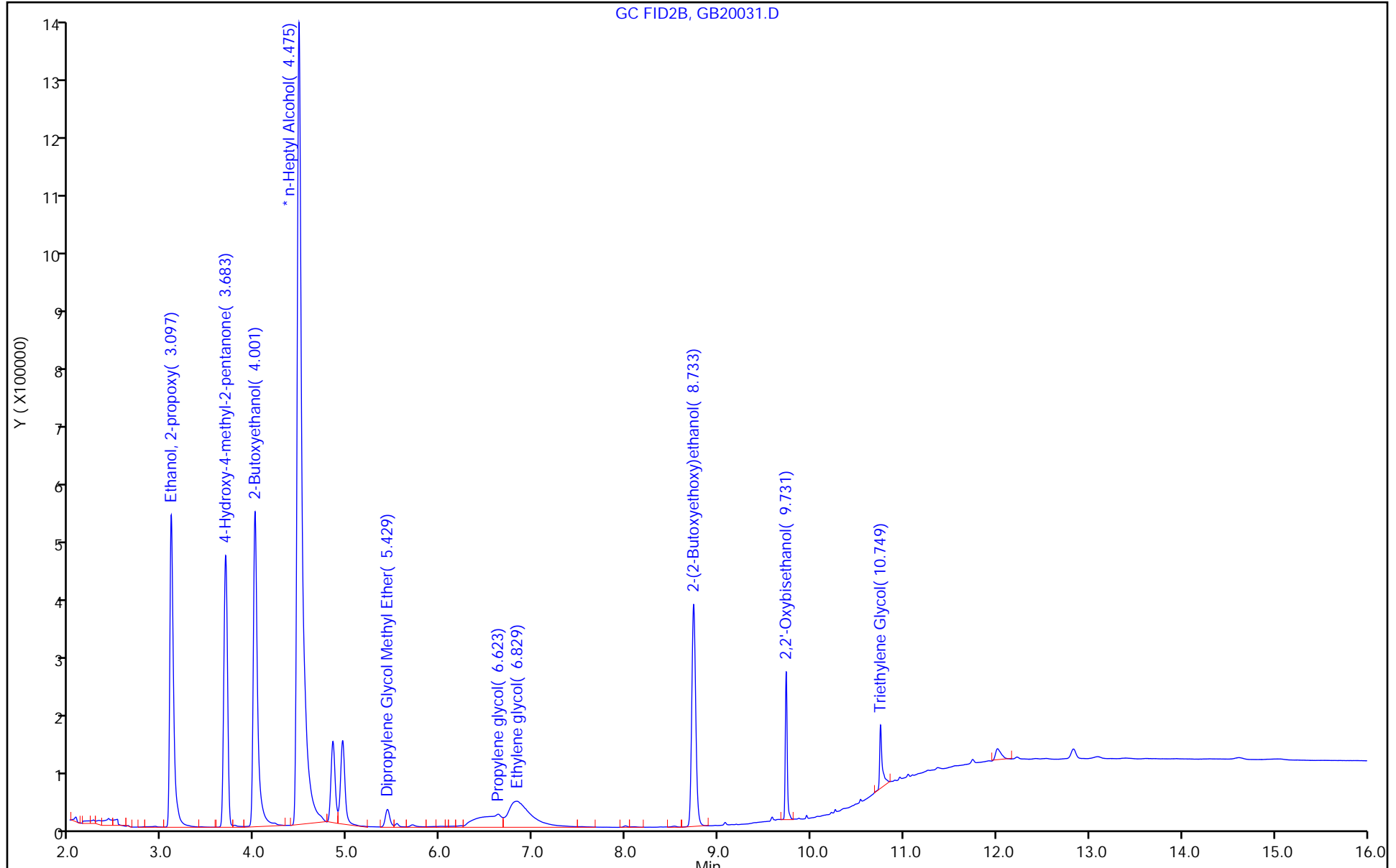Injection Vol: 1.0 ul   Dil. Factor: 1.0000   ALS Bottle#:   0
Method: 8015_GLY_VGG   Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm)

GC FID2B, GB20031.D

2/22/2023 3:02 PM

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Client Sample ID: AF-RHMW10-WGN01LF-2302W2   Lab Sample ID: 580-123622-1 MSD
MSD

Matrix: Water   Lab File ID: GB20032.D

Analysis Method: 8015C GLY   Date Collected: 02/14/2023 12:40

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 02/21/2023 03:42

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.: 764187   Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
112-34-5	2-(2-Butoxyethoxy)ethanol	25.0		5.0	3.0	1.1

FORM I 8015C GLY

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20032.D
Lims ID: 580-123622-A-1 MSD
Client ID:
Sample Type: MSD
Inject. Date: 21-Feb-2023 03:42:22   ALS Bottle#:   0   Worklist Smp#:   25
Injection Vol: 1.0 ul   Dil. Factor: 1.0000
Sample Info: 680-0083951-025
Operator ID: Instrument ID: CVGG2

Method: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\8015_GLY_VGG.m
Limit Group: 8015C_DAI
Last Update: 21-Feb-2023 16:22:48   Calib Date: 20-Feb-2023 21:05:32
Integrator: Falcon
Quant Method: Internal Standard   Quant By: Initial Calibration
Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D

Column 1 :   J&W DB WAX (0.45 mm)   Det: GC FID2B
Process Host: CTX1609

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Ethanol, 2-propoxy						
3.101	3.086	0.015	1445892		25.3	
2 4-Hydroxy-4-methyl-2-pentanone						
3.688	3.671	0.017	1304141		23.7	
3 2-Butoxyethanol						
4.003	3.996	0.007	1624601		25.7	
* 4 n-Heptyl Alcohol						
4.476	4.479	-0.003	4905950	50.0	50.0	
5 Dipropylene Glycol Methyl Ether						
5.431	5.424	0.007	100234		24.1	
6 Propylene glycol						
6.531	6.567	-0.036	160693		7.66	
7 Ethylene glycol						
6.818	6.821	-0.003	229626		4.12	
8 2-(2-Butoxyethoxy)ethanol						
8.732	8.732	0.000	1138524		25.0	
9 2,2'-Oxybisethanol						
9.730	9.729	0.001	360100		14.7	
10 Triethylene Glycol						
10.748	10.746	0.002	298990		12.4	
11 Tetraethylene Glycol						
12.009	11.997	0.012	228754		6.23	

Reagents:

SG_GLY_ISTD_00107   Amount Added: 10.00   Units: uL   Run Reagent

Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Savannah

Data File:	\\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20032.D

Injection Date:	21-Feb-2023 03:42:22	Instrument ID:	CVGG2	Operator ID:	
Lims ID:	580-123622-A-1 MSD			Worklist Smp#:	25
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, GB20032.D

2/22/2023 3:02 PM
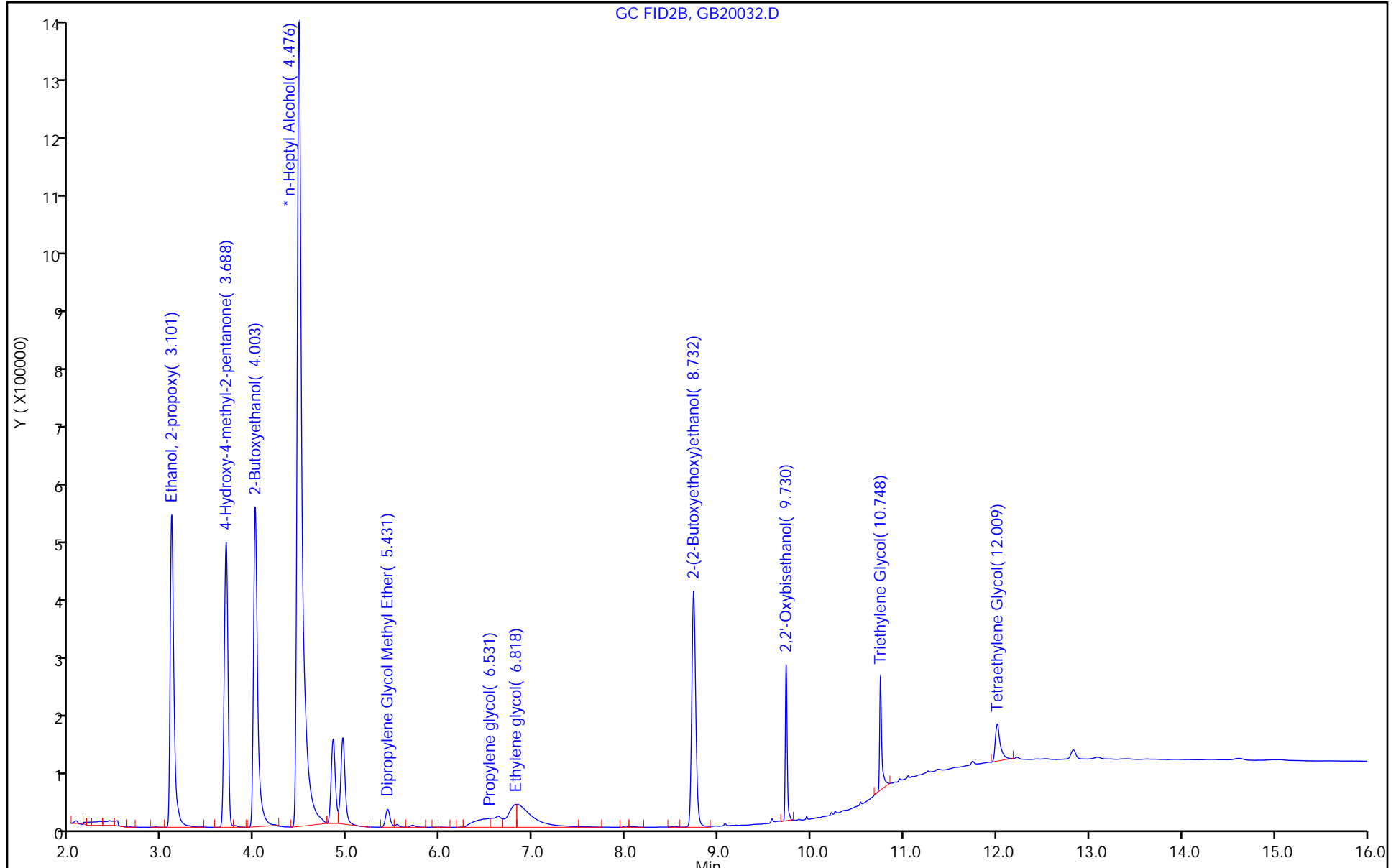
Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Instrument ID: CVGG2   Start Date: 02/20/2023 18:45

Analysis Batch Number: 764187   End Date: 02/21/2023 11:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-764187/2		02/20/2023 18:45	1	GB20009.D	J&W DB WAX 0.45(mm)
IC 680-764187/3		02/20/2023 19:08	1	GB20010.D	J&W DB WAX 0.45(mm)
IC 680-764187/4		02/20/2023 19:32	1	GB20011.D	J&W DB WAX 0.45(mm)
ICIS 680-764187/5		02/20/2023 19:55	1	GB20012.D	J&W DB WAX 0.45(mm)
IC 680-764187/6		02/20/2023 20:18	1	GB20013.D	J&W DB WAX 0.45(mm)
IC 680-764187/7		02/20/2023 20:42	1	GB20014.D	J&W DB WAX 0.45(mm)
IC 680-764187/8		02/20/2023 21:05	1	GB20015.D	J&W DB WAX 0.45(mm)
ICV 680-764187/9 CCV		02/20/2023 21:28	1	GB20016.D	J&W DB WAX 0.45(mm)
LCS 680-764187/10		02/20/2023 21:52	1	GB20017.D	J&W DB WAX 0.45(mm)
LCSD 680-764187/11		02/20/2023 22:15	1	GB20018.D	J&W DB WAX 0.45(mm)
MB 680-764187/14		02/20/2023 23:25	1	GB20021.D	J&W DB WAX 0.45(mm)
ZZZZZ		02/20/2023 23:49	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 00:12	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 00:35	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 00:58	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 01:22	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 01:45	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 02:08	1		J&W DB WAX 0.45(mm)
ZZZZZ		02/21/2023 02:32	1		J&W DB WAX 0.45(mm)
580-123622-1	AF-RHMW10-WGN01LF-2302W2	02/21/2023 02:55	1	GB20030.D	J&W DB WAX 0.45(mm)
580-123622-1 MS	AF-RHMW10-WGN01LF-2302W2 MS	02/21/2023 03:18	1	GB20031.D	J&W DB WAX 0.45(mm)
580-123622-1 MSD	AF-RHMW10-WGN01LF-2302W2 MSD	02/21/2023 03:42	1	GB20032.D	J&W DB WAX 0.45(mm)
580-123622-2	AF-RHMW16-WGN01LF-2302W2	02/21/2023 04:05	1	GB20033.D	J&W DB WAX 0.45(mm)
580-123622-3	AF-RHMW12A-WGN01LF-2302W2	02/21/2023 04:29	1	GB20034.D	J&W DB WAX 0.45(mm)
580-123622-4	AF-RHMW12A-WGFD01LF-2302W2	02/21/2023 04:52	1	GB20035.D	J&W DB WAX 0.45(mm)
CCV 680-764187/30		02/21/2023 05:38	1	GB20037.D	J&W DB WAX 0.45(mm)
580-123622-5	AF-HDMW225303-WGN01LF-2302W2	02/21/2023 06:48	1	GB20040.D	J&W DB WAX 0.45(mm)
CCV 680-764187/44		02/21/2023 11:05	1	GB20051.D	J&W DB WAX 0.45(mm)

8015C GLY

2/22/2023 3:02 PM

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Batch Number: 764187   Batch Start Date: 02/20/23 18:45   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 00046	SG_GLY_ISTD 00107	SG_GlyICV 00051		
IC 680-764187/2		8015C GLY		1 mL	50 uL	10 uL			
IC 680-764187/3		8015C GLY		1 mL	40 uL	10 uL			
IC 680-764187/4		8015C GLY		1 mL	25 uL	10 uL			
ICIS 680-764187/5		8015C GLY		1 mL	10 uL	10 uL			
IC 680-764187/6		8015C GLY		1 mL	5 uL	10 uL			
IC 680-764187/7		8015C GLY		1 mL	2.5 uL	10 uL			
IC 680-764187/8		8015C GLY		1 mL	1 uL	10 uL			
ICV 680-764187/9 CCV		8015C GLY		1 mL		10 uL	10 uL		
LCS 680-764187/10		8015C GLY		1 mL	10 uL	10 uL			
LCSD 680-764187/11		8015C GLY		1 mL	10 uL	10 uL			
MB 680-764187/14		8015C GLY		1 mL		10 uL			
580-123622-A-1	AF-RHMW10-WGN01LF-2302W2	8015C GLY	T	1 mL		10 uL			
580-123622-A-1 MS	AF-RHMW10-WGN01LF-2302W2	8015C GLY	T	1 mL	10 uL	10 uL			
580-123622-A-1 MSD	AF-RHMW10-WGN01LF-2302W2	8015C GLY	T	1 mL	10 uL	10 uL			
580-123622-A-2	AF-RHMW16-WGN01LF-2302W2	8015C GLY	T	1 mL		10 uL			
580-123622-A-3	AF-RHMW12A-WGN01LF-2302W2	8015C GLY	T	1 mL		10 uL			
580-123622-A-4	AF-RHMW12A-WGFD01LF-2302W2	8015C GLY	T	1 mL		10 uL			
CCV 680-764187/30		8015C GLY		1 mL	10 uL	10 uL			
580-123622-A-5	AF-HDMW225303-WGN01LF-2302W2	8015C GLY	T	1 mL		10 uL			
CCV 680-764187/44		8015C GLY		1 mL	10 uL	10 uL			

Batch Notes	

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

8015C GLY   Page 1 of 2

2/22/2023 3:02 PM

Lab Name: Eurofins Savannah   Job No.: 580-123622-1

SDG No.:

Batch Number: 764187   Batch Start Date: 02/20/23 18:45   Batch Analyst: Kellar, Joshua C

Batch Method: 8015C GLY   Batch End Date:

Basis	Basis Description
T	Total/NA

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

8015C GLY   Page 2 of 2

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

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

eurofins | Environment Testing America

Client Information

Field	Value
Client Contact:	
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 N627422 3F0104
Site:	RHSF

Sampler: Olivia Shively
Phone: 850-935-7716

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

Carrier Tracking No(s): TWB
FedEx O16-2482553
State of Origin: Hawaii

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

Analysis Requested

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_DSI /2-(2-butoxyethoxy)-ethanol A	Total Number of containers
AF-RHMW10-WGN01LF-2302W2	2/14/23	1240	G	W		N	N	X	3

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

Special Instructions/Note:

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:

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:

	Date/Time		Company		Date/Time		Company
Relinquished by: Olivia Shively	2/14/23	1350	AECOM	Received by: James Mason	2/14/23	1350	AECOM
Relinquished by: James Mason	2/15/23	1400	AECOM	Received by:	2/16/23	1100	AECOM
Relinquished by:			Company	Received by:			Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.0/5.0

Ver: 01/16/2019

Chain of Custody Record

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

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Client Information

Sampler: Matt Nagate	Carrier Tracking No(s): AWB
Phone: 804-873-0525	FedEx 016-2482 5356
Lab PM: Elaine Walker	State of Origin: Hawaii
E-Mail: M.Elaine.Walker@EurofinsET.com	

Company: AECOM

Address: 1001 Bishop St. Suite 1600

City: Honolulu

State, Zip: Hawaii 96813

Phone: 808-954-4512 / 770-331-0794

Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)

Project Name: CTO N6274223F0104

Site: RHSF

PWSID:

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	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol A	Total Number of Containers	Special Instructions/Note:
AF-RHMW16-WGN01LF-2302W2	2/14/23	1155	G	W		N	N	X	3	NN 2/14/23

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.

Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD.

Method of Shipment:

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

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:		Date:		Time:	

Relinquished by: [signature]	Date/Time: 2/14/23 1310	Company AECOM	Received by: Miranda DeGarmo	Date/Time: 2/14/23 1310	Company AECOM
Relinquished by: Miranda DeGarmo	Date/Time: 2/15/23 1400	Company AECOM	Received by: [signature]	Date/Time: 2/16/23 1100	Company AECOM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.0 / 5.0

Ver: 01/16/2019

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

Chain of Custody Record

COC No: 2302W2AFEA05
Page: Page 1 of 1
Job #:

Client Information	
Client Contact:	Sampler: Nate Abbot
	Phone: 804-873-0523

Carrier Tracking No(s): AWB
FedEx 016-2485253-34
State of Origin: Hawaii

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

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 (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, Ar=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DS/ 2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note:
							Preservation Code: A		
AF-RHMW12A-WGN01LF-2302W2	2/14/23	0945	G	W	N	N	X	3	
AF-RHMW12A-WGFD01LF-2302W2	2/14/23	0945	G	W	N	N	X	3	

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

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

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

Special Instructions/QC Requirements: DOD QSM project.

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by: Miranda DeGarmo	Date/Time: 2/14/23 1310	AECOM	Received by: Miranda DeGarmo	Date/Time: 2/14/23 1310	Company AECOM
Relinquished by: Miranda DeGarmo	Date/Time: 2/15/23 1400	Company AECOM	Received by:	Date/Time: 2/16/23 1100	Company AECOM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | **Custody Seal No.:** | Cooler Temperature(s) °C and Other Remarks: 5.0 / 5.0

Ver: 01/16/2019

2/22/2023 3:02 PM

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

eurofins | Environment Testing America

Chain of Custody Record

COC No: 2302W2AFEA04
Page: Page 1 of 1
Job #:

Carrier Tracking No(s): AvB
FedEx 016-2487353Y

Client Information

Client Contact:

Company: AECOM	**Sampler:** Olivia Shipley
Address: 1001 Bishop St. Suite 1600	**Phone:** 850-738-7710
City: Honolulu	**PWSID:**
State, Zip: Hawaii 96813	**Lab PM:** Elaine Walker
Phone: 808-954-4512 / 770-331-0794	**E-Mail:** M.Elaine.Walker@EurofinsET.com
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	**State of Origin:** Hawaii

Due Date Requested: see subcontract
TAT Requested (days): Rush - ASAP
Compliance Project: △ Yes △ No
PO #:
WO #:
Project #: 60697810
Project Name: CTO N6274223F0104
Site: RHSF
SSOW#:

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AirA)	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	Special Instructions/Note:
AF-HDMW225303-WGN01LF-2302W2	2/14/23	1030	G	W		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.

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:	Date/Time:		Company	Received by:	Date/Time:	Company
Olivia Shipley	2/14/23 1350		AECOM	James Mason	2/14/23 1350	AECOM
James Mason	2/15/23 1400		AECOM		2/16/23 1100	AECOM
			Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s)°C and Other Remarks: 5.0 / 5.0

Ver: 01/16/2019

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

✳ eurofins   Environment Testing America

Chain of Custody Record

COC No.
2302W2AFEA03
Page: Page 1 of 1
Job #:

Carrier Tracking No(s): AWB
FedEx 016-2482554
State of Origin: Hawaii

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

Client Information

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

Sampler: Olivia Shirley
Phone: 360-938-778

PWSID

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

580-123622 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	8015C_DAI_GL_DSI 2-(2-butoxyethoxy)-ethanol	Total Number of containers
			Preservation Code:				A	
AF-RHMW10-WGN01LF-2302W2	2/14/23	1240	G	W	N	N	X	3

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.

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.

DoD Stage 4 report standard TAT. AECOM EQuIS EDD

Empty Kit Relinquished by: Date: Time:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Olivia Shirley	2/14/23 1350	AECOM	James Mason	2/14/23 1350	AECOM
James Mason	2/15/23 1400	AECOM		2/16/23 1100	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact:
△ Yes △ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.0/5.0

Ver 01/16/2019

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

❊ eurofins Environment Testing America

Chain of Custody Record

Client Information		Sampler: Nick Nolte	Lab PM: Elaine Walker	Carrier Tracking No(s): AWB FedEx 016-2452556	COC No: 2302W2AFEA06
Client Contact:		Phone: 804-873-0352	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin. Hawaii	Page: Page 1 of 1

PWSID

Analysis Requested

Client Information

Company: AECOM

Address: 1001 Bishop St. Suite 1600

City: Honolulu

State. Zip. Hawaii 96813

Phone: 808-954-4512 / 770-331-0794

Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)

Project Name: CTO N6274223F0104

Site: RHSF

Due Date Requested. see subcontract

TAT Requested (days): **Rush - ASAP**

Compliance Project: △ Yes △ No

PO #:

WO #:

Project #: 60697810

SSOW#:

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_D5/ 2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note
				W		N	N	A	X	
AF-RHMW16-WGN01LF-2302W2	2/4/23	1155	G					X	3	

Special Instructions/QC Requirements   DOD QSM project.

Method of Shipment:

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:

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

Relinquished by: WT	Date/Time: 2/14/23 1310	Company AECOM	Received by: Miranda DeGarmo	Date/Time: 2/14/23 1310	Company AECOM
Relinquished by: Miranda DeGarmo	Date/Time: 2/15/23 1400	Company AECOM	Received by:	Date/Time: 2/16/23 1100	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No   Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.0/5.0

Ver 01/16/2019

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

:: eurofins | Environment Testing America

Chain of Custody Record

Client Information		
	Sampler: N/c L Knocha	Carrier Tracking No(s): AWB FedEx 016-2452532
Client Contact:	Phone: 81-823-0523	Lab PM: Elaine Walker
		E-Mail: M_Elaine_Walker@EurofinsET.com
		State of Origin. Hawaii

COC No: 2302W2AFEA05
Page: Page 1 of 1
Job #:

Company: AECOM

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

PWSID

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, B=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DSI 2-(2-butoxyethoxy)-ethanol															Total Number of containers	Special Instructions/Note:
								A															X	
AF-RHMW12A-WGN01LF-2302W2	2/14/23	0945	G	W		N	N	X															3	
AF-RHMW12A-WGFD01LF-2302W2	2/14/23	0945	G	W		N	N	X															3	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested I II III IV Other (specify)

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.

Prelim data (Level 1 of 2)=see TAT above. DoD Stage 4 report standard TAT AECOM EQuIS EDD
DOD QSM project. AECOM EQuIS EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: W~	Date/Time: 2/14/23 1310	Received by: AECOM	Company AECOM
Relinquished by: Miranda DeSarro	Date/Time: 2/15/23 1400	Received by: Mandy DeSarro	Date/Time: 2/14/23 1310	Company AECOM
Relinquished by:	Date/Time:	Received by:	Date/Time: 2/16/23 1100	Company AECOM

Custody Seals Intact Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 5.0/5.0

Ver: 01/16/2019

Chain of Custody Record

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

eurofins Environment Testing America

COC No:	2302W2AFEA04
Page:	Page 1 of 1
Job #:	

Carrier Tracking No(s): 448
~~FedEx~~ 016-2825534
State of Origin Hawaii

Sampler: Olivia Shurly
Phone: 850-138-7710

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

Client Information

Client Contact:

Company: AECOM

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

Project Name: CTO N6274223F0104
Site: RHSF

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

PWSID

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
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C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
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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	Total Number of containers	Special Instructions/Note:
AF-HDMW225303-WGN01LF-2302W2	2/14/23	1030	G	W		N	N	X	3	

Special Instructions/QC Requirements DOD QSM project.
Prelim data (Level 1or2)=see TAT above. DoD Stage
4 report standard TAT. AECOM EQuIS EDD.

Deliverable Requested I, II, III, IV Other (specify)

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

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

Method of Shipment:

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

	Date/Time		Company		Received by:	Date/Time		Company
Relinquished by: Olivia Shurly	2/14/23	1350	AECOM		Received by: James Mason	2/14/23	1350	AECOM
Relinquished by: James Mason	2/15/23	1400	AECOM		Received by:	2/16/23	1100	
Relinquished by:			Company		Received by:			Company

Custody Seals Intact: △ Yes △ No
Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.0 / 5.0

Ver 01/16/2019