

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

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu HI 96813

Generated 2/23/2023 11:06 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123620-1

Eurofins Seattle

Job Notes

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

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

Authorization



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

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Definitions/Glossary

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

Job ID: 580-123620-1

Qualifiers

GC Semi VOA

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

Glossary

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

CASE NARRATIVE
Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-123620-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/15/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 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-RHMW06-WGN01LF-2302W2 (580-123620-1) and AF-RHMW04-WGN01LF-2302W2 (580-123620-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/20/2023 and 02/21/2023.

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

Detection Summary

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

Job ID: 580-123620-1

Client Sample ID: AF-RHMW06-WGN01LF-2302W2

Lab Sample ID: 580-123620-1

No Detections.

Client Sample ID: AF-RHMW04-WGN01LF-2302W2

Lab Sample ID: 580-123620-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 580-123620-1

Client Sample ID: AF-RHMW06-WGN01LF-2302W2

Lab Sample ID: 580-123620-1

Date Collected: 02/13/23 12:00

Matrix: Water

Date Received: 02/15/23 11:00

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

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 1.1 | mg/L | | | 02/20/23 23:49 | 1 |

Client Sample ID: AF-RHMW04-WGN01LF-2302W2

Lab Sample ID: 580-123620-2

Date Collected: 02/13/23 10:30

Matrix: Water

Date Received: 02/15/23 11:00

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

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M | 5.0 | 1.1 | mg/L | | | 02/21/23 00:58 | 1 |

Default Detection Limits

Client: AECOM

Job ID: 580-123620-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

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

QC Sample Results

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

Job ID: 580-123620-1

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: 580-123620-1 MS
Matrix: Water
Analysis Batch: 764187

Client Sample ID: AF-RHMW06-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 | 20.0 | 24.4 | | mg/L | | 122 | 50 - 150 |

Lab Sample ID: 580-123620-1 MSD
Matrix: Water
Analysis Batch: 764187

Client Sample ID: AF-RHMW06-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 | 20.0 | 25.4 | | mg/L | | 127 | 50 - 150 | 4 | 50 |

QC Association Summary

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

Job ID: 580-123620-1

GC Semi VOA

Analysis Batch: 764187

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|-----------|------------|
| 580-123620-1 | AF-RHMW06-WGN01LF-2302W2 | Total/NA | Water | 8015C GLY | |
| 580-123620-2 | AF-RHMW04-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 | |
| 580-123620-1 MS | AF-RHMW06-WGN01LF-2302W2 | Total/NA | Water | 8015C GLY | |
| 580-123620-1 MSD | AF-RHMW06-WGN01LF-2302W2 | Total/NA | Water | 8015C GLY | |

Lab Chronicle

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

Job ID: 580-123620-1

Client Sample ID: AF-RHMW06-WGN01LF-2302W2

Lab Sample ID: 580-123620-1

Date Collected: 02/13/23 12:00

Matrix: Water

Date Received: 02/15/23 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 | 02/20/23 23:49 |

Client Sample ID: AF-RHMW04-WGN01LF-2302W2

Lab Sample ID: 580-123620-2

Date Collected: 02/13/23 10:30

Matrix: Water

Date Received: 02/15/23 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 00:58 |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 580-123620-1

Laboratory: Eurofins Savannah

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

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

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

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

Method Summary

Client: AECOM

Job ID: 580-123620-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: AECOM

Job ID: 580-123620-1

Project/Site: Red Hill - AFFF Assessment Sampling

| <u>Lab Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Collected</u> | <u>Received</u> |
|----------------------|--------------------------|---------------|------------------|-----------------|
| 580-123620-1 | AF-RHMW06-WGN01LF-2302W2 | Water | 02/13/23 12:00 | 02/15/23 11:00 |
| 580-123620-2 | AF-RHMW04-WGN01LF-2302W2 | Water | 02/13/23 10:30 | 02/15/23 11:00 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 764187Lab 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 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1

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 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1

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: 580-123620-2 Client Sample ID: AF-RHMW04-WGN01LF-2302W2

Date Analyzed: 02/21/23 00:58 Lab File ID: GB20025.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 |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1

SDG No.: _____

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|--------------------------|----------|-----------|-------------------------|----------------------|----------------|---------------------|---------------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| SG_Gly_CAL_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 |
| 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



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

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

Description:

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

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration | |
|-------------------------------------|------------|------------|-----------------------|---------------|------|
| 2-butoxyethanol | 111-76-2 | 99.6 | 311.9.2P | 1986 ± 100 | mg/L |
| diethylene glycol butyl ether | 112-34-5 | 99.8 | 2323.7.2P | 2008 ± 100 | mg/L |
| propyl cellosolve | 2807-30-9 | 99.9 | 1570.7.2P | 1980 ± 100 | mg/L |
| dipropylene glycol monomethyl ether | 34590-94-8 | 99.7 | 2333.7.2P | 2014 ± 100 | mg/L |
| ethylene glycol | 107-21-1 | 100 | 307.201.1P | 1968 ± 99 | mg/L |
| di(ethylene glycol) | 111-46-6 | 99.5 | 309.7.2P | 1994 ± 100 | mg/L |
| tri(ethylene glycol) | 112-27-6 | 99.9 | 310.7.2.1.1P | 1974 ± 110 | mg/L |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 98 | 2334.286.1P | 1991 ± 110 | mg/L |
| 1,2-propanediol | 57-55-6 | 99.5 | 306.9.3P | 1998 ± 100 | mg/L |
| tetraethylene glycol | 112-60-7 | 98 | 3754.7.1P | 3959 ± 200 | mg/L |

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

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

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

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

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

Method of Preparation:

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

Packaging and Storage:

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

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

Glassware Calibration:

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

Weights and Balance Calibration:

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

Homogeneity:

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

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

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

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

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

Manufactured By:

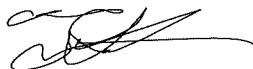


Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

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

Certificate of Analysis

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

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

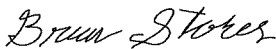
Expiration Information:

The stability of this product is based upon rigorous short term and long term testing of the solution for the certified value. These tests include the effect of temperature and packaging on the product. Studies on the short term instability have determined no contribution to instability as observed on the concentration under controlled transportation conditions. This standard is guaranteed until 2-May-2024

Quality Standard Documentation:

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

Manufactured By:



Brian Stokes

3 -May-2022

Production Chemist I

Certified By:



Tyler Sherman

14 -Jun-2022

Quality Control Chemist I

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

Released By:



Susan Mathews

14 -Jun-2022

Quality Control Team Lead

Reagent

SG_GLY_ISTD_00107

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard

Lot Number: 0006720623

Product Number: CUS-6046

Lot Issue Date: 15-Dec-2022

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

Expiration Date: 31-Jan-2025

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

Matrix: methanol (methyl alcohol)

Description:

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

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/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.



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

ISO 17034 Cert
No. AR-1936

Reagent

SG_GlyICV_00051



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

| Catalog No. | Lot No. | Storage | Solvent | Date Received | Exp. Date |
|------------------|---------|----------|--------------|---------------|------------|
| G34-120070-04-SS | 454407 | ≤ -10 °C | P/T Methanol | | 1-Jul-2023 |

Description:

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

Container:

1 ml Ampule, Amber Glass

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this Certified Reference Material (CRM). This CRM has been confirmed by GC/MS, GC, HPLC, UPLC/HRAM-MS, UV/VIS, Enzymatic, and/or wet chemistry techniques using internally developed method(s) against independent source(s). The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. The purity of neat materials not traceable to an ISO 17034:2016 accredited Reference Material Provider is traceable to internal analysis by GC, GC/MS, HPLC, Enzymatic, or wet chemistry techniques and compared to a National Metrological Institute such as NIST where feasible.

| Compound | CAS No. | Purity (%) | Neat Material Lot No. | Concentration |
|-------------------------------------|------------|------------|-----------------------|-----------------|
| 2-butoxyethanol | 111-76-2 | 99.5 | 311.7.1.1S | 1994 ± 100 mg/L |
| diethylene glycol butyl ether | 112-34-5 | 99.8 | 2323.7.2.1S | 1992 ± 100 mg/L |
| 2-propoxyethanol | 2807-30-9 | 99.5 | 1570.7.1S | 1998 ± 110 mg/L |
| dipropylene glycol monomethyl ether | 34590-94-8 | 99.7 | 2333.7.2.1S | 1998 ± 100 mg/L |
| ethylene glycol | 107-21-1 | 100 | 307.201.1.1S | 2016 ± 100 mg/L |
| di(ethylene glycol) | 111-46-6 | 99.9 | 309.7.1.1S | 1998 ± 100 mg/L |
| tri(ethylene glycol) | 112-27-6 | 99.9 | 310.7.3.1S | 2010 ± 100 mg/L |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 98 | 2334.286.1.1S | 2003 ± 110 mg/L |
| 1,2-propanediol | 57-55-6 | 99.6 | 306.370.1.1S | 2004 ± 110 mg/L |
| tetraethylene glycol | 112-60-7 | 98 | 3754.7.1.1S | 4049 ± 200 mg/L |

Intended Uses:

This CRM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

Certificate of Analysis

Page 2 of 2

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

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

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

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

Method of Preparation:

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

Packaging and Storage:

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

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

Glassware Calibration:

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

Weights and Balance Calibration:

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

Homogeneity:

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

Hazardous Information:

Refer to MSDS.

Calculation of Uncertainty:

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

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

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

Manufactured By:



Jared Ball

1 -Jul-2021

Production Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

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

Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1-Jul-2023

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

Expiration Information:

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

Quality Standard Documentation:

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

Manufactured By:



Jared Ball
1-Jul-2021

Production Chemist I

Certified By:



Claire Desrochers
7-Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews
8-Jul-2021

Quality Control Team Lead

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

Method 8015C - DAI Glycols

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

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GB20023.D
 Lab ID: 580-123620-1 MS Client ID: AF-RHMW06-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 | 24.4 | 122 | 50-150 | |

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

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GB20024.D
 Lab ID: 580-123620-1 MSD Client ID: AF-RHMW06-WGN01LF-2302W2 MSD

| COMPOUND | SPIKE ADDED (mg/L) | MSD CONCENTRATION (mg/L) | MSD % REC | % RPD | QC LIMITS | | # |
|----------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 25.4 | 127 | 4 | 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.: 580-123620-1
 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-RHMW06-WGN01LF-2302W2 | 580-123620-1 | 02/20/2023 23:49 | |
| AF-RHMW06-WGN01LF-2302W2 MS | 580-123620-1 MS | 02/21/2023 00:12 | |
| AF-RHMW06-WGN01LF-2302W2 MSD | 580-123620-1 MSD | 02/21/2023 00:35 | |
| AF-RHMW04-WGN01LF-2302W2 | 580-123620-2 | 02/21/2023 00:58 | |

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

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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 | | | | |
| 580-123620-1 | AF-RHMW06-WGN01LF-2 302W2 | 4495948 | 4.47 | | | | |
| 580-123620-1 MS | AF-RHMW06-WGN01LF-2 302W2 MS | 4018938 | 4.47 | | | | |
| 580-123620-1 MSD | AF-RHMW06-WGN01LF-2 302W2 MSD | 3905395 | 4.47 | | | | |
| 580-123620-2 | AF-RHMW04-WGN01LF-2 302W2 | 4881878 | 4.48 | | | | |
| CCV 680-764187/30 | | 5324132 | 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.: 580-123620-1
 SDG No.: _____
 Client Sample ID: AF-RHMW06-WGN01LF-2302W2 Lab Sample ID: 580-123620-1
 Matrix: Water Lab File ID: GB20022.D
 Analysis Method: 8015C GLY Date Collected: 02/13/2023 12:00
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 02/20/2023 23:49
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 764187 Units: mg/L

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

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20022.D
 Lims ID: 580-123620-C-1
 Client ID: AF-RHMW06-WGN01LF-2302W2
 Sample Type: Client
 Inject. Date: 20-Feb-2023 23:49:03 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083951-015
 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 16:20:40

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

* 4 n-Heptyl Alcohol
 4.473 4.479 -0.006 4495948 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00107 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20022.D

Injection Date: 20-Feb-2023 23:49:03

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-123620-C-1

Lab Sample ID: 680-123620-1

Worklist Smp#: 15

Client ID: AF-RHMW06-WGN01LF-2302W2

Injection Vol: 1.0 ul

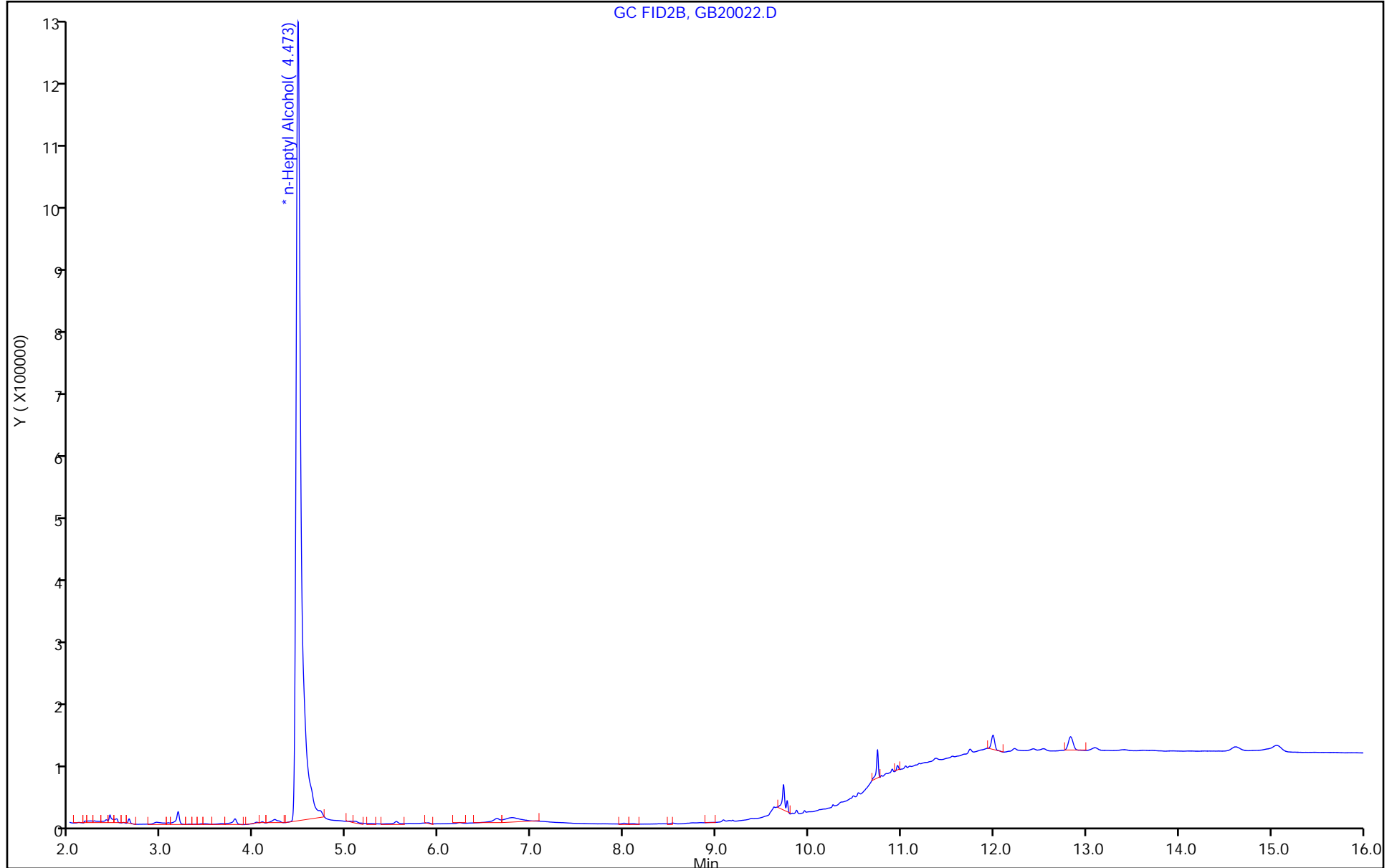
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 SDG No.: _____
 Client Sample ID: AF-RHMW04-WGN01LF-2302W2 Lab Sample ID: 580-123620-2
 Matrix: Water Lab File ID: GB20025.D
 Analysis Method: 8015C GLY Date Collected: 02/13/2023 10:30
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 02/21/2023 00:58
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 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 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20025.D
 Lims ID: 580-123620-C-2
 Client ID: AF-RHMW04-WGN01LF-2302W2
 Sample Type: Client
 Inject. Date: 21-Feb-2023 00:58:59 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083951-018
 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 16:20:48

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

* 4 n-Heptyl Alcohol
 4.475 4.479 -0.004 4881878 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\GB20025.D

Injection Date: 21-Feb-2023 00:58:59

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-123620-C-2

Lab Sample ID: 680-123620-2

Worklist Smp#: 18

Client ID: AF-RHMW04-WGN01LF-2302W2

Injection Vol: 1.0 ul

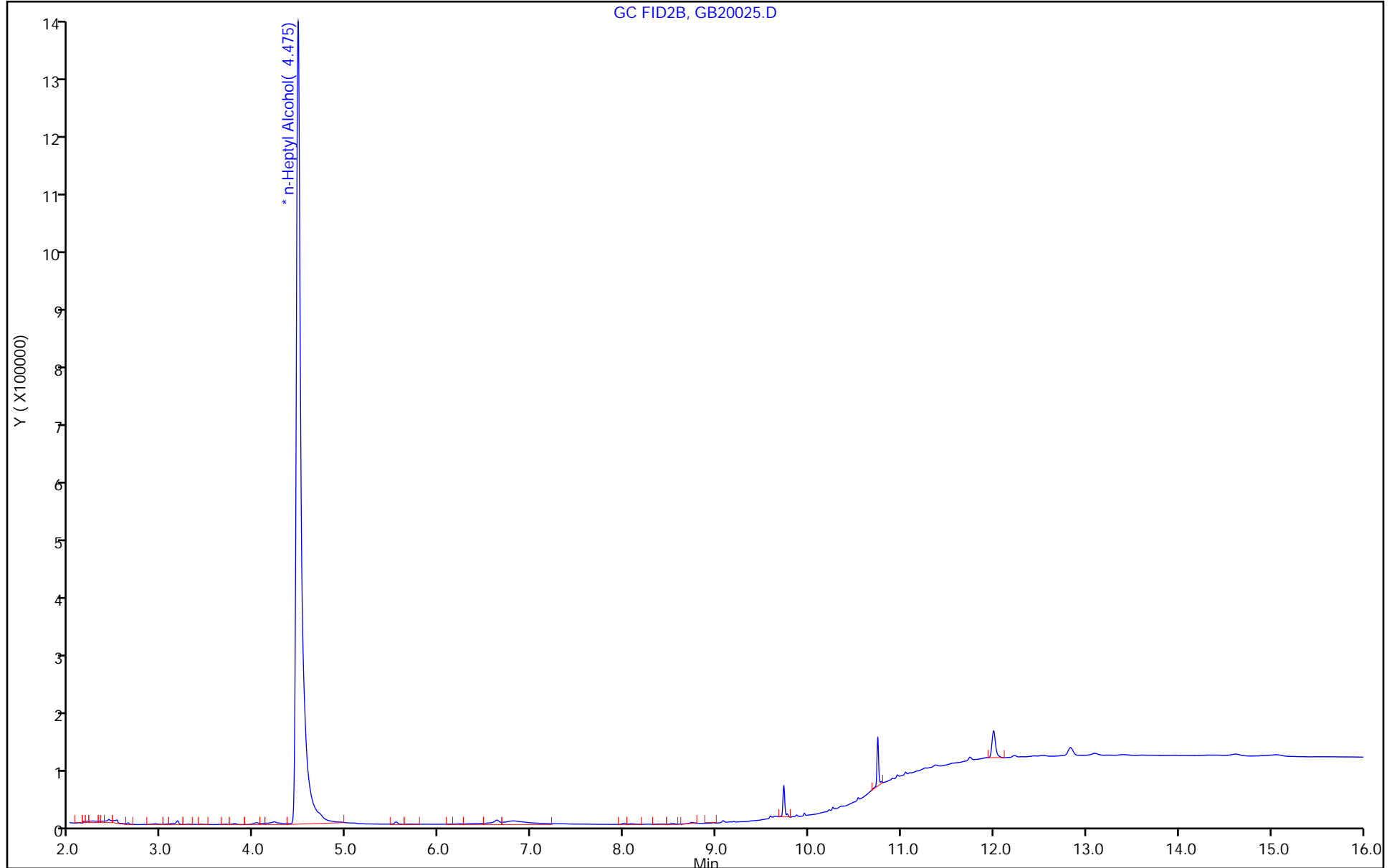
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



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

Lab Name: Eurofins Savannah Job No.: 580-123620-1 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 | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD /RSE | # | MAX %RSD /RSE | R^2 OR COD | # | MIN R^2 OR COD |
|---------------------------------|------------------|------------------|--------|--------|-------|------------|-------------|------------|-----------|---|---------|-----------|------|---------------|------------|--------|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Ethanol, 2-propoxy | 0.9746 0.5907 | 0.7069 0.5341 | 0.6682 | 0.5567 | +++++ | Lin2 | 0.852 1 | 0.548 0 | | | | | | 0.9960 | | 0.9900 | |
| 4-Hydroxy-4-methyl-2-pentanone | +++++ | 0.6510 0.4922 | 0.6050 | 0.4987 | +++++ | Ave | | 0.562 0 | | | 12.1 | | 20.0 | | | | |
| 2-Butoxyethanol | 1.0816 0.6374 | 0.7913 0.5950 | 0.7506 | 0.6232 | +++++ | Lin2 | 0.954 4 | 0.607 7 | | | | | | 0.9970 | | 0.9900 | |
| Dipropylene Glycol Methyl Ether | 0.0778 0.0442 | 0.0518 0.0395 | 0.0488 | 0.0396 | +++++ | Lin2 | 0.075 1 | 0.039 3 | | | | | | 0.9930 | | 0.9900 | |
| Propylene glycol | 0.3312 0.1592 | 0.2476 0.1694 | 0.2248 | 0.1861 | +++++ | Lin1 | 0.396 5 | 0.162 1 | | | | | | 0.9970 | | 0.9900 | |
| Ethylene glycol | 0.6921 0.3082 | 0.5040 0.3194 | 0.4481 | 0.3715 | +++++ | Lin | 1.090 3 | 0.303 5 | | | | | | 0.9990 | | 0.9900 | |
| 2-(2-Butoxyethoxy)ethanol | 0.9211 0.4637 | 0.6126 0.4310 | 0.5503 | 0.4325 | +++++ | Lin2 | 0.988 1 | 0.424 9 | | | | | | 0.9950 | | 0.9900 | |
| 2,2'-Oxybisethanol | 0.4049 0.2034 | 0.3388 0.2187 | 0.3003 | 0.2458 | +++++ | Lin | 0.642 9 | 0.206 0 | | | | | | 0.9970 | | 0.9900 | |
| Triethylene Glycol | 0.3673 0.1956 | 0.3256 0.2139 | 0.2892 | 0.2343 | +++++ | Lin | 0.565 6 | 0.200 8 | | | | | | 0.9950 | | 0.9900 | |
| Tetraethylene Glycol | 0.3979 +++++ | 0.3518 +++++ | 0.3106 | 0.2450 | +++++ | Qua | 0.196 7 | 0.361 8 | -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.

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

Lab Name: Eurofins Savannah Job No.: 580-123620-1 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 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| | | | LVL 6 | LVL 7 | | | | LVL 6 | LVL 7 | | | |
| Ethanol, 2-propoxy | nHPA | Lin2 | 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 |

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

Lab Name: Eurofins Savannah Job No.: 580-123620-1 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 | 3.996 | 3.996 | 0.000 | 5141113 | 100.0 | 96.3 | M |
| * 4 n-Heptyl Alcohol | 4.480 | 4.479 | 0.001 | 4320326 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | 5.420 | 5.424 | -0.004 | 341008 | 100.0 | 98.4 | M |
| 6 Propylene glycol | 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

Euofins 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

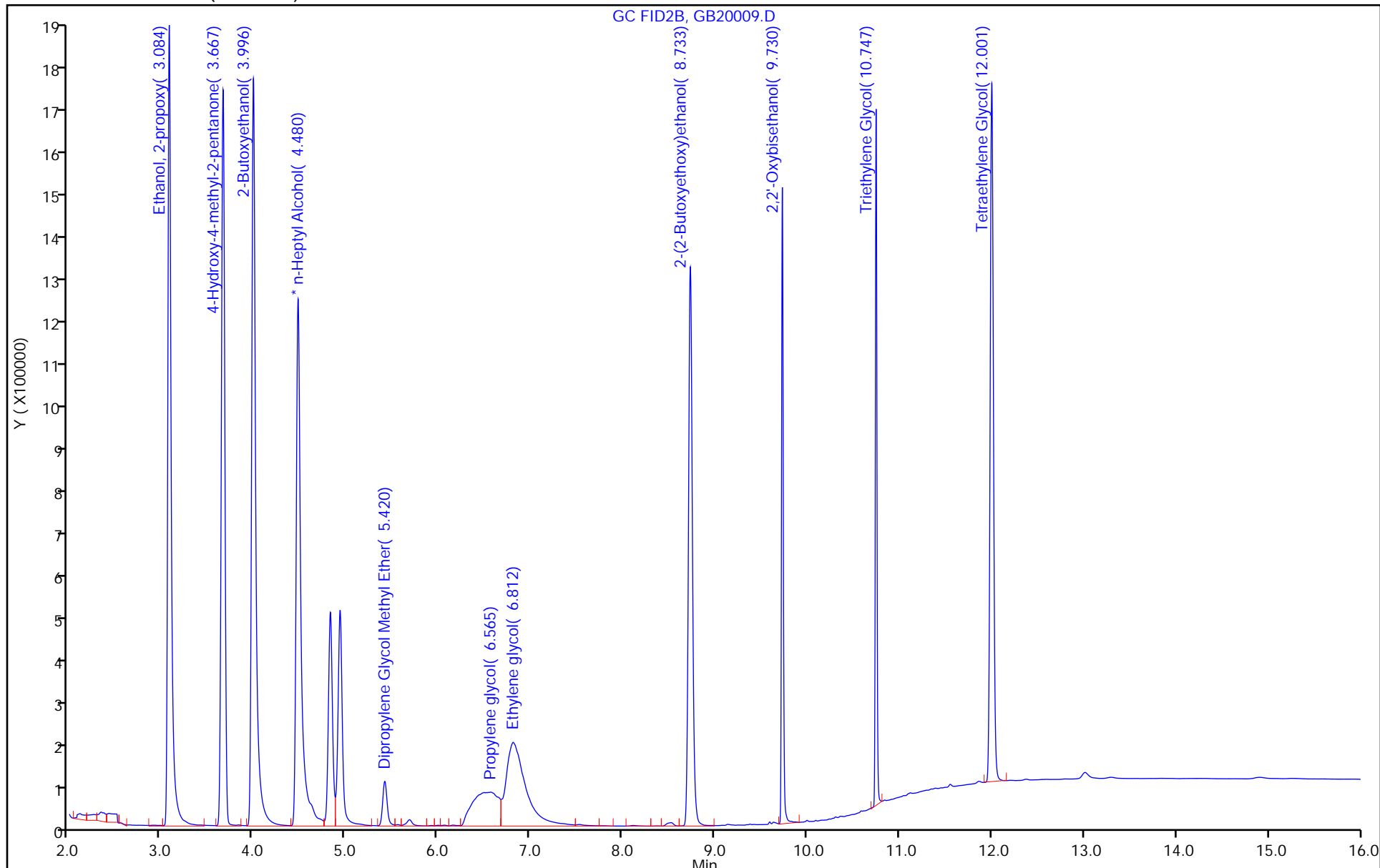
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

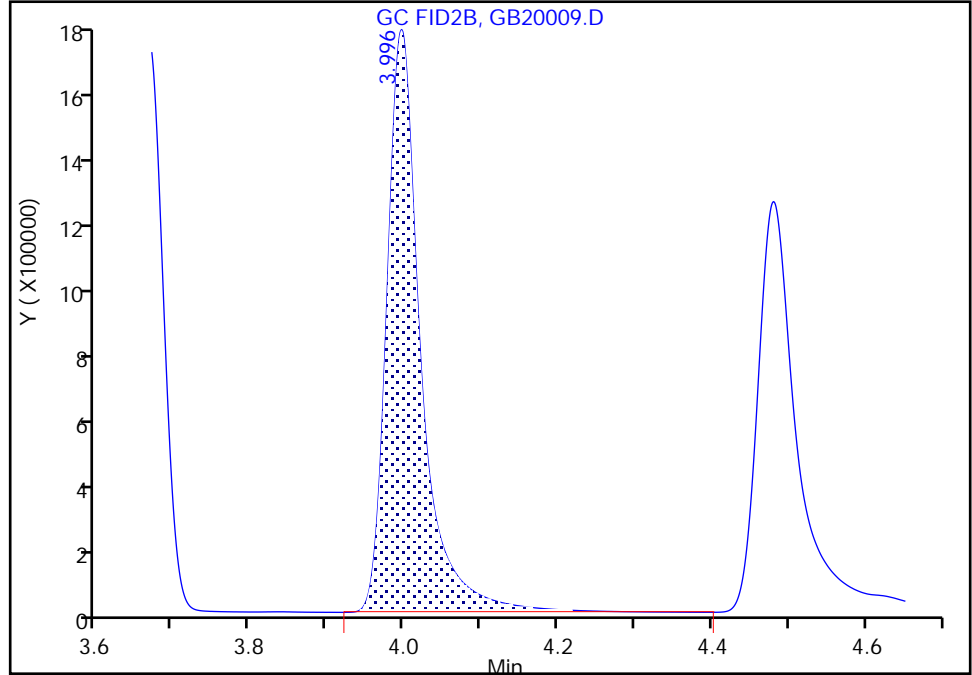
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

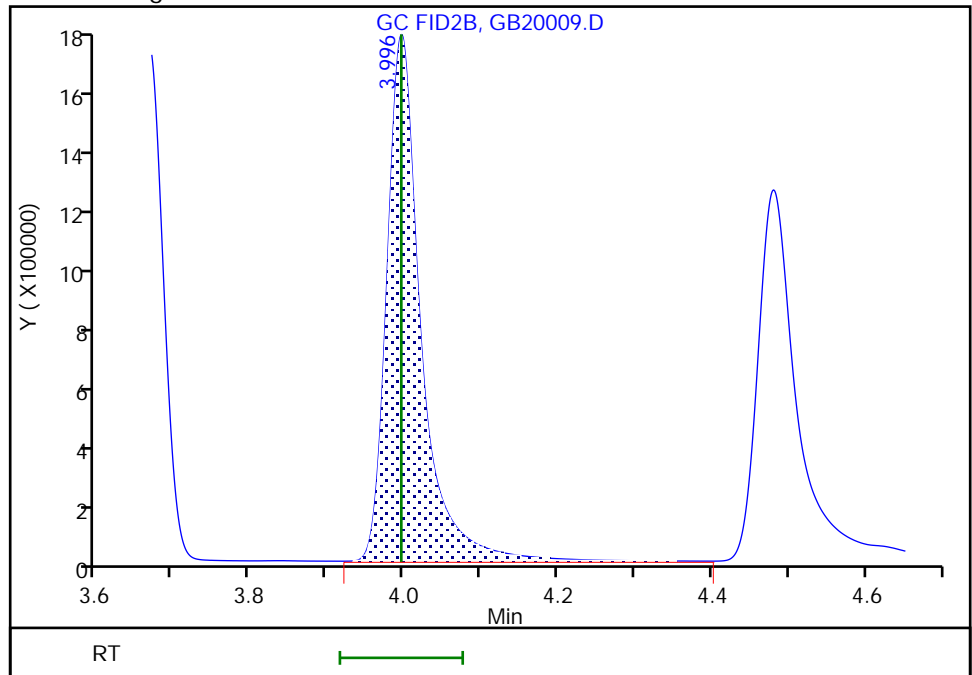
RT: 4.00
Area: 5137030
Amount: 95.142166
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Baseline Smoothing

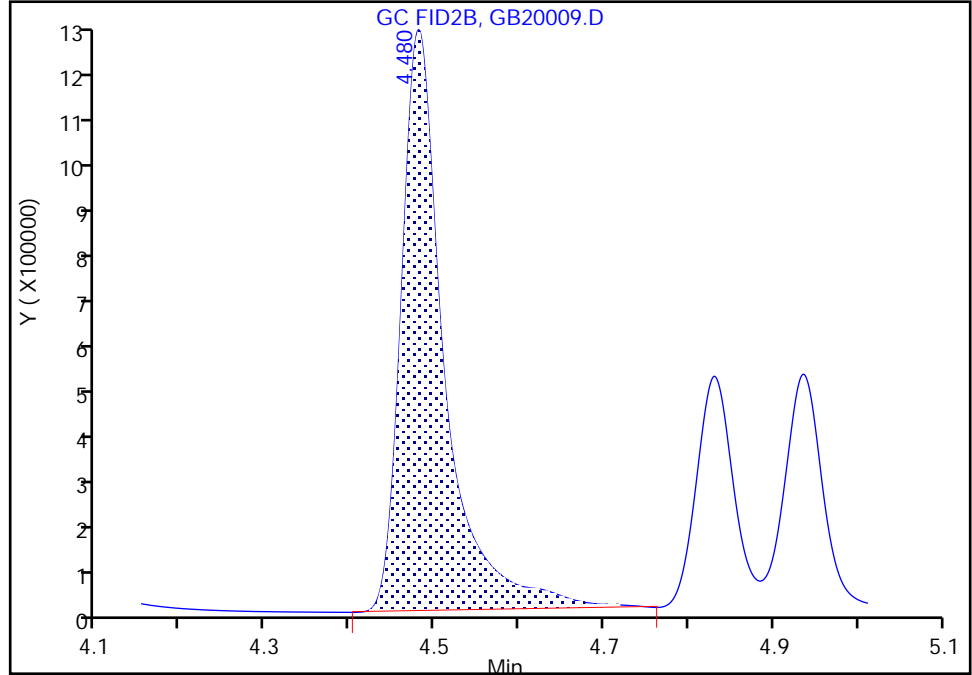
Eurofins Savannah

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

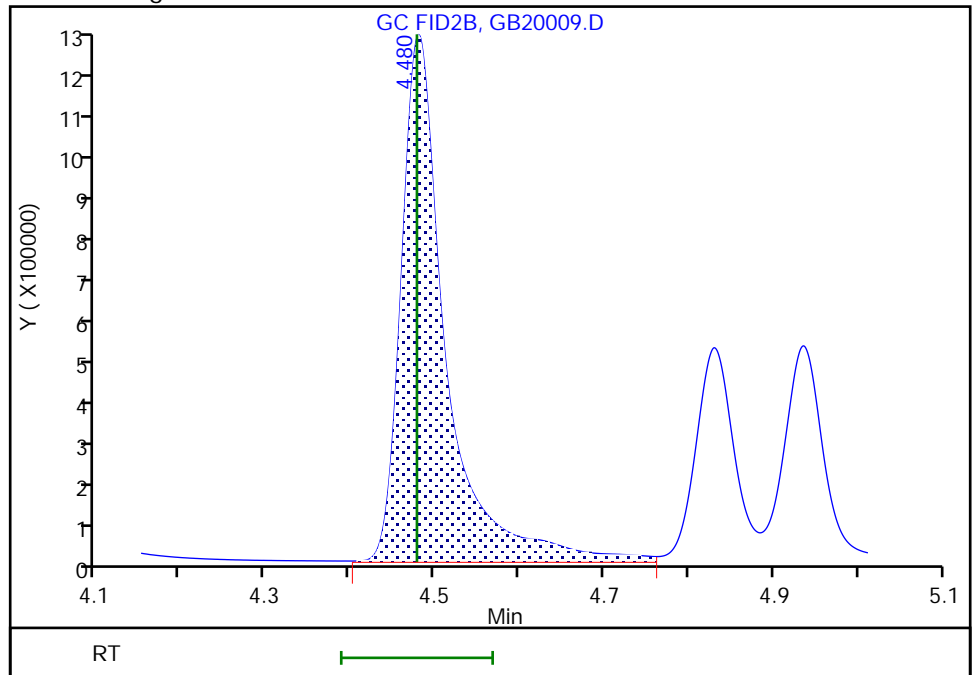
RT: 4.48
Area: 4205446
Amount: 50.000000
Amount Units: ug/ml

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

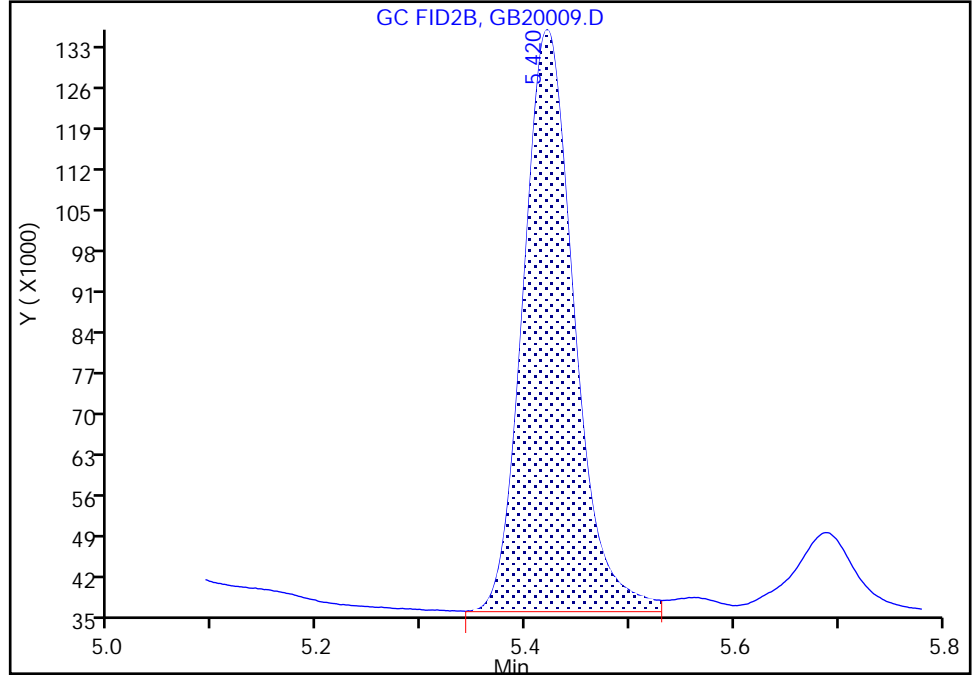
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

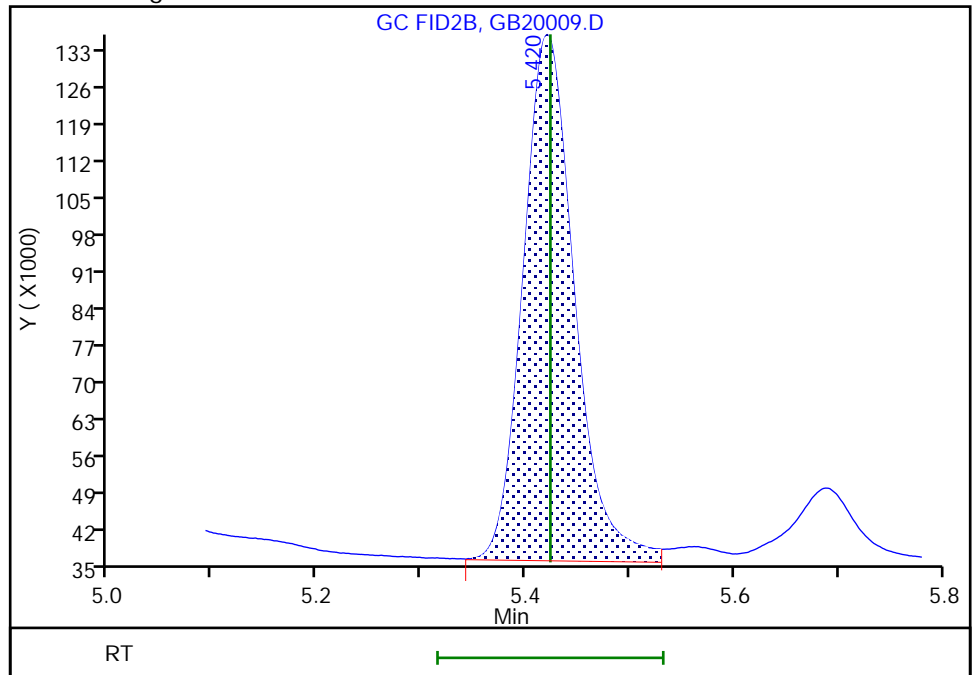
RT: 5.42
Area: 337855
Amount: 93.857135
Amount Units: ug/ml

Processing Integration Results



RT: 5.42
Area: 341008
Amount: 98.439742
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

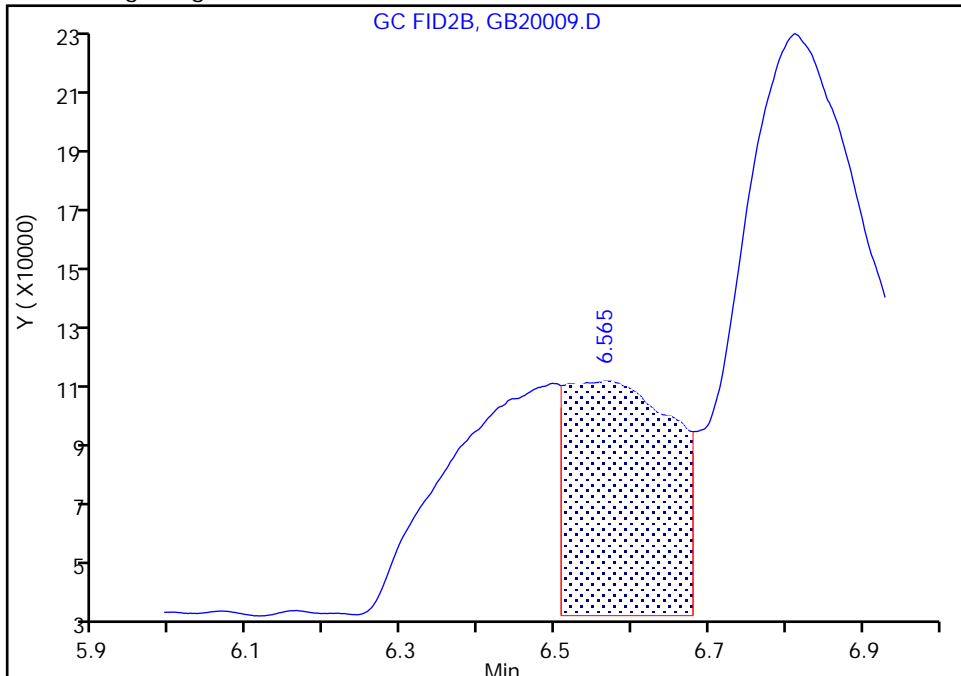
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20009.D
Injection Date: 20-Feb-2023 18:45:13 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

6 Propylene glycol, CAS: 57-55-6

Signal: 1

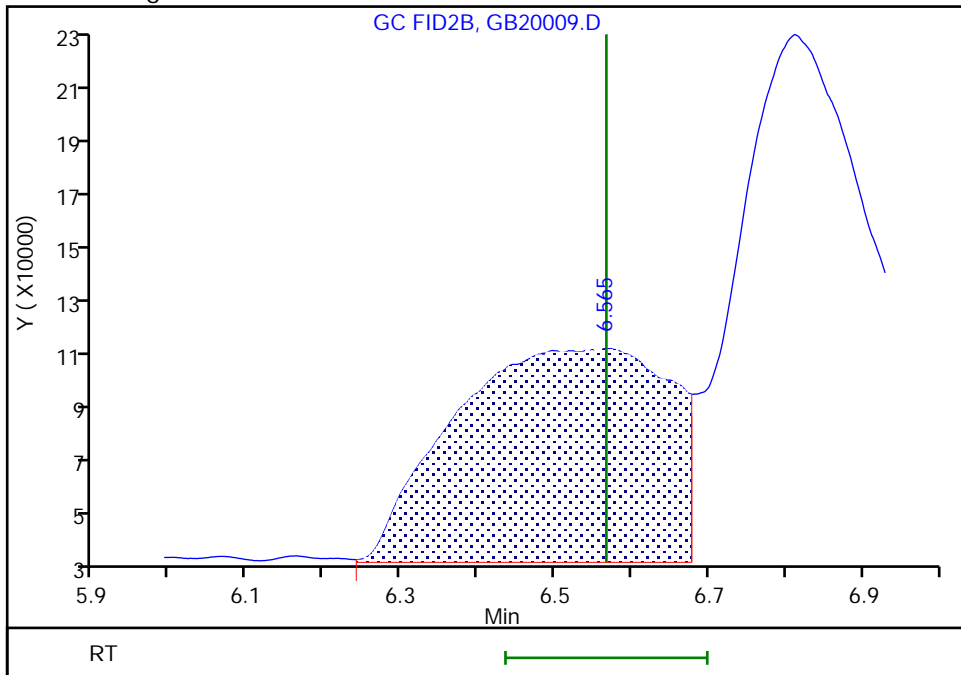
RT: 6.57
Area: 723408
Amount: 42.295333
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



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 | 4.475 | 4.479 | -0.004 | 3484458 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | 5.428 | 5.424 | 0.004 | 246167 | 80.0 | 87.9 | M |
| 6 Propylene glycol | 6.579 | 6.567 | 0.012 | 887793 | 80.0 | 76.2 | M |
| 7 Ethylene glycol | 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

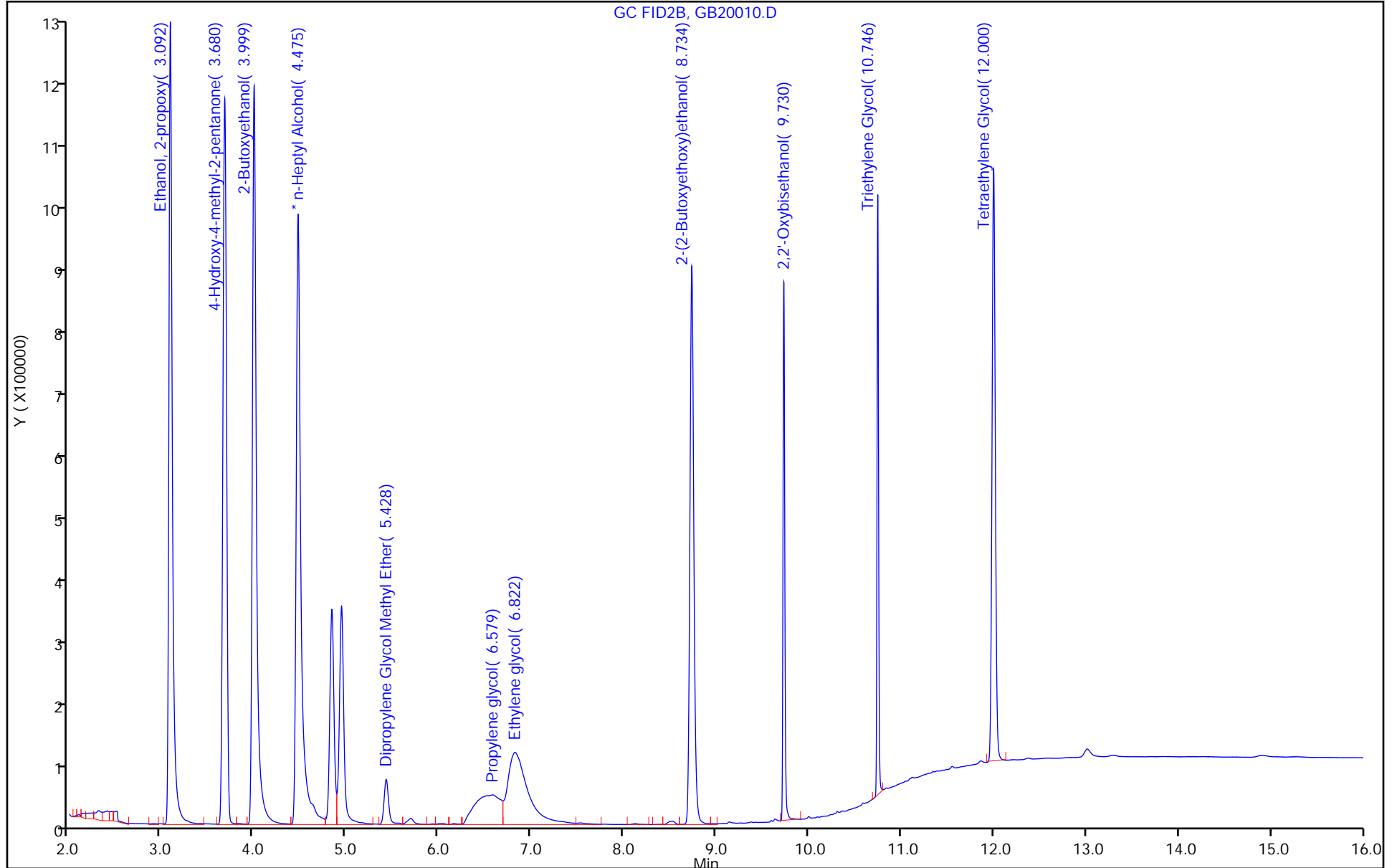
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



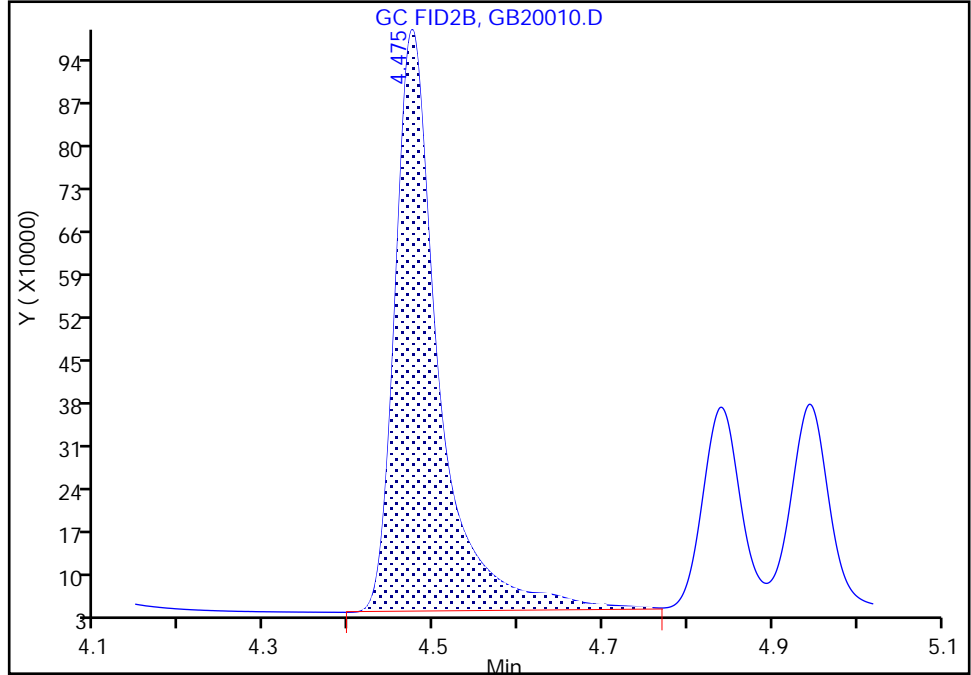
Euofins Savannah

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

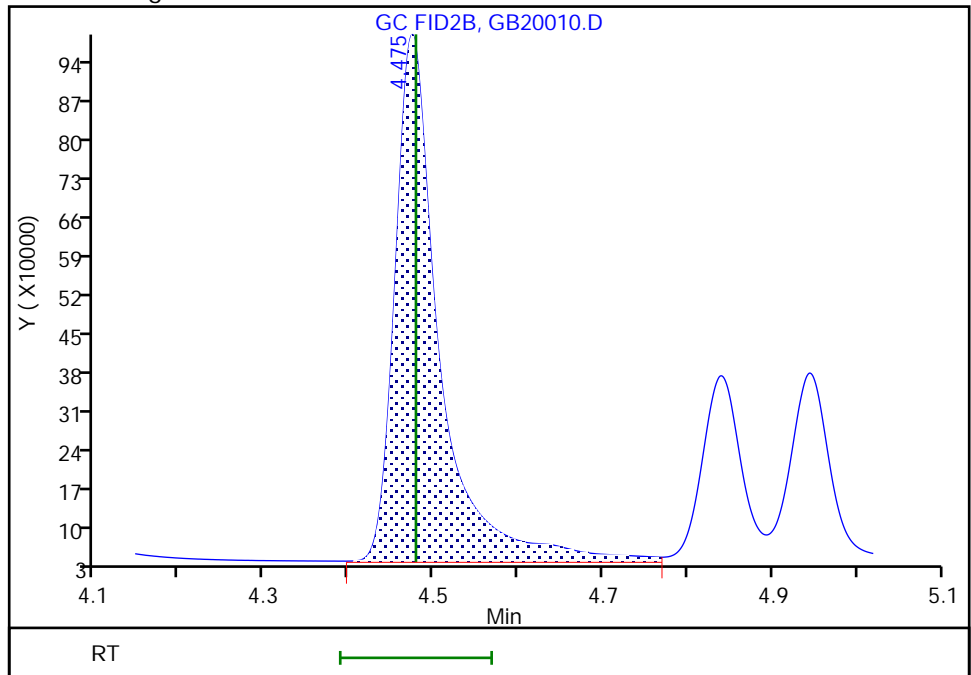
Processing Integration Results

RT: 4.47
Area: 3403381
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

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



Euofins Savannah

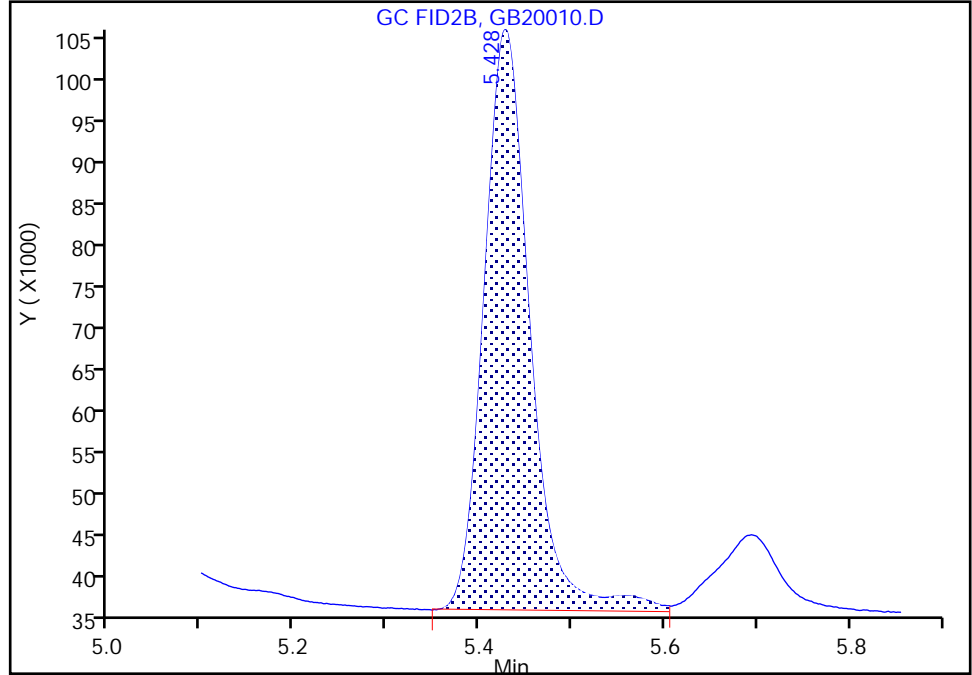
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

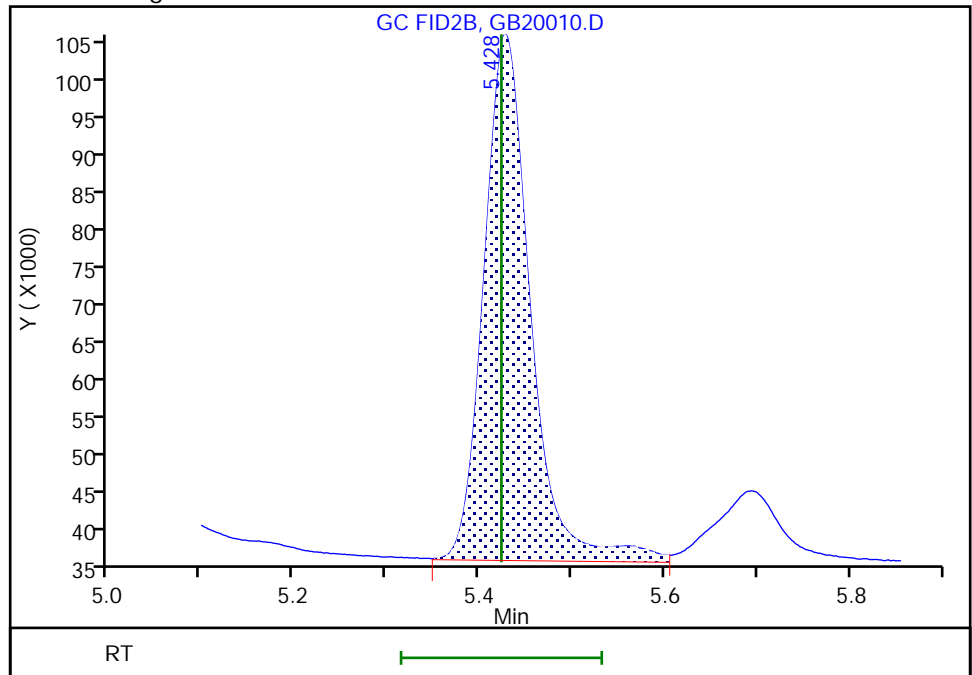
RT: 5.43
Area: 243064
Amount: 83.843486
Amount Units: ug/ml

Processing Integration Results



RT: 5.43
Area: 246167
Amount: 87.907851
Amount Units: ug/ml

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Eurofins Savannah

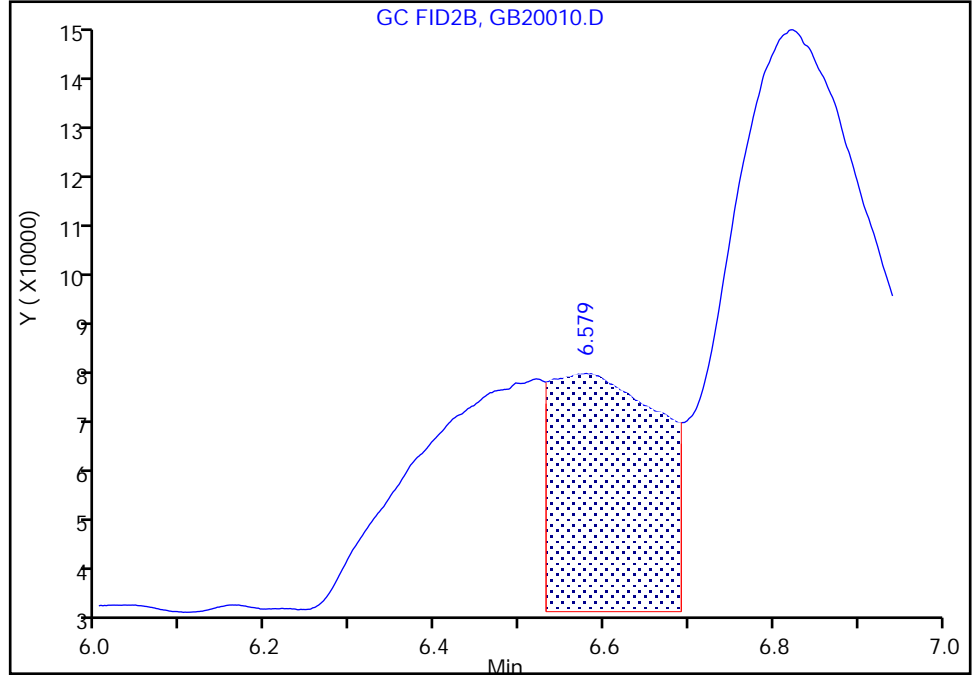
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

6 Propylene glycol, CAS: 57-55-6

Signal: 1

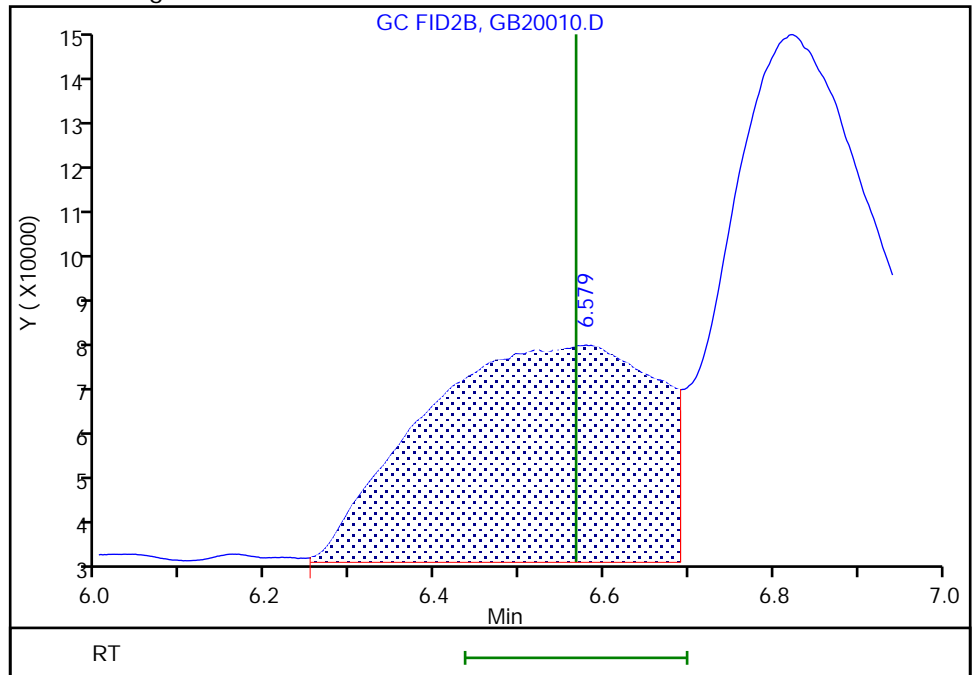
RT: 6.58
Area: 407702
Amount: 31.371932
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Eurofins Savannah

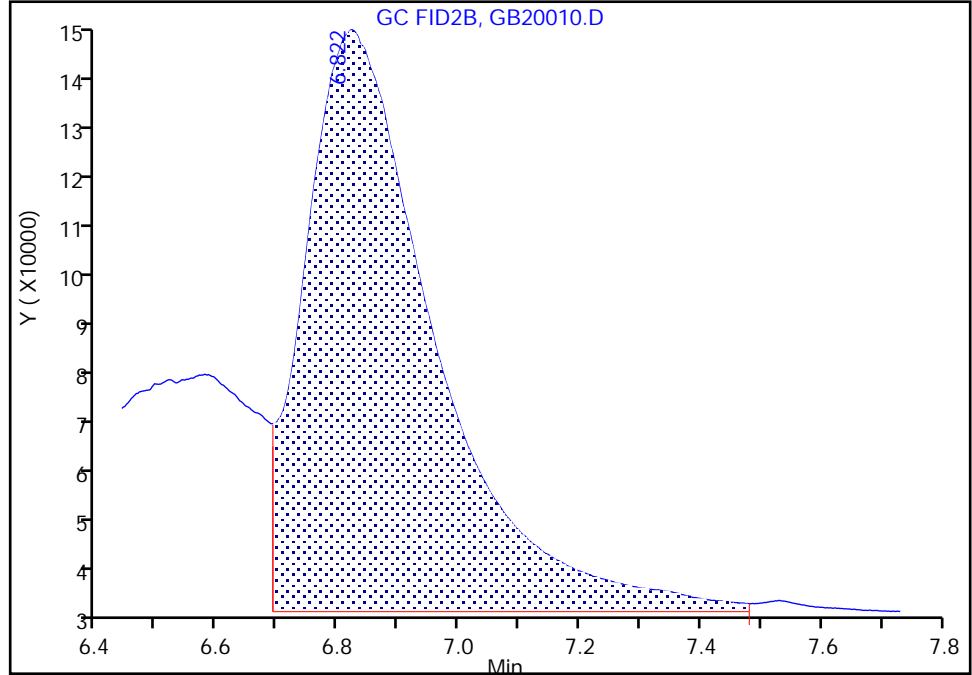
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20010.D
Injection Date: 20-Feb-2023 19:08:40 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

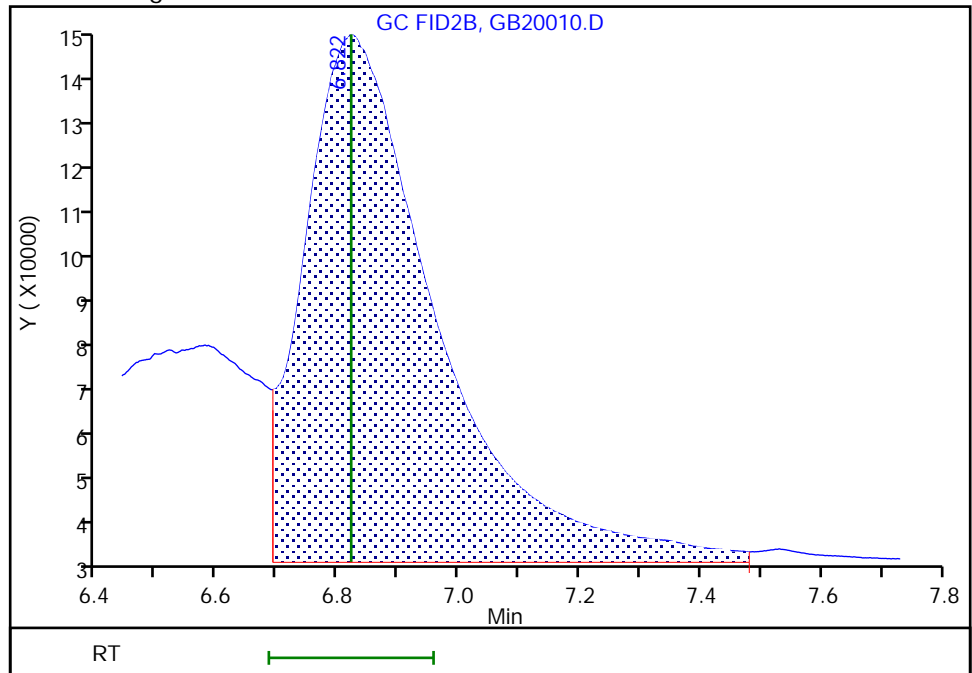
RT: 6.82
Area: 1700738
Amount: 70.749963
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



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 | | | | | | |
| 3.998 | 3.996 | 0.002 | 3401759 | 50.0 | 54.8 | M |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.477 | 4.479 | -0.002 | 4963591 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 5.425 | 5.424 | 0.001 | 238085 | 50.0 | 59.1 | M |
| 6 Propylene glycol | | | | | | |
| 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

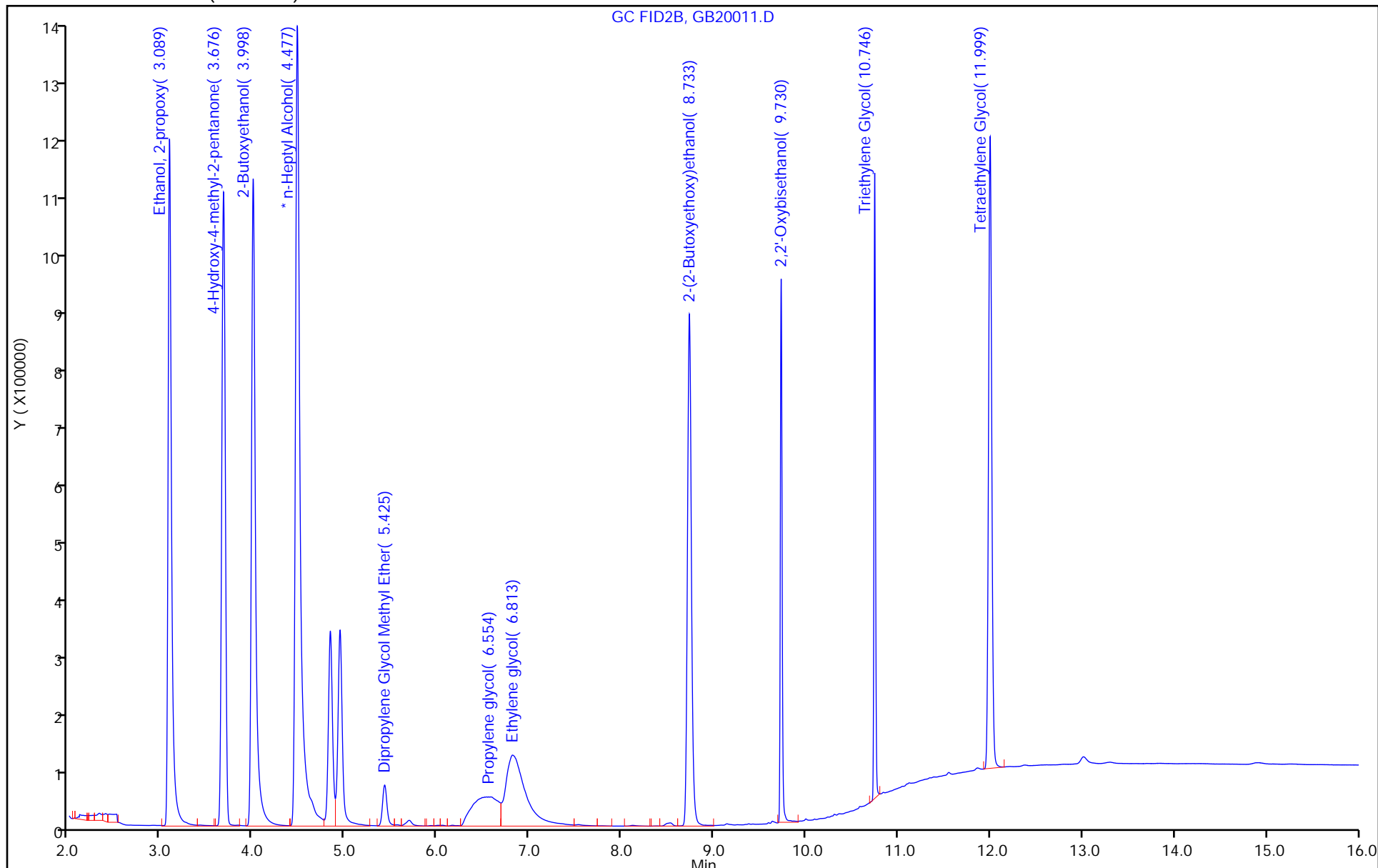
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

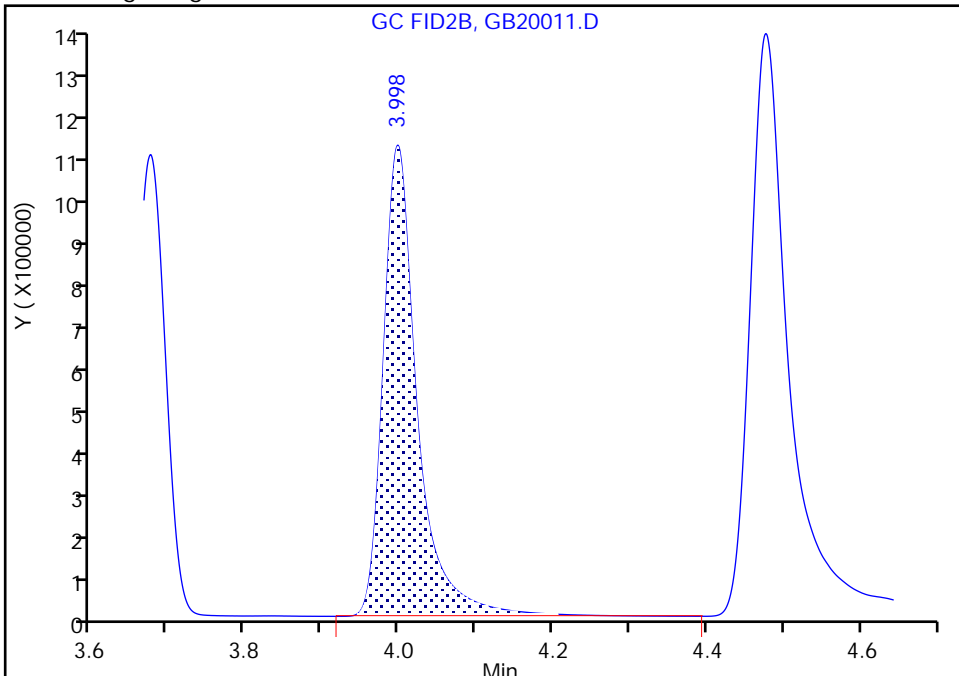
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date: 20-Feb-2023 19:32:03 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

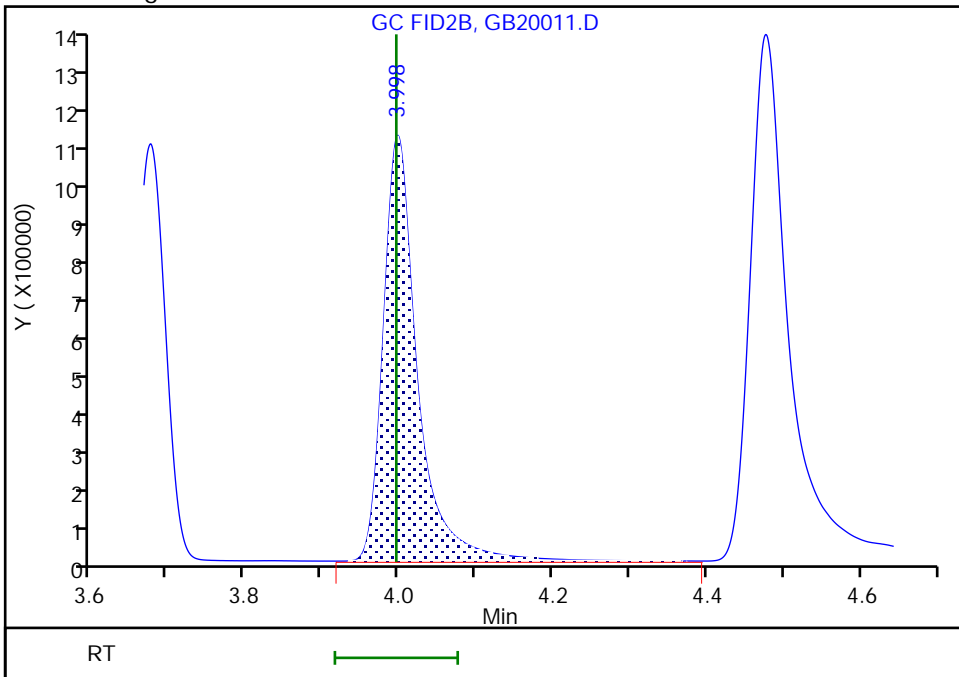
RT: 4.00
Area: 3391309
Amount: 54.420216
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



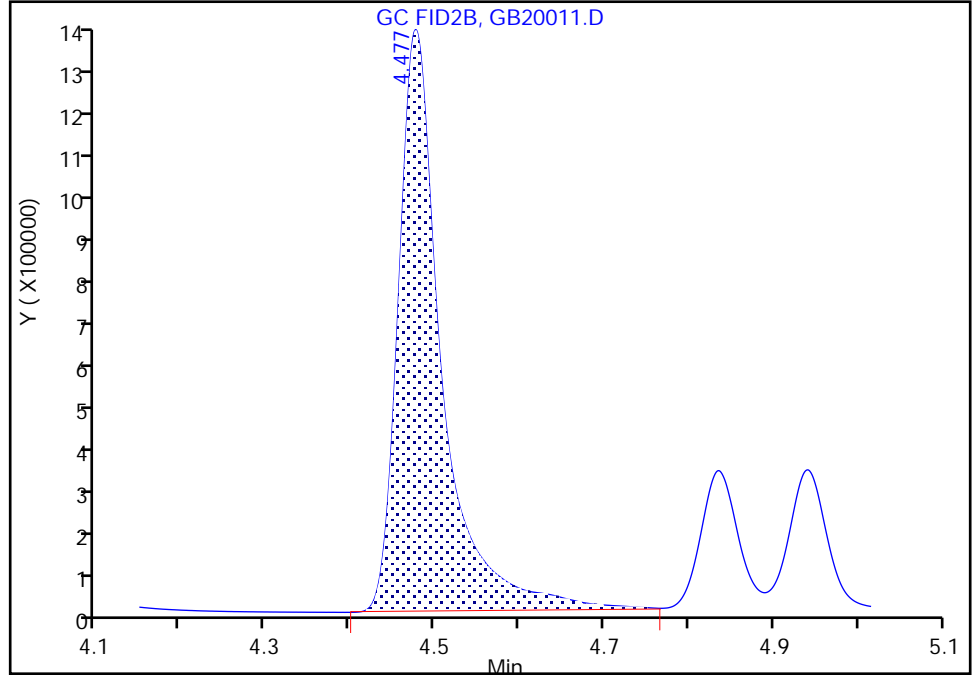
Eurofins Savannah

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

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

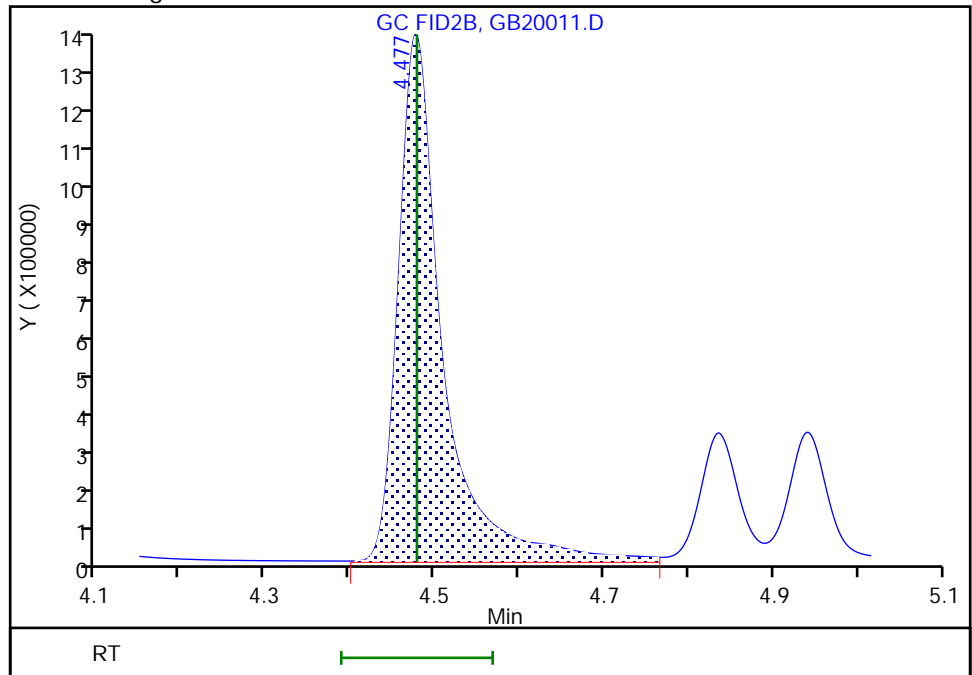
RT: 4.48
Area: 4850022
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 4.48
Area: 4963591
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Eurofins Savannah

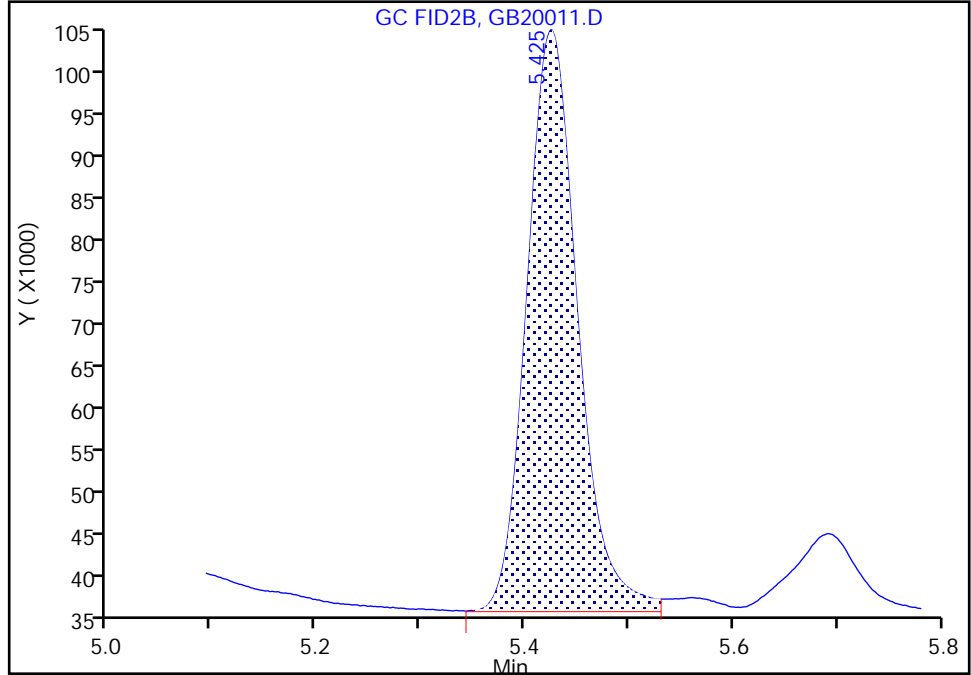
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date: 20-Feb-2023 19:32:03 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

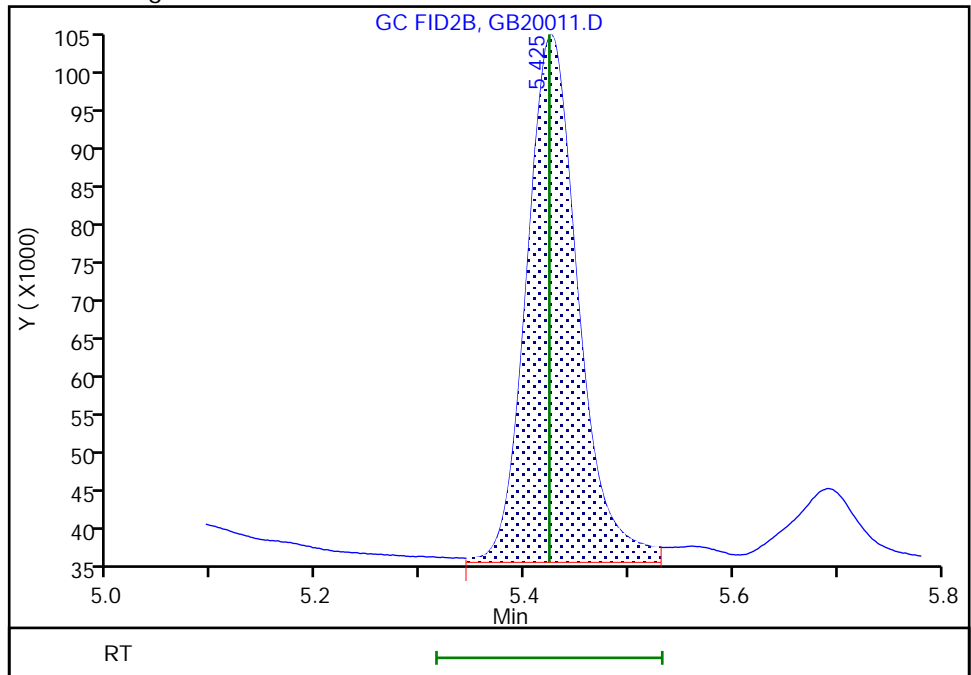
RT: 5.43
Area: 234665
Amount: 55.696206
Amount Units: ug/ml

Processing Integration Results



RT: 5.43
Area: 238085
Amount: 59.072248
Amount Units: ug/ml

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Eurofins Savannah

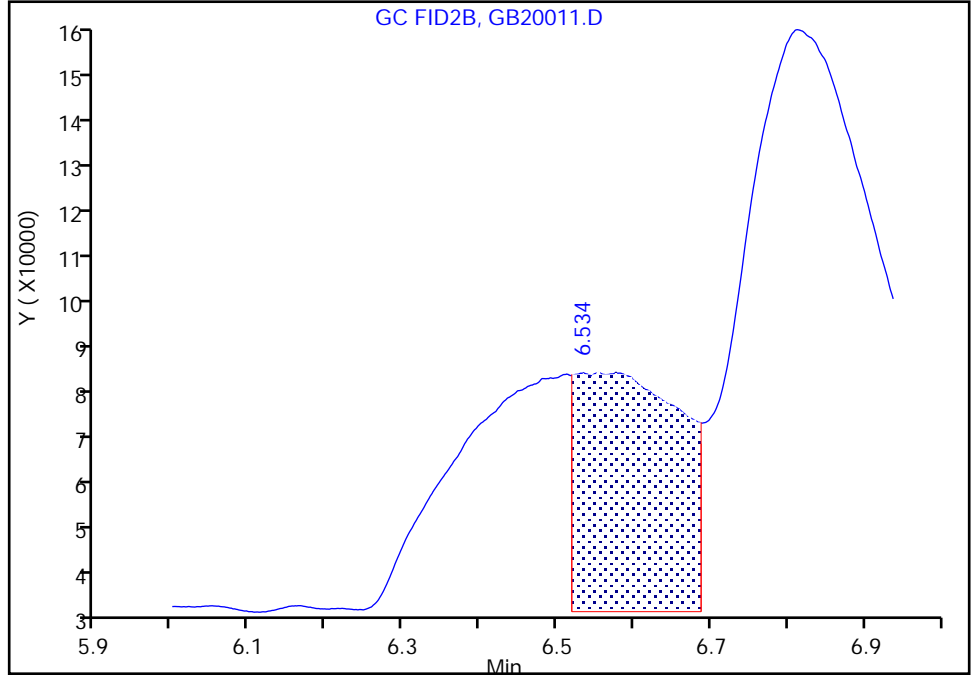
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20011.D
Injection Date: 20-Feb-2023 19:32:03 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

6 Propylene glycol, CAS: 57-55-6

Signal: 1

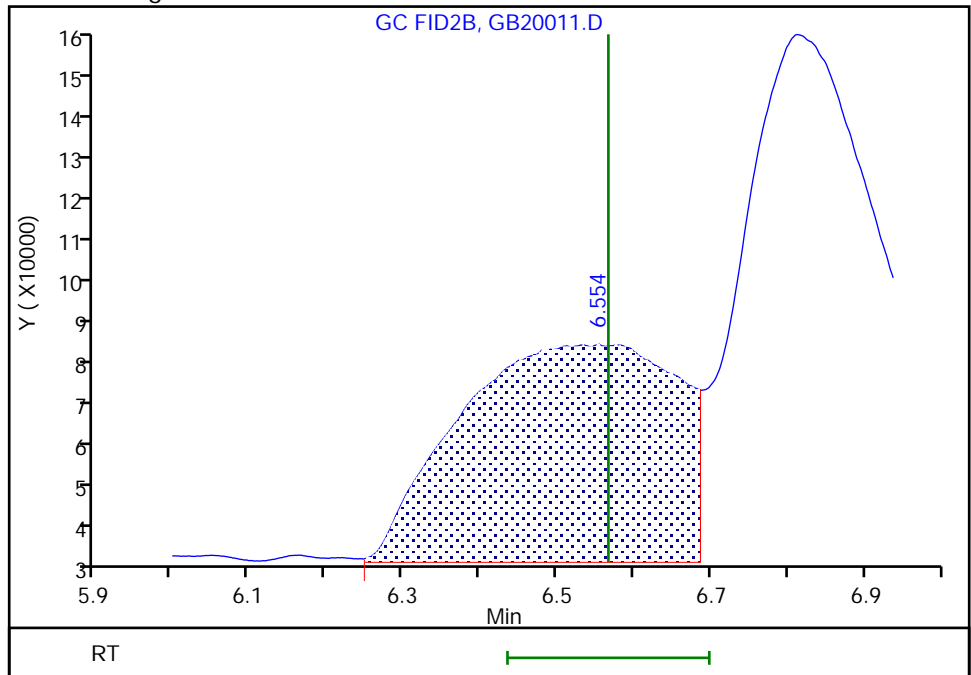
RT: 6.53
Area: 466006
Amount: 27.289474
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



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 | 4.479 | 4.479 | 0.000 | 4433879 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | 5.424 | 5.424 | 0.000 | 70167 | 20.0 | 18.2 | M |
| 6 Propylene glycol | 6.567 | 6.567 | 0.000 | 329971 | 20.0 | 20.5 | M |
| 7 Ethylene glycol | 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

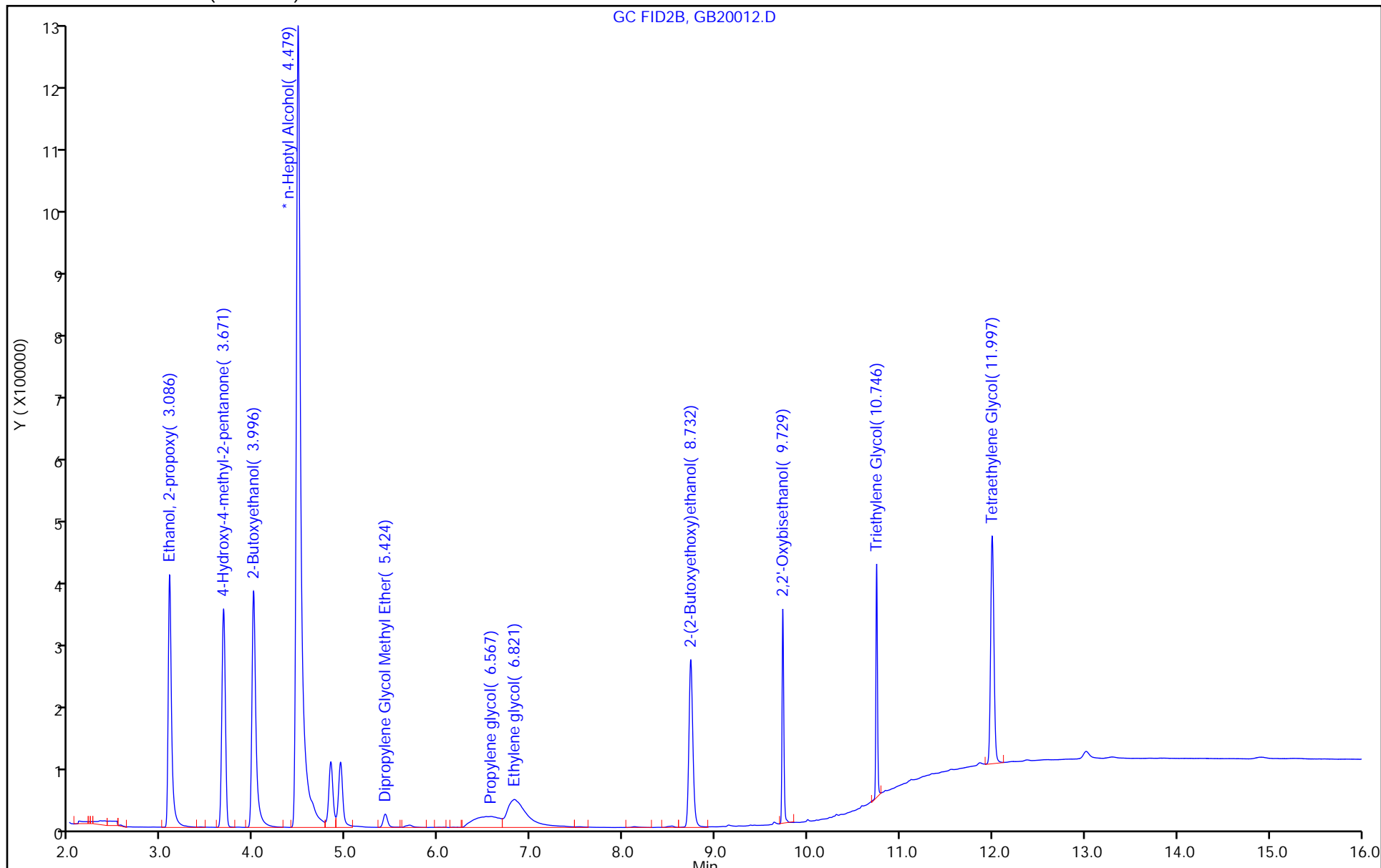
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

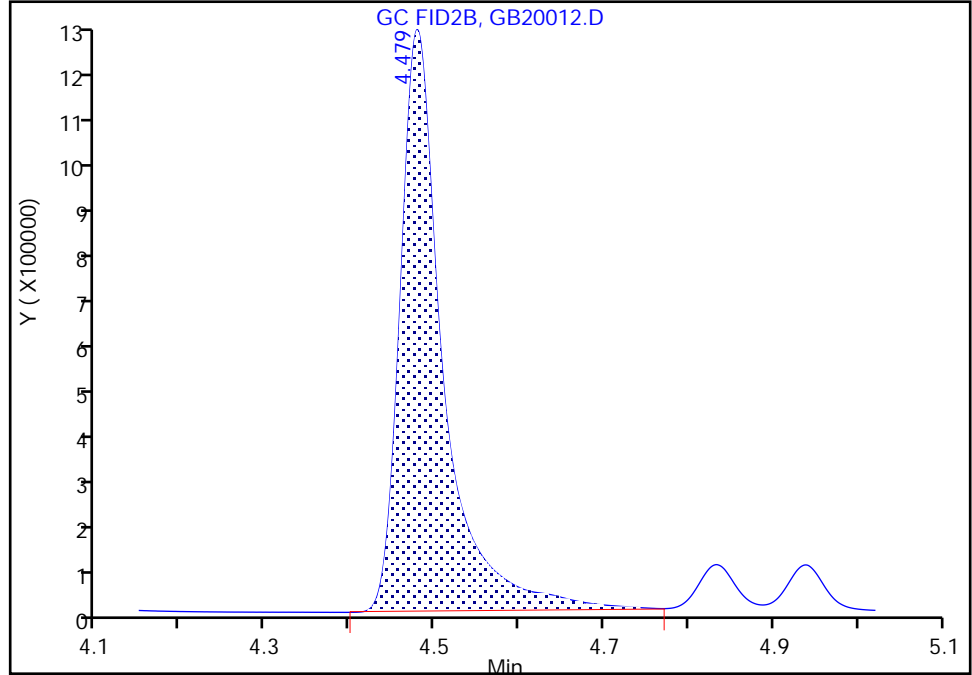
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

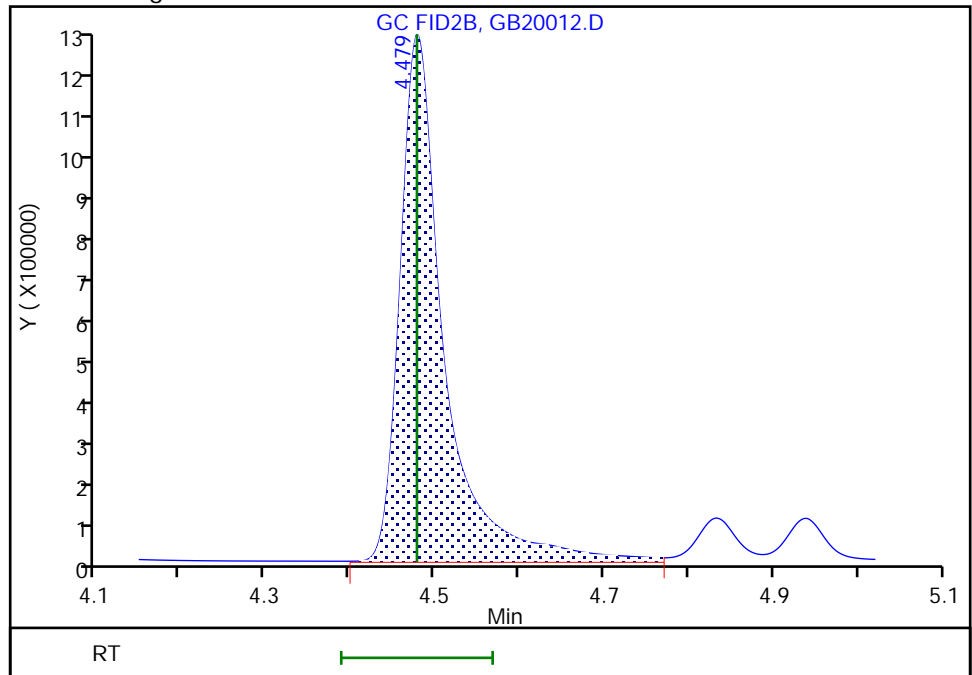
RT: 4.48
Area: 4346575
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



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

Manual Integration Results



Reviewer: SK9U, 21-Feb-2023 12:28:52
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

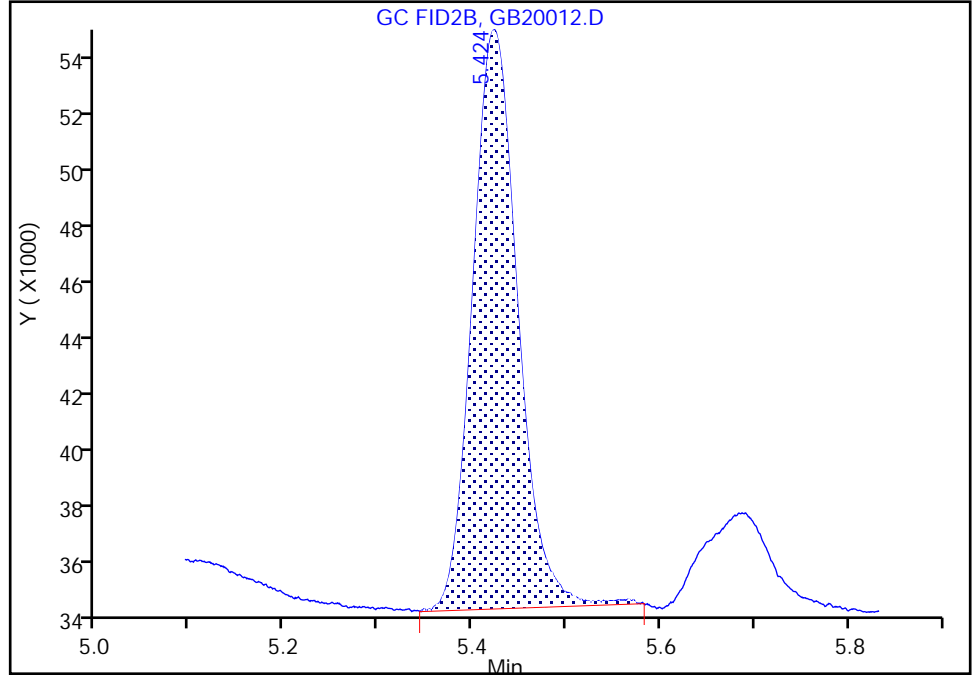
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

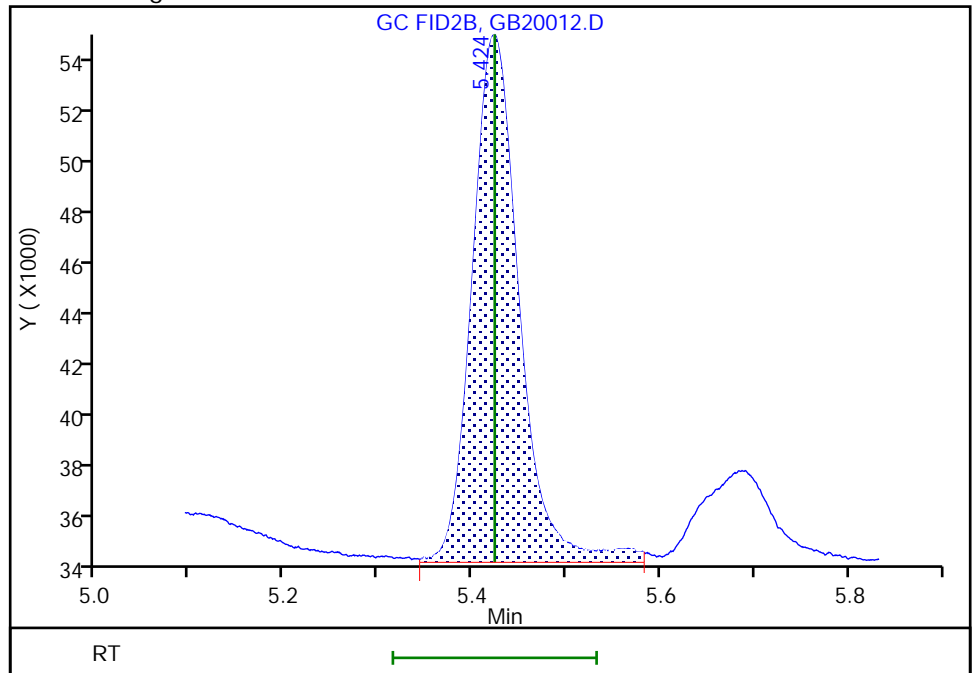
RT: 5.42
Area: 67426
Amount: 17.099509
Amount Units: ug/ml

Processing Integration Results



RT: 5.42
Area: 70167
Amount: 18.209267
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 21-Feb-2023 12:28:52
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

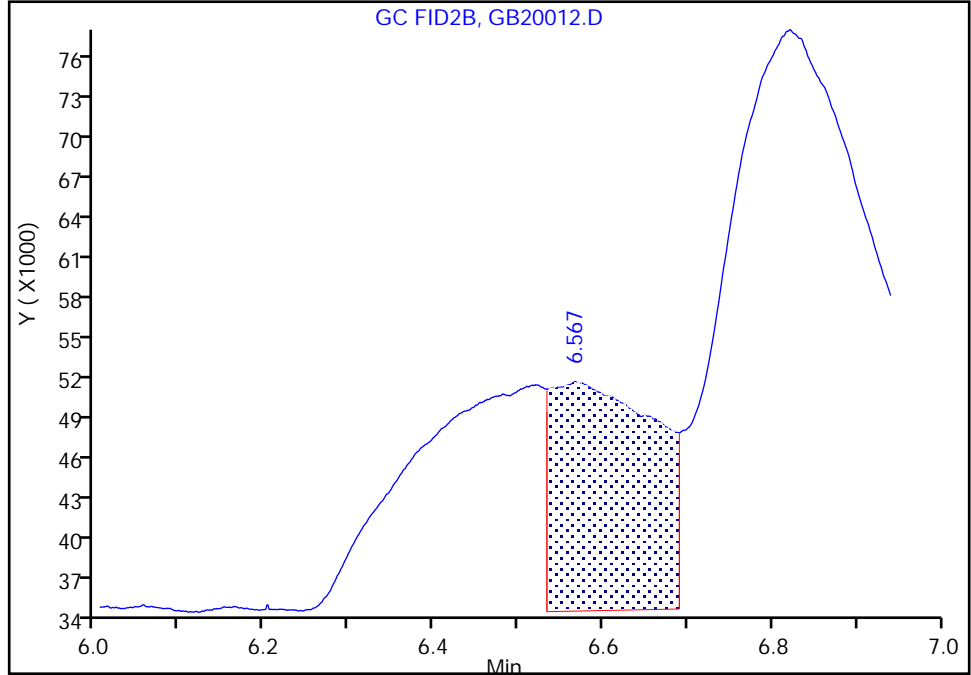
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

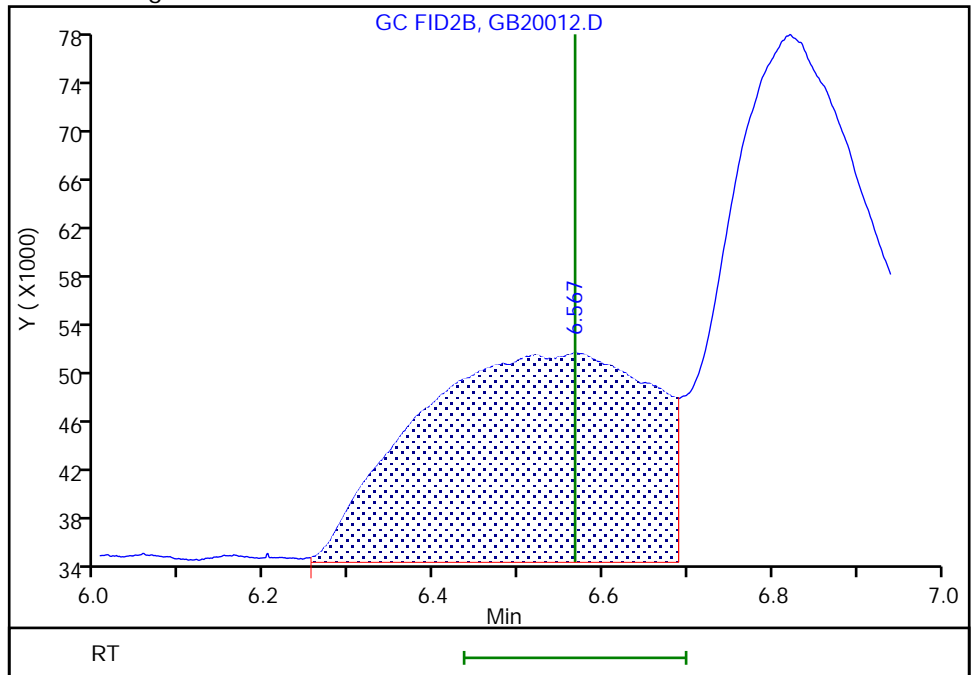
RT: 6.57
Area: 143597
Amount: 10.249228
Amount Units: ug/ml

Processing Integration Results



RT: 6.57
Area: 329971
Amount: 20.515044
Amount Units: ug/ml

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Eurofins Savannah

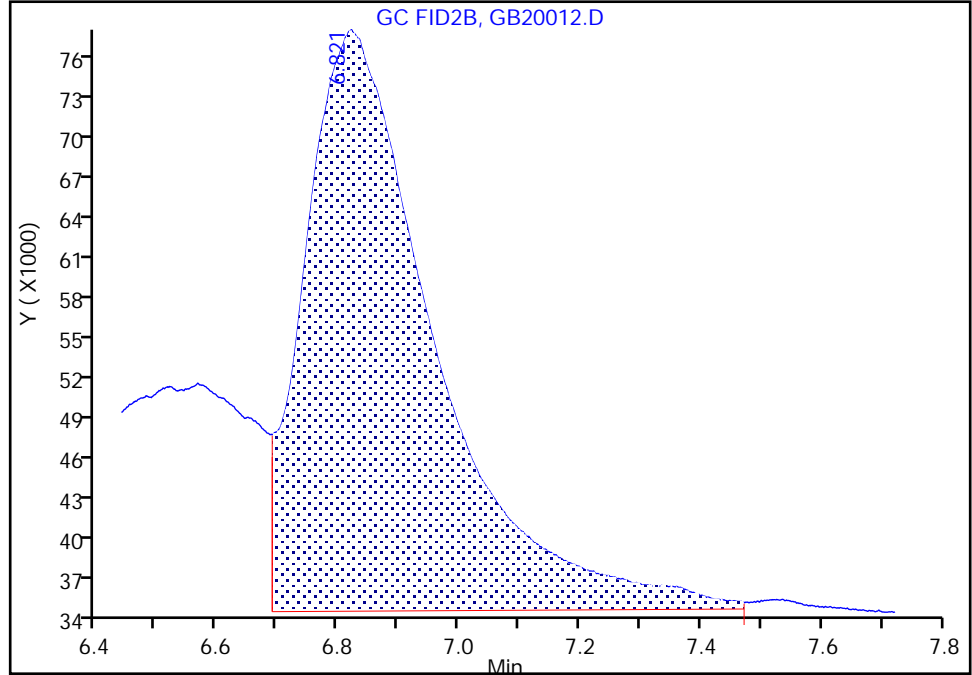
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20012.D
Injection Date: 20-Feb-2023 19:55:25 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

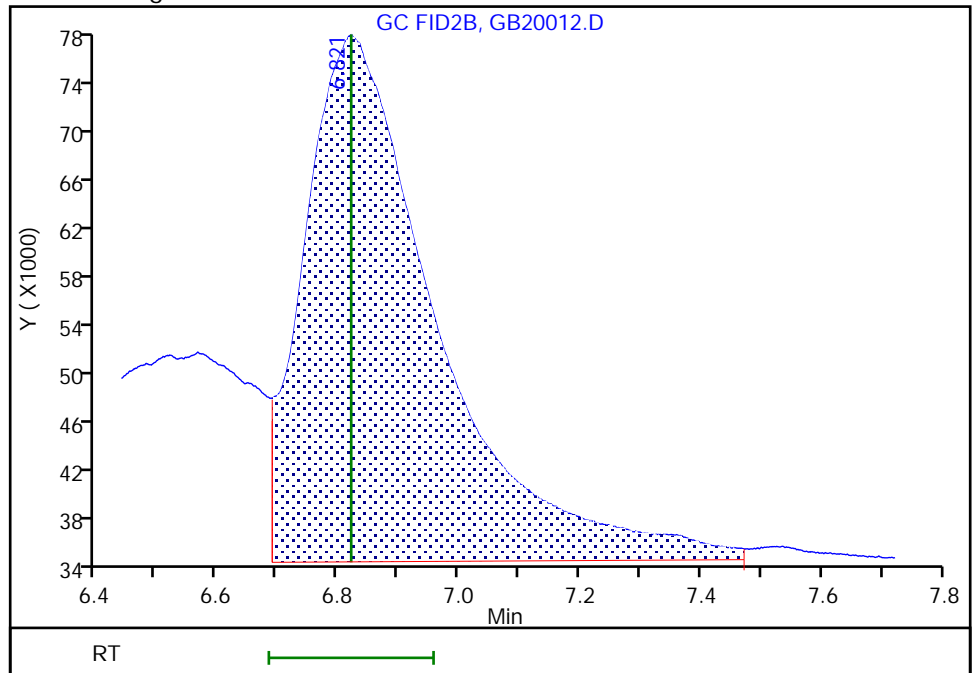
RT: 6.82
Area: 640599
Amount: 19.476332
Amount Units: ug/ml

Processing Integration Results



RT: 6.82
Area: 658843
Amount: 20.884006
Amount Units: ug/ml

Manual Integration Results



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 | | | | | | |
| 6.585 | 6.567 | 0.018 | 224460 | 10.0 | 11.4 | M |
| 7 Ethylene glycol | | | | | | |
| 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

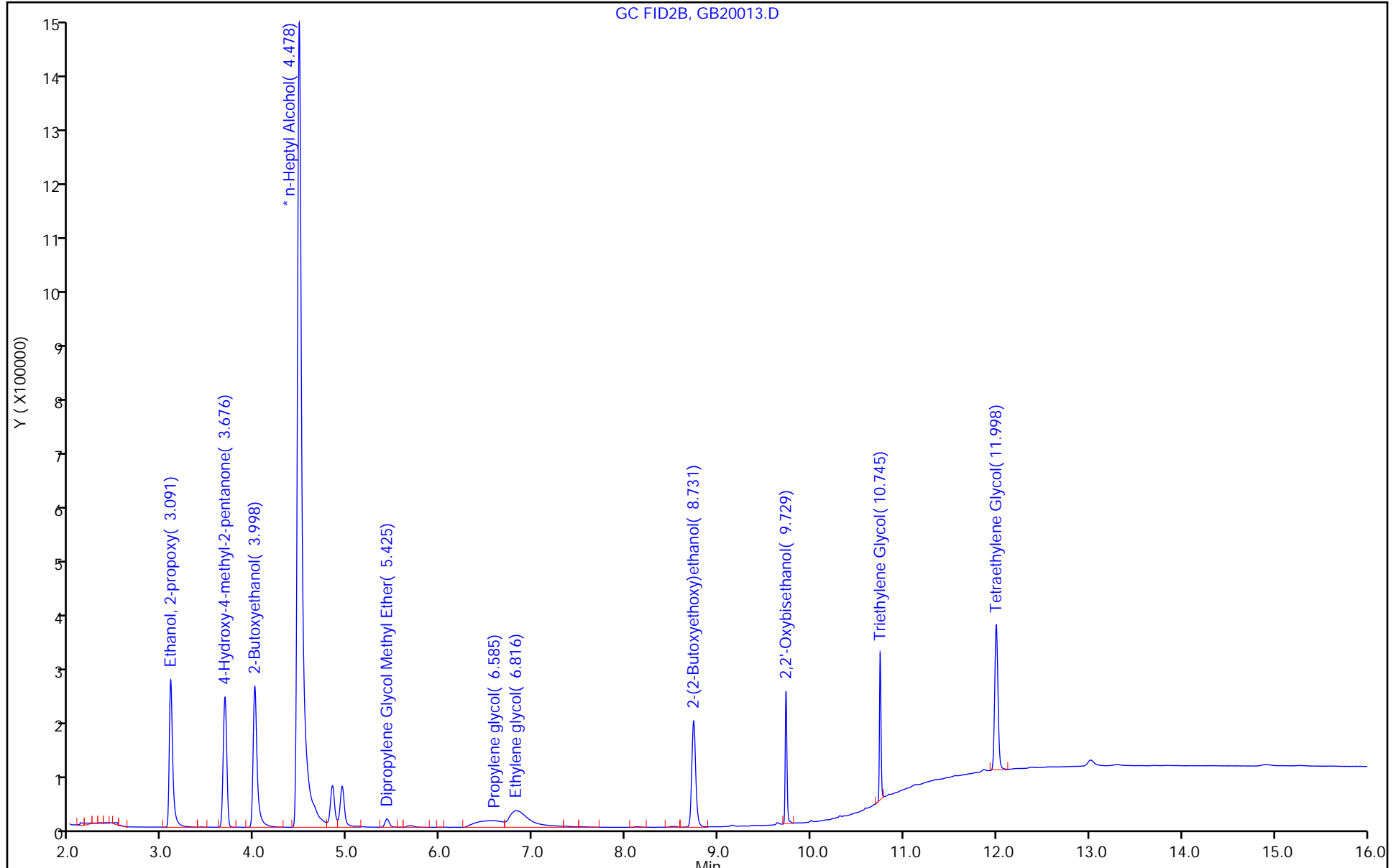
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

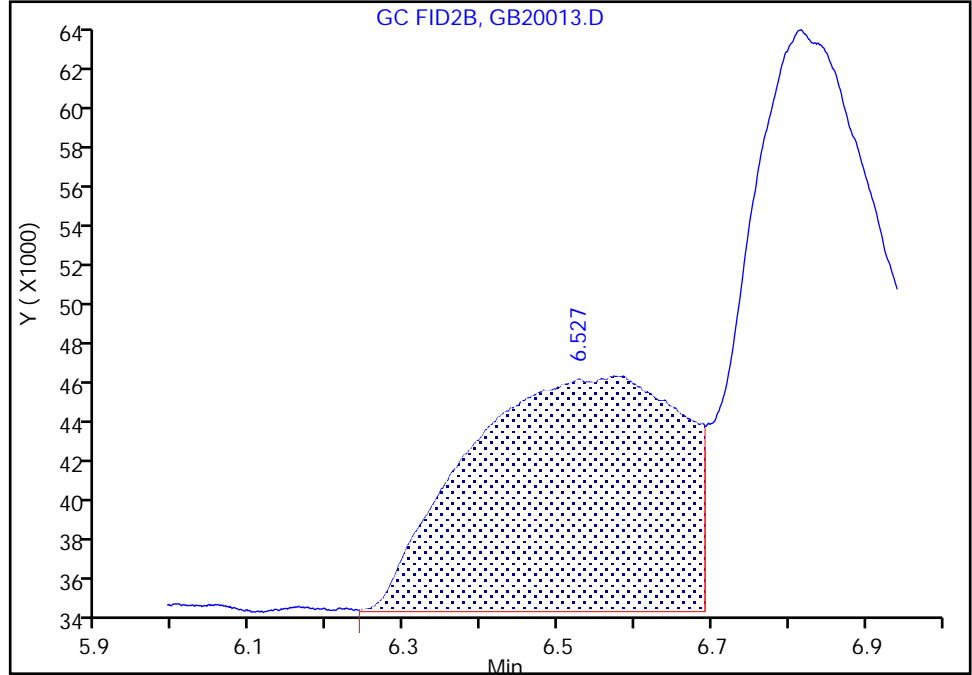
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D
Injection Date: 20-Feb-2023 20:18:51 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

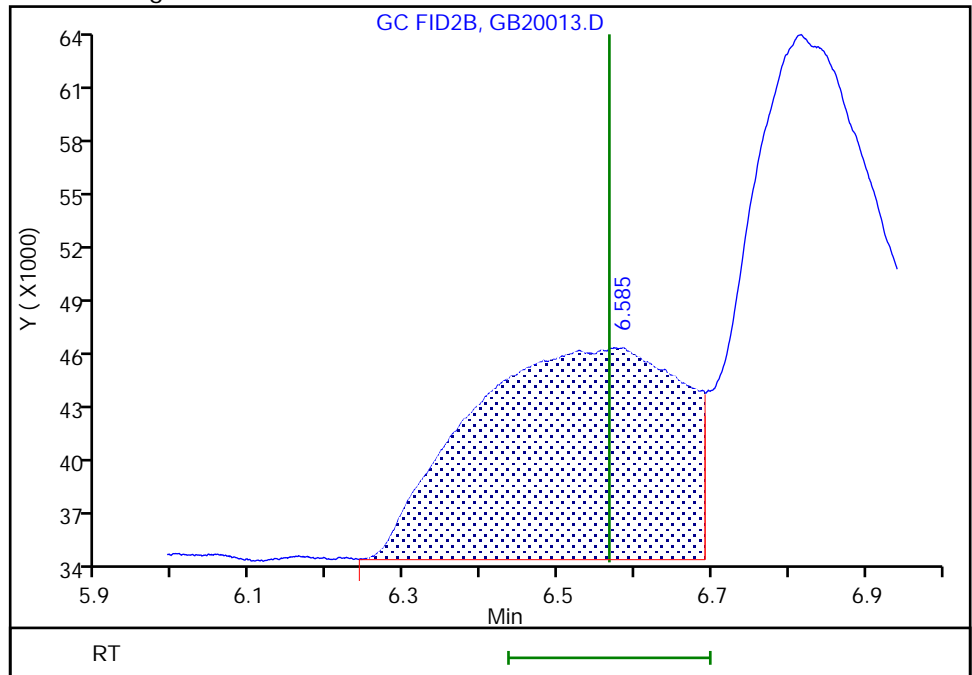
RT: 6.53
Area: 224217
Amount: 11.025394
Amount Units: ug/ml

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

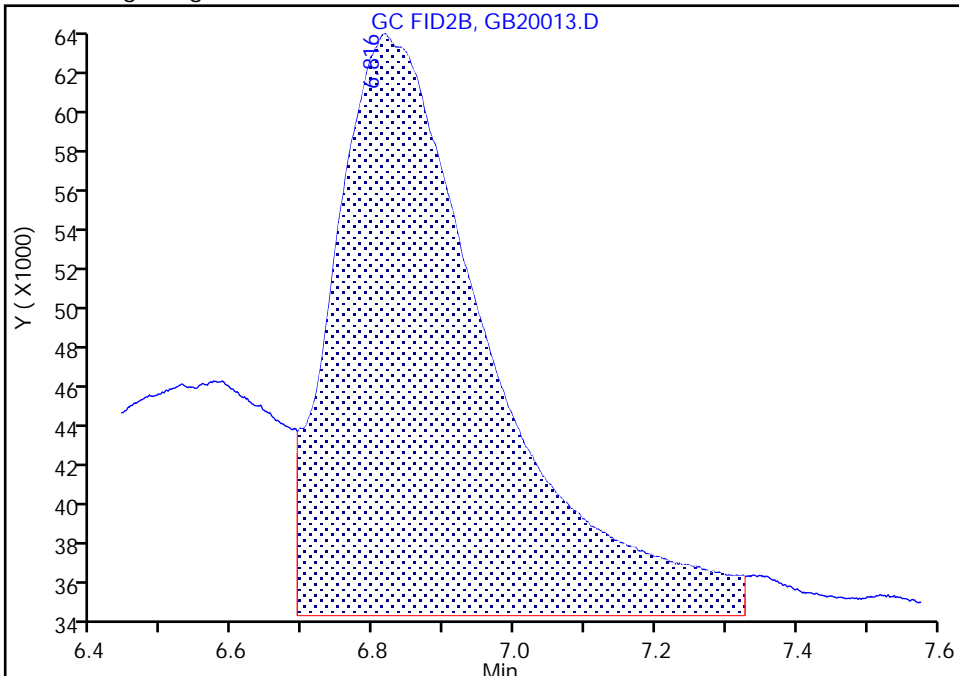
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20013.D
Injection Date: 20-Feb-2023 20:18:51 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

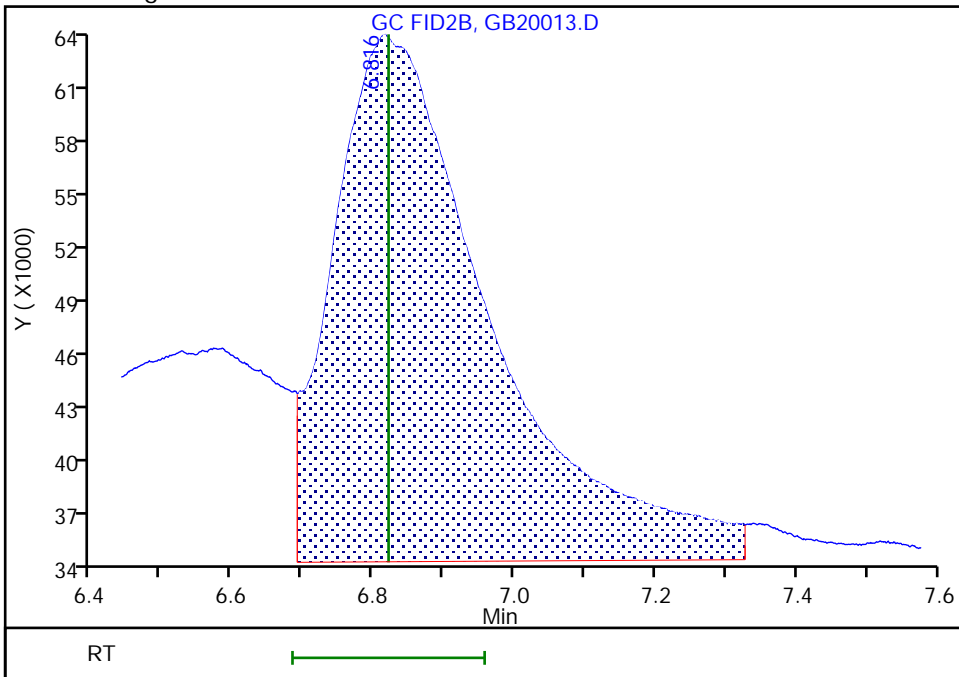
RT: 6.82
Area: 444847
Amount: 11.156976
Amount Units: ug/ml

Processing Integration Results



RT: 6.82
Area: 447498
Amount: 11.169331
Amount Units: ug/ml

Manual Integration Results



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 | 6.579 | 6.567 | 0.012 | 128630 | 5.00 | 5.19 | M |
| 7 Ethylene glycol | 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 | M |
| 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

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

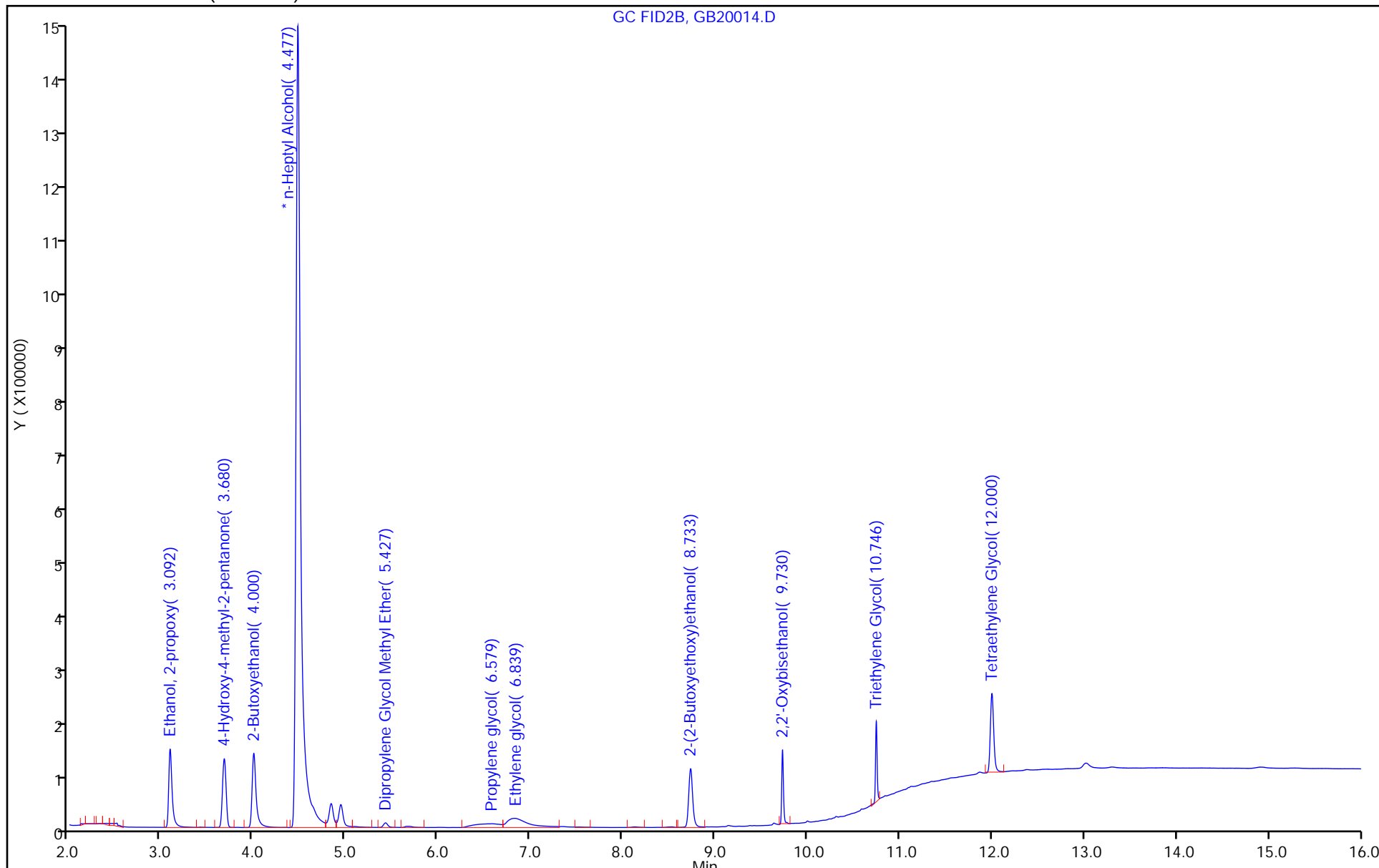
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

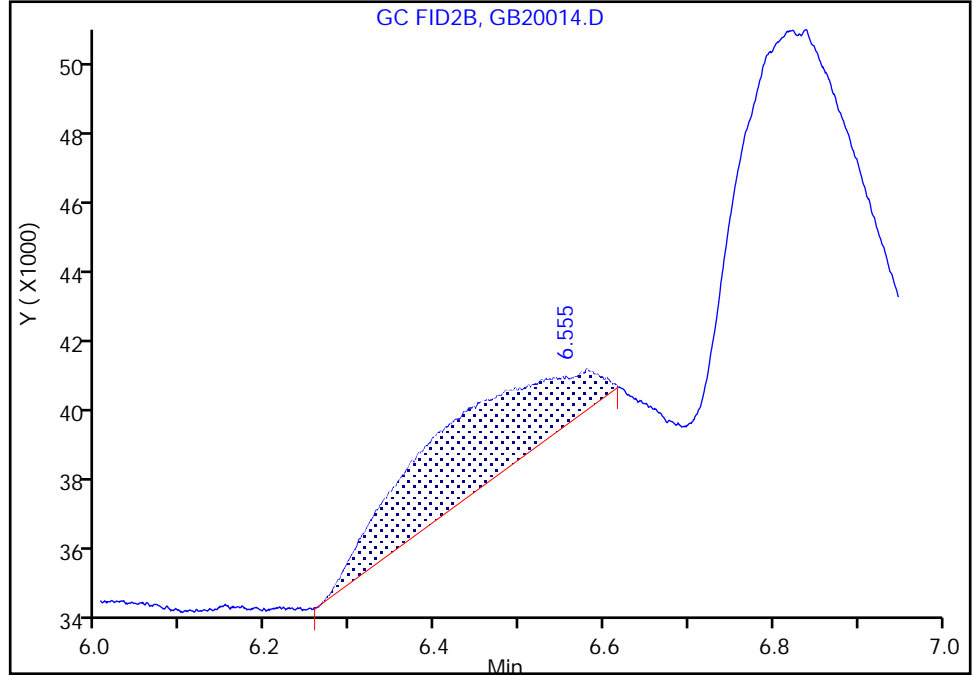
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D
Injection Date: 20-Feb-2023 20:42:11 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

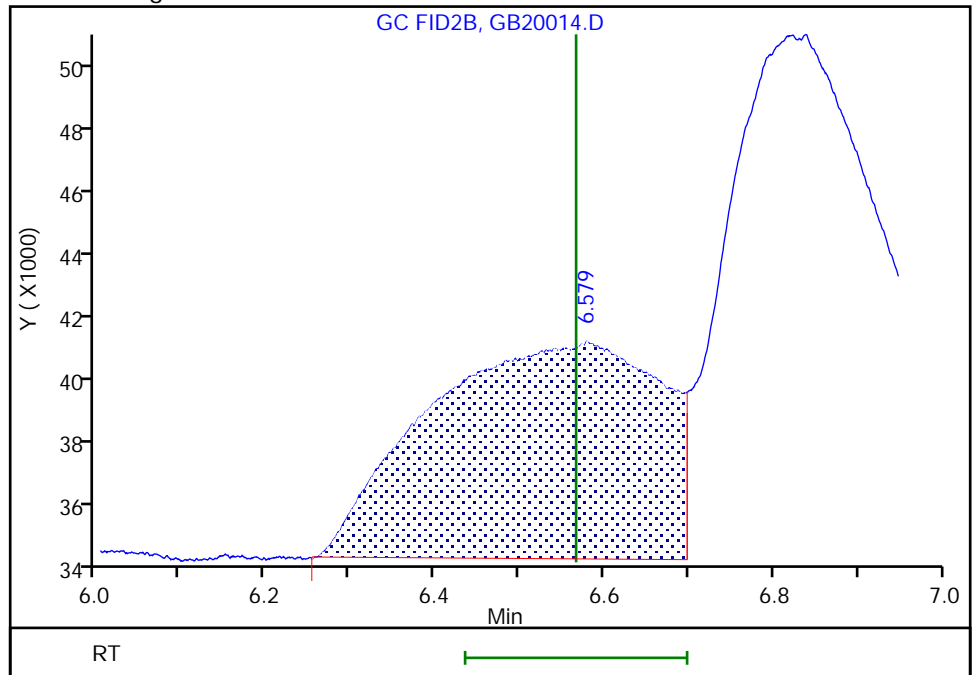
RT: 6.55
Area: 33650
Amount: 2.385603
Amount Units: ug/ml

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
Page 84 of 134

Eurofins Savannah

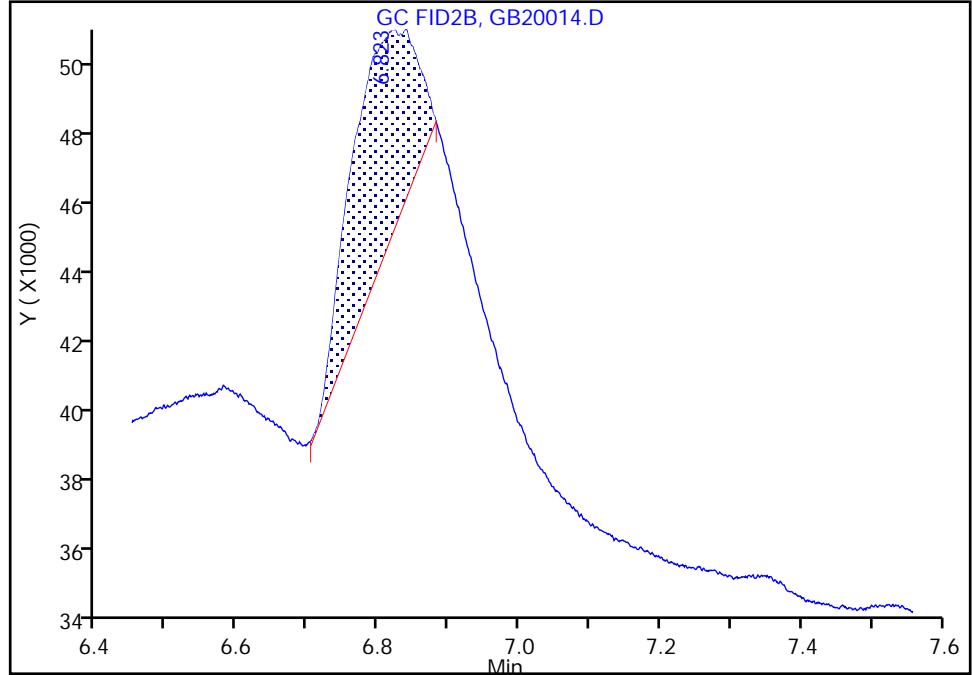
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20014.D
Injection Date: 20-Feb-2023 20:42:11 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

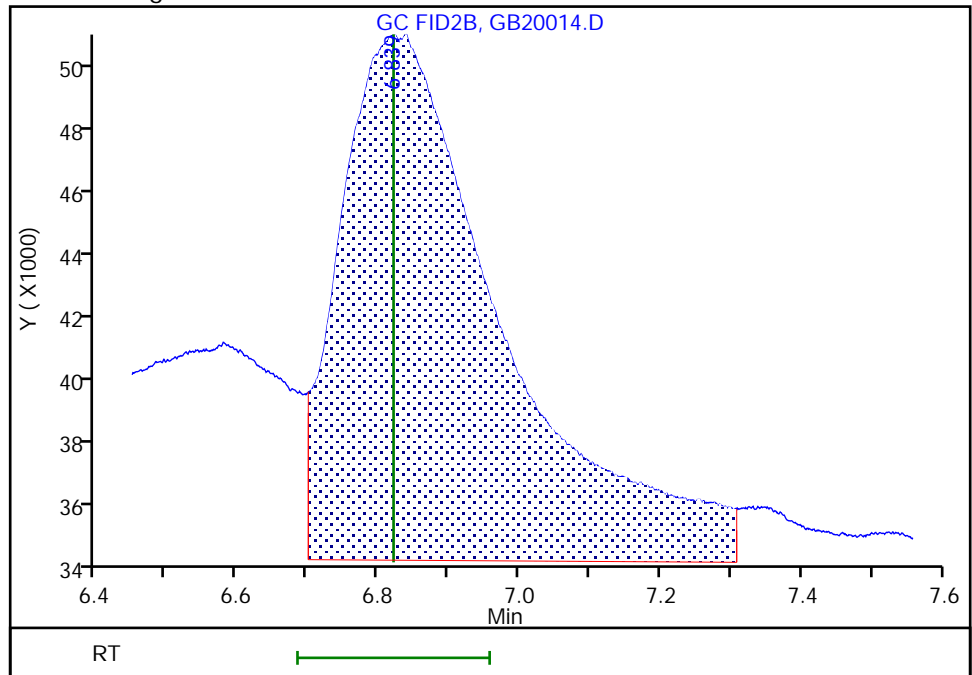
RT: 6.82
Area: 38097
Amount: 1.007288
Amount Units: ug/ml

Processing Integration Results



RT: 6.84
Area: 261771
Amount: 4.709158
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
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 | | | | | | |
| 6.585 | 6.567 | 0.018 | 68115 | 2.00 | 1.64 | M |
| 7 Ethylene glycol | | | | | | |
| 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

Euofins 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

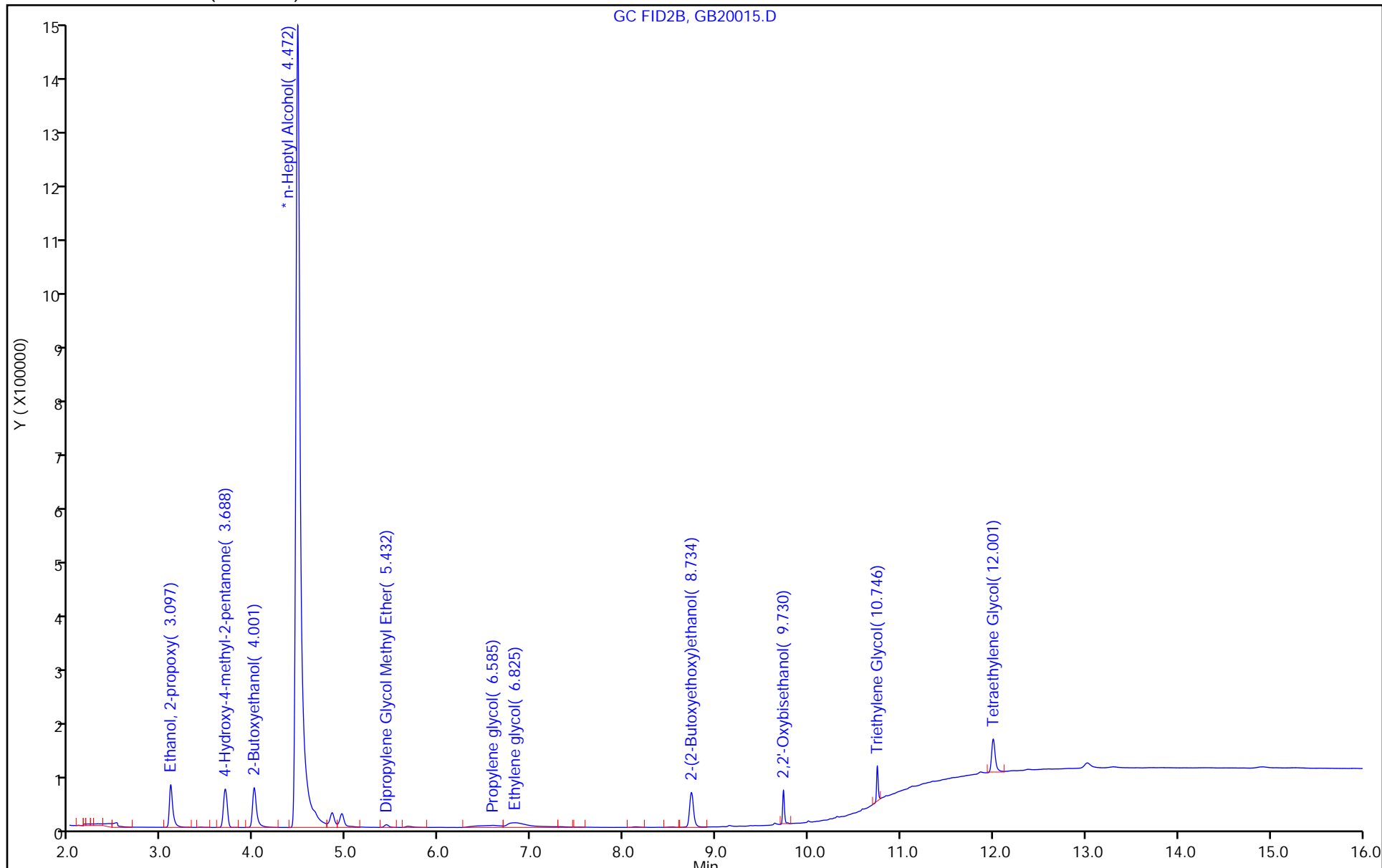
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

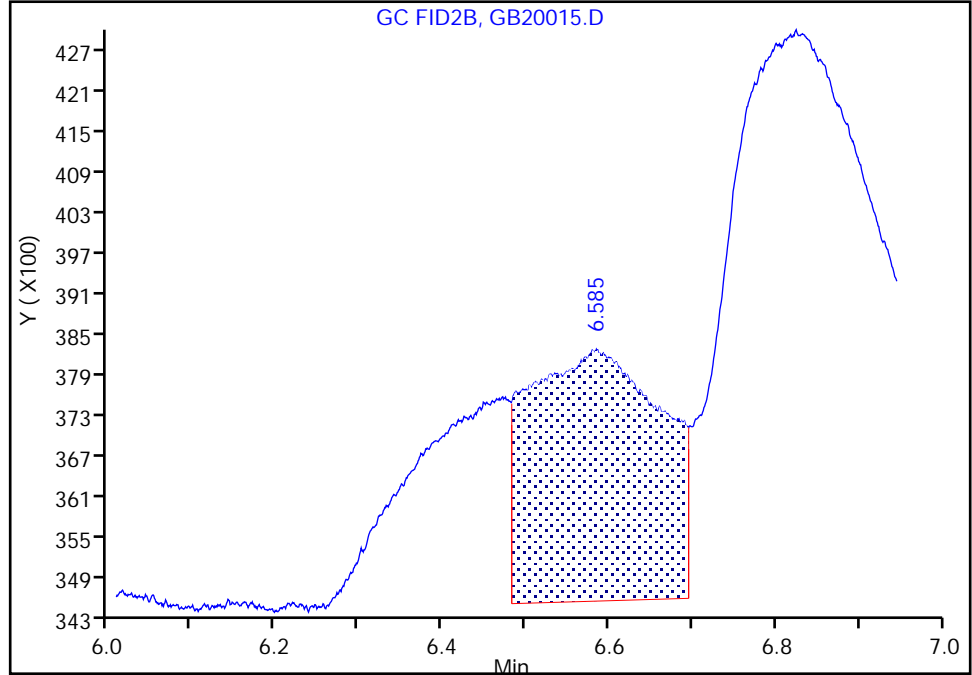
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Injection Date: 20-Feb-2023 21:05:32 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

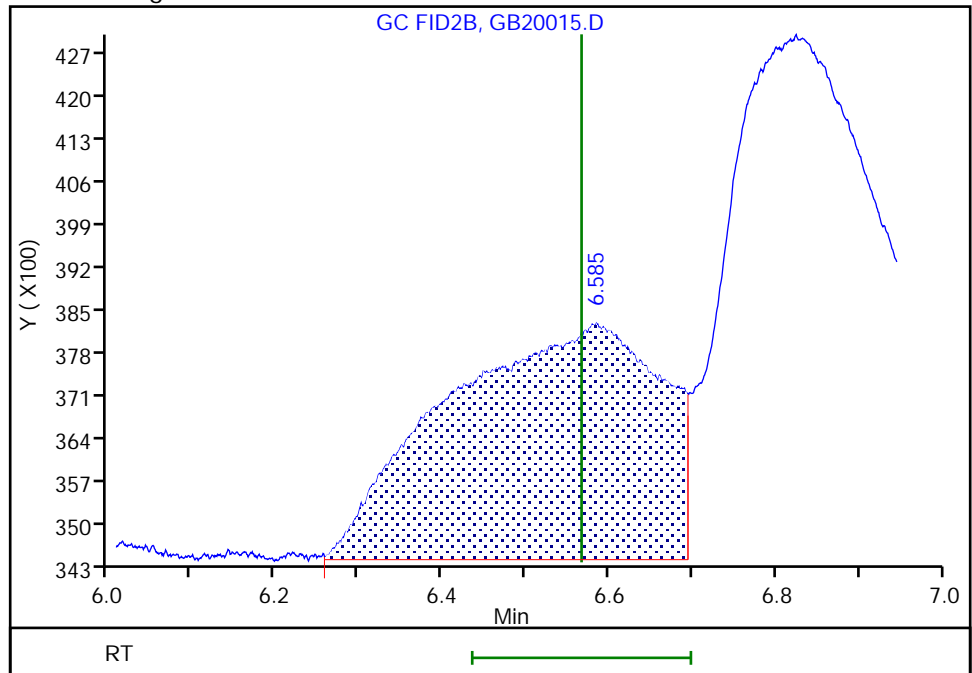
RT: 6.58
Area: 40609
Amount: 3.345661
Amount Units: ug/ml

Processing Integration Results



RT: 6.58
Area: 68115
Amount: 1.641105
Amount Units: ug/ml

Manual Integration Results



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

Audit Reason: Baseline Smoothing

Euofins Savannah

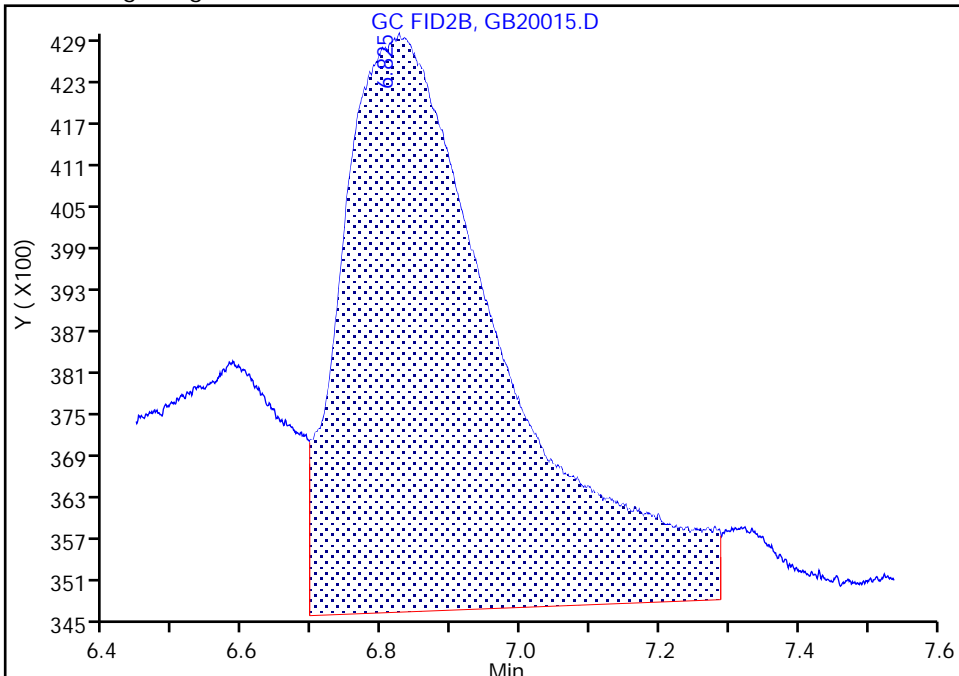
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20015.D
Injection Date: 20-Feb-2023 21:05:32 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

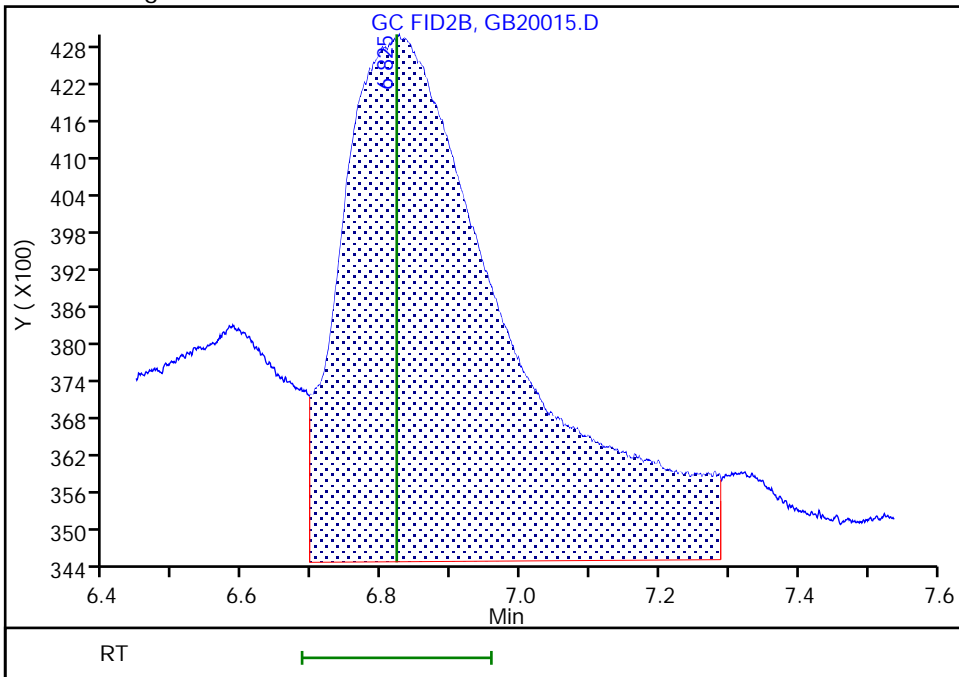
RT: 6.82
Area: 132810
Amount: 1.923392
Amount Units: ug/ml

Processing Integration Results



RT: 6.82
Area: 142337
Amount: 0.968367
Amount Units: ug/ml

Manual Integration Results



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.: 580-123620-1
 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-pentano ne | 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
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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 |

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 | 3.999 | 3.996 | 0.003 | 1253189 | 20.0 | 23.9 | M |
| * 4 n-Heptyl Alcohol | 4.474 | 4.479 | -0.005 | 4044707 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | 5.429 | 5.424 | 0.005 | 81271 | 20.0 | 23.6 | M |
| 6 Propylene glycol | 6.565 | 6.567 | -0.002 | 237983 | 20.0 | 15.7 | M |
| 7 Ethylene glycol | 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

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

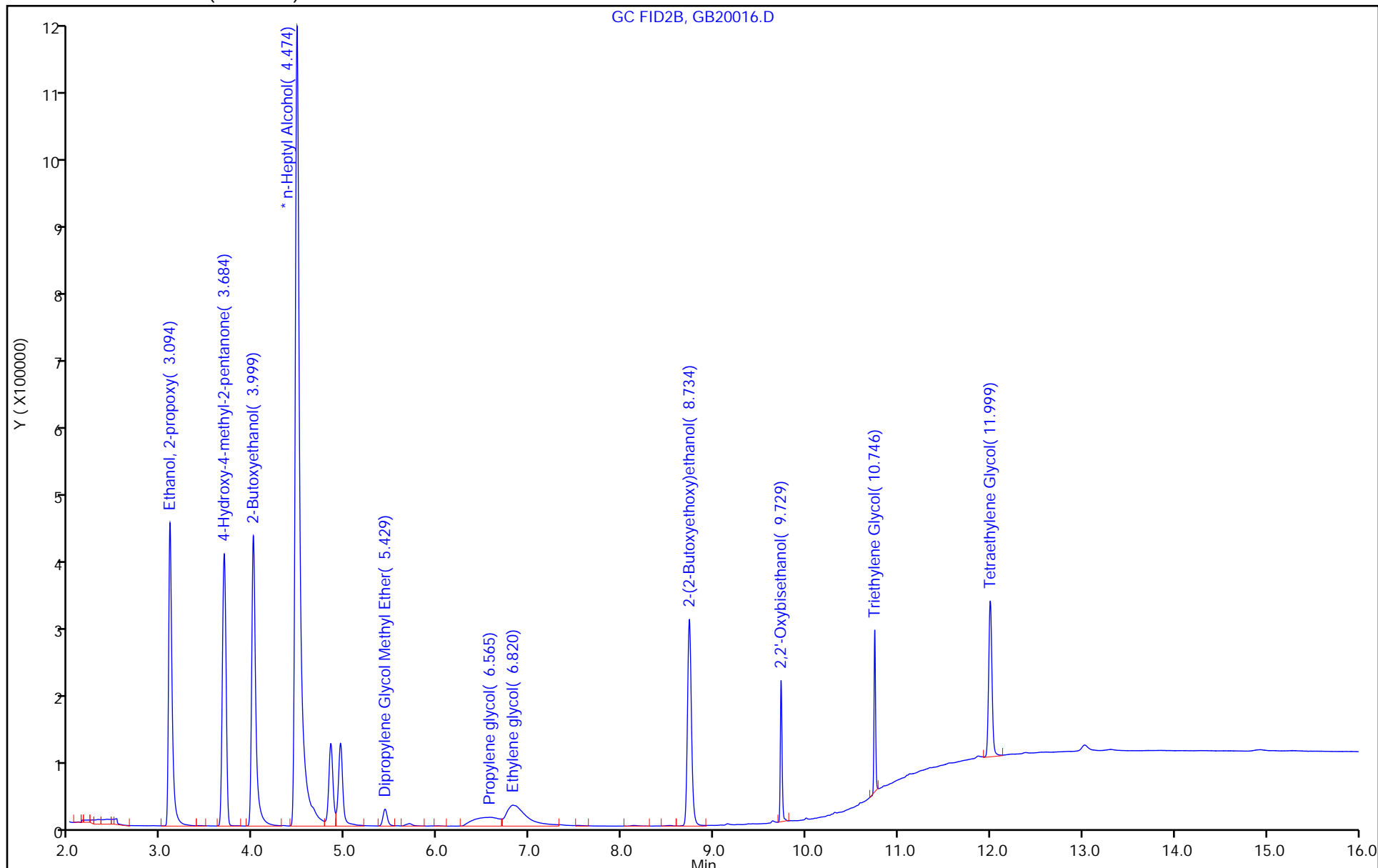
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

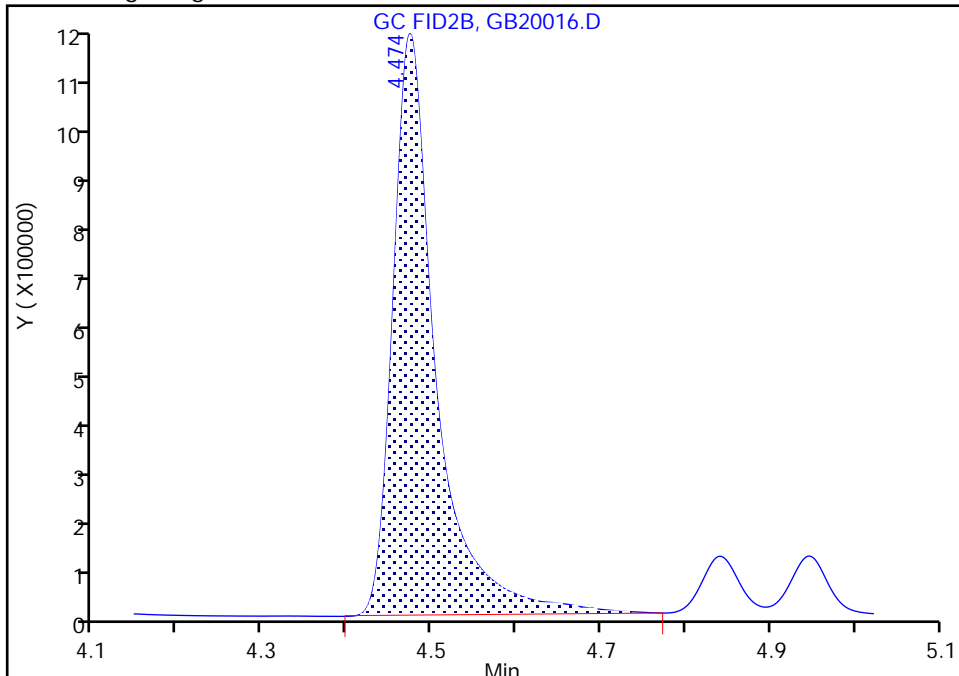
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W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

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

Signal: 1

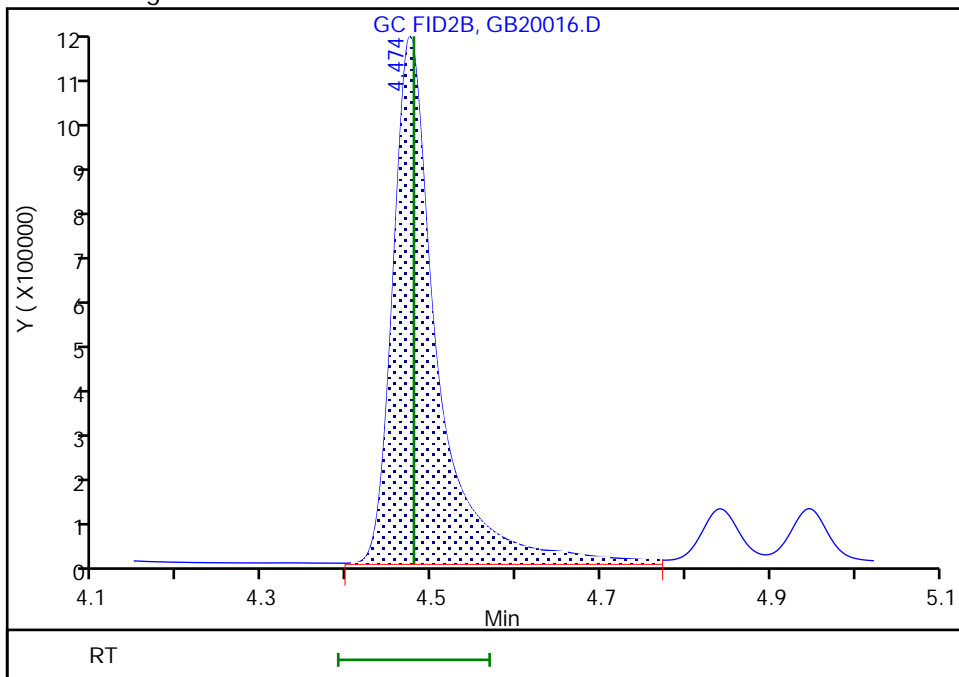
Processing Integration Results

RT: 4.47
Area: 3970146
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 4.47
Area: 4044707
Amount: 50.000000
Amount Units: ug/ml



Reviewer: SK9U, 21-Feb-2023 12:30:59

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

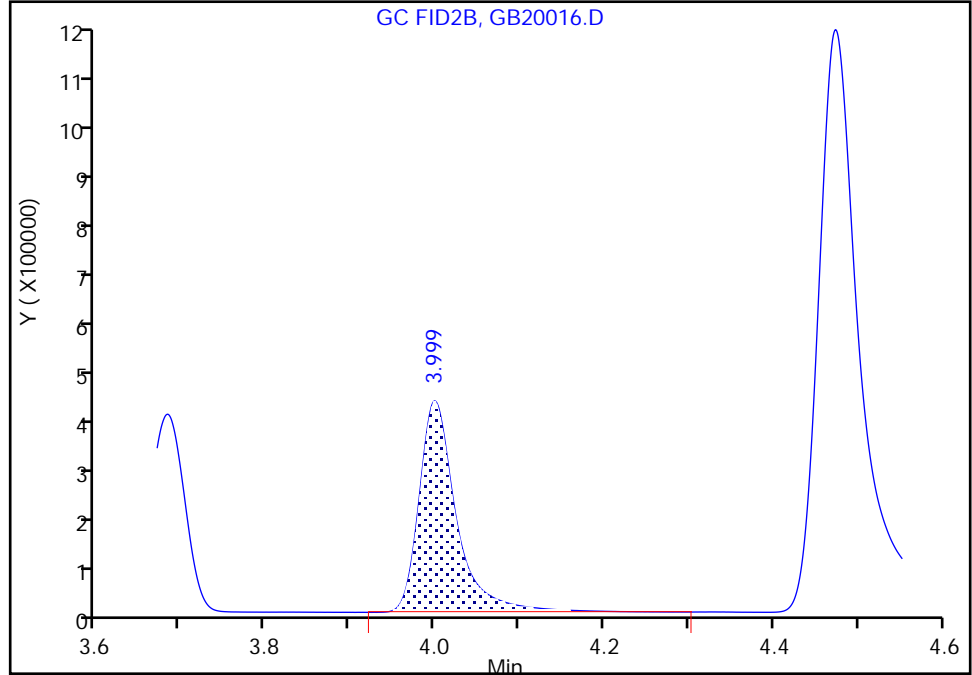
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W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

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

Signal: 1

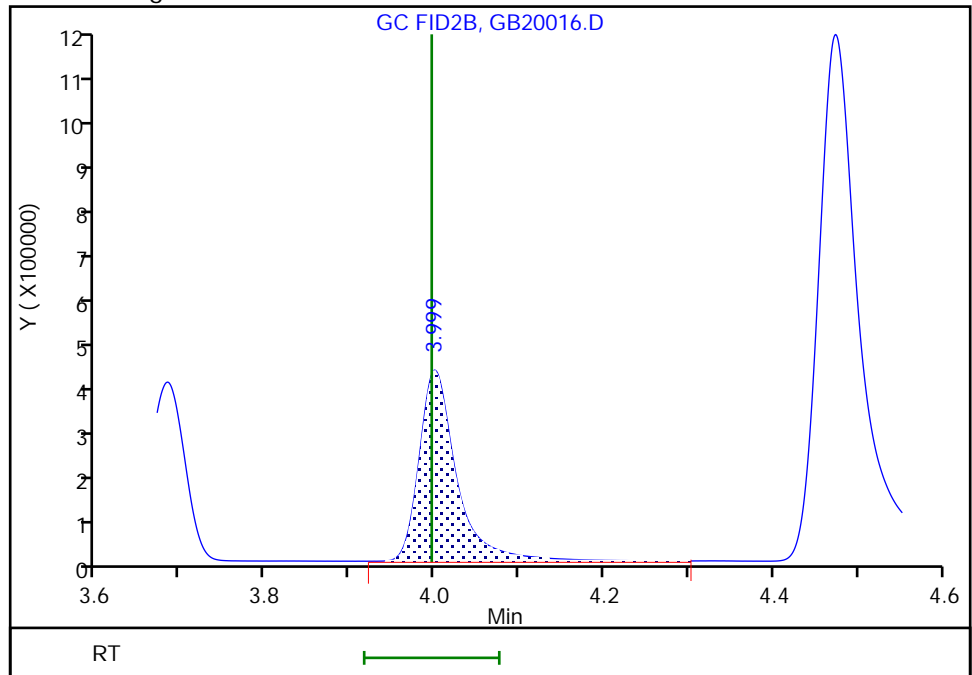
RT: 4.00
Area: 1246606
Amount: 23.824066
Amount Units: ug/ml

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

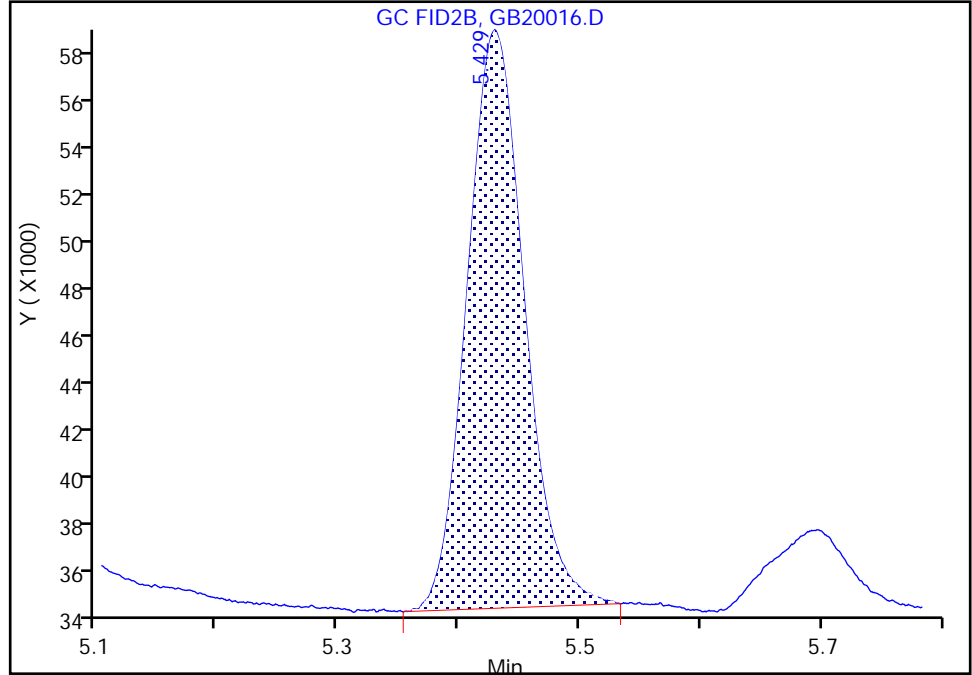
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W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

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

Signal: 1

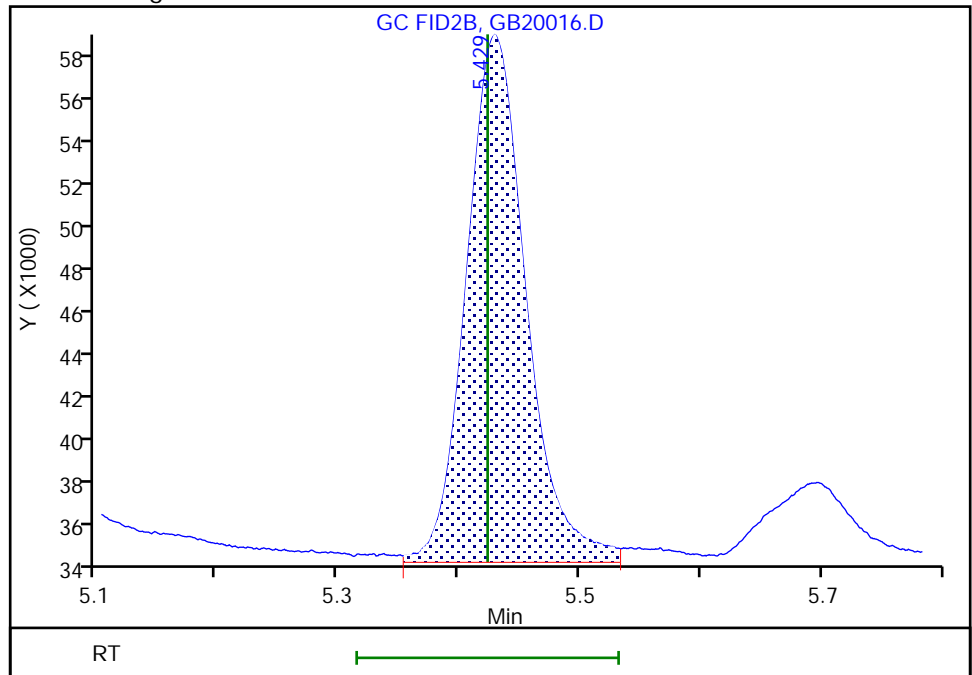
RT: 5.43
Area: 77119
Amount: 21.767458
Amount Units: ug/ml

Processing Integration Results



RT: 5.43
Area: 81271
Amount: 23.635416
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

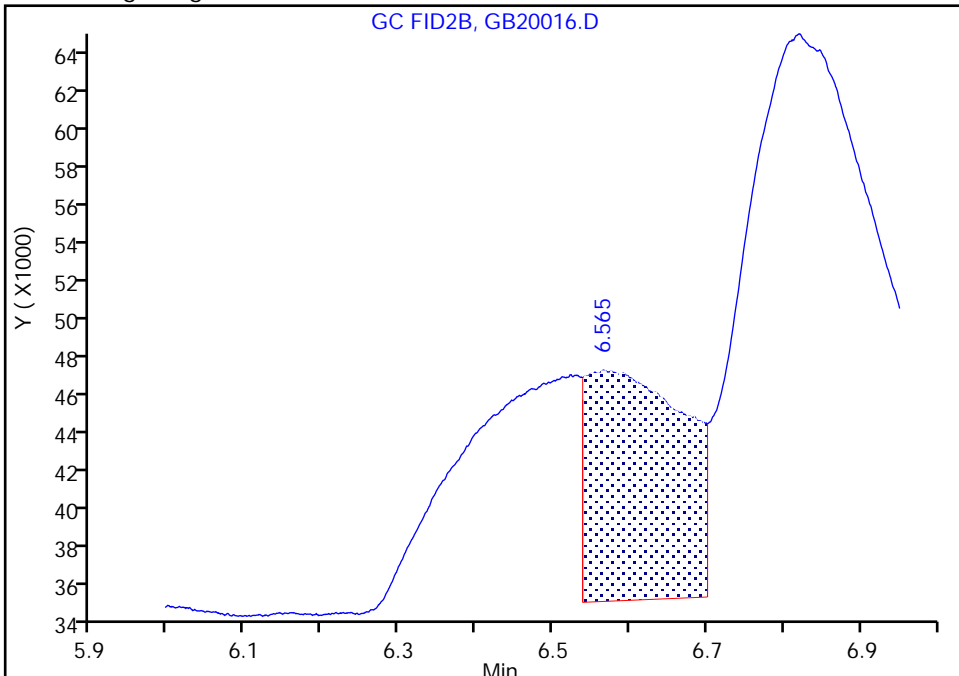
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W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

6 Propylene glycol, CAS: 57-55-6

Signal: 1

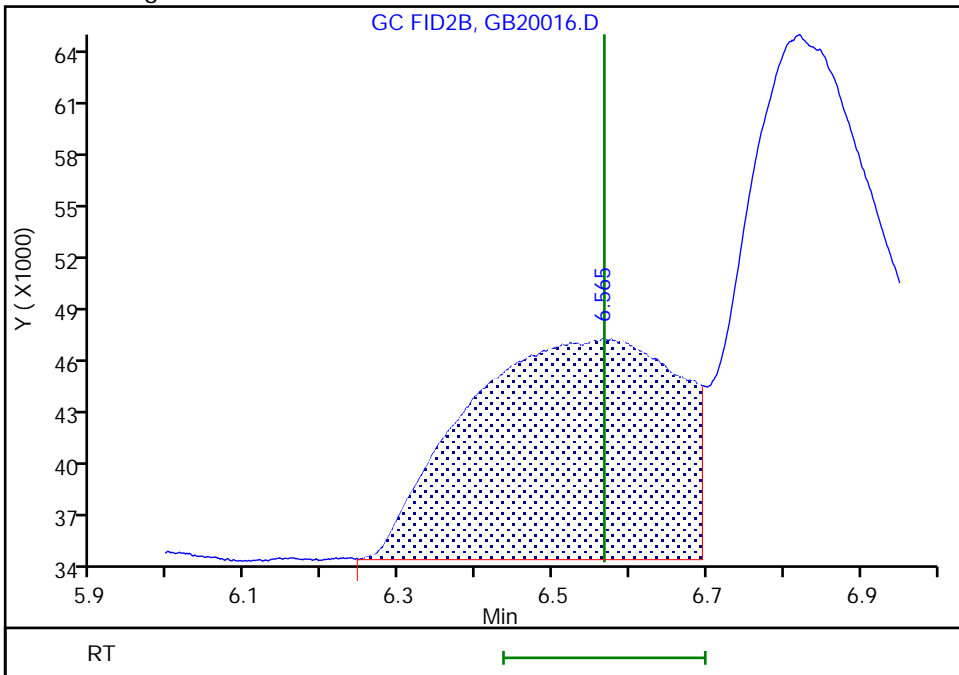
RT: 6.57
Area: 102412
Amount: 5.500967
Amount Units: ug/ml

Processing Integration Results



RT: 6.57
Area: 237983
Amount: 15.707274
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 21-Feb-2023 12:31:21
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 99 of 134

Eurofins Savannah

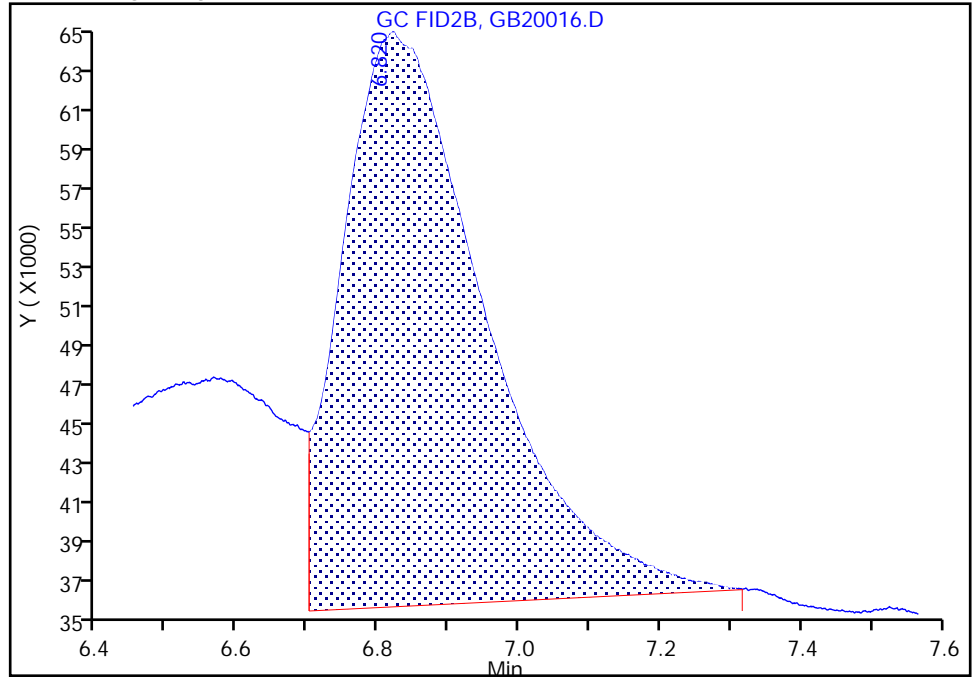
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20016.D
Injection Date: 20-Feb-2023 21:28:59 Instrument ID: CVGG2
Lims ID: icv gly
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W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

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

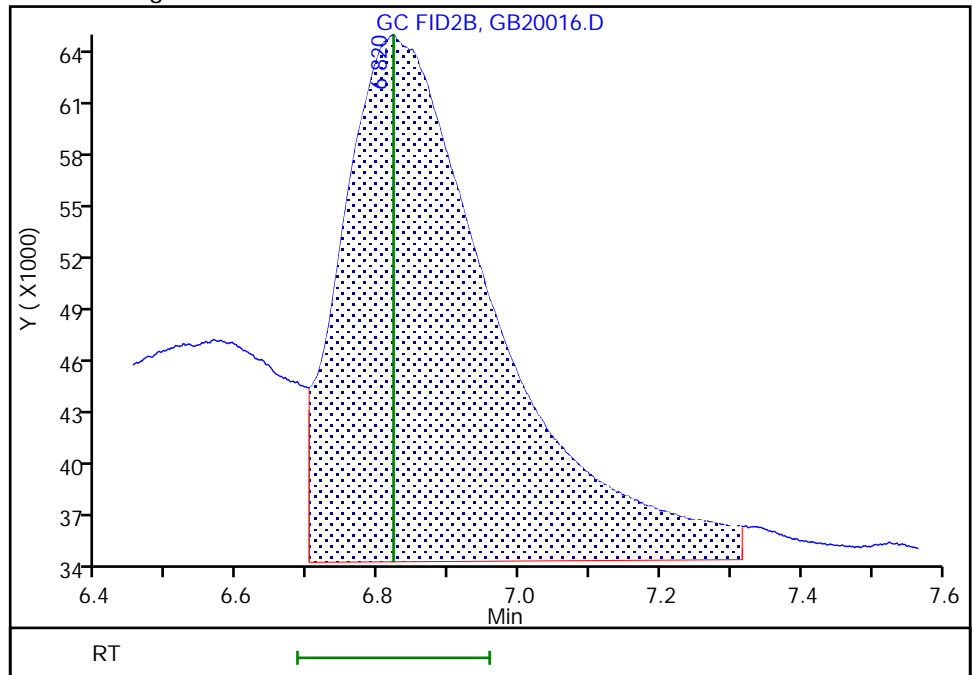
RT: 6.82
Area: 398497
Amount: 12.794840
Amount Units: ug/ml

Processing Integration Results



RT: 6.82
Area: 450581
Amount: 14.757681
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 21-Feb-2023 12:31:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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-pentano ne | 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
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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 |

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

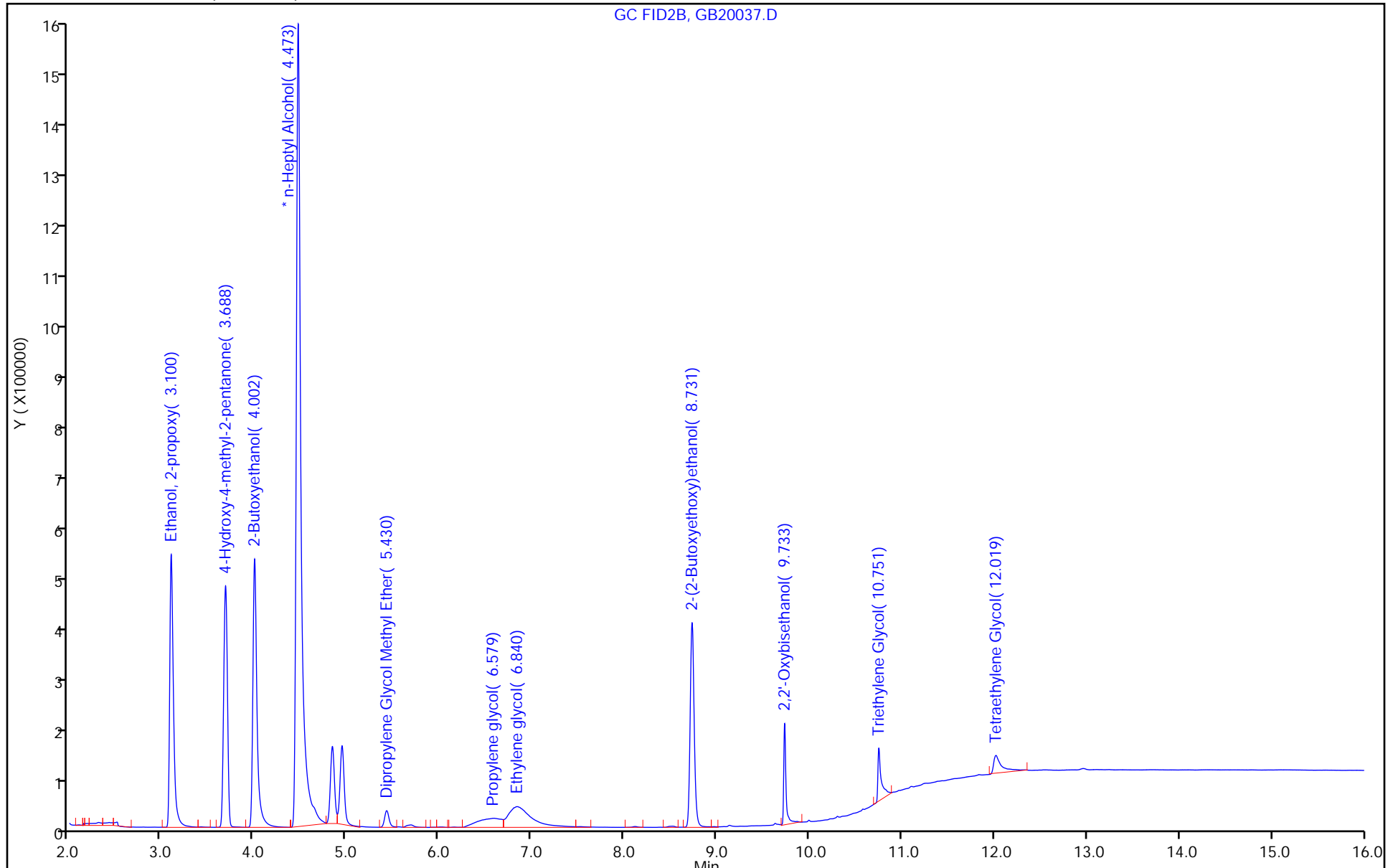
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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 |

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
 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

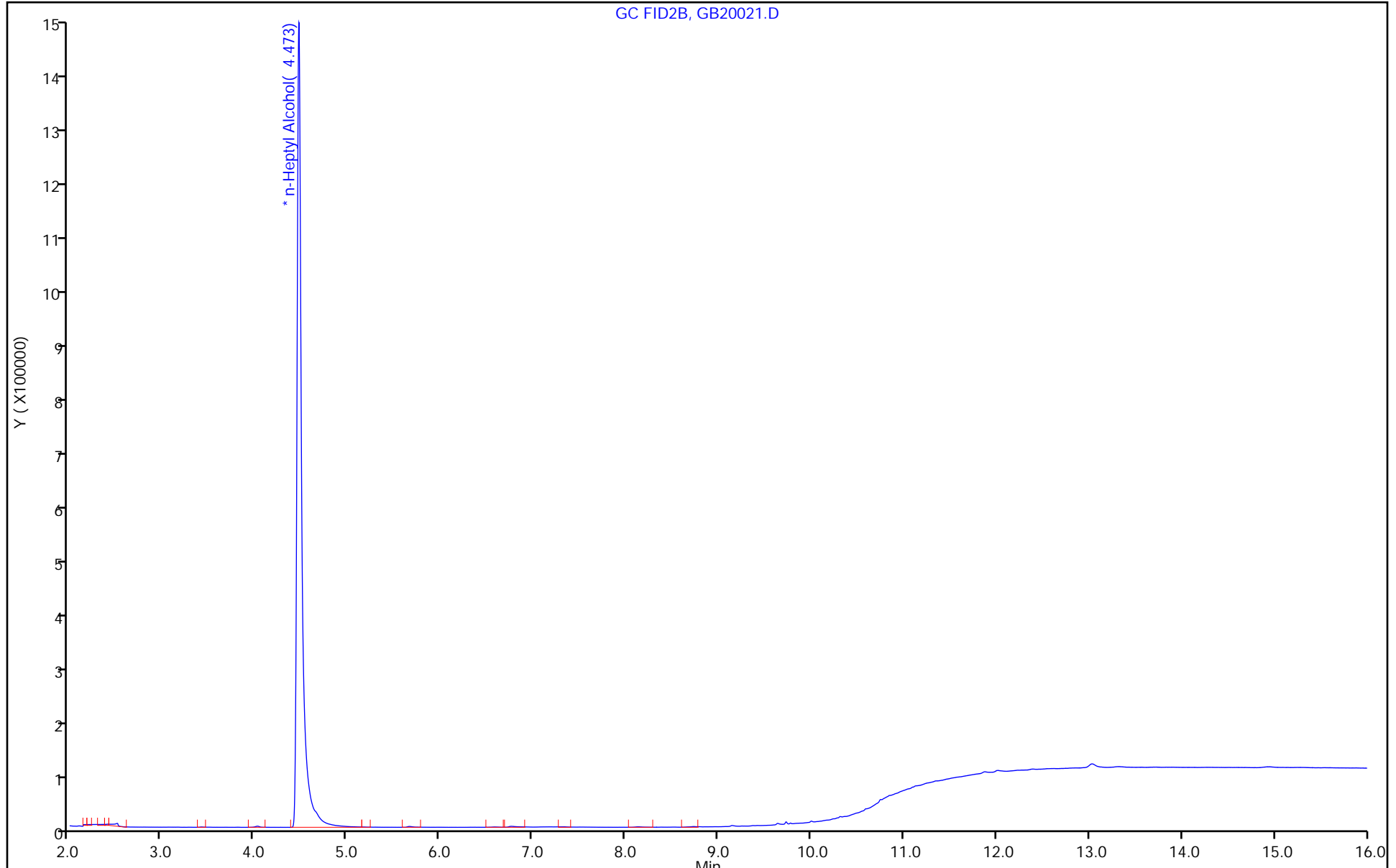
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC FID2B, GB20021.D

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-123620-1
 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 |

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 | | | | | | |
| 3.999 | 3.996 | 0.003 | 1485996 | 20.0 | 22.2 | M |
| * 4 n-Heptyl Alcohol | | | | | | |
| 4.473 | 4.479 | -0.006 | 5150478 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 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

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

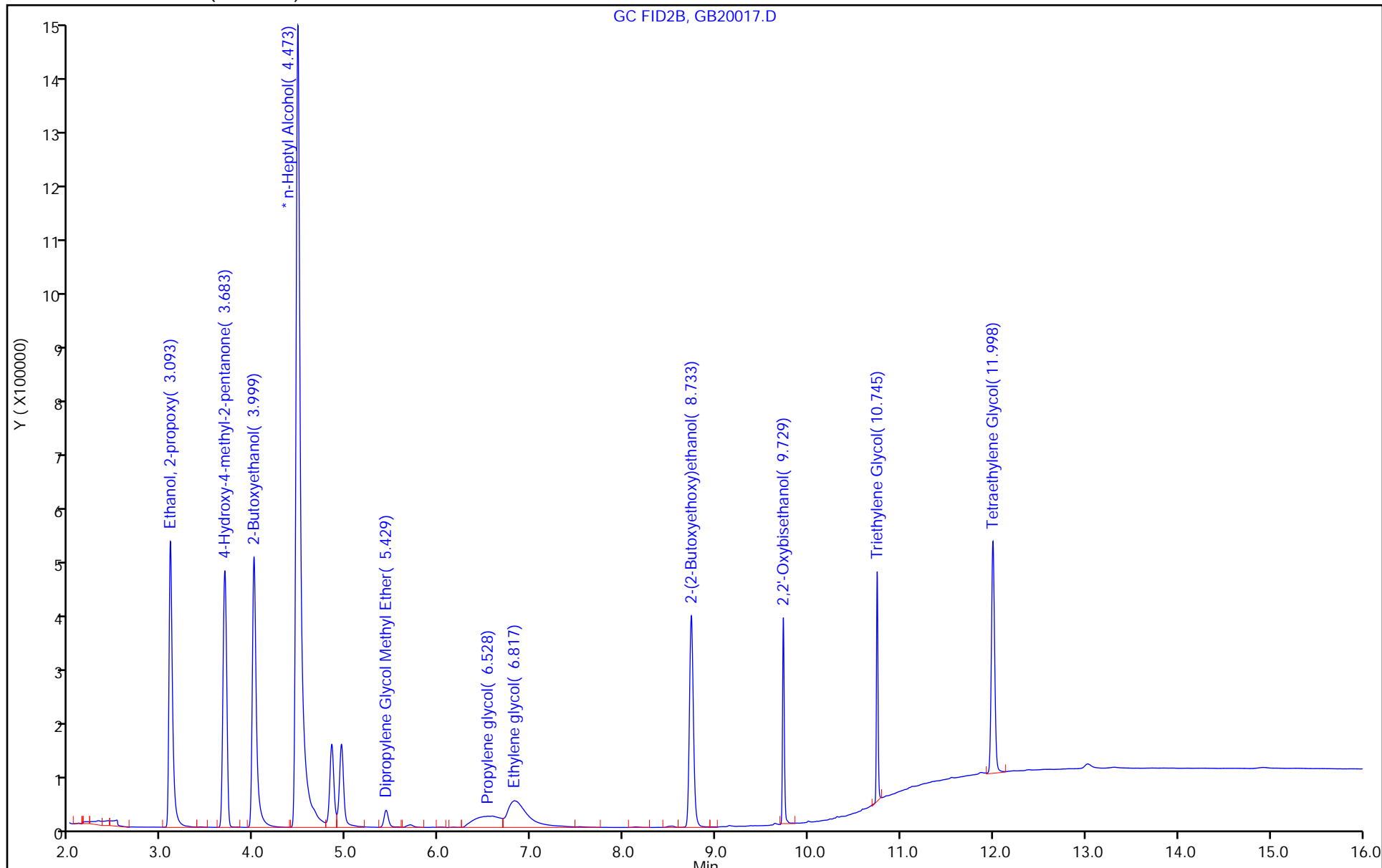
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Euofins Savannah

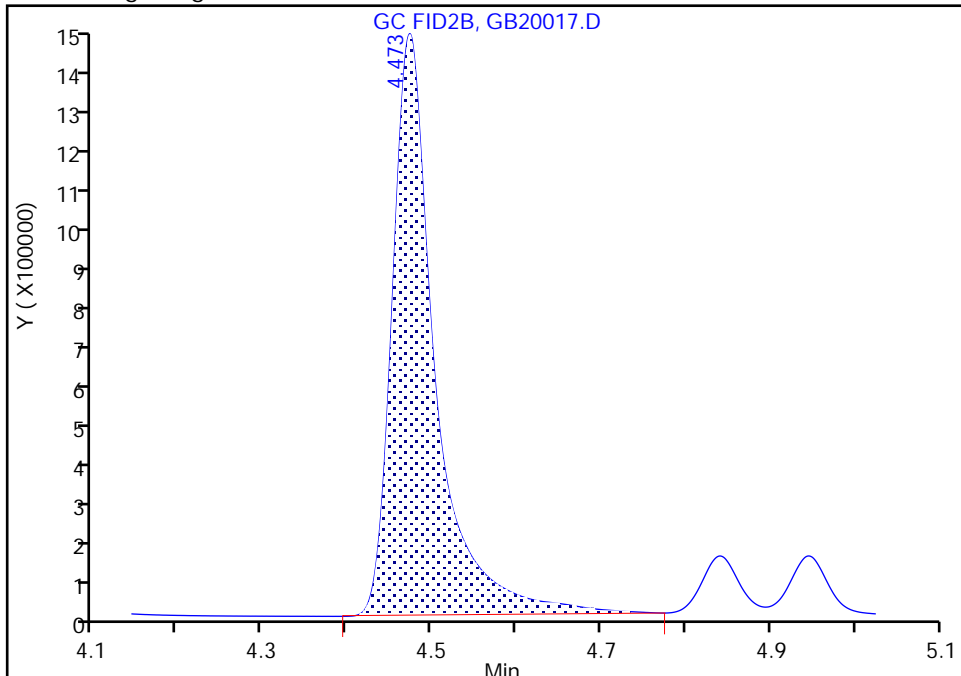
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20017.D
Injection Date: 20-Feb-2023 21:52:18 Instrument ID: CVGG2
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB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

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

Signal: 1

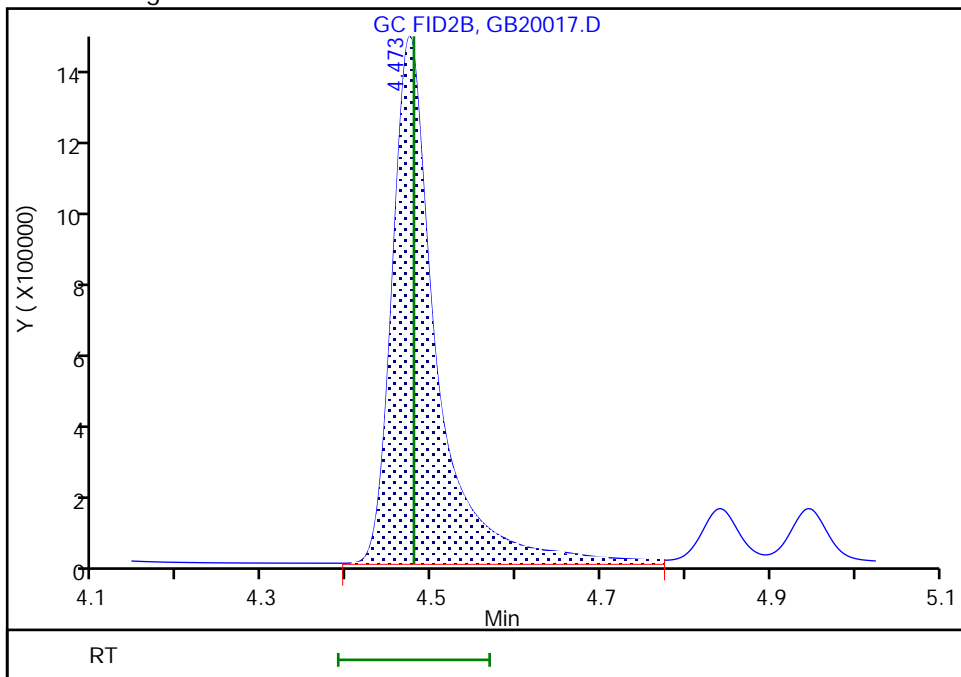
Processing Integration Results

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.: 580-123620-1
 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 |

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.) | Diff 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 | | | | | | |
| 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 | | | | | | |
| 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

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

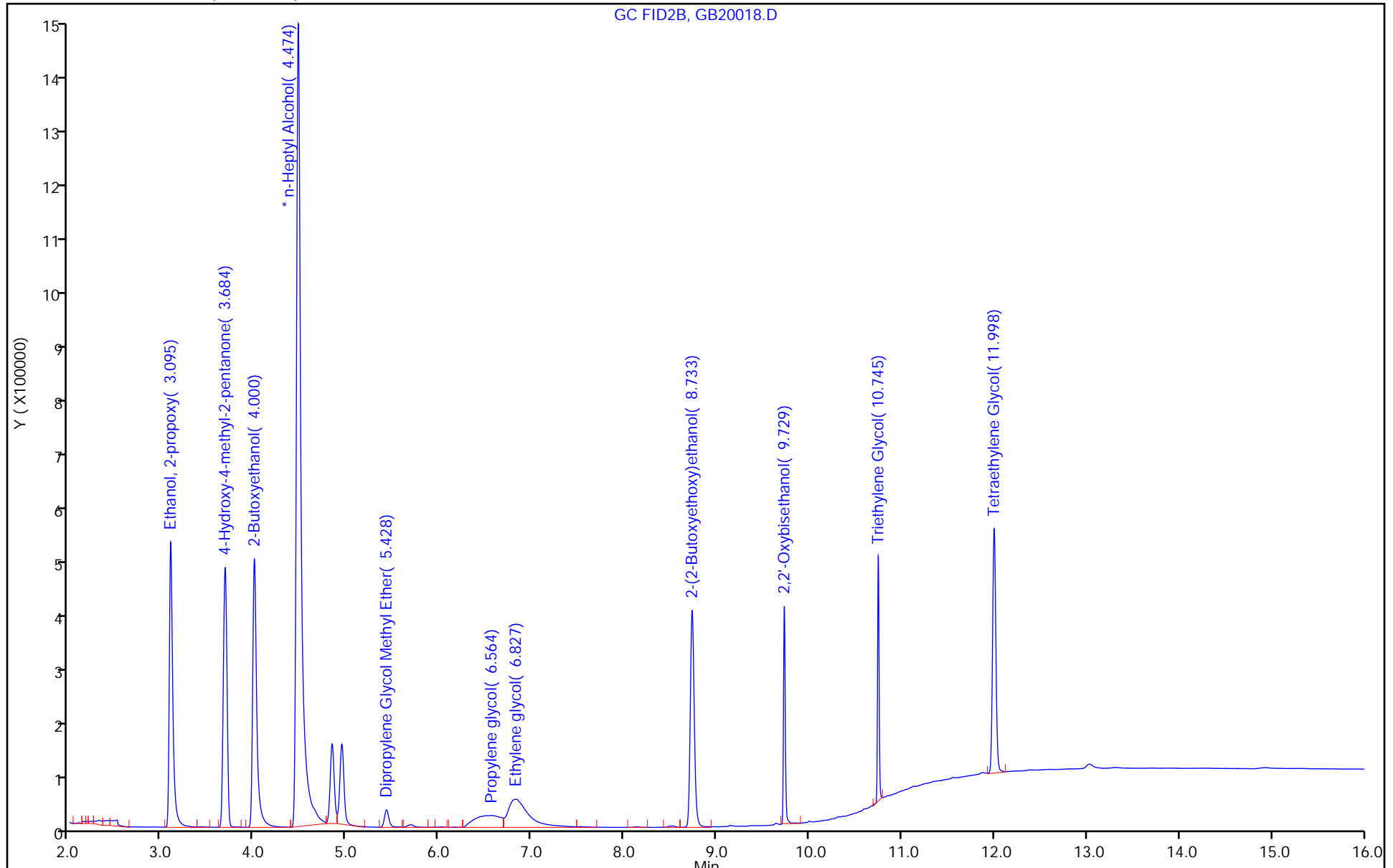
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20023.D
 Lims ID: 580-123620-C-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 21-Feb-2023 00:12:20 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083951-016
 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 | 3.099 | 3.086 | 0.013 | 1215483 | 26.0 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.690 | 3.671 | 0.019 | 1151519 | 25.5 | |
| 3 2-Butoxyethanol | 4.001 | 3.996 | 0.005 | 1309665 | 25.2 | |
| * 4 n-Heptyl Alcohol | 4.473 | 4.479 | -0.006 | 4018938 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.432 | 5.424 | 0.008 | 83566 | 24.5 | |
| 6 Propylene glycol | 6.620 | 6.567 | 0.053 | 275513 | 18.7 | |
| 7 Ethylene glycol | 6.813 | 6.821 | -0.008 | 565953 | 19.6 | |
| 8 2-(2-Butoxyethoxy)ethanol | 8.735 | 8.732 | 0.003 | 914281 | 24.4 | |
| 9 2,2'-Oxybisethanol | 9.729 | 9.729 | 0.000 | 236046 | 11.1 | |
| 10 Triethylene Glycol | 10.745 | 10.746 | -0.001 | 159322 | 7.05 | |
| 11 Tetraethylene Glycol | 11.998 | 11.997 | 0.001 | 152056 | 4.89 | |

Reagents:

SG_GLY_ISTD_00107 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20023.D

Injection Date: 21-Feb-2023 00:12:20

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-123620-C-1 MS

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

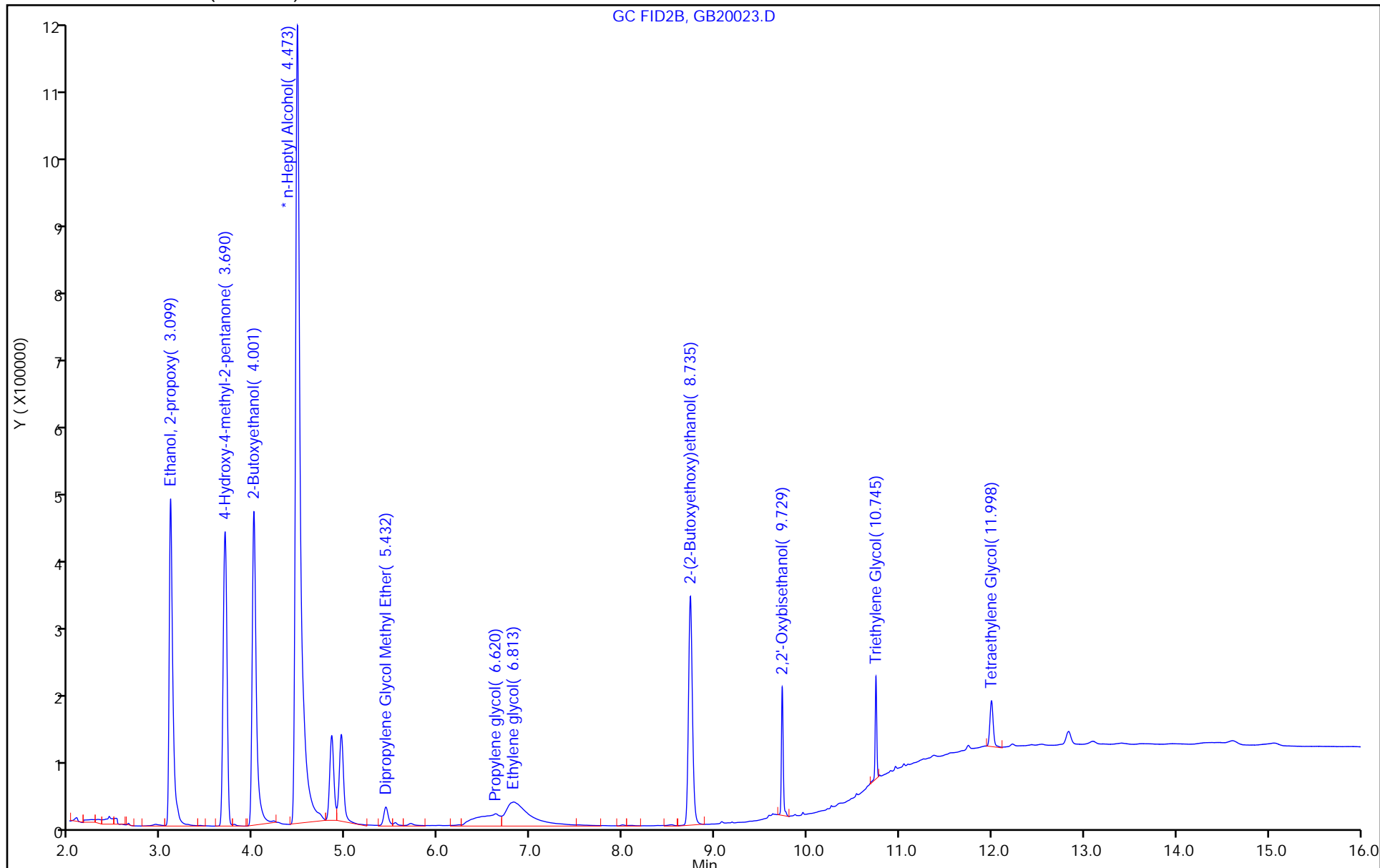
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20024.D
 Lims ID: 580-123620-C-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 21-Feb-2023 00:35:37 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0083951-017
 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 | 3.100 | 3.086 | 0.014 | 1230154 | | 27.2 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 3.691 | 3.671 | 0.020 | 1165463 | | 26.5 |
| 3 2-Butoxyethanol | 4.003 | 3.996 | 0.007 | 1335713 | | 26.6 |
| * 4 n-Heptyl Alcohol | 4.472 | 4.479 | -0.007 | 3905395 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 5.433 | 5.424 | 0.009 | 83938 | | 25.4 |
| 6 Propylene glycol | 6.538 | 6.567 | -0.029 | 152190 | | 9.58 |
| 7 Ethylene glycol | 6.818 | 6.821 | -0.003 | 551786 | | 19.7 |
| 8 2-(2-Butoxyethoxy)ethanol | 8.733 | 8.732 | 0.001 | 919898 | | 25.4 |
| 9 2,2'-Oxybisethanol | 9.729 | 9.729 | 0.000 | 301994 | | 15.6 |
| 10 Triethylene Glycol | 10.745 | 10.746 | -0.001 | 260055 | | 13.8 |
| 11 Tetraethylene Glycol | 11.997 | 11.997 | 0.000 | 269357 | | 9.79 |

Reagents:

SG_GLY_ISTD_00107 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230220-83951.b\GB20024.D

Injection Date: 21-Feb-2023 00:35:37

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-123620-C-1 MSD

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

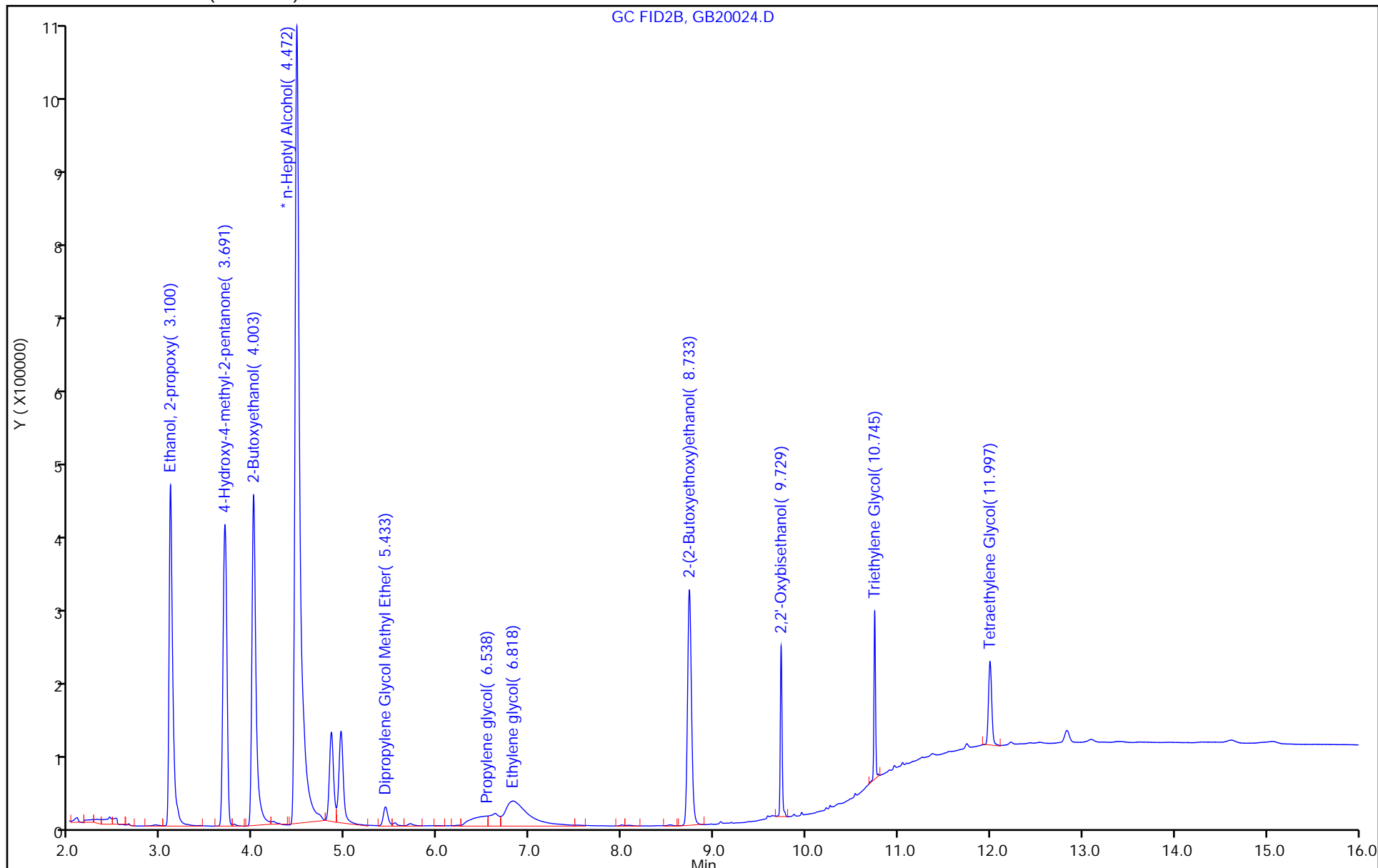
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Savannah Job No.: 580-123620-1

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) |
| 580-123620-1 | AF-RHMW06-WGN01LF-230 2W2 | 02/20/2023 23:49 | 1 | GB20022.D | J&W DB WAX 0.45 (mm) |
| 580-123620-1 MS | AF-RHMW06-WGN01LF-230 2W2 MS | 02/21/2023 00:12 | 1 | GB20023.D | J&W DB WAX 0.45 (mm) |
| 580-123620-1 MSD | AF-RHMW06-WGN01LF-230 2W2 MSD | 02/21/2023 00:35 | 1 | GB20024.D | J&W DB WAX 0.45 (mm) |
| 580-123620-2 | AF-RHMW04-WGN01LF-230 2W2 | 02/21/2023 00:58 | 1 | GB20025.D | 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) |
| ZZZZZ | | 02/21/2023 02:55 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/21/2023 03:18 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/21/2023 03:42 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/21/2023 04:05 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/21/2023 04:29 | 1 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 02/21/2023 04:52 | 1 | | 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) |
| ZZZZZ | | 02/21/2023 06:48 | 1 | | J&W DB WAX 0.45 (mm) |
| CCV 680-764187/44 | | 02/21/2023 11:05 | 1 | | J&W DB WAX 0.45 (mm) |

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-123620-1

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 | | | |
| 580-123620-C-1 | AF-RHMW06-WGN01L F-2302W2 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| 580-123620-C-1 | AF-RHMW06-WGN01L F-2302W2 | 8015C GLY | T | 1 mL | 10 uL | 10 uL | | | |
| 580-123620-C-1 | AF-RHMW06-WGN01L F-2302W2 | 8015C GLY | T | 1 mL | 10 uL | 10 uL | | | |
| 580-123620-C-2 | AF-RHMW04-WGN01L F-2302W2 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| CCV 680-764187/30 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |

| Batch Notes | |
|-------------|--|
| | |
| | |

| Basis | Basis Description |
|-------|-------------------|
| T | Total/NA |

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

Subcontract Data

Shipping and Receiving Documents

| | | | | | |
|--|--|---|--|--|--|
| Client Information Client Contact: NOAH TURNER Phone: 781-366-4777 PWSID: | | Lab PW: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): FedEx State of Origin: Hawaii | | COC No: 2302W2AFE09 Page: 1 of 1 Job #: | |
| Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SOW#: | | Analysis Requested Total Number of Containers: 3 | | Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 G - Na2SO3 F - MeOH R - Na2SO4 S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA W - pH 4-5 K - EDTA L - EDA Z - other (specify) Other: | |
| Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com Project Name: CTO N6274223F0104 Site: RHSF | | 8015C_DAL_GL_DS1_2-(2-butoxyethoxy)-ethanol Perform MS/MSD (Yes or No) <input type="checkbox"/> A Field Filtered Sample (Yes or No) <input type="checkbox"/> N N X | | Special Instructions/Note: | |
| Sample Identification AF-RHMW06-WGN01LF-2302W2 | | Sample Date: 2/13/2023 1200 Sample Time: 7:15 Sample Type (C=Comp, G=grab): G Preservation Code: W | | Special Instructions/Note: | |
| Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: DOD QSM project. | |
| Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: | | Prelim data (Level 1 or 2) = see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD. Date: | | Method of Shipment: | |
| Relinquished by: NOAH TURNER Relinquished by: GAUREN ALLEN Relinquished by: | | Date/Time: 2/13/2023 1300 Date/Time: 2-13-23 1315 Date/Time: | | Date/Time: 2-13-23 1300 Date/Time: 2/15/23 1100 Date/Time: | |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 | | Company: AECOM Company: AECOM Company: | |

| | | | | | | | |
|--|--|--|--|--|--|---|--|
| Client Information | | Company: AECOM | | Lab PIV: Elaine Walker | | Carrier Tracking No(s): 2302W2AFE08 | |
| Client Contact: | | Phone: 402-871-5712 | | E-Mail: M.Elaine.Walker@EurofinsET.com | | Page: 1 of 1 | |
| Address: | | 1001 Bishop St. Suite 1600 | | City: Honolulu | | State of Origin: Hawaii | |
| City: | | Honolulu | | State: | | Hawaii | |
| State, Zip: | | Hawaii 96813 | | PO #: | | | |
| Phone: | | 808-954-4512 / 770-331-0794 | | WO #: | | | |
| Email: | | Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com | | Project #: | | 60697810 | |
| Project Name: | | CTO N6274223F0104 | | SSOW#: | | | |
| Site: | | RHSF | | PWSID: | | | |
| Due Date Requested: | | see subcontract | | TAT Requested (days): | | Rush - ASAP | |
| Compliance Project: | | Δ Yes Δ No | | PO #: | | | |
| Sample Identification | | AF-RHMW04-WGN01LF-2302W2 | | Sample Date | | 2/13/23 | |
| Sample Type | | G | | Sample Time | | 1030 | |
| Matrix | | Water, Soil, Sediment, Air | | Preservation Code: | | W | |
| Field Filtered Sample (Yes or No) | | N | | Perform MS/MSD (Yes or No) | | N | |
| 8015C_DAL_GL_DS/2-(2-butylhexyloxy)-ethanol | | A | | Total Number of Containers | | 3 | |
| Special Instructions/Note: | | | | | | | |
| Possible Hazard Identification | | <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | 4 report standard TAT, AECOM EQUIS EDD | | Preim data (Level 1 or 2)=see TAT above, DoD Stage | | Special Instructions/QC Requirements: DOD QSM project. | |
| Empty Kit Relinquished by: | | Date: | | Method of Shipment: | | Time: | |
| Relinquished by: Andy Young as of 2/13/23 | | Date/Time: 2/13/23 1305 | | Relinquished by: Brittany Tominez as of 2/15/23 | | Date/Time: 2/15/23 1600 | |
| Relinquished by: Brittany Tominez as of 2/15/23 | | Date/Time: 2/15/23 1315 | | Relinquished by: | | Date/Time: | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | 2.1 / 2.1 | |

Chain of Custody Record

| | | | |
|---|--|---|---|
| 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@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RH5F | Sampler Name: NOAH TURNER Phone: 781-366-4777 PWSID: | Lab PM Name: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com | Carrier Tracking No(s) FedEX State of Origin: Hawaii |
| Analysis Requested Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#: | | COC No: 2302W2AFE09 Page: Page 1 of 1 Job #: | |
| Sample Identification AF-RHMW06-WGN01LF-2302W2 Sample Date: 2/13/2023 1200 Sample Time: 2/13/2023 Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=ice, A=air): W Preservation Code: | | Analysis Requested Total Number of Containers: 3 Special Instructions/Note: | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I II III IV Other (specify) | | Sample Disposal (A fee may be as) <input type="checkbox"/> Return To Client <input type="checkbox"/> Dis. | |
| Empty Kit Relinquished by Relinquished by: NOAH TURNER Date/Time: 2/13/2023 1300 Relinquished by: GABRIEL AVEN Date/Time: 2-13-23 1315 Relinquished by: | | Method of Shipment Date/Time: 2-13-23 1300 Date/Time: 2/15/23 1100 Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 | |

Chain of Custody Record

| | | | | | | | | | |
|---|--|---|--|---|--|---|--|---|--|
| Client Information | | Sampler: <u>Andy Young</u> | | Lab PIV: <u>Elaine Walker</u> | | Carrier Tracking No(s): <u>FedEx</u> | | COC No: <u>2302W2AFEA08</u> | |
| Client Contact: | | Phone: <u>402-871-5712</u> | | E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u> | | State of Origin: <u>Hawaii</u> | | Page: <u>Page 1 of 1</u> | |
| Company: <u>AECOM</u> | | PWSID: | | E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u> | | Job #: | | Job #: | |
| Address: <u>1001 Bishop St. Suite 1600</u> | | Due Date Requested: <u>see subcontract</u> | | Analysis Requested: | | Total Number of Containers: <u>3</u> | | Preservation Codes: | |
| City: <u>Honolulu</u> | | TAT Requested (days): <u>Rush - ASAP</u> | | Perform MMSD (Yes or No): <u>X</u> | | Field Filtered Sample (Yes or No): <u>X</u> | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SD3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) | |
| State, Zip: <u>Hawaii 96813</u> | | Compliance Project: <u>Δ Yes Δ No</u> | | 8015C, DAL, GL, DS/2-(2-butoxyethoxy)-ethanol | | 8015C, DAL, GL, DS/2-(2-butoxyethoxy)-ethanol | | 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 - EDTA Other | |
| Phone: <u>808-954-4512 / 770-331-0794</u> | | PO #: | | Matrix (W=Water, S=solid, O=swast/oil, BT=Tissue, AA=AI) | | Special Instructions/Note: | | | |
| Email: <u>Watson.Tanji@aeom.com / Mark.Kromis@aeom.com</u> | | WC #: | | Sample Type (C=Comp, G=grab) Preservation Code: | | | | | |
| Project Name: <u>CTO N6274223F0104</u> | | Project #: <u>60697810</u> | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| Site: <u>RHSF</u> | | SSOW#: | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| AF-RHMW04-WGN01F-2302W2 | | | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| Possible Hazard Identification | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| Deliverable Requested I II III IV Other (specify) | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| Empty Kit Relinquished by | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> Sample Date: <u>2/13/23</u> Sample Time: <u>1030</u> | | | | | |
| Relinquished by: <u>Andy Young</u> | | Date/Time: <u>2/13/23 1305</u> | | Date/Time: <u>2/13/23 1305</u> | | | | | |
| Relinquished by: <u>Bethany Tommiez</u> | | Date/Time: <u>02/13/23 1315</u> | | Date/Time: <u>02/13/23 1315</u> | | | | | |
| Relinquished by: | | Date/Time: | | Date/Time: | | | | | |
| Custody Seals Intact: <u>Δ Yes Δ No</u> | | Custody Seal No. | | Custody Seal No. | | | | | |
| Cooler Temperature(s) °C and Other Remarks: <u>2.1 / 2.1</u> | | Cooler Temperature(s) °C and Other Remarks: | | Cooler Temperature(s) °C and Other Remarks: | | | | | |
| Received by: <u>Bethany Tommiez</u> | | Date/Time: <u>02/13/23 1305</u> | | Date/Time: <u>02/13/23 1305</u> | | | | Company: <u>AECOM</u> | |
| Received by: | | Date/Time: | | Date/Time: | | | | Company: | |
| Received by: | | Date/Time: | | Date/Time: | | | | Company: | |
| Method of Shipment: | | Date/Time: | | Date/Time: | | | | Company: | |
| Special Instructions/QC Requirements: <u>DOD QSM project.</u> | | Date/Time: | | Date/Time: | | | | Company: | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | Date/Time: | | Date/Time: | | | | Company: | |
| <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u> </u> Months | | Date/Time: | | Date/Time: | | | | Company: | |

Chain of Custody Record

| | | | | | | | |
|---|--|--|--|--|--------------------------------|---|--|
| Client Information | | Sampler: Natt Yin | | Lab Pkt: Elaine Walker | Carrier Tracking No(s): | COC No: 2302W1AFE10 | |
| Client Contact: | | Phone: 808-349-4738 | | E-Mail: M.Elaine.Walker@EurofinsET.com | State of Origin: Hawaii | Page: 1 of 1 | |
| Company: AECOM | | PWSID: | | Job #: | | | |
| Address: 1001 Bishop St. Suite 1600 | | Due Date Requested: see subcontract | | Analysis Requested: | | | |
| City: Honolulu | | TAT Requested (days): Rush - ASAP | | Preservation Codes: | | | |
| State: Zip: Hawaii 96813 | | Compliance Project: Yes No | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | | |
| Phone: 808-954-4512 / 770-331-0794 | | Project #: | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | |
| Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com) | | Project Name: CTO N6274223F0104 | | Special Instructions/Note: | | | |
| Site: RHSF | | SSOM#: | | Total Number of Containers: 3 | | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type | |
| AF-RHMV17-WGN01LF-2302W1 | | 2/10/23 | | 1100 | | G | |
| Matrix (Residue, Swab, Soil, Tissue, Acid) | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | 8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol | |
| | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| Preservation Code: | | W | | N | | X | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | <input type="checkbox"/> Return To Client | | <input type="checkbox"/> Disposal By Lab | | <input type="checkbox"/> Archive For _____ Months | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard | | <input type="checkbox"/> Flammable | | <input type="checkbox"/> Skin Irritant | |
| Deliverable Requested I II III IV Other (specify) | | Prelim data (Level 1 or 2) - see TAT above, DoD Stage 4 report standard IAT, AECOM EQUIS EDD | | Special Instructions/QC Requirements: DOD QSM project | | Method of Shipment: | |
| Empty Kit Relinquished by: | | Date: | | Time: | | Received by: | |
| Relinquished by: Natt Yin | | Date/Time: 2/10/23 1315 | | Company: AECOM | | Received by: Miranda Deiano | |
| Relinquished by: Miranda Deiano | | Date/Time: 2/13/23 1140 | | Company: AECOM | | Received by: Natt Yin | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | |
| Custody Seals Intact: Yes No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks: 2-1/2-1 | | Company: AECOM | |

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-123620-1

Login Number: 123620
List Number: 2
Creator: Johnson, Corey M

List Source: Eurofins Savannah
List Creation: 02/17/23 11:30 AM

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