

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

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu HI 96813

Generated 5/9/2023 10:27 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126724-1

Eurofins Seattle

Job Notes

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

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

Authorization



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Definitions/Glossary

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

Job ID: 580-126724-1

Qualifiers

GC Semi VOA

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| 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: 580-126724-1

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

Two samples were received on 5/2/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° 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-RHMW03-WGN01LF-2304W4 (580-126724-1) and AF-RHMW02-WGN01LF-2304W4 (580-126724-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/05/2023.

The continuing calibration verification (CCV) associated with batch 680-777037 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported.

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

Detection Summary

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

Job ID: 580-126724-1

Client Sample ID: AF-RHMW03-WGN01LF-2304W4

Lab Sample ID: 580-126724-1

No Detections.

Client Sample ID: AF-RHMW02-WGN01LF-2304W4

Lab Sample ID: 580-126724-2

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: 580-126724-1

Client Sample ID: AF-RHMW03-WGN01LF-2304W4

Lab Sample ID: 580-126724-1

Date Collected: 04/27/23 11:25

Matrix: Water

Date Received: 05/02/23 10:30

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

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M Q | 5.0 | 1.1 | mg/L | | | 05/05/23 00:56 | 1 |

Client Sample ID: AF-RHMW02-WGN01LF-2304W4

Lab Sample ID: 580-126724-2

Date Collected: 04/27/23 09:55

Matrix: Water

Date Received: 05/02/23 10:30

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

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U Q | 5.0 | 1.1 | mg/L | | | 05/05/23 01:20 | 1 |

Default Detection Limits

Client: AECOM

Job ID: 580-126724-1

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: 580-126724-1

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

Lab Sample ID: MB 680-777037/16
Matrix: Water
Analysis Batch: 777037

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 | | | 05/04/23 23:24 | 1 |

Lab Sample ID: LCS 680-777037/12
Matrix: Water
Analysis Batch: 777037

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 | 23.3 | | mg/L | | 116 | 50 - 150 |

Lab Sample ID: LCSD 680-777037/13
Matrix: Water
Analysis Batch: 777037

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 | 21.8 | | mg/L | | 109 | 50 - 150 | 6 | 50 |

Lab Sample ID: 580-126724-2 MS
Matrix: Water
Analysis Batch: 777037

Client Sample ID: AF-RHMW02-WGN01LF-2304W4
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U Q | 20.0 | 21.7 | | mg/L | | 109 | 50 - 150 |

Lab Sample ID: 580-126724-2 MSD
Matrix: Water
Analysis Batch: 777037

Client Sample ID: AF-RHMW02-WGN01LF-2304W4
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U Q | 20.0 | 25.4 | | mg/L | | 127 | 50 - 150 | 16 | 50 |

QC Association Summary

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

Job ID: 580-126724-1

GC Semi VOA

Analysis Batch: 777037

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|-----------|------------|
| 580-126724-1 | AF-RHMW03-WGN01LF-2304W4 | Total/NA | Water | 8015C GLY | |
| 580-126724-2 | AF-RHMW02-WGN01LF-2304W4 | Total/NA | Water | 8015C GLY | |
| MB 680-777037/16 | Method Blank | Total/NA | Water | 8015C GLY | |
| LCS 680-777037/12 | Lab Control Sample | Total/NA | Water | 8015C GLY | |
| LCSD 680-777037/13 | Lab Control Sample Dup | Total/NA | Water | 8015C GLY | |
| 580-126724-2 MS | AF-RHMW02-WGN01LF-2304W4 | Total/NA | Water | 8015C GLY | |
| 580-126724-2 MSD | AF-RHMW02-WGN01LF-2304W4 | Total/NA | Water | 8015C GLY | |

Lab Chronicle

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

Job ID: 580-126724-1

Client Sample ID: AF-RHMW03-WGN01LF-2304W4

Lab Sample ID: 580-126724-1

Date Collected: 04/27/23 11:25

Matrix: Water

Date Received: 05/02/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 777037 | GEM | EET SAV | 05/05/23 00:56 |

Client Sample ID: AF-RHMW02-WGN01LF-2304W4

Lab Sample ID: 580-126724-2

Date Collected: 04/27/23 09:55

Matrix: Water

Date Received: 05/02/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 777037 | GEM | EET SAV | 05/05/23 01:20 |

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: 580-126724-1

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: 580-126724-1

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: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 580-126724-1 | AF-RHMW03-WGN01LF-2304W4 | Water | 04/27/23 11:25 | 05/02/23 10:30 |
| 580-126724-2 | AF-RHMW02-WGN01LF-2304W4 | Water | 04/27/23 09:55 | 05/02/23 10:30 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777037Lab Sample ID: IC 680-777037/4 Client Sample ID: _____Date Analyzed: 05/04/23 18:45 Lab File ID: GE04013.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2,2'-Oxybisethanol | 8.81 | Baseline Smoothing | SK9U | 05/05/23 11:26 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:12 |

Lab Sample ID: IC 680-777037/5 Client Sample ID: _____Date Analyzed: 05/04/23 19:08 Lab File ID: GE04014.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:12 |

Lab Sample ID: IC 680-777037/6 Client Sample ID: _____Date Analyzed: 05/04/23 19:31 Lab File ID: GE04015.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 4-Hydroxy-4-methyl-2-pentanone | 2.58 | Baseline Smoothing | SK9U | 05/05/23 11:57 |
| 2-Butoxyethanol | 2.77 | Baseline Smoothing | SK9U | 05/05/23 11:57 |
| n-Heptyl Alcohol | 3.08 | Baseline Smoothing | SK9U | 05/05/23 11:57 |
| 2,2'-Oxybisethanol | 8.81 | Baseline Smoothing | SK9U | 05/05/23 11:26 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:11 |

Lab Sample ID: ICIS 680-777037/7 Client Sample ID: _____Date Analyzed: 05/04/23 19:54 Lab File ID: GE04016.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2,2'-Oxybisethanol | 8.81 | Baseline Smoothing | SK9U | 05/05/23 11:26 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:11 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777037Lab Sample ID: IC 680-777037/8 Client Sample ID: _____Date Analyzed: 05/04/23 20:18 Lab File ID: GE04017.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| n-Heptyl Alcohol | 3.07 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Propylene glycol | 4.76 | Baseline Smoothing | SK9U | 05/05/23 11:28 |
| Ethylene glycol | 4.99 | Baseline Smoothing | SK9U | 05/05/23 11:28 |
| 2-(2-Butoxyethoxy)ethanol | 6.67 | Baseline Smoothing | SK9U | 05/05/23 11:28 |
| 2,2'-Oxybisethanol | 8.81 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:11 |

Lab Sample ID: IC 680-777037/9 Client Sample ID: _____Date Analyzed: 05/04/23 20:41 Lab File ID: GE04018.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 4.76 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Ethylene glycol | 4.99 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:11 |

Lab Sample ID: IC 680-777037/10 Client Sample ID: _____Date Analyzed: 05/04/23 21:04 Lab File ID: GE04019.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|--------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Propylene glycol | 4.77 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Ethylene glycol | 5.00 | Baseline Smoothing | SK9U | 05/05/23 11:29 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:10 |

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1

SDG No.: _____

Instrument ID: CVGG2 Analysis Batch Number: 777037

Lab Sample ID: ICV 680-777037/11 CCV Client Sample ID: _____

Date Analyzed: 05/04/23 21:27 Lab File ID: GE04020.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-Butoxyethanol | 2.77 | Baseline Smoothing | SK9U | 05/05/23 11:46 |
| Dipropylene Glycol Methyl Ether | 3.83 | Baseline Smoothing | SK9U | 05/05/23 11:46 |
| Propylene glycol | 4.74 | Baseline Smoothing | SK9U | 05/05/23 11:46 |
| Ethylene glycol | 4.99 | Baseline Smoothing | SK9U | 05/05/23 11:46 |
| Triethylene Glycol | 10.06 | Baseline Smoothing | SK9U | 05/05/23 12:12 |

Lab Sample ID: MB 680-777037/16 Client Sample ID: _____

Date Analyzed: 05/04/23 23:24 Lab File ID: GE04025.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-(2-Butoxyethoxy)ethanol | | Invalid Compound ID | SK9U | 05/05/23 12:08 |

Lab Sample ID: 580-126724-1 Client Sample ID: AF-RHMW03-WGN01LF-2304W4

Date Analyzed: 05/05/23 00:56 Lab File ID: GE04029.D GC Column: J&W DB WAX ID: 0.45 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------------|----------------|---------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-(2-Butoxyethoxy)ethanol | | Invalid Compound ID | SK9U | 05/05/23 12:22 |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1

SDG No.: _____

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent | | Analyte | Concentration |
|--------------------------|----------|-----------|-------------------------|----------------------|----------------|---------------------|---------------------------------|---------------|
| | | | | | Reagent ID | Volume Added | | |
| SG_Gly_CAL_00049 | 10/11/23 | | o2si, Lot 480919 | | | (Purchased Reagent) | 2,2'-Oxybisethanol | 2000 ug/mL |
| | | | | | | | 2-(2-Butoxyethoxy)ethanol | 2000 ug/mL |
| | | | | | | | 2-Butoxyethanol | 2000 ug/mL |
| | | | | | | | 4-Hydroxy-4-methyl-2-pentanone | 2000 ug/mL |
| | | | | | | | Dipropylene Glycol Methyl Ether | 2000 ug/mL |
| | | | | | | | Ethanol, 2-propoxy | 2000 ug/mL |
| | | | | | | | Ethylene glycol | 2000 ug/mL |
| | | | | | | | Propylene glycol | 2000 ug/mL |
| SG_GLY_ISTD_00116 | 11/04/23 | | Agilent, Lot 0006738806 | | | (Purchased Reagent) | n-Heptyl Alcohol | 5000 ug/mL |
| SG_GlyICV_00057 | 07/01/23 | | o2si, Lot 454407 | | | (Purchased Reagent) | 2-(2-Butoxyethoxy)ethanol | 2000 ug/mL |

Reagent

SG_Gly_CAL_00049



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

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

Description:

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

Container:

1 ml Ampule, Amber Glass

Certified Values:

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

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

Intended Uses:

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

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

Certificate of Analysis

Page 2 of 3

Catalog No. G34-120070-04

Lot No. 480919

Expiration Date 2 -May-2024

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

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

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

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

Method of Preparation:

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

Packaging and Storage:

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

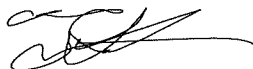


Brian Stokes

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.

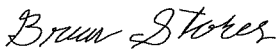
Expiration Information:

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_00116

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard

Lot Number: 0006738806

Product Number: CUS-6046

Lot Issue Date: 05-Apr-2023

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

Expiration Date: 31-May-2025

| Component Name | Concentration | Uncertainty | CAS# | Analyte Lot |
|----------------|---------------|-------------|-------------|-------------|
| n-heptanol | 5008 | ± 25 µg/mL | 000111-70-6 | RM04540 |

Matrix: methanol (methyl alcohol)

Description:

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

Traceability:

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

Homogeneity:

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

Instructions for Use:

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

Safety:

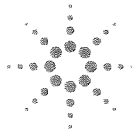
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

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

Expiration of Certification:

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



Agilent

Trusted Answers

Maintenance of Certification:

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

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

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

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1

ISO 17025

Reagent

SG_GlyICV_00057



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



ISO 17034 Accredited
Reference Material Producer
Cert. No. 3031.02

Rev 0

Certificate of Analysis

Page 1 of 3

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

Description:

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

Container:

1 ml Ampule, Amber Glass

Certified Values:

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

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

Intended Uses:

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

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

Certificate of Analysis

Page 2 of 3

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

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

Manufactured By:

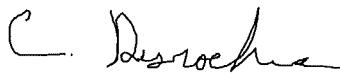


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:



Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

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

Certificate of Analysis

Catalog No. G34-120070-04-SS

Lot No. 454407

Expiration Date 1 -Jul-2023

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

Expiration Information:

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

Quality Standard Documentation:

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

Manufactured By:

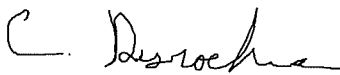


Jared Ball

1 -Jul-2021

Quality Control Chemist I

Certified By:

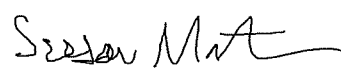


Claire Desrochers

7 -Jul-2021

Quality Control Chemist I

Released By:



Susan Mathews

8 -Jul-2021

Quality Control Team Lead

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

Method 8015C - DAI Glycols

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

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE04021.D
 Lab ID: LCS 680-777037/12 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCS CONCENTRATION (mg/L) | LCS % REC | QC LIMITS REC | # |
|----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 23.3 | 116 | 50-150 | |

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

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE04022.D
 Lab ID: LCSD 680-777037/13 Client ID: _____

| COMPOUND | SPIKE ADDED (mg/L) | LCSD CONCENTRATION (mg/L) | LCSD % REC | % RPD | QC LIMITS | | # |
|----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 21.8 | 109 | 6 | 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.: 580-126724-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE04031.D
 Lab ID: 580-126724-2 MS Client ID: AF-RHMW02-WGN01LF-2304W4 MS

| COMPOUND | SPIKE ADDED (mg/L) | SAMPLE CONCENTRATION (mg/L) | MS CONCENTRATION (mg/L) | MS % REC | QC LIMITS REC | # |
|----------------------------|--------------------|-----------------------------|-------------------------|----------|---------------|---|
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 3.0 U | 21.7 | 109 | 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.: 580-126724-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: GE04032.D
 Lab ID: 580-126724-2 MSD Client ID: AF-RHMW02-WGN01LF-2304W4 MSD

| COMPOUND | SPIKE ADDED (mg/L) | MSD CONCENTRATION (mg/L) | MSD % REC | % RPD | QC LIMITS | | # |
|----------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 2-(2-Butoxyethoxy) ethanol | 20.0 | 25.4 | 127 | 16 | 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.: 580-126724-1
 SDG No.: _____
 Lab Sample ID: MB 680-777037/16
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) GE04025.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/04/2023 23:24 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 680-777037/12 | 05/04/2023 21:51 | |
| | LCSD 680-777037/13 | 05/04/2023 22:14 | |
| AF-RHMMW03-WGN01LF-2304W4 | 580-126724-1 | 05/05/2023 00:56 | |
| AF-RHMMW02-WGN01LF-2304W4 | 580-126724-2 | 05/05/2023 01:20 | |
| AF-RHMMW02-WGN01LF-2304W4 MS | 580-126724-2 MS | 05/05/2023 01:43 | |
| AF-RHMMW02-WGN01LF-2304W4 MSD | 580-126724-2 MSD | 05/05/2023 02:06 | |

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

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Sample No.: ICIS 680-777037/7 Date Analyzed: 05/04/2023 19:54
 Instrument ID: CVGG2 GC Column: J&W DB WAX ID: 0.45 (mm)
 Lab File ID (Standard): GE04016.D Heated Purge: (Y/N) N
 Calibration ID: 90920

| | | nHPA | | | | | |
|-------------------------------|----------------------------------|----------|------|---|------|---|------|
| | | AREA # | RT # | # | RT # | # | RT # |
| INITIAL CALIBRATION MID-POINT | | 5680103 | 3.08 | | | | |
| UPPER LIMIT | | 11360206 | 3.58 | | | | |
| LOWER LIMIT | | 2840052 | 2.58 | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 680-777037/11 CCV | | 5457015 | 3.07 | | | | |
| LCS 680-777037/12 | | 5634454 | 3.08 | | | | |
| LCSD 680-777037/13 | | 5575091 | 3.08 | | | | |
| MB 680-777037/16 | | 6356297 | 3.08 | | | | |
| 580-126724-1 | AF-RHMW03-WGN01LF-2 304W4 | 5397479 | 3.08 | | | | |
| 580-126724-2 | AF-RHMW02-WGN01LF-2 304W4 | 5931807 | 3.08 | | | | |
| 580-126724-2 MS | AF-RHMW02-WGN01LF-2 304W4 MS | 5740358 | 3.08 | | | | |
| 580-126724-2 MSD | AF-RHMW02-WGN01LF-2 304W4 MSD | 5141179 | 3.07 | | | | |
| CCV 680-777037/27 | | 5496144 | 3.07 | | | | |

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.: 580-126724-1
 SDG No.: _____
 Client Sample ID: AF-RHMW03-WGN01LF-2304W4 Lab Sample ID: 580-126724-1
 Matrix: Water Lab File ID: GE04029.D
 Analysis Method: 8015C GLY Date Collected: 04/27/2023 11:25
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/05/2023 00:56
 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.: 777037 Units: mg/L

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

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04029.D
 Lims ID: 580-126724-A-1
 Client ID: AF-RHMW03-WGN01LF-2304W4
 Sample Type: Client
 Inject. Date: 05-May-2023 00:56:56 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-020
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:22:55 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:22:20

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

* 4 n-Heptyl Alcohol
 3.080 3.082 -0.002 5397479 50.0

QC Flag Legend

Processing Flags

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04029.D

Injection Date: 05-May-2023 00:56:56

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126724-A-1

Lab Sample ID: 680-126724-1

Worklist Smp#: 20

Client ID: AF-RHMW03-WGN01LF-2304W4

Injection Vol: 1.0 ul

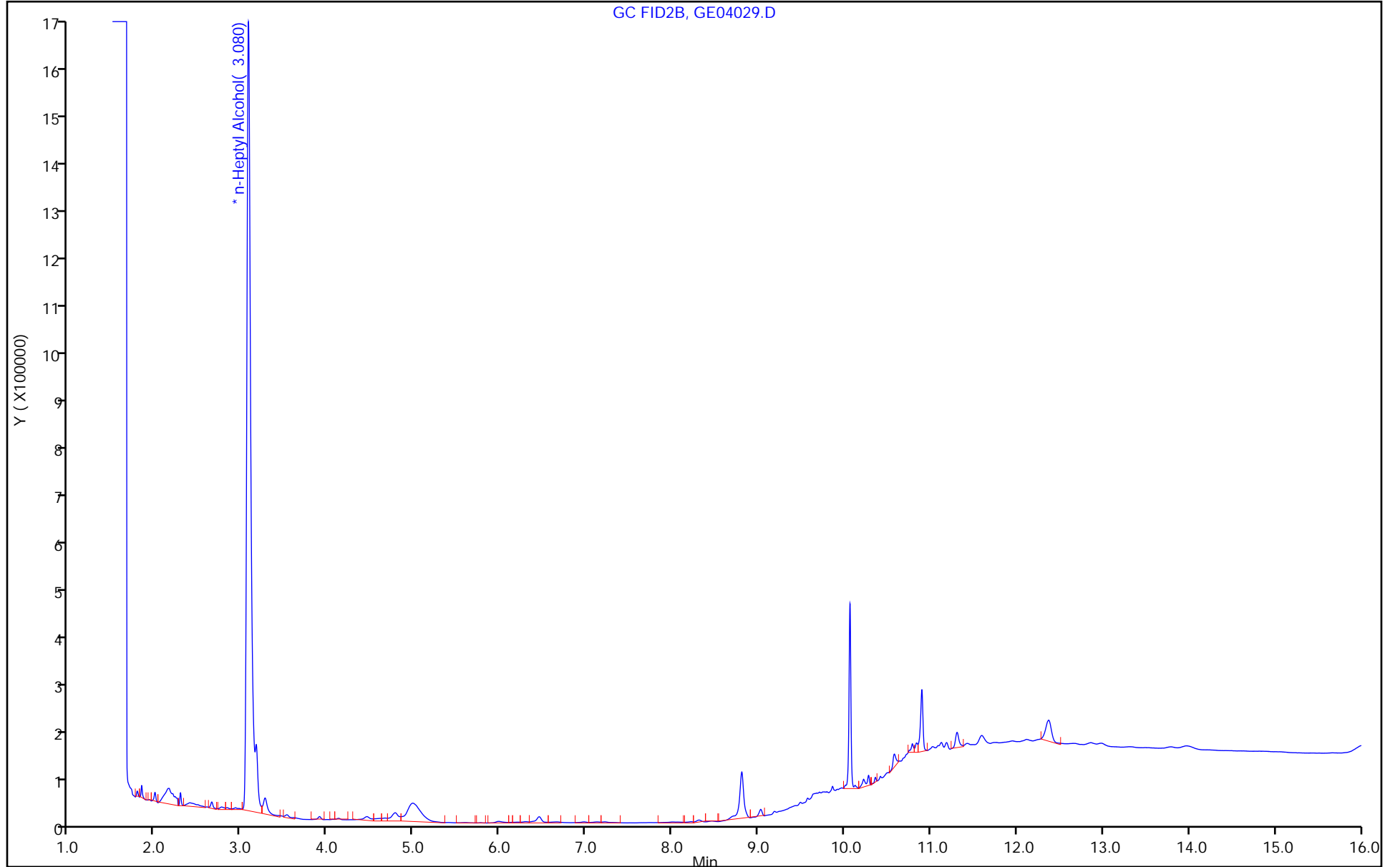
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Lab Sample ID: 580-126724-2
 Matrix: Water Lab File ID: GE04030.D
 Analysis Method: 8015C GLY Date Collected: 04/27/2023 09:55
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/05/2023 01:20
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)
 % Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
 Cleanup Factor: _____
 Analysis Batch No.: 777037 Units: mg/L

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

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04030.D
 Lims ID: 580-126724-C-2
 Client ID: AF-RHMW02-WGN01LF-2304W4
 Sample Type: Client
 Inject. Date: 05-May-2023 01:20:06 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-021
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:22:55 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:22:55

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

| | | | | | |
|-----------------------------|--------|--------|---------|---------|---|
| 1 Ethanol, 2-propoxy | | | | | 7 |
| 2.231 | 2.225 | 0.006 | 37909 | -0.7746 | 7 |
| LOD = 0.5000 | | | | | |
| 3 2-Butoxyethanol | | | | | 7 |
| 2.771 | 2.768 | 0.003 | 5342 | -0.5598 | 7 |
| LOD = 0.5000 | | | | | |
| * 4 n-Heptyl Alcohol | | | | | |
| 3.084 | 3.082 | 0.002 | 5931807 | 50.0 | |
| 6 Propylene glycol | | | | | |
| 4.791 | 4.739 | 0.052 | 55043 | 4.48 | |
| 7 Ethylene glycol | | | | | |
| 4.984 | 4.988 | -0.004 | 139354 | 3.07 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | 7 |
| 6.609 | 6.670 | -0.061 | 7979 | 0.1357 | 7 |
| LOD = 0.5000 | | | | | |
| 9 2,2'-Oxybisethanol | | | | | |
| 8.812 | 8.808 | 0.004 | 131545 | 4.79 | |
| 10 Triethylene Glycol | | | | | |
| 10.064 | 10.063 | 0.001 | 142960 | 2.20 | |

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04030.D

Injection Date: 05-May-2023 01:20:06

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126724-C-2

Lab Sample ID: 680-126724-2

Worklist Smp#: 21

Client ID: AF-RHMW02-WGN01LF-2304W4

Injection Vol: 1.0 ul

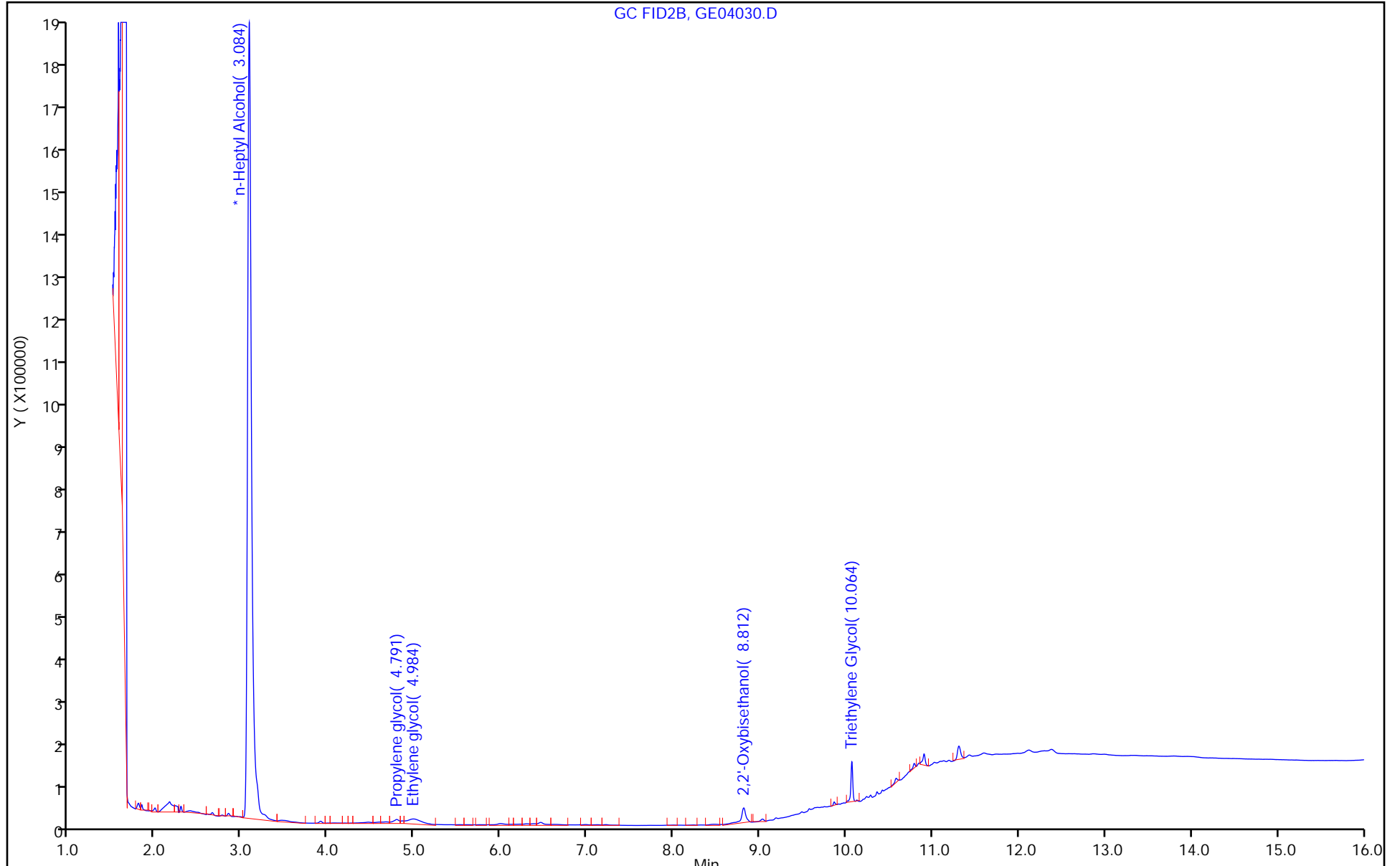
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



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

Lab Name: Eurofins Savannah Job No.: 580-126724-1 Analy Batch No.: 777037

SDG No.: _____

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

Calibration Start Date: 05/04/2023 18:45 Calibration End Date: 05/04/2023 21:04 Calibration ID: 90920

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-777037/10 | GE04019.D |
| Level 2 | IC 680-777037/9 | GE04018.D |
| Level 3 | IC 680-777037/8 | GE04017.D |
| Level 4 | ICIS 680-777037/7 | GE04016.D |
| Level 5 | IC 680-777037/6 | GE04015.D |
| Level 6 | IC 680-777037/5 | GE04014.D |
| Level 7 | IC 680-777037/4 | GE04013.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 | | | | | | | | |
| Ethanol, 2-propoxy | 0.9785 0.6183 | 0.7037 0.6338 | 0.6933 | 0.6480 | 0.5059 | Lin2 | 0.772 4 | 0.584 6 | | | | | | 0.9910 | | 0.9900 | |
| 4-Hydroxy-4-methyl-2-pentanone | 0.6522 0.5430 | 0.5442 0.5473 | 0.5903 | 0.5419 | 0.4553 | Ave | | 0.553 5 | | | 10.7 | | 20.0 | | | | |
| 2-Butoxyethanol | 0.8236 0.6527 | 0.6783 0.6617 | 0.6954 | 0.6708 | 0.5341 | Lin2 | 0.394 1 | 0.623 5 | | | | | | 0.9920 | | 0.9900 | |
| Dipropylene Glycol Methyl Ether | 0.0502 0.0484 | 0.0456 0.0466 | 0.0495 | 0.0461 | 0.0401 | Ave | | 0.046 6 | | | 7.2 | | 20.0 | | | | |
| Propylene glycol | 0.0554 0.2139 | 0.0941 0.2068 | 0.1554 | 0.1817 | 0.1856 | Qua | -0.40 7 | 0.193 6 | 0.0002063 | | | | | 0.9980 | | 0.9900 | |
| Ethylene glycol | 0.3545 0.3765 | 0.4031 +++++ | 0.2867 | 0.3295 | 0.3391 | Qua | 0.319 0 | 0.274 7 | 0.0012170 | | | | | 1.0000 | | 0.9900 | |
| 2-(2-Butoxyethoxy)ethanol | 0.5489 0.5070 | 0.5030 0.4843 | 0.5161 | 0.4871 | 0.4228 | Ave | | 0.495 6 | | | 7.8 | | 20.0 | | | | |
| 2,2'-Oxybisethanol | 0.2828 0.2632 | 0.2813 0.2586 | 0.1963 | 0.2385 | 0.2376 | Qua | 0.007 2 | 0.228 4 | 0.0003334 | | | | | 0.9990 | | 0.9900 | |
| Triethylene Glycol | 0.4605 0.2686 | 0.3870 0.2578 | 0.2748 | 0.3272 | 0.2392 | Qua | 0.678 9 | 0.238 4 | 0.0001535 | | | | | 0.9950 | | 0.9900 | |
| Tetraethylene Glycol | 0.2561 0.2668 | 0.2654 0.2565 | 0.2056 | 0.2473 | 0.2390 | Ave | | 0.248 1 | | | 8.5 | | 20.0 | | | | |

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

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

Lab Name: Eurofins Savannah Job No.: 580-126724-1 Analy Batch No.: 777037

SDG No.: _____

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

Calibration Start Date: 05/04/2023 18:45 Calibration End Date: 05/04/2023 21:04 Calibration ID: 90920

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-777037/10 | GE04019.D |
| Level 2 | IC 680-777037/9 | GE04018.D |
| Level 3 | IC 680-777037/8 | GE04017.D |
| Level 4 | ICIS 680-777037/7 | GE04016.D |
| Level 5 | IC 680-777037/6 | GE04015.D |
| Level 6 | IC 680-777037/5 | GE04014.D |
| Level 7 | IC 680-777037/4 | GE04013.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---------------------------------|--------|------------|-------------------|-------------------|--------|---------|---------|-----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Ethanol, 2-propoxy | nHPA | Lin2 | 219781 4947508 | 348962 4592890 | 741209 | 1472288 | 2422595 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 4-Hydroxy-4-methyl-2-pentanone | nHPA | Ave | 146502 4345538 | 269856 3965788 | 631103 | 1231256 | 2180486 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2-Butoxyethanol | nHPA | Lin2 | 184986 5222938 | 336372 4795155 | 743452 | 1524064 | 2557714 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Dipropylene Glycol Methyl Ether | nHPA | Ave | 11270 387428 | 22596 338031 | 52872 | 104755 | 191987 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Propylene glycol | nHPA | Qua | 12451 1712034 | 46664 1498454 | 166185 | 412910 | 888748 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Ethylene glycol | nHPA | Qua | 79618 3012839 | 199874 ++++ | 306483 | 748659 | 1623885 | 2.00 80.0 | 5.00 ++++ | 10.0 | 20.0 | 50.0 |
| 2-(2-Butoxyethoxy)ethanol | nHPA | Ave | 123292 4056948 | 249421 3509402 | 551776 | 1106769 | 2025020 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| 2,2'-Oxybisethanol | nHPA | Qua | 63516 2106213 | 139477 1873829 | 209902 | 541948 | 1137805 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Triethylene Glycol | nHPA | Qua | 103427 2149203 | 191920 1868379 | 293830 | 743449 | 1145441 | 2.00 80.0 | 5.00 100 | 10.0 | 20.0 | 50.0 |
| Tetraethylene Glycol | nHPA | Ave | 115048 4270780 | 263229 3717174 | 439677 | 1123689 | 2288803 | 4.00 160 | 10.0 200 | 20.0 | 40.0 | 100 |

Curve Type Legend

| |
|-----------------------------|
| Ave = Average 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.: 580-126724-1 Analy Batch No.: 777037

SDG No.: _____

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

Calibration Start Date: 05/04/2023 18:45 Calibration End Date: 05/04/2023 21:04 Calibration ID: 90920

Calibration Files

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 680-777037/10 | GE04019.D |
| Level 2 | IC 680-777037/9 | GE04018.D |
| Level 3 | IC 680-777037/8 | GE04017.D |
| Level 4 | ICIS 680-777037/7 | GE04016.D |
| Level 5 | IC 680-777037/6 | GE04015.D |
| Level 6 | IC 680-777037/5 | GE04014.D |
| Level 7 | IC 680-777037/4 | GE04013.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 | 1.3 7.1 | -6.0 | 5.4 | 4.2 | -16.1 | 4.1 | 20 20 | 20 | 20 | 20 | 20 | 20 |
| 4-Hydroxy-4-methyl-2-pentanone | 17.8 -1.1 | -1.7 | 6.7 | -2.1 | -17.7 | -1.9 | 20 20 | 20 | 20 | 20 | 20 | 20 |
| 2-Butoxyethanol | 0.5 5.5 | -3.9 | 5.2 | 4.4 | -15.6 | 3.9 | 20 20 | 20 | 20 | 20 | 20 | 20 |
| Dipropylene Glycol Methyl Ether | 7.6 0.0 | -2.3 | 6.0 | -1.1 | -14.0 | 3.8 | 20 20 | 20 | 20 | 20 | 20 | 20 |
| 2-(2-Butoxyethoxy)ethanol | 10.8 -2.3 | 1.5 | 4.1 | -1.7 | -14.7 | 2.3 | 20 20 | 20 | 20 | 20 | 20 | 20 |
| Tetraethylene Glycol | 3.2 3.4 | 7.0 | -17.1 | -0.3 | -3.7 | 7.6 | 20 20 | 20 | 20 | 20 | 20 | 20 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04013.D
 Lims ID: ic g7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 04-May-2023 18:45:01 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-004
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:06 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:27:00

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.222 | 2.225 | -0.003 | 4592890 | 100.0 | 107.1 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.576 | 2.579 | -0.003 | 3965788 | 100.0 | 98.9 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.765 | 2.768 | -0.003 | 4795155 | 100.0 | 105.5 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.080 | 3.082 | -0.002 | 3623228 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.826 | 3.826 | 0.000 | 338031 | 100.0 | 100.0 | |
| 6 Propylene glycol | | | | | | |
| 4.702 | 4.739 | -0.037 | 1498454 | 100.0 | 98.6 | |
| 7 Ethylene glycol | | | | | | |
| 4.987 | 4.988 | -0.001 | 2653477 | 100.0 | 93.5 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.670 | 6.670 | 0.000 | 3509402 | 100.0 | 97.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.808 | 8.808 | 0.000 | 1873829 | 100.0 | 98.9 | M |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 1868379 | 100.0 | 99.0 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 3717174 | 200.0 | 206.8 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 50.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04013.D

Injection Date: 04-May-2023 18:45:01

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g7

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

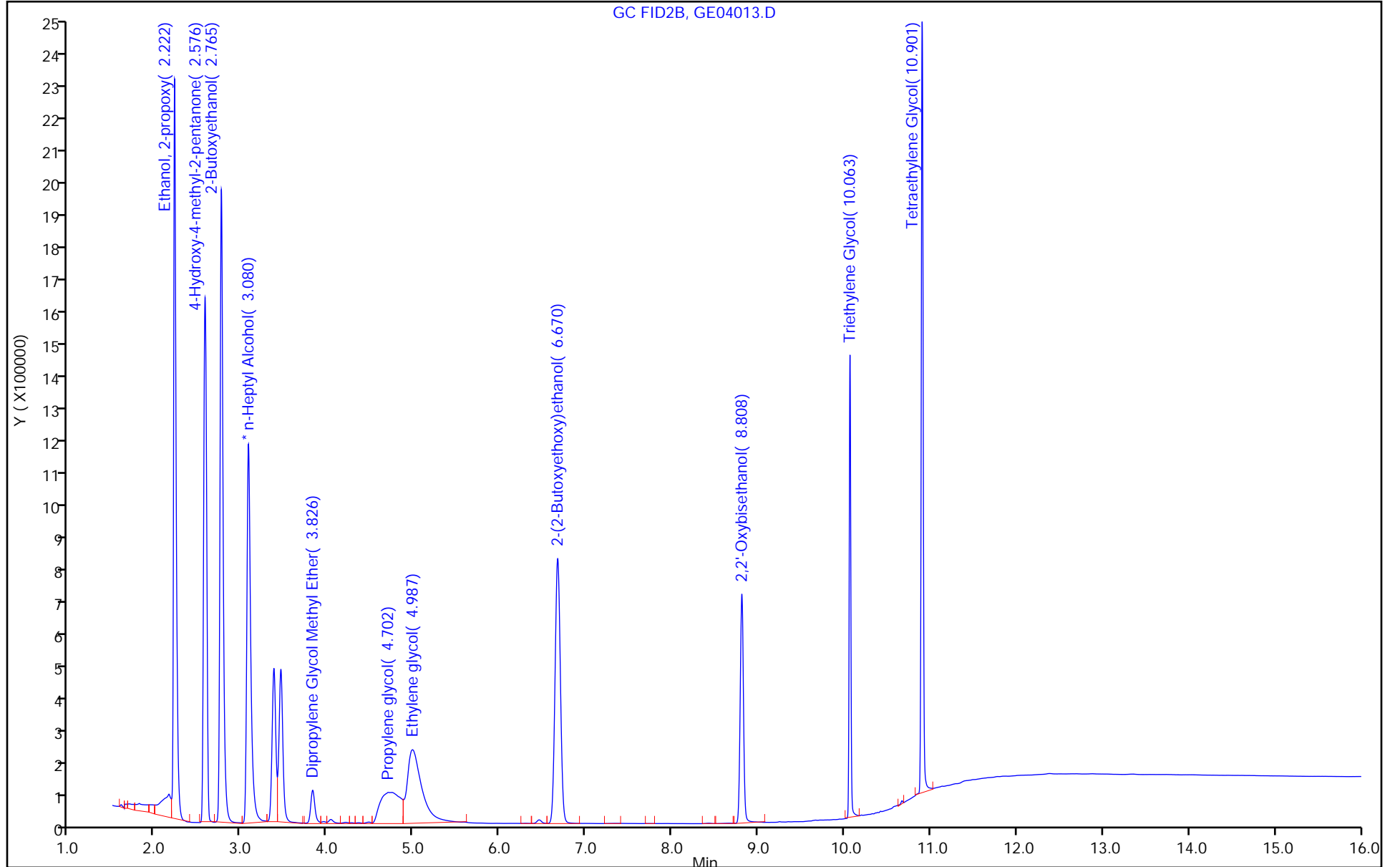
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

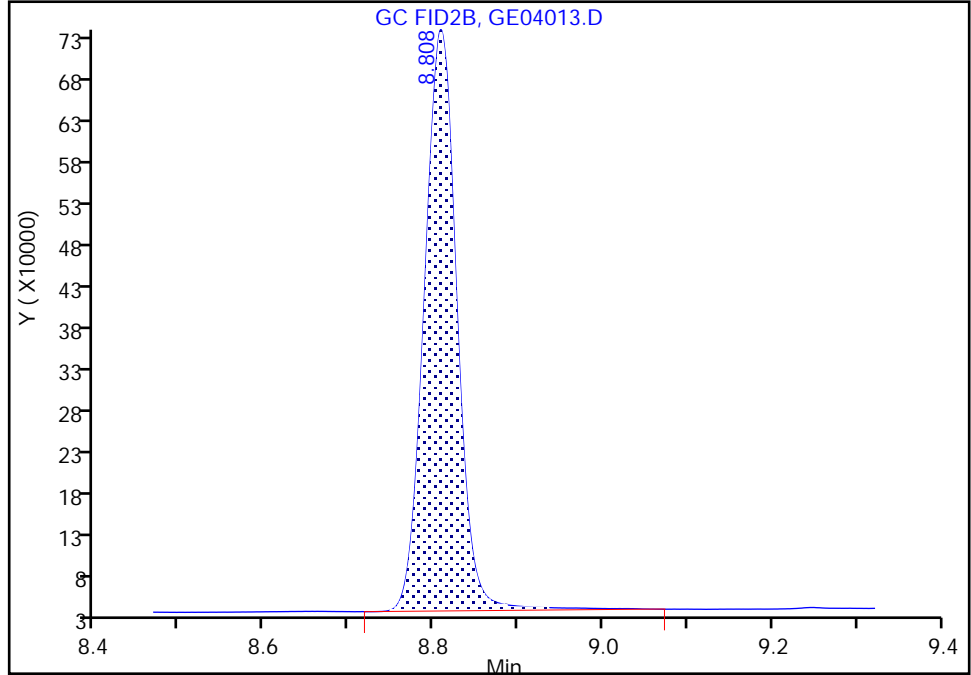
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04013.D
Injection Date: 04-May-2023 18:45:01 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

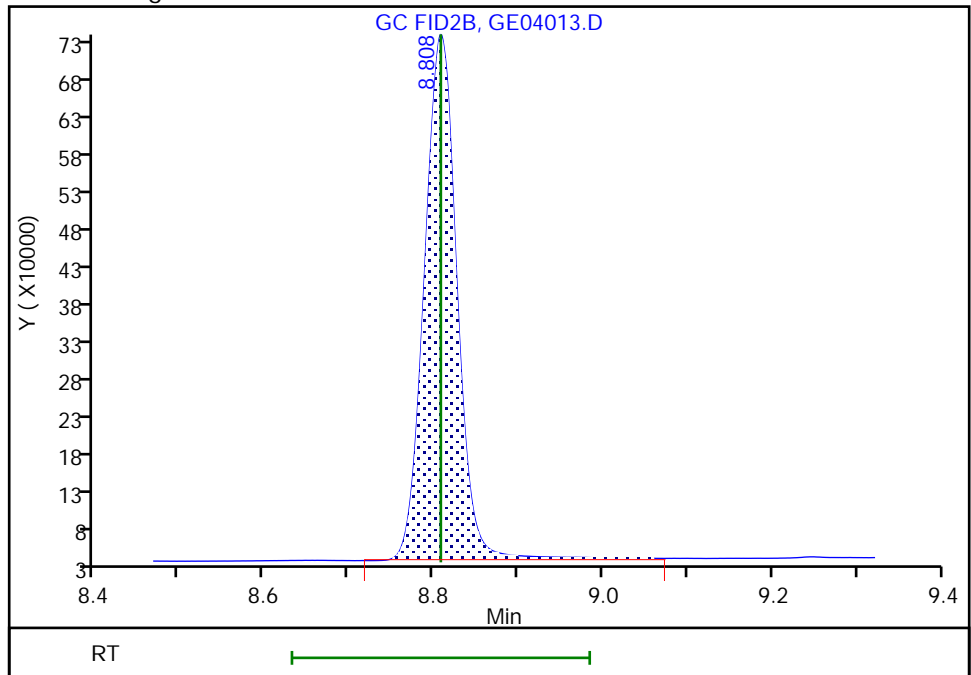
RT: 8.81
Area: 1867971
Amount: 98.887353
Amount Units: ug/ml

Processing Integration Results



RT: 8.81
Area: 1873829
Amount: 98.919105
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

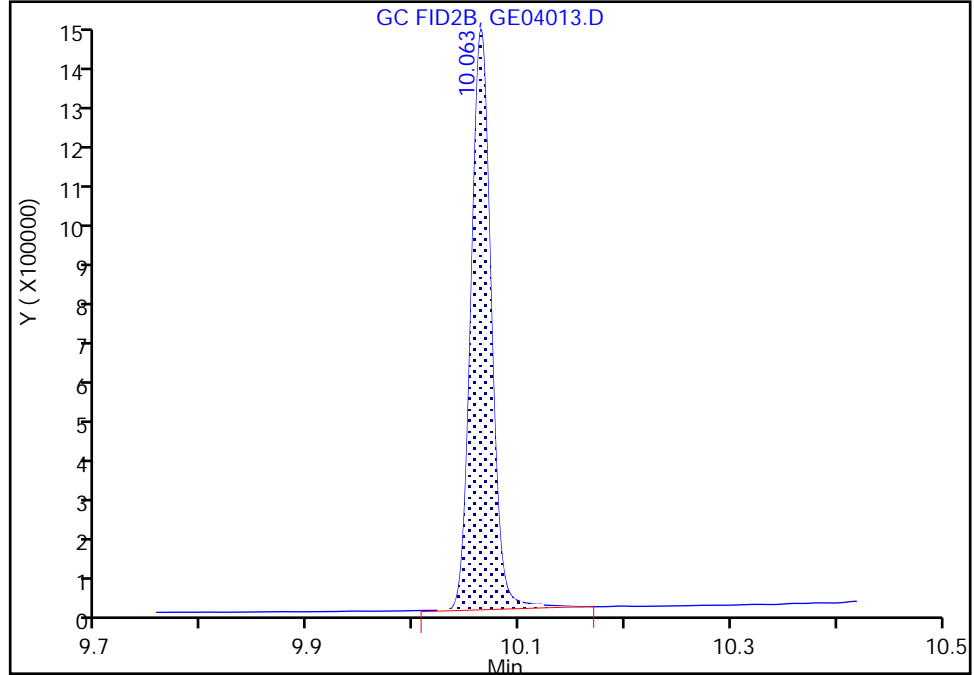
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04013.D
Injection Date: 04-May-2023 18:45:01 Instrument ID: CVGG2
Lims ID: ic g7
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

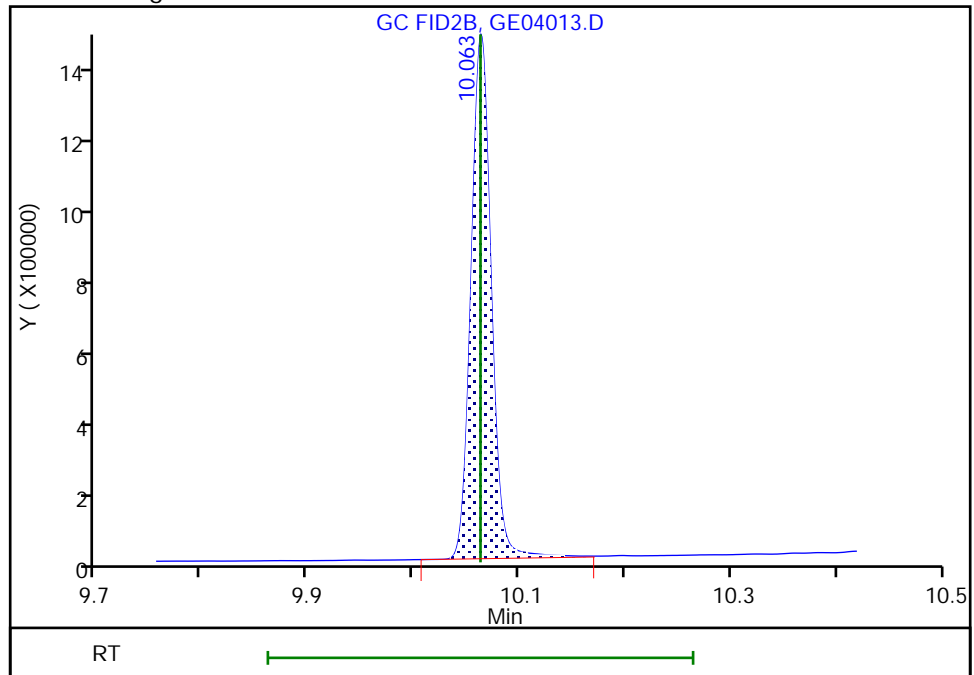
RT: 10.06
Area: 1861137
Amount: 99.126849
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 1868379
Amount: 99.008835
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:12:19
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04014.D
 Lims ID: ic g6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 04-May-2023 19:08:16 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-005
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:08 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:12:09

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|------------------|------------------|----------|------------------|--------------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.224 | 2.225 | -0.001 | 4947508 | 80.0 | 83.3 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.579 | 2.579 | 0.000 | 4345538 | 80.0 | 78.5 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.768 | 2.768 | 0.000 | 5222938 | 80.0 | 83.1 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.083 | 3.082 | 0.001 | 5001427 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.826 | 3.826 | 0.000 | 387428 | 80.0 | 83.1 | |
| 6 Propylene glycol | | | | | | |
| 4.731 | 4.739 | -0.008 | 1712034 | 80.0 | 83.2 | |
| 7 Ethylene glycol | | | | | | |
| 4.982 | 4.988 | -0.006 | 3012839 | 80.0 | 80.1 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.671 | 6.670 | 0.001 | 4056948 | 80.0 | 81.8 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.808 | 8.808 | 0.000 | 2106213 | 80.0 | 82.3 | |
| 10 Triethylene Glycol | | | | | | |
| 10.064 | 10.063 | 0.001 | 2149203 | 80.0 | 82.9 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.904 | 10.901 | 0.003 | 4270780 | 160.0 | 172.1 | M |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 40.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04014.D

Injection Date: 04-May-2023 19:08:16

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g6

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

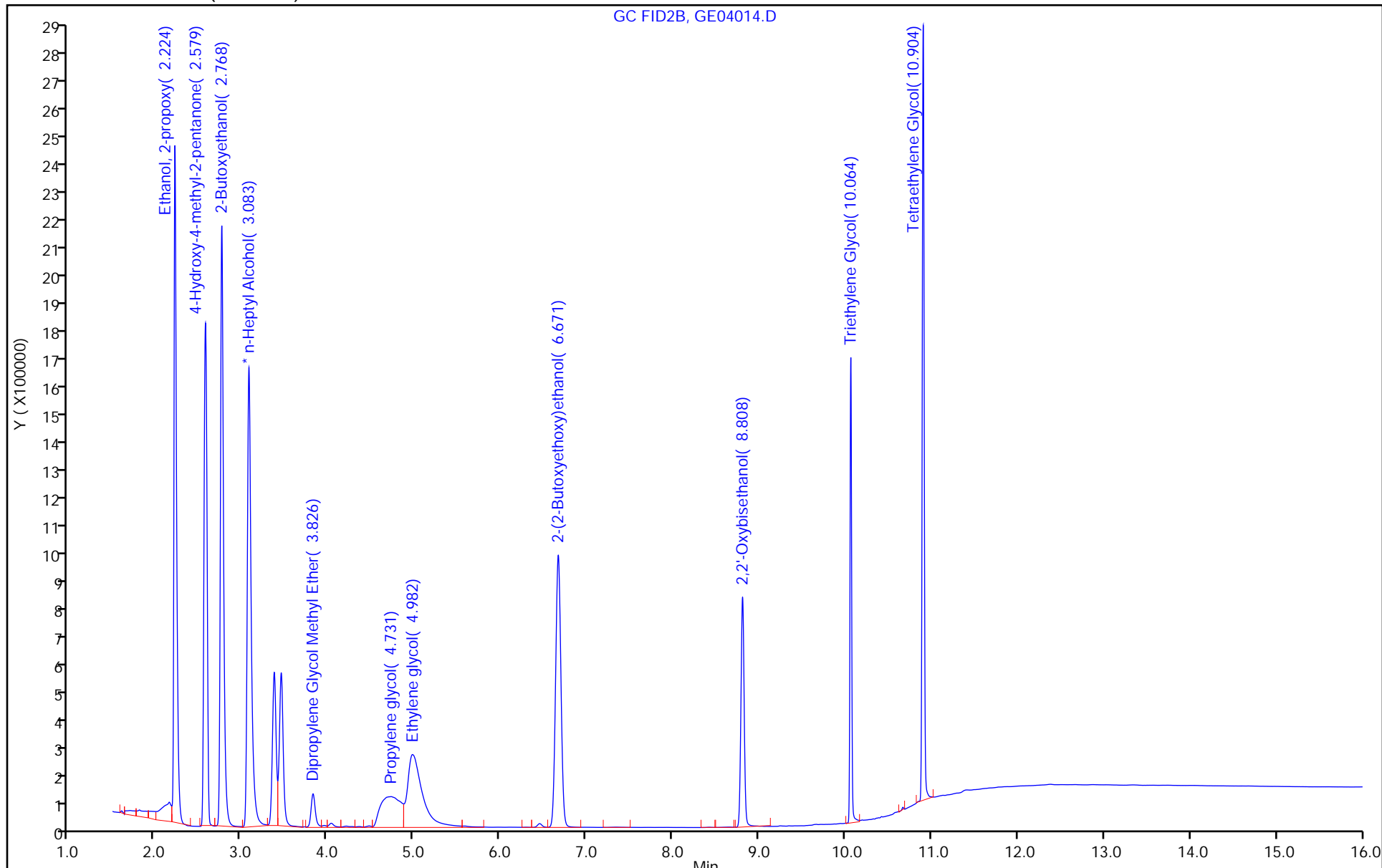
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

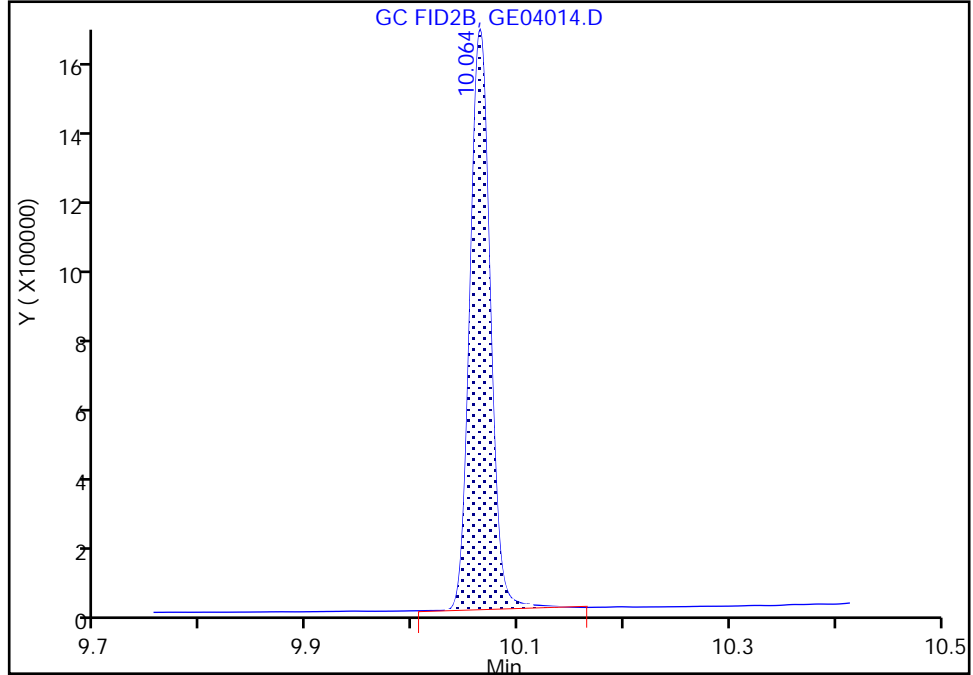
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04014.D
Injection Date: 04-May-2023 19:08:16 Instrument ID: CVGG2
Lims ID: ic g6
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

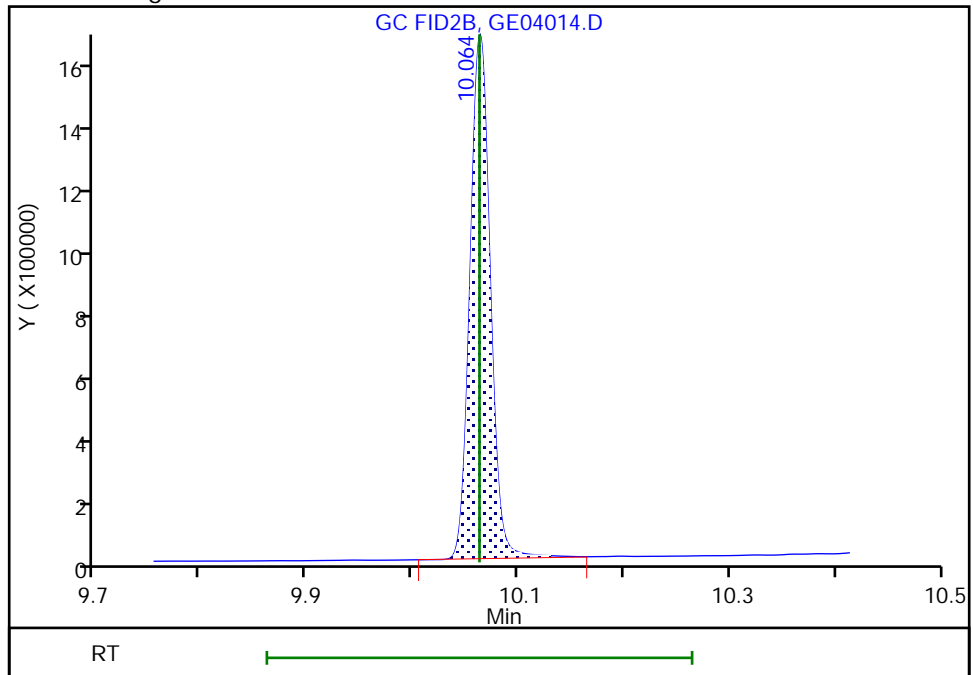
RT: 10.06
Area: 2138827
Amount: 82.339907
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 2149203
Amount: 82.869852
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:12:05
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D
 Lims ID: ic g5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 04-May-2023 19:31:31 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-006
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:09 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:26:30

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.224 | 2.225 | -0.001 | 2422595 | 50.0 | 41.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.578 | 2.579 | -0.001 | 2180486 | 50.0 | 41.1 | M |
| 3 2-Butoxyethanol | | | | | | |
| 2.767 | 2.768 | -0.001 | 2557714 | 50.0 | 42.2 | M |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.081 | 3.082 | -0.001 | 4789036 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.826 | 3.826 | 0.000 | 191987 | 50.0 | 43.0 | |
| 6 Propylene glycol | | | | | | |
| 4.718 | 4.739 | -0.021 | 888748 | 50.0 | 47.6 | |
| 7 Ethylene glycol | | | | | | |
| 4.982 | 4.988 | -0.006 | 1623885 | 50.0 | 49.6 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.671 | 6.670 | 0.001 | 2025020 | 50.0 | 42.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.807 | 8.808 | -0.001 | 1137805 | 50.0 | 48.5 | M |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 1145441 | 50.0 | 46.0 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 2288803 | 100.0 | 96.3 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 25.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D

Injection Date: 04-May-2023 19:31:31

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g5

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

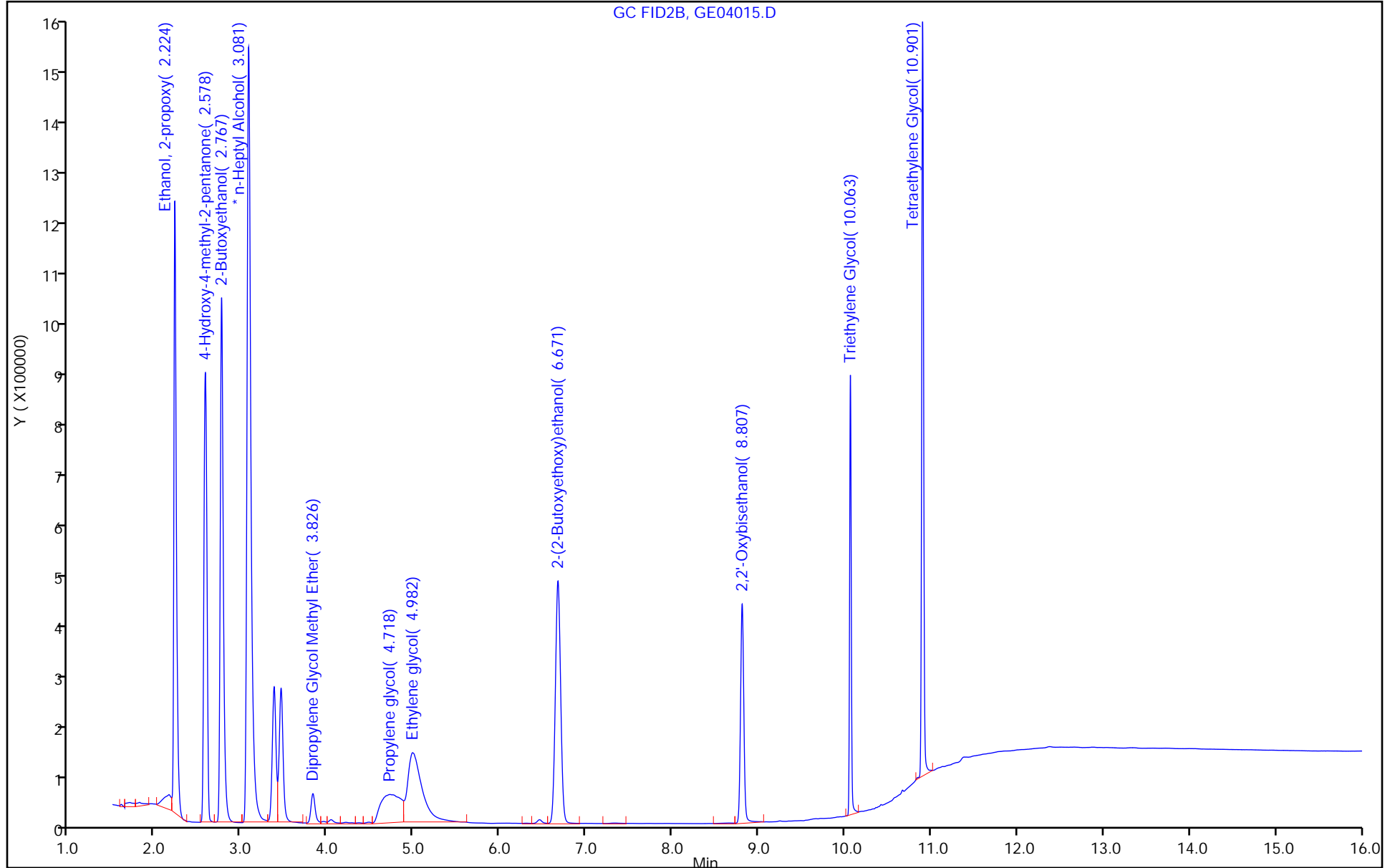
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

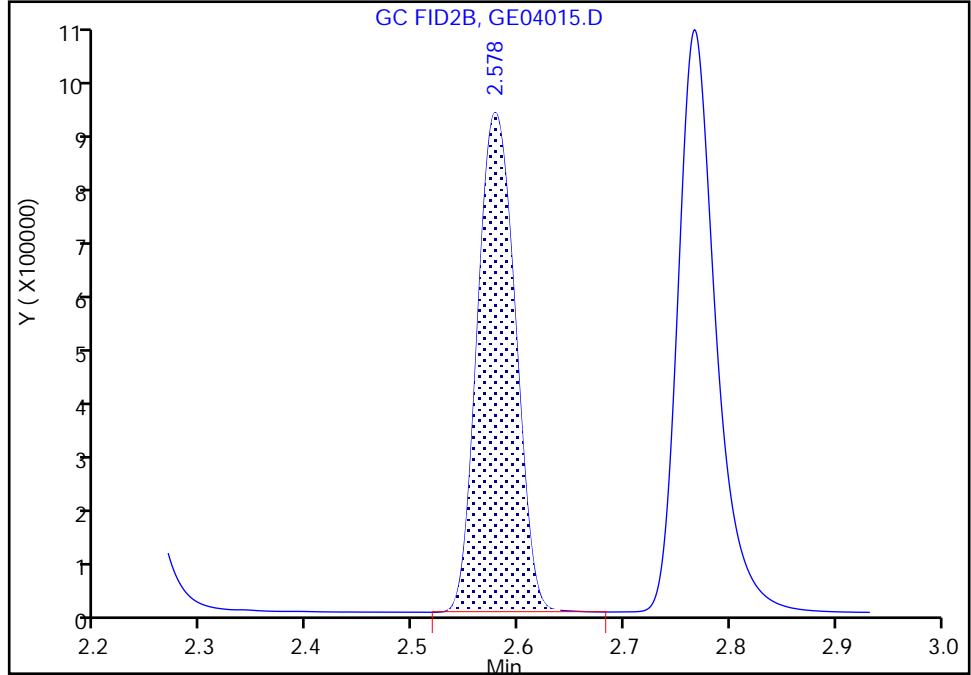
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D
Injection Date: 04-May-2023 19:31:31 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

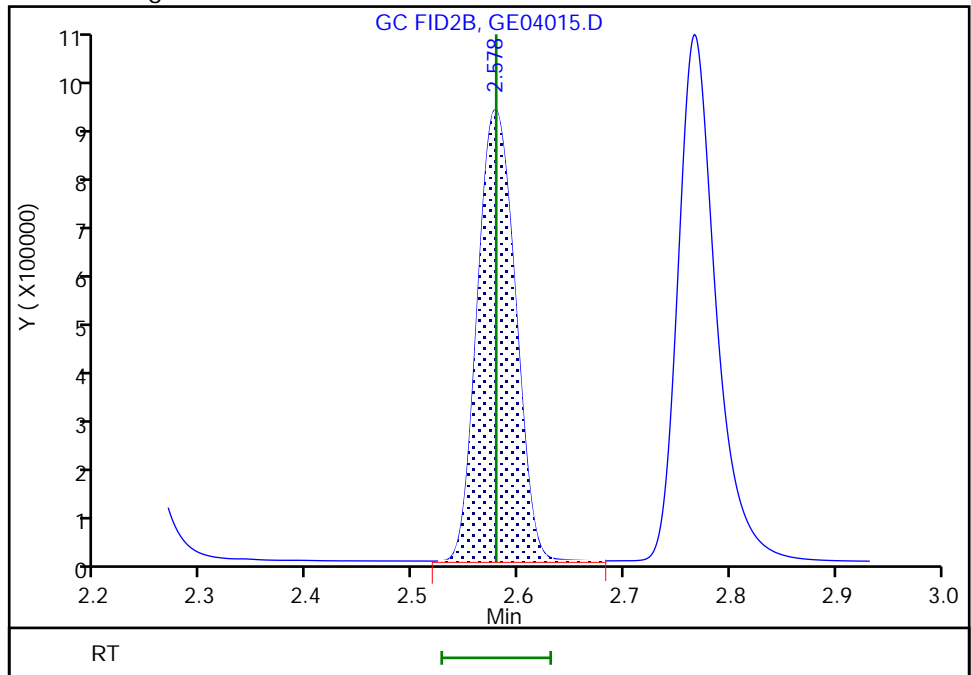
RT: 2.58
Area: 2177349
Amount: 41.312402
Amount Units: ug/ml

Processing Integration Results



RT: 2.58
Area: 2180486
Amount: 41.132720
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:57:11
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

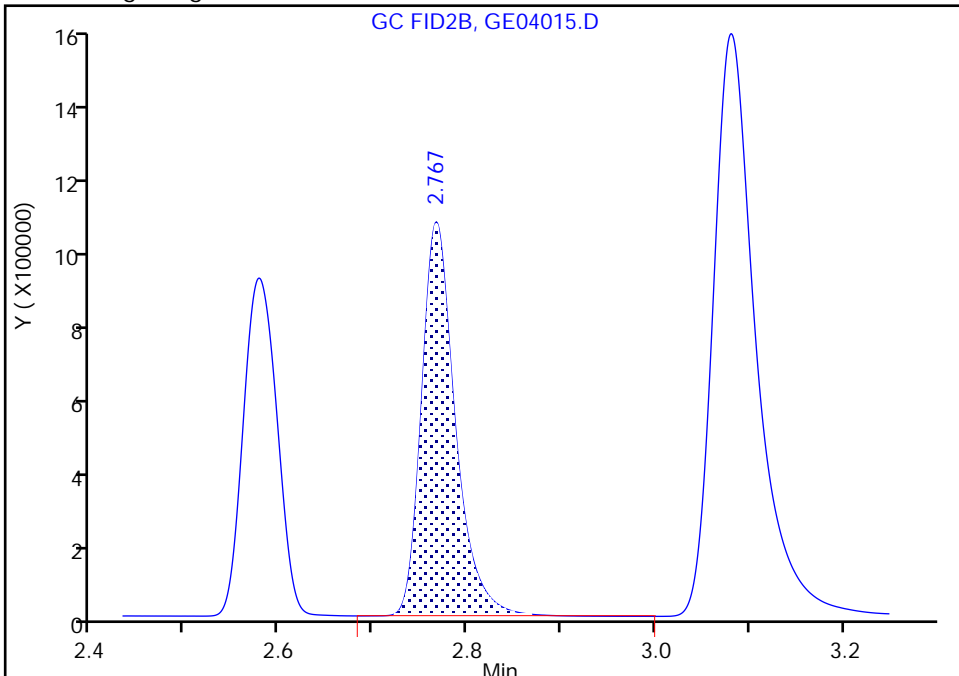
| | | | |
|-----------------|---|----------------|-----------|
| Data File: | \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D | | |
| Injection Date: | 04-May-2023 19:31:31 | Instrument ID: | CVGG2 |
| Lims ID: | ic g5 | | |
| Client ID: | | | |
| Operator ID: | | ALS Bottle#: | 0 |
| | | Worklist Smp#: | 6 |
| Injection Vol: | 1.0 ul | Dil. Factor: | 1.0000 |
| Method: | 8015_GLY_VGG | Limit Group: | 8015C_DAI |
| Column: | J&W DB WAX (0.45 mm) | Detector: | GC FID2B |

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

Signal: 1

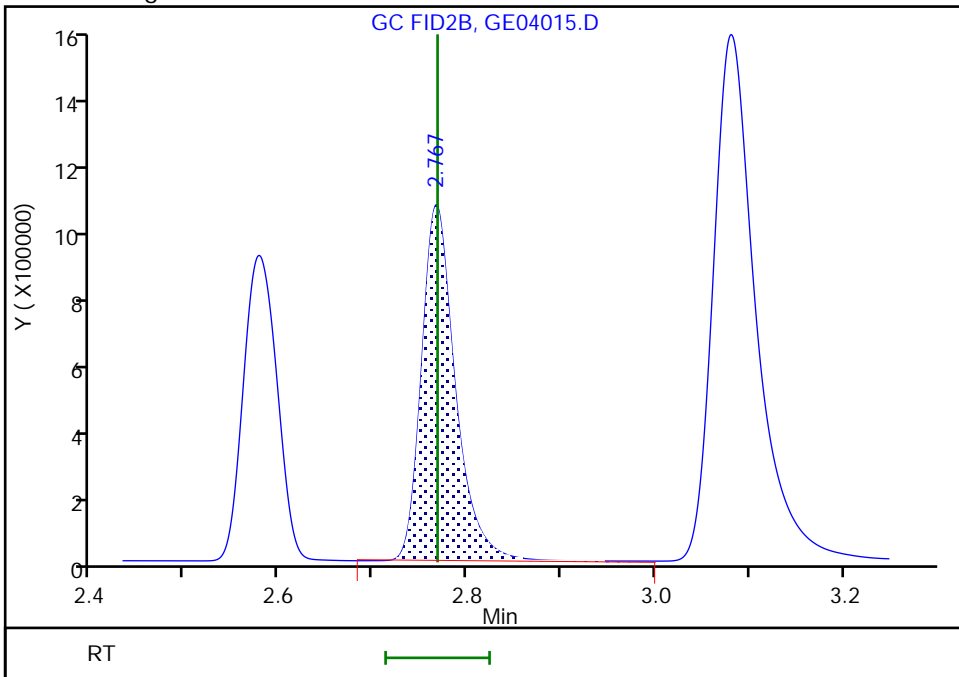
RT: 2.77
 Area: 2547159
 Amount: 42.273691
 Amount Units: ug/ml

Processing Integration Results



RT: 2.77
 Area: 2557714
 Amount: 42.193855
 Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:57:11
 Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

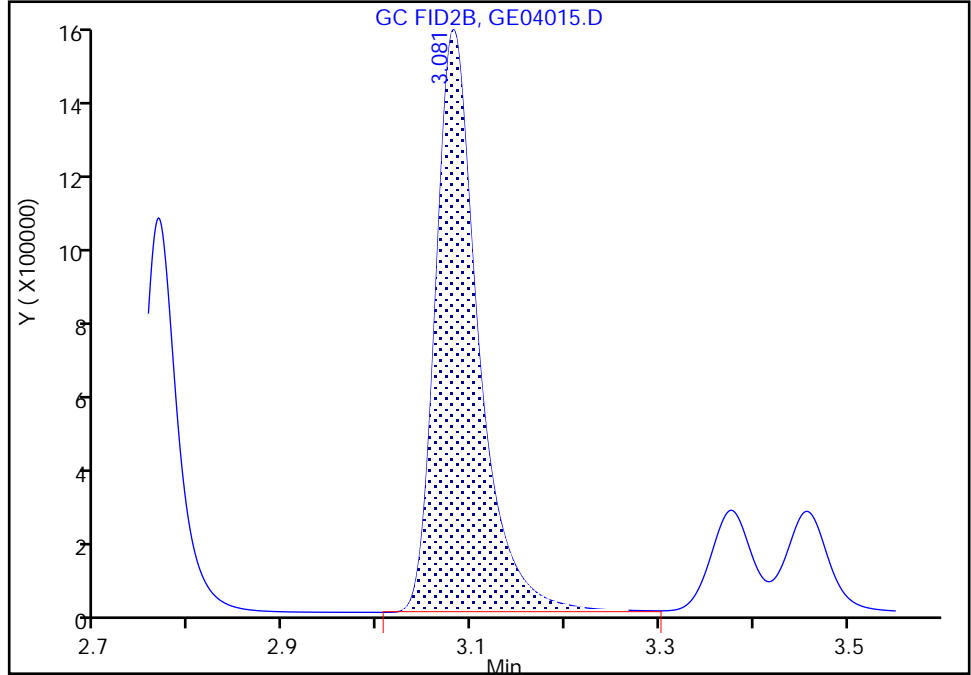
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D
Injection Date: 04-May-2023 19:31:31 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

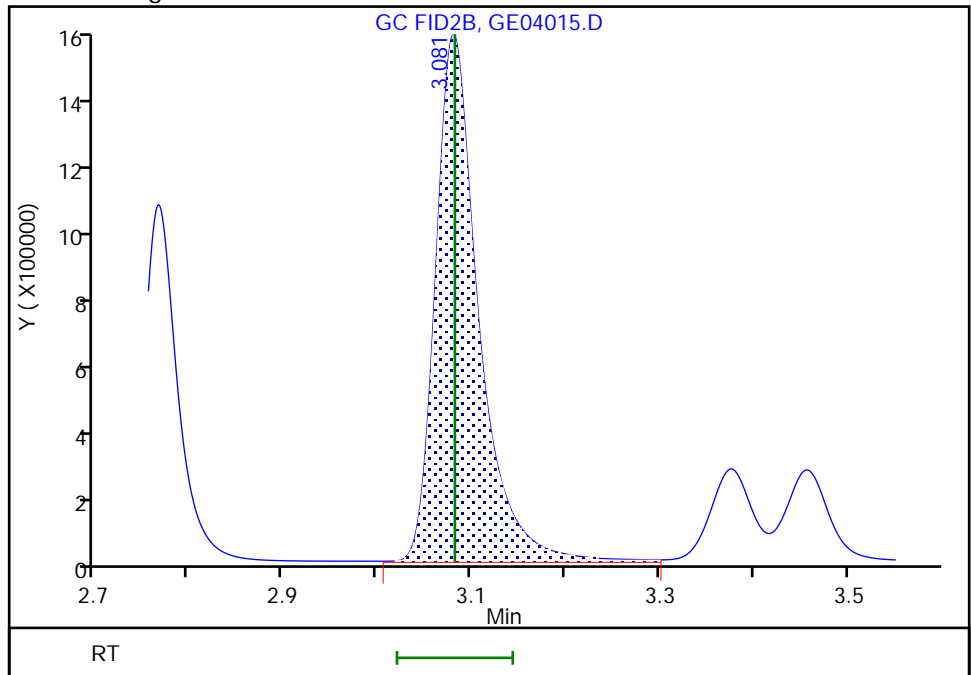
RT: 3.08
Area: 4758577
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 3.08
Area: 4789036
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:57:07
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

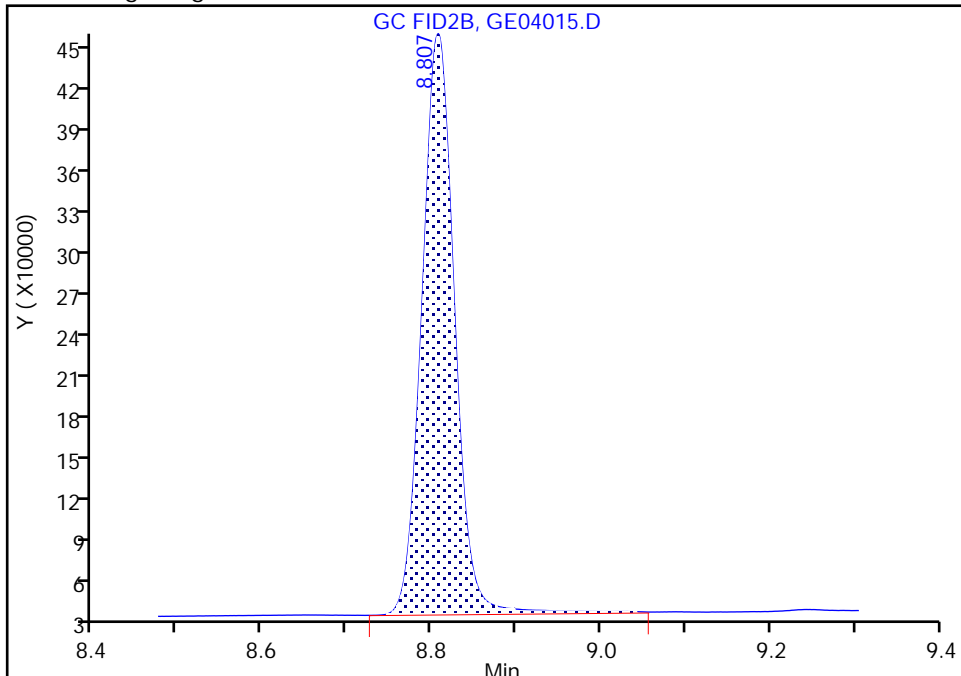
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D
Injection Date: 04-May-2023 19:31:31 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

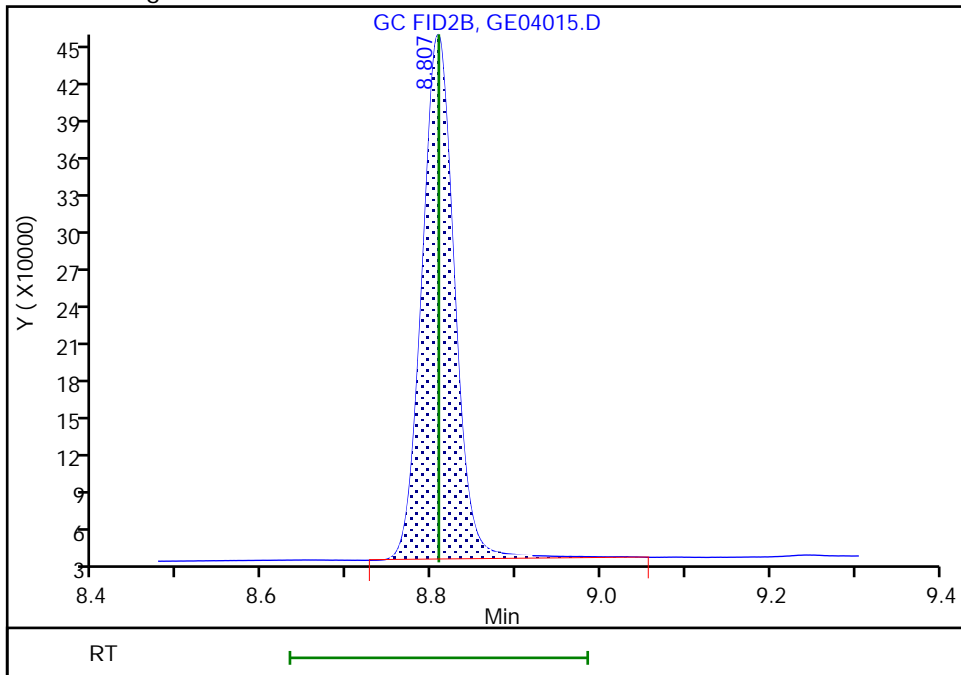
RT: 8.81
Area: 1134498
Amount: 48.579353
Amount Units: ug/ml

Processing Integration Results



RT: 8.81
Area: 1137805
Amount: 48.548004
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:26:20
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

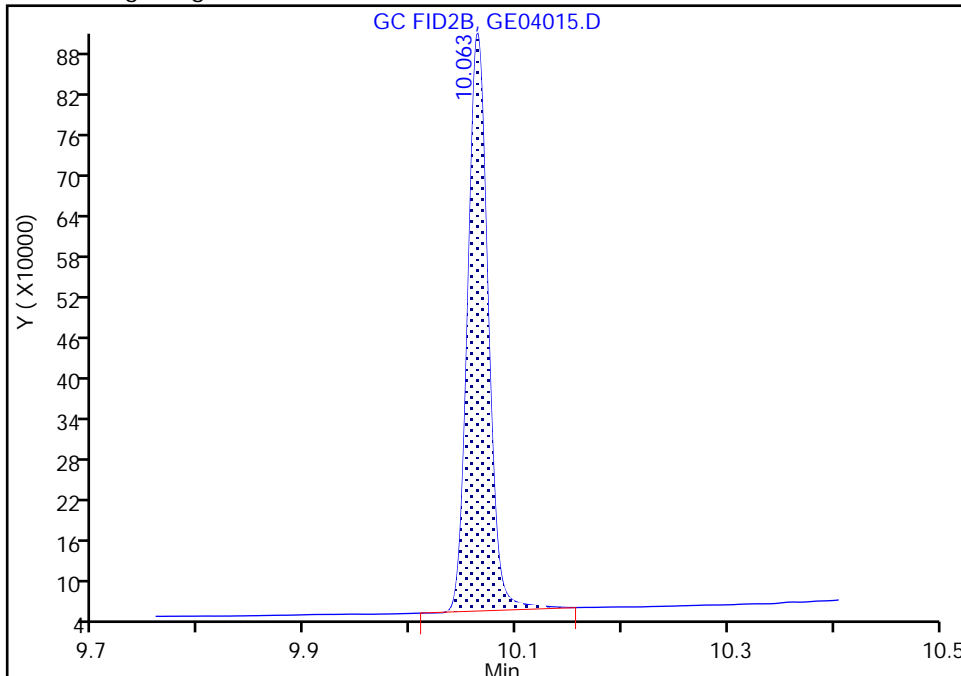
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04015.D
Injection Date: 04-May-2023 19:31:31 Instrument ID: CVGG2
Lims ID: ic g5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

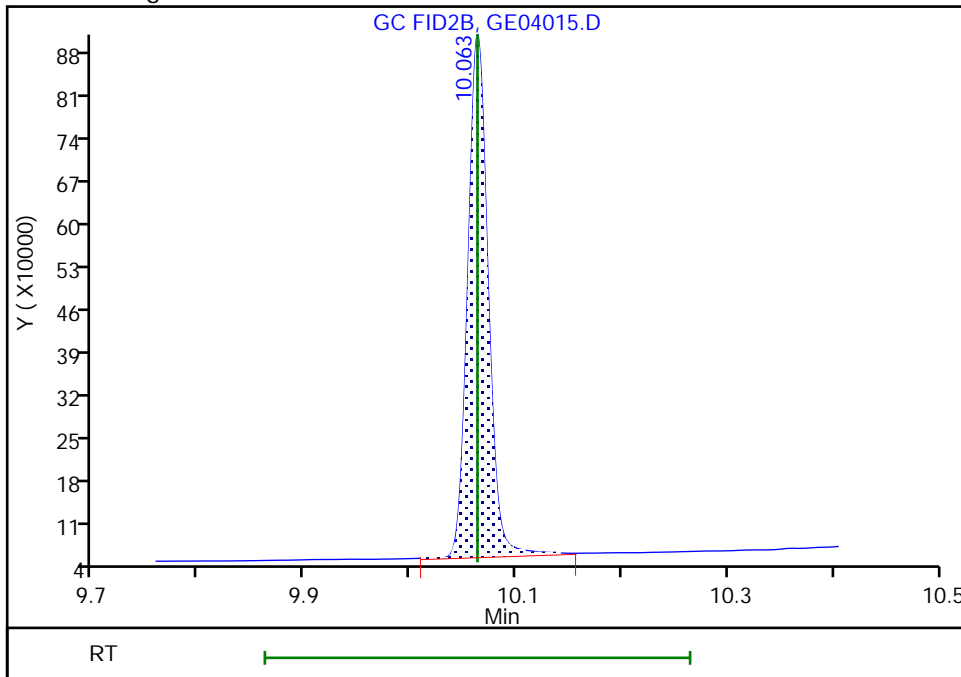
RT: 10.06
Area: 1137737
Amount: 44.939672
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 1145441
Amount: 45.963223
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:11:52
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04016.D
 Lims ID: icis g4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 04-May-2023 19:54:50 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-007
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:10 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:26:05

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.225 | 2.225 | 0.000 | 1472288 | 20.0 | 20.8 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.579 | 2.579 | 0.000 | 1231256 | 20.0 | 19.6 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.768 | 2.768 | 0.000 | 1524064 | 20.0 | 20.9 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.082 | 3.082 | 0.000 | 5680103 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.826 | 3.826 | 0.000 | 104755 | 20.0 | 19.8 | |
| 6 Propylene glycol | | | | | | |
| 4.739 | 4.739 | 0.000 | 412910 | 20.0 | 20.4 | |
| 7 Ethylene glycol | | | | | | |
| 4.988 | 4.988 | 0.000 | 748659 | 20.0 | 20.9 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.670 | 6.670 | 0.000 | 1106769 | 20.0 | 19.7 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.808 | 8.808 | 0.000 | 541948 | 20.0 | 20.3 | M |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 743449 | 20.0 | 24.2 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 1123689 | 40.0 | 39.9 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04016.D

Injection Date: 04-May-2023 19:54:50

Instrument ID: CVGG2

Operator ID:

Lims ID: icis g4

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

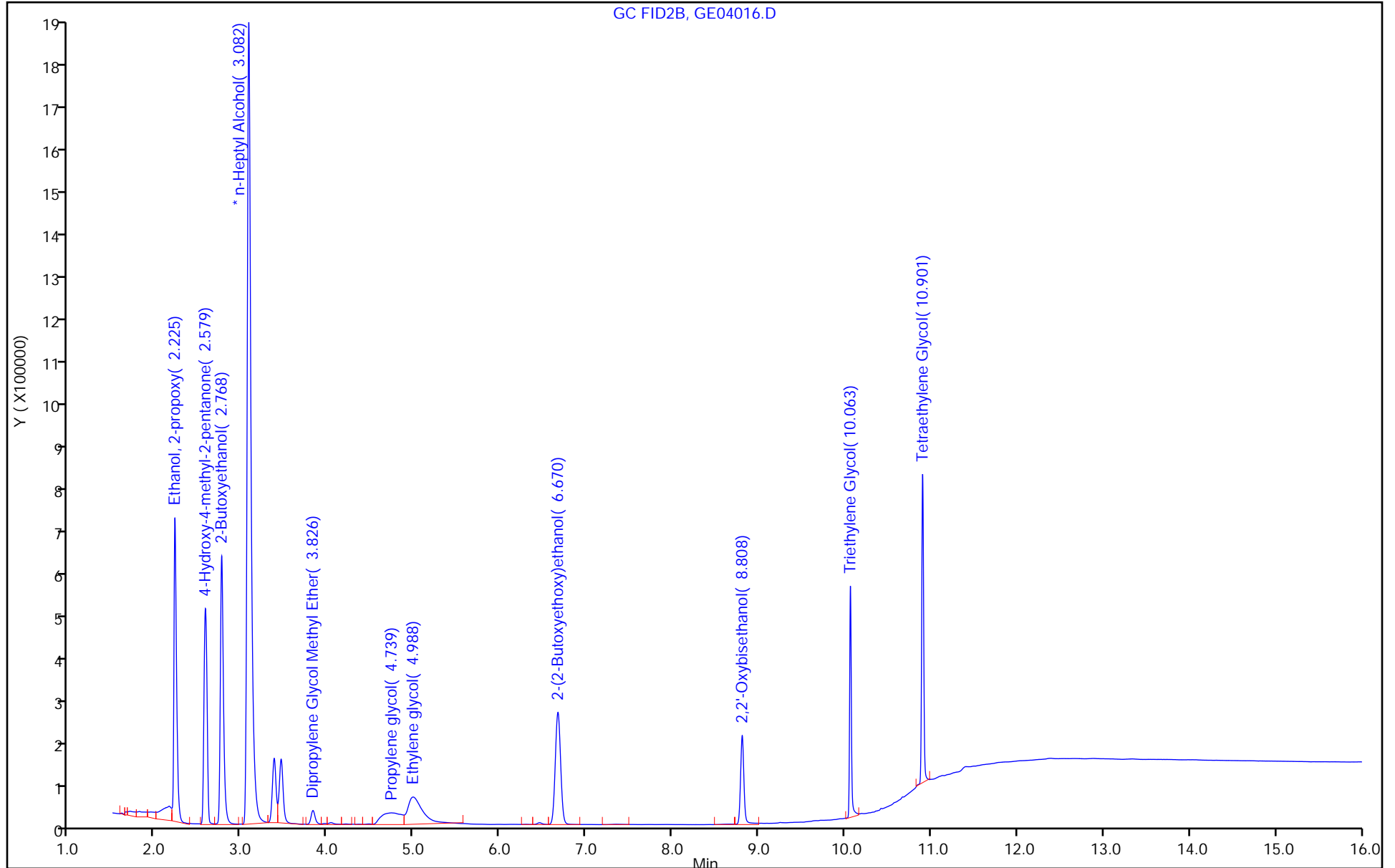
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

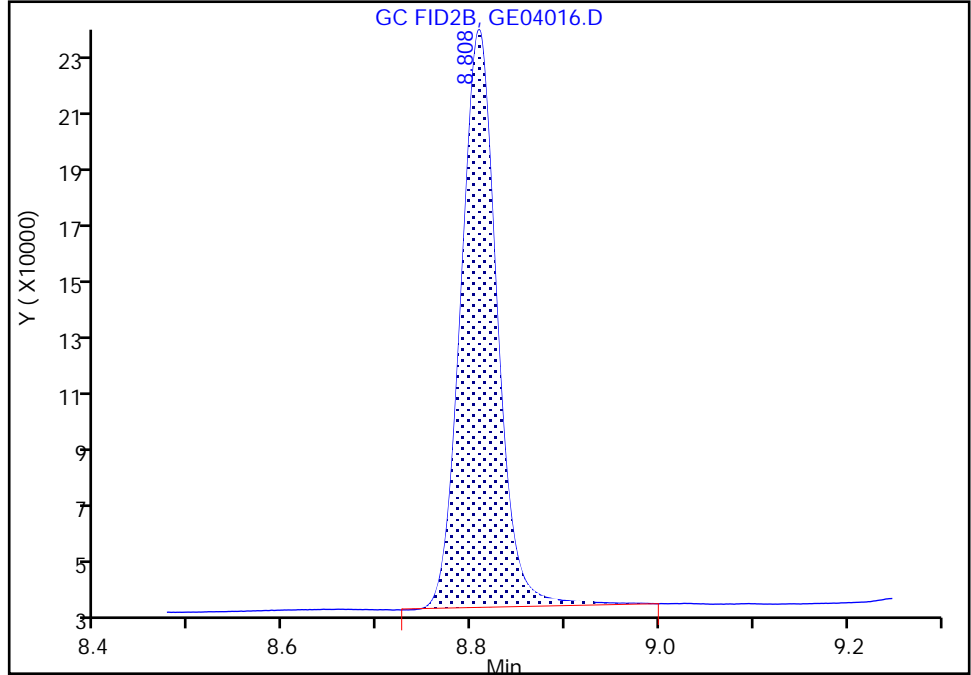
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04016.D
Injection Date: 04-May-2023 19:54:50 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

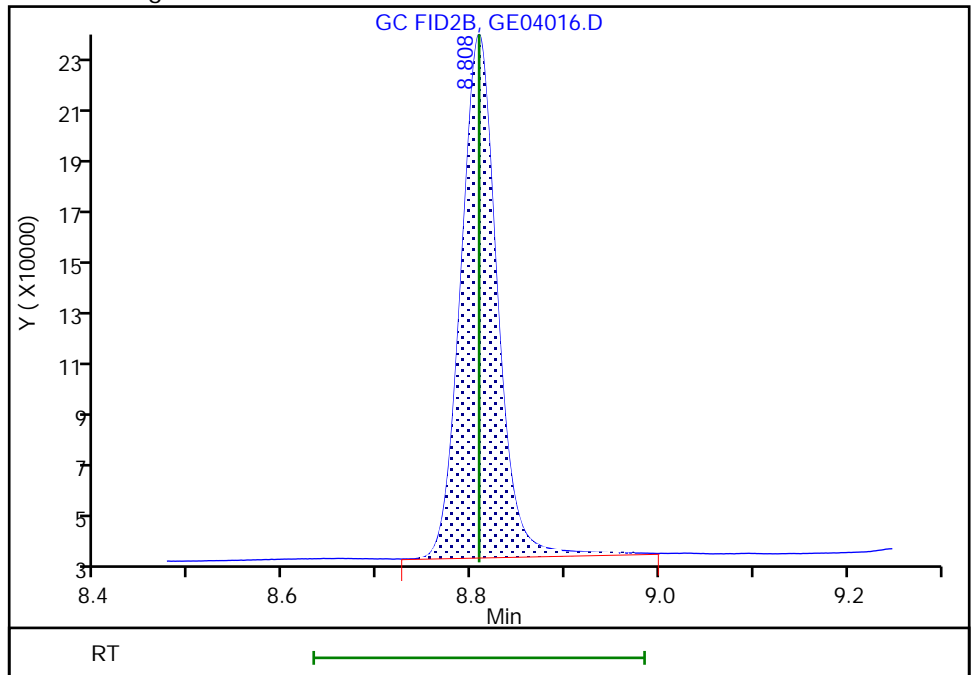
RT: 8.81
Area: 535642
Amount: 20.011809
Amount Units: ug/ml

Processing Integration Results



RT: 8.81
Area: 541948
Amount: 20.260095
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

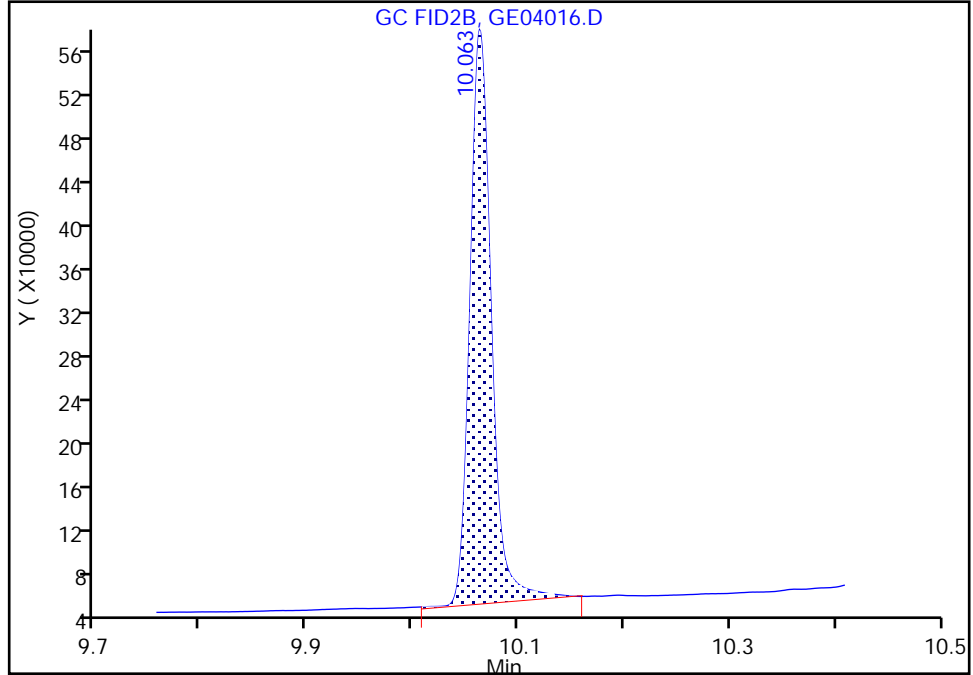
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04016.D
Injection Date: 04-May-2023 19:54:50 Instrument ID: CVGG2
Lims ID: icis g4
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

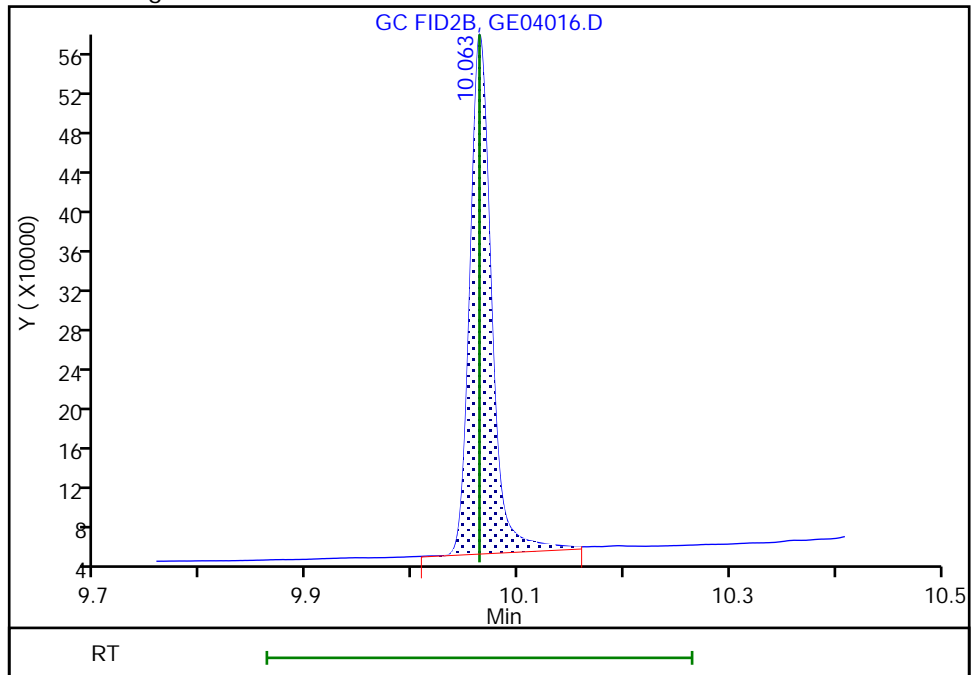
RT: 10.06
Area: 729449
Amount: 23.453434
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 743449
Amount: 24.229284
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:11:37
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
 Lims ID: ic g3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 04-May-2023 20:18:05 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-008
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:11 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:29:20

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|------------------|------------------|----------|------------------|--------------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.226 | 2.225 | 0.001 | 741209 | 10.0 | 10.5 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.584 | 2.579 | 0.005 | 631103 | 10.0 | 10.7 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.767 | 2.768 | -0.001 | 743452 | 10.0 | 10.5 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.074 | 3.082 | -0.008 | 5345672 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.832 | 3.826 | 0.006 | 52872 | 10.0 | 10.6 | |
| 6 Propylene glycol | | | | | | |
| 4.757 | 4.739 | 0.018 | 166185 | 10.0 | 10.0 | M |
| 7 Ethylene glycol | | | | | | |
| 4.994 | 4.988 | 0.006 | 306483 | 10.0 | 8.92 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.670 | 6.670 | 0.000 | 551776 | 10.0 | 10.4 | M |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.807 | 8.808 | -0.001 | 209902 | 10.0 | 8.46 | M |
| 10 Triethylene Glycol | | | | | | |
| 10.064 | 10.063 | 0.001 | 293830 | 10.0 | 8.63 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 439677 | 20.0 | 16.6 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 5.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D

Injection Date: 04-May-2023 20:18:05

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g3

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

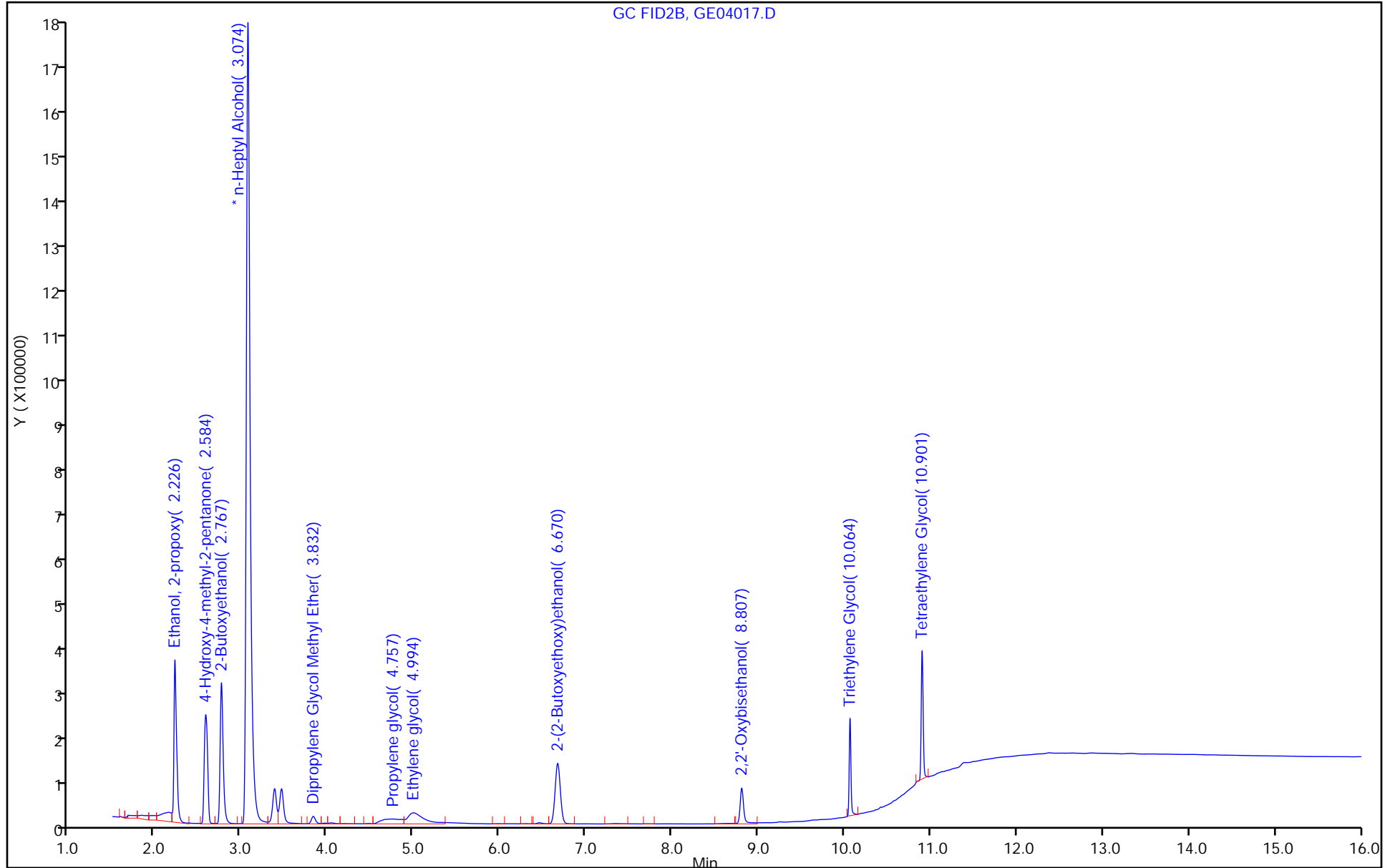
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



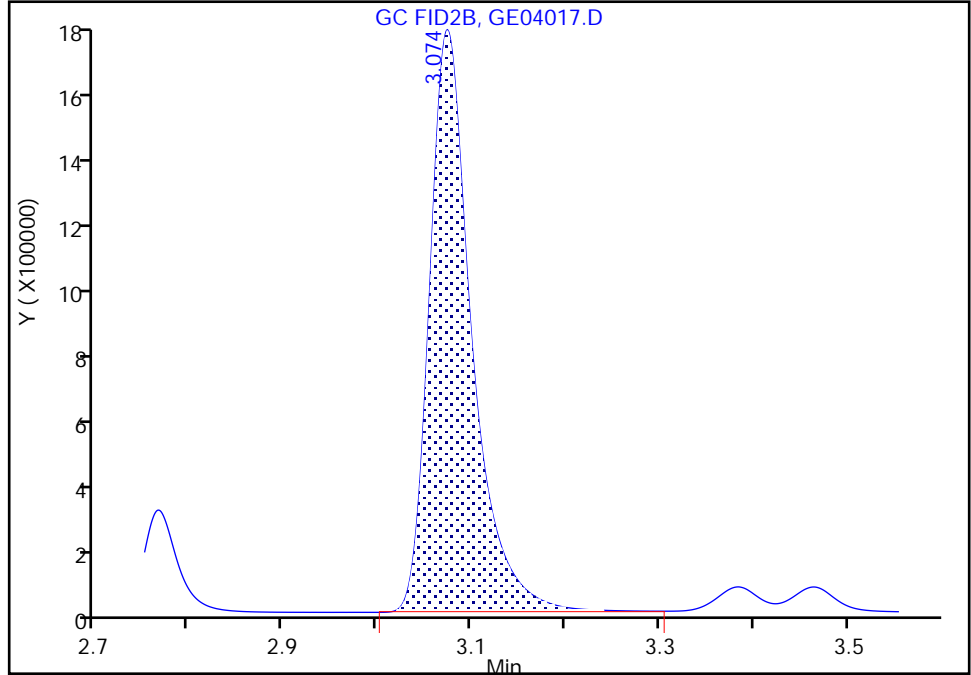
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

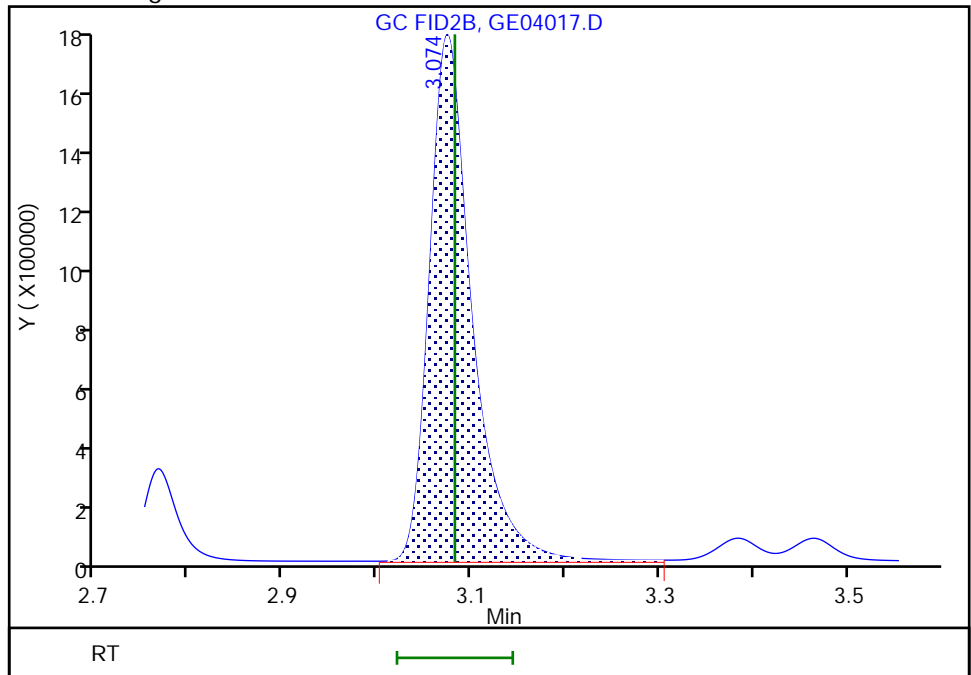
Processing Integration Results

RT: 3.07
Area: 5313777
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 3.07
Area: 5345672
Amount: 50.000000
Amount Units: ug/ml



Eurofins Savannah

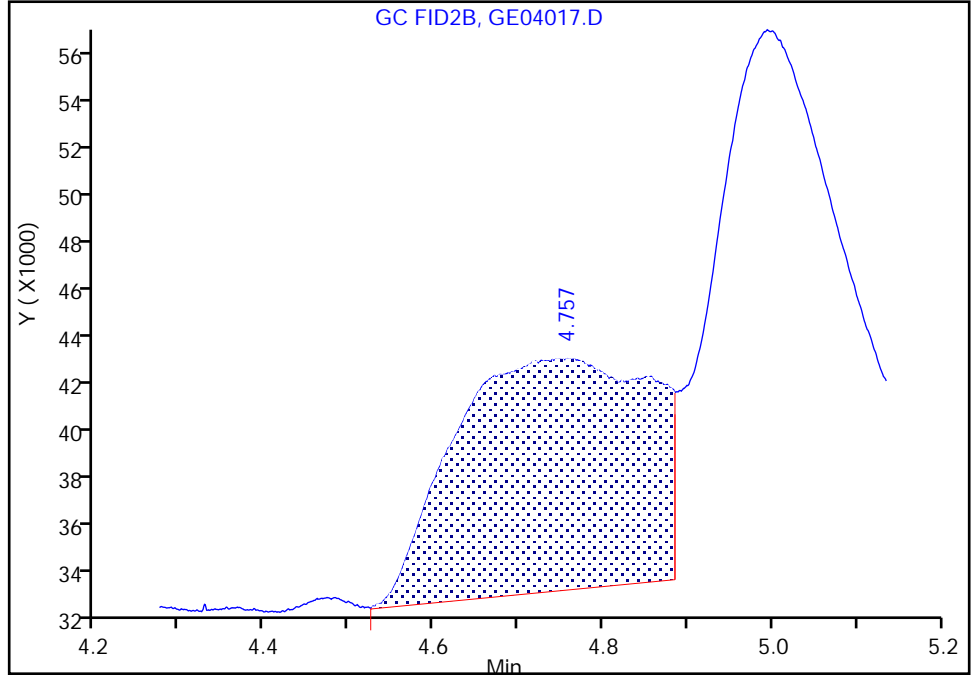
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

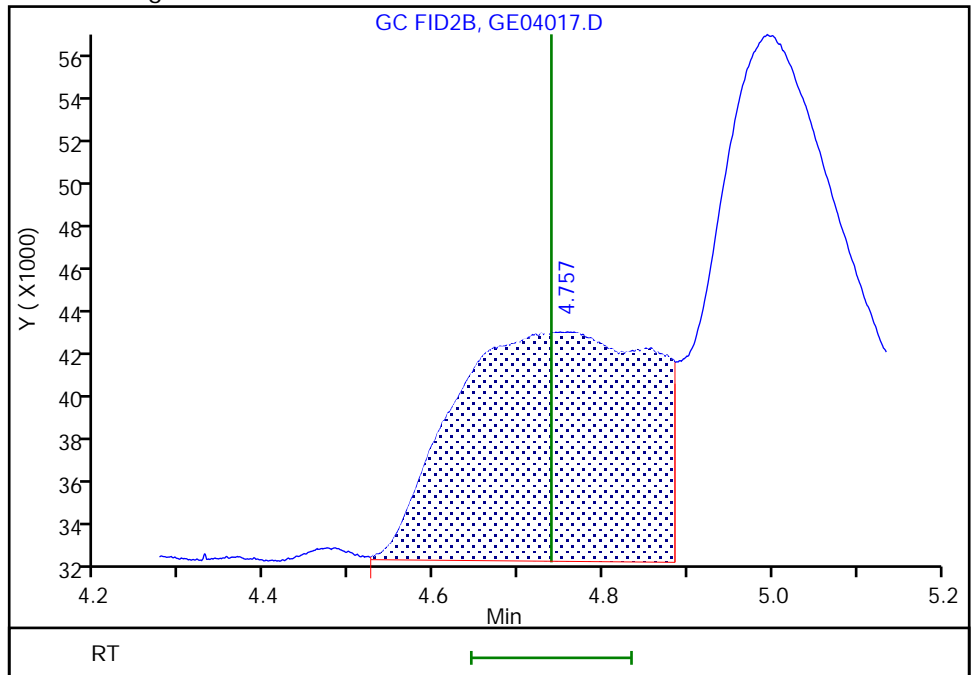
RT: 4.76
Area: 149952
Amount: 9.579565
Amount Units: ug/ml

Processing Integration Results



RT: 4.76
Area: 166185
Amount: 10.024988
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

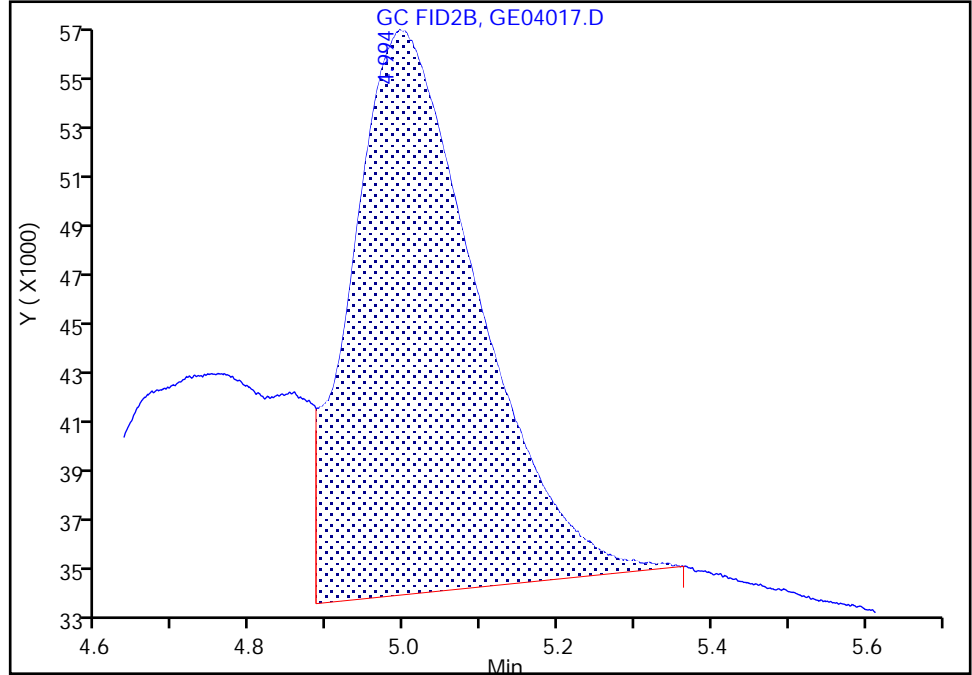
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

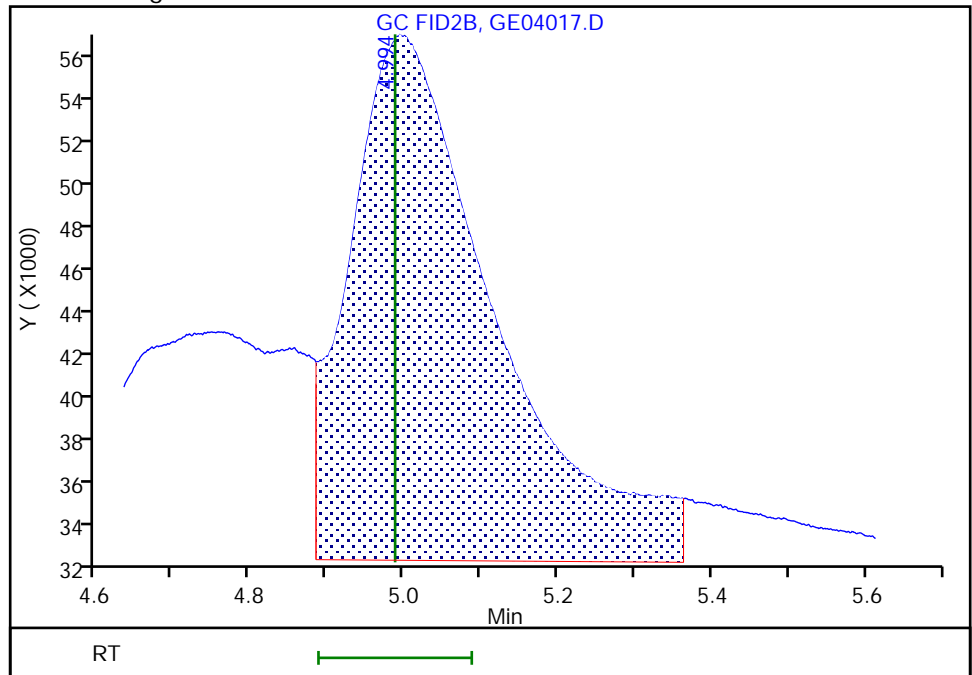
RT: 4.99
Area: 247390
Amount: 8.023905
Amount Units: ug/ml

Processing Integration Results



RT: 4.99
Area: 306483
Amount: 8.923293
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

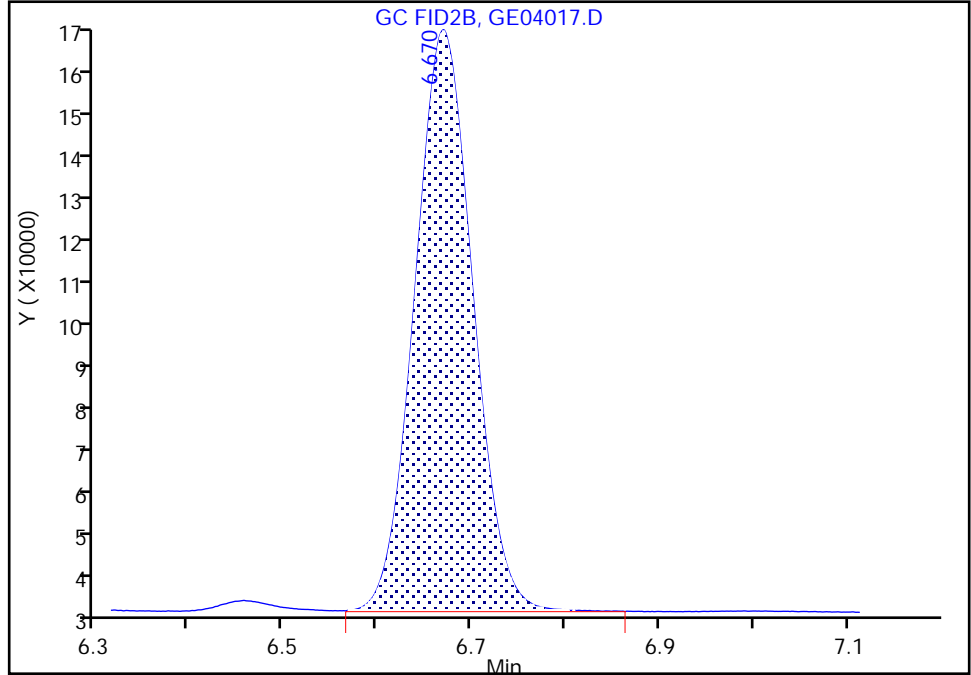
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

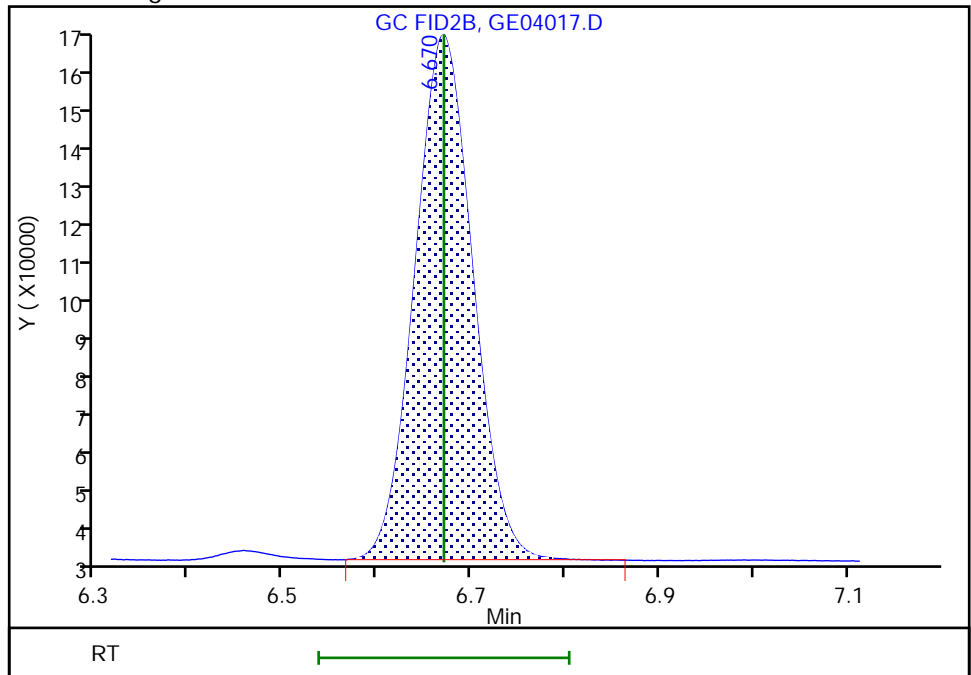
RT: 6.67
Area: 550615
Amount: 10.439846
Amount Units: ug/ml

Processing Integration Results



RT: 6.67
Area: 551776
Amount: 10.413562
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

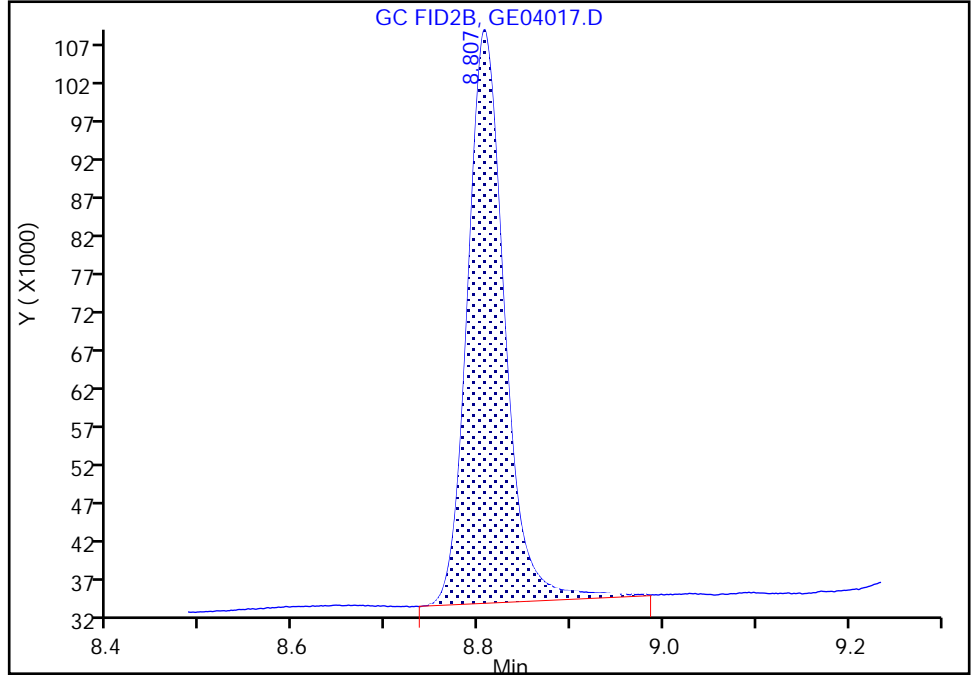
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

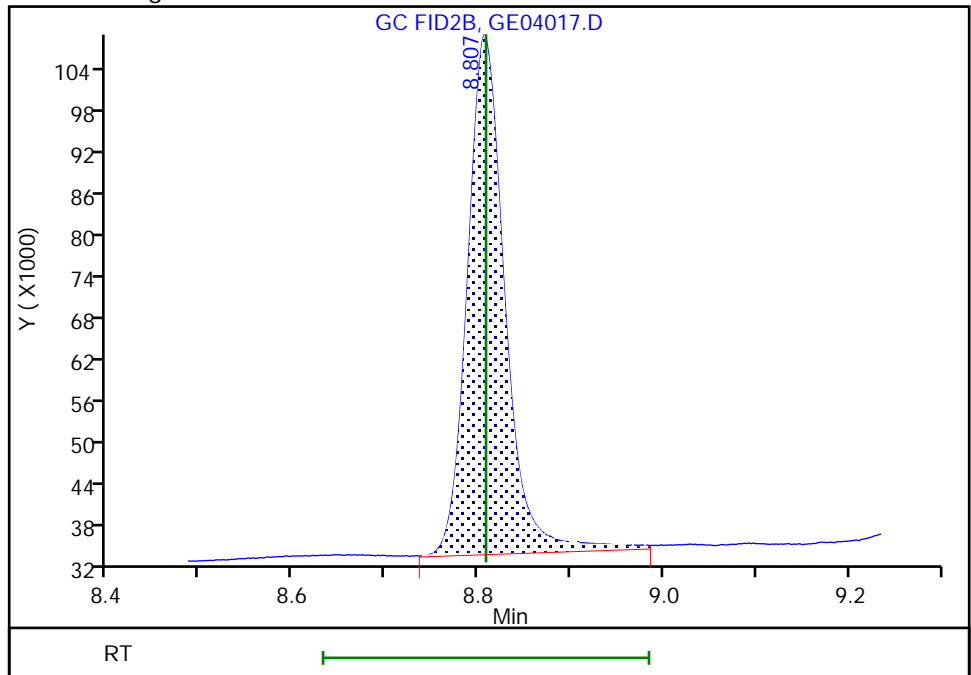
RT: 8.81
Area: 206572
Amount: 8.346068
Amount Units: ug/ml

Processing Integration Results



RT: 8.81
Area: 209902
Amount: 8.461331
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:29:15
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

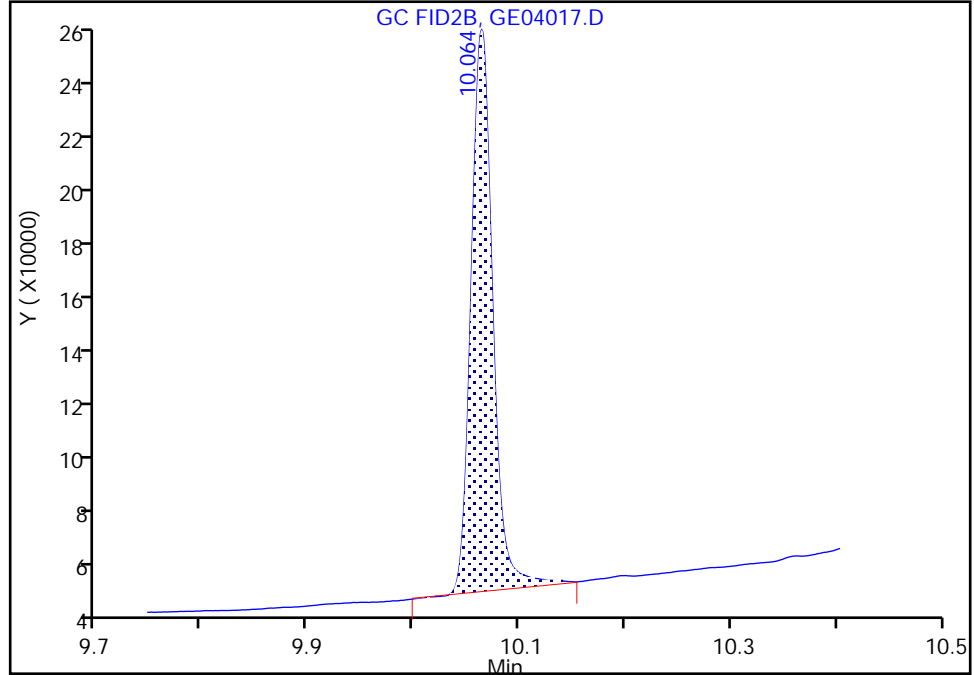
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04017.D
Injection Date: 04-May-2023 20:18:05 Instrument ID: CVGG2
Lims ID: ic g3
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

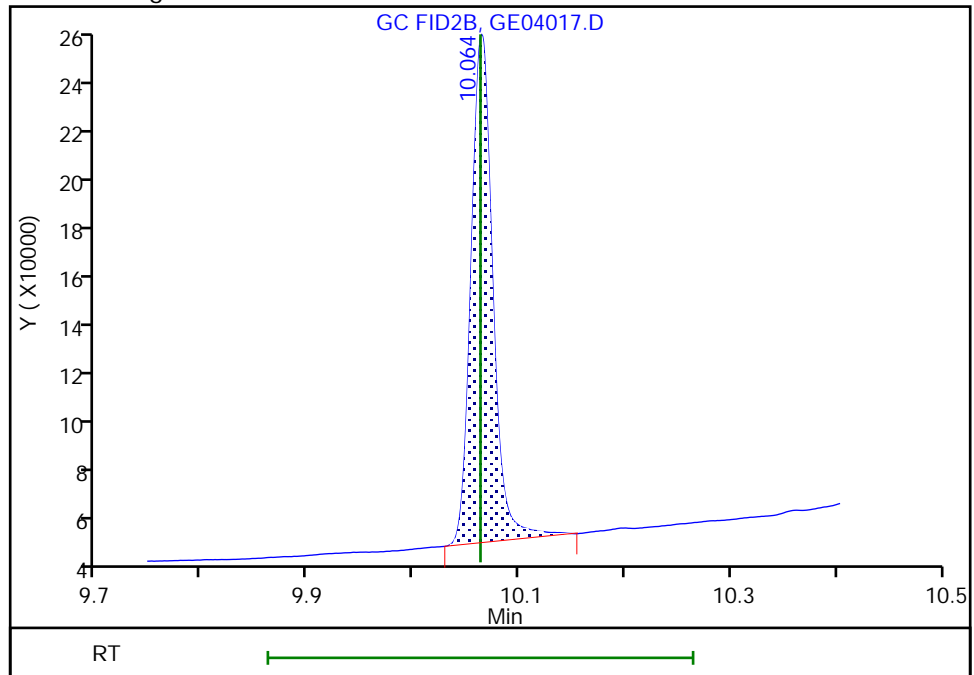
RT: 10.06
Area: 293870
Amount: 8.941643
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 293830
Amount: 8.633709
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:11:20
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04018.D
 Lims ID: ic g2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 04-May-2023 20:41:17 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-009
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:13 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:29:33

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.225 | 2.225 | 0.000 | 348962 | 5.00 | 4.70 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.580 | 2.579 | 0.001 | 269856 | 5.00 | 4.92 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.768 | 2.768 | 0.000 | 336372 | 5.00 | 4.81 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.081 | 3.082 | -0.001 | 4958989 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.828 | 3.826 | 0.002 | 22596 | 5.00 | 4.89 | |
| 6 Propylene glycol | | | | | | |
| 4.762 | 4.739 | 0.023 | 46664 | 5.00 | 4.51 | M |
| 7 Ethylene glycol | | | | | | |
| 4.994 | 4.988 | 0.006 | 199874 | 5.00 | 6.02 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.670 | 6.670 | 0.000 | 249421 | 5.00 | 5.07 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.807 | 8.808 | -0.001 | 139477 | 5.00 | 6.07 | |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 191920 | 5.00 | 5.25 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 263229 | 10.0 | 10.7 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 2.50

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04018.D

Injection Date: 04-May-2023 20:41:17

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g2

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

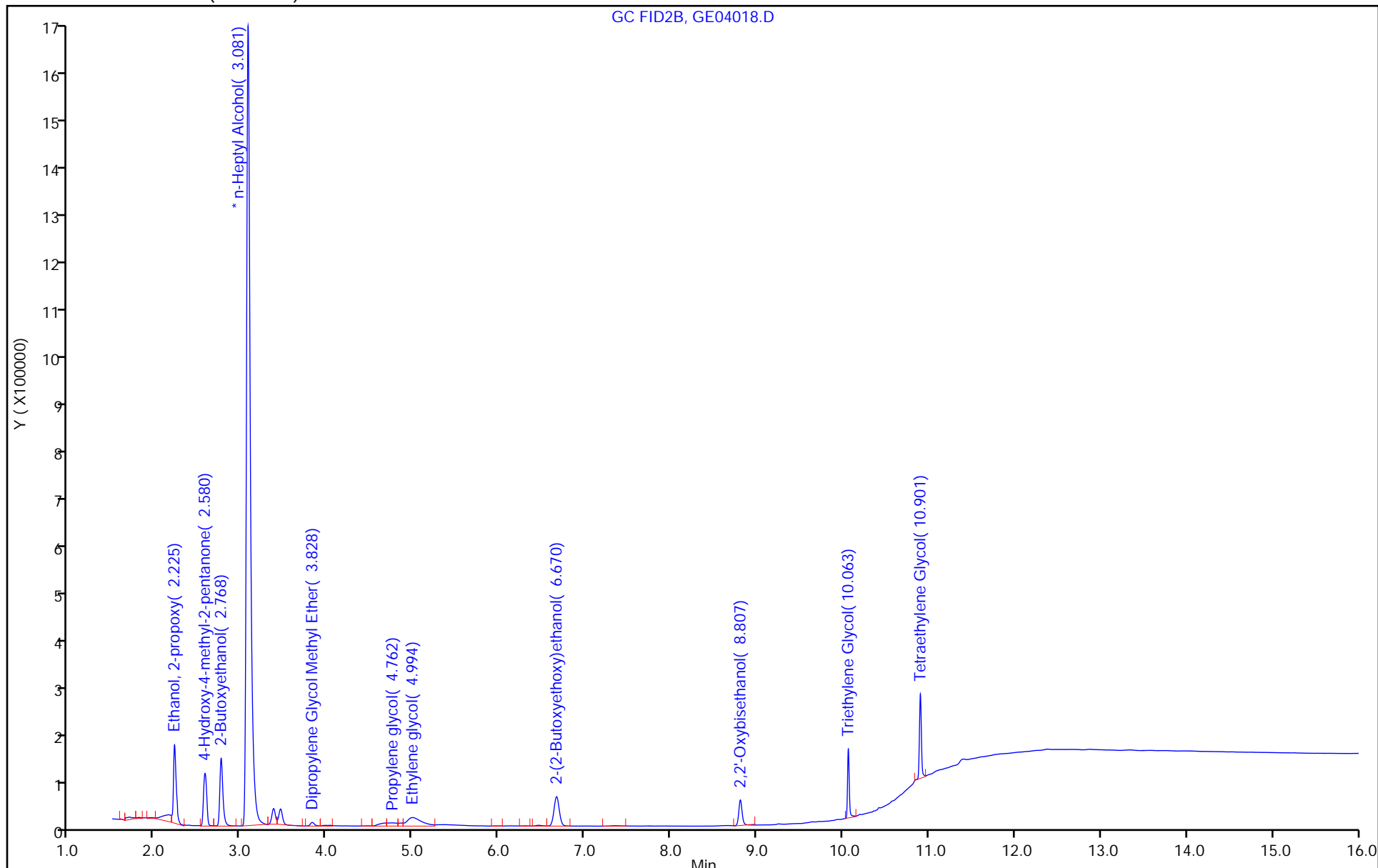
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

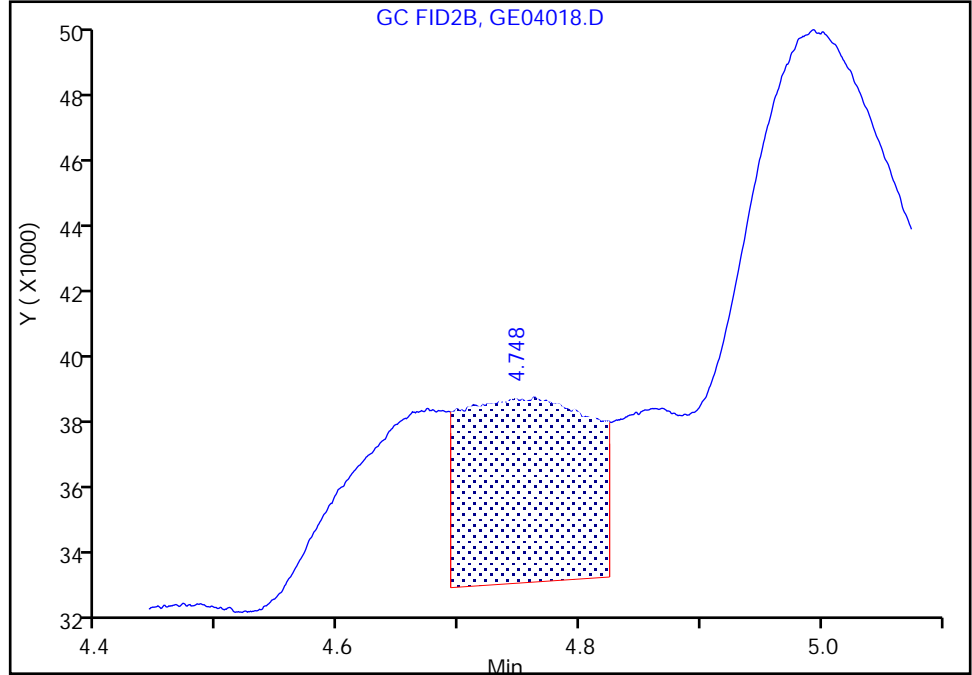
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04018.D
Injection Date: 04-May-2023 20:41:17 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

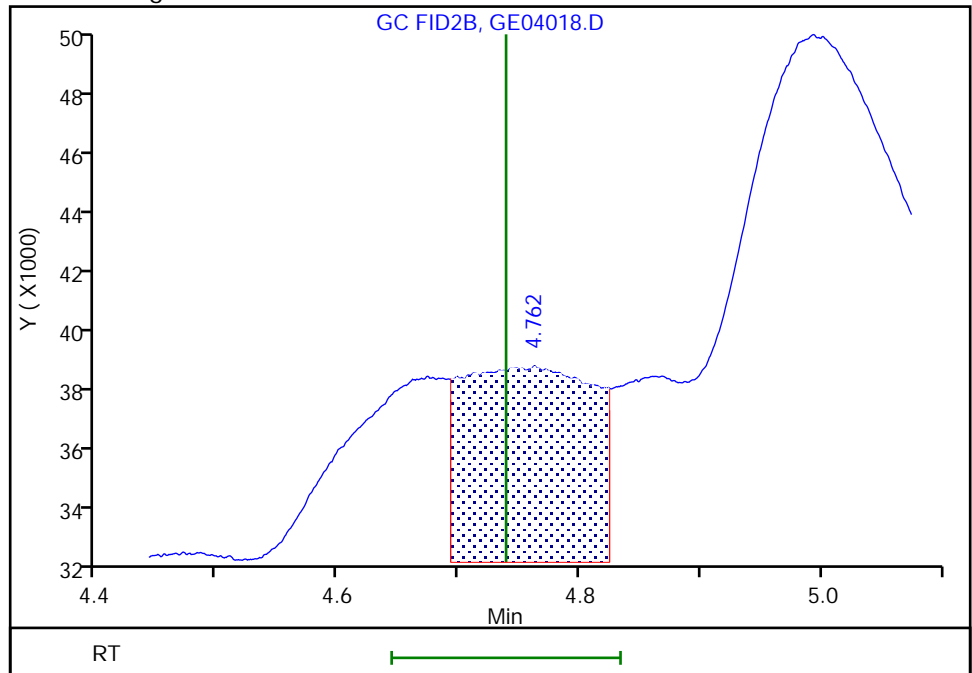
RT: 4.75
Area: 39751
Amount: 4.346457
Amount Units: ug/ml

Processing Integration Results



RT: 4.76
Area: 46664
Amount: 4.510915
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:29:31
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Euofins Savannah

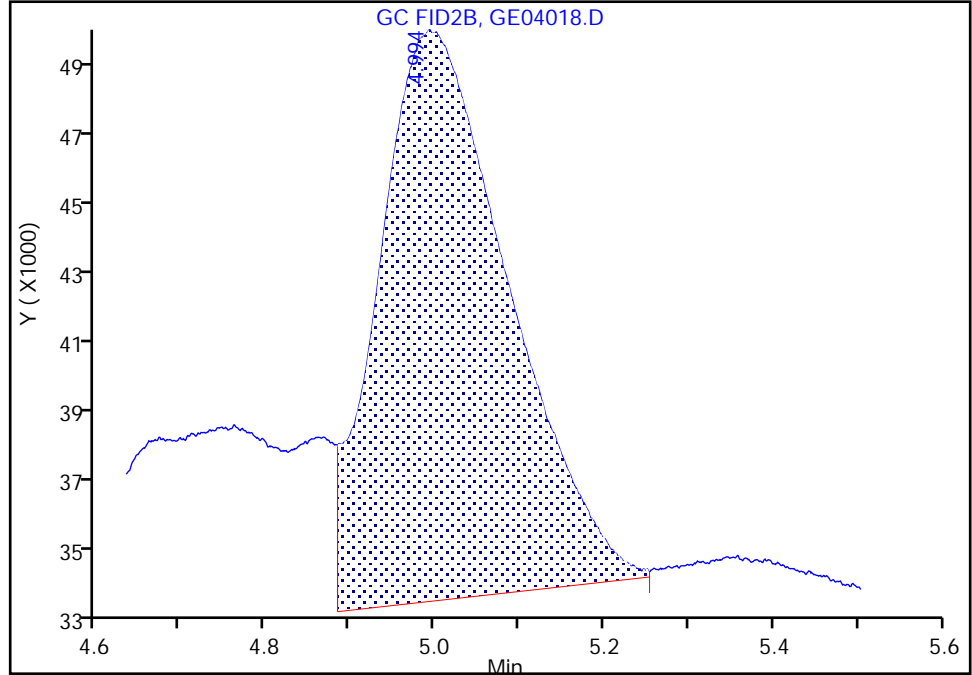
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04018.D
Injection Date: 04-May-2023 20:41:17 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

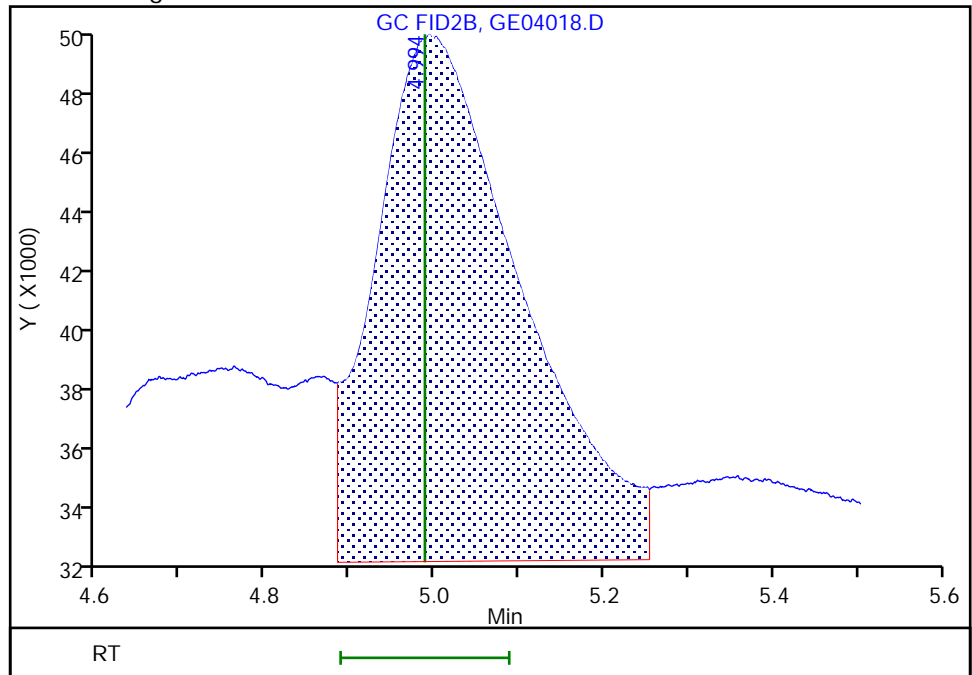
RT: 4.99
Area: 162651
Amount: 4.994558
Amount Units: ug/ml

Processing Integration Results



RT: 4.99
Area: 199874
Amount: 6.015888
Amount Units: ug/ml

Manual Integration Results



Euofins Savannah

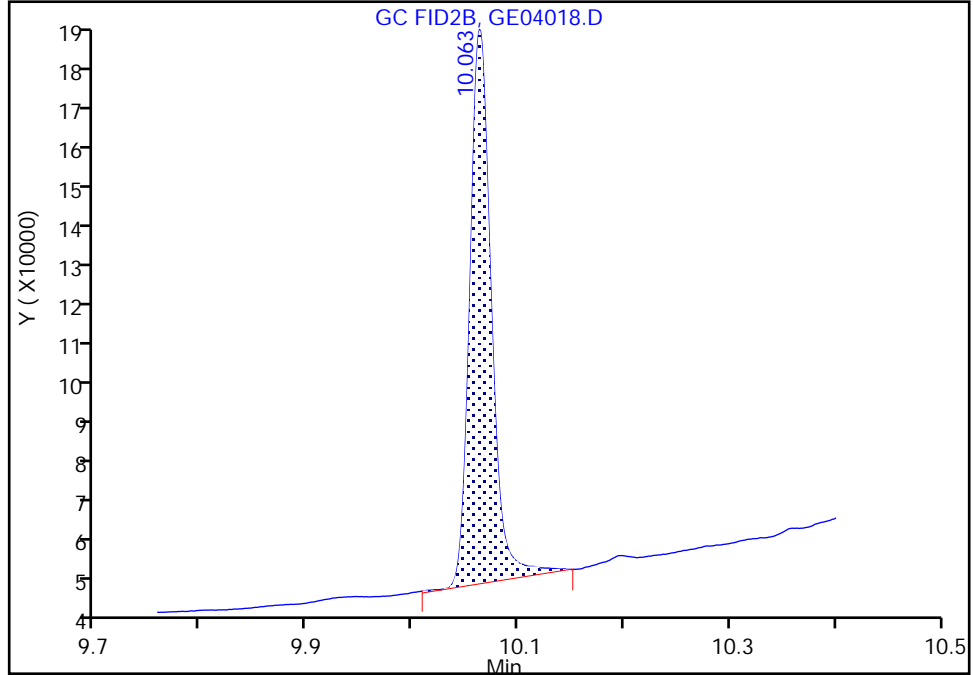
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04018.D
Injection Date: 04-May-2023 20:41:17 Instrument ID: CVGG2
Lims ID: ic g2
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

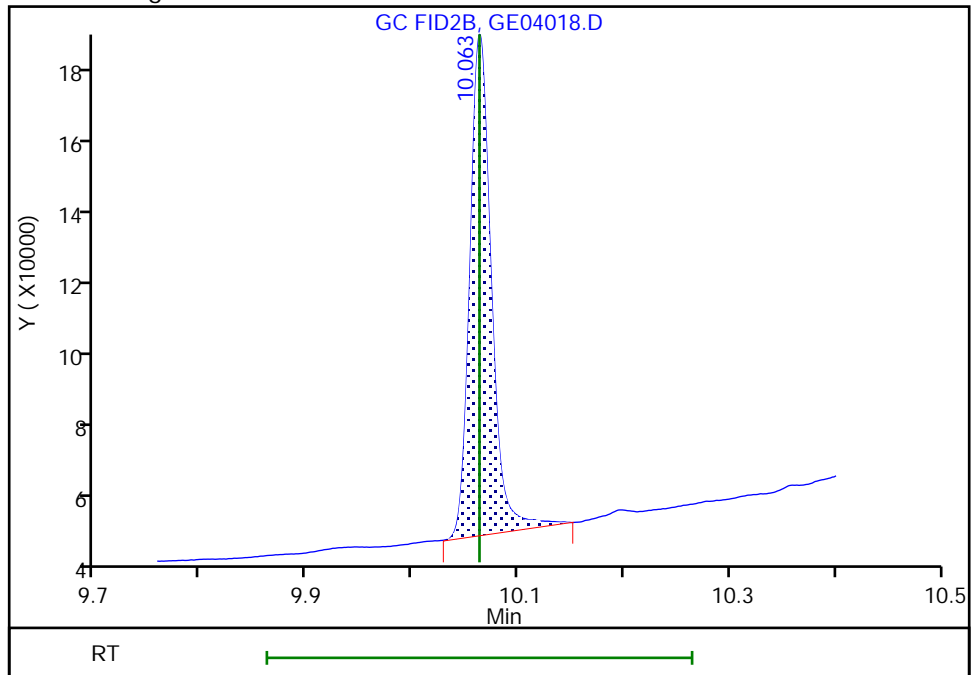
RT: 10.06
Area: 191832
Amount: 5.723991
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 191920
Amount: 5.252188
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:11:04
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Lims ID: ic g1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 04-May-2023 21:04:38 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-010
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:21:14 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:20:31

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.224 | 2.225 | -0.001 | 219781 | 2.00 | 2.03 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.579 | 2.579 | 0.000 | 146502 | 2.00 | 2.36 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.766 | 2.768 | -0.002 | 184986 | 2.00 | 2.01 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.078 | 3.082 | -0.004 | 5615421 | 50.0 | 50.0 | |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.829 | 3.826 | 0.003 | 11270 | 2.00 | 2.15 | |
| 6 Propylene glycol | | | | | | |
| 4.767 | 4.739 | 0.028 | 12451 | 2.00 | 2.67 | M |
| 7 Ethylene glycol | | | | | | |
| 4.995 | 4.988 | 0.007 | 79618 | 2.00 | 1.41 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.669 | 6.670 | -0.001 | 123292 | 2.00 | 2.22 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.809 | 8.808 | 0.001 | 63516 | 2.00 | 2.44 | |
| 10 Triethylene Glycol | | | | | | |
| 10.064 | 10.063 | 0.001 | 103427 | 2.00 | 1.01 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.902 | 10.901 | 0.001 | 115048 | 4.00 | 4.13 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 1.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D

Injection Date: 04-May-2023 21:04:38

Instrument ID: CVGG2

Operator ID:

Lims ID: ic g1

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

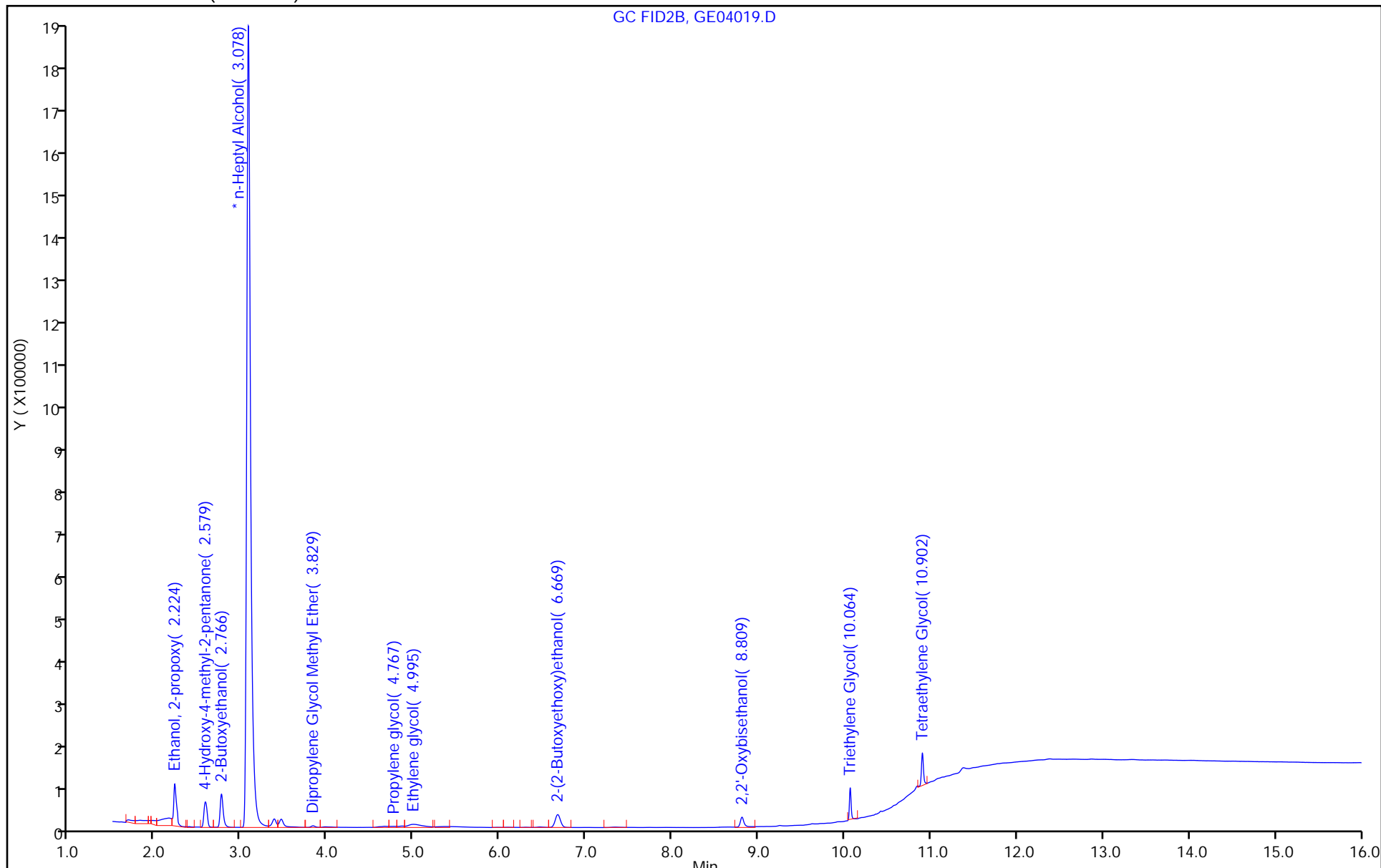
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
Injection Date: 04-May-2023 21:04:38 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8015_GLY_VGG
Column: J&W DB WAX (0.45 mm)

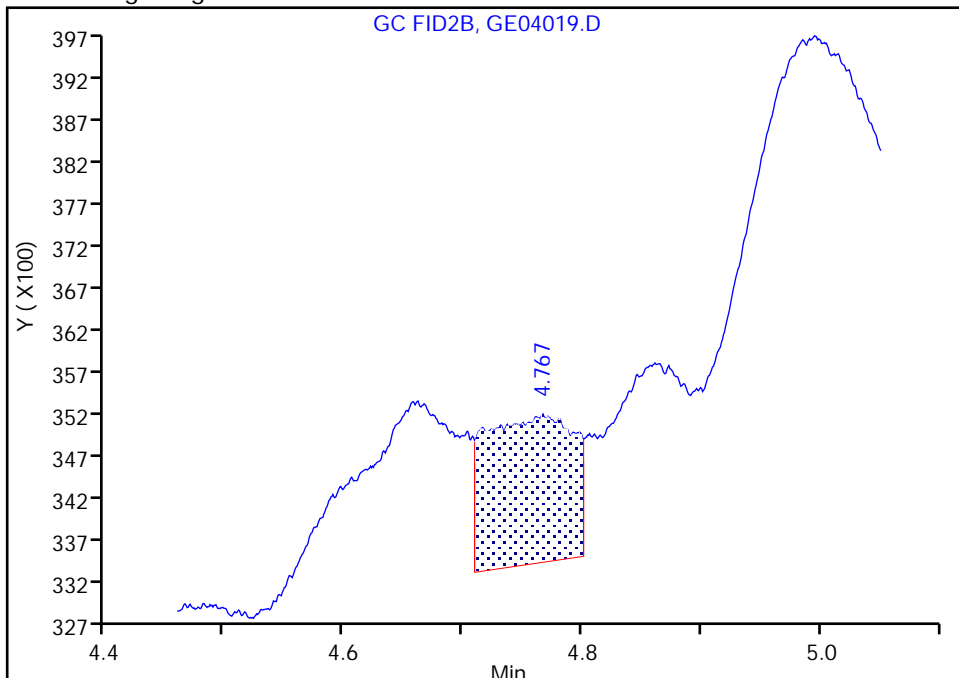
ALS Bottle#: 0 Worklist Smp#: 10
Dil. Factor: 1.0000
Limit Group: 8015C_DAI
Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

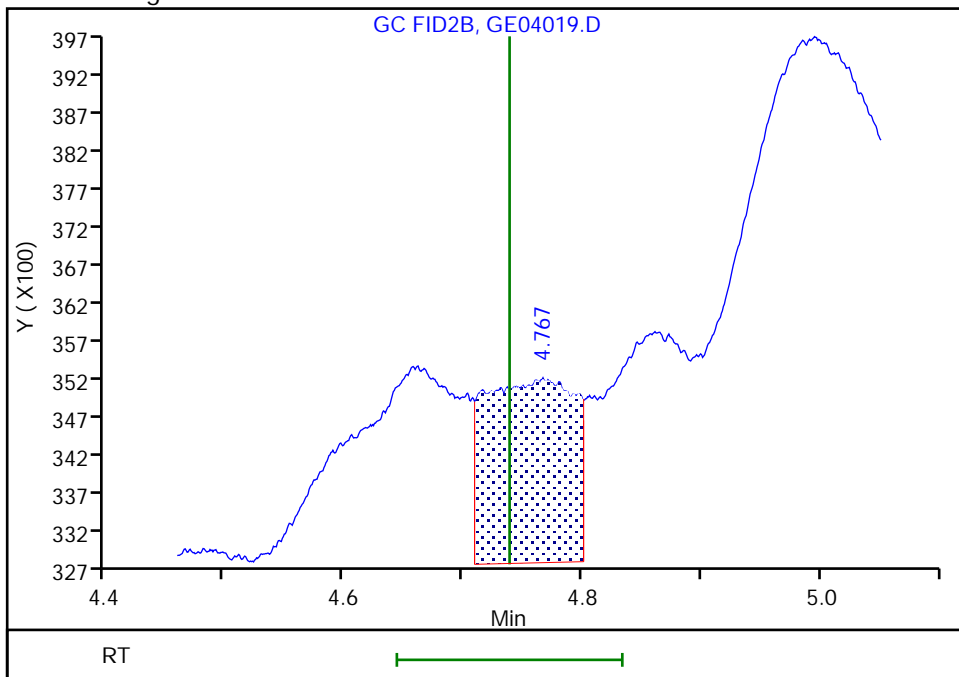
RT: 4.77
Area: 8901
Amount: 2.603226
Amount Units: ug/ml

Processing Integration Results



RT: 4.77
Area: 12451
Amount: 2.667104
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:29:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

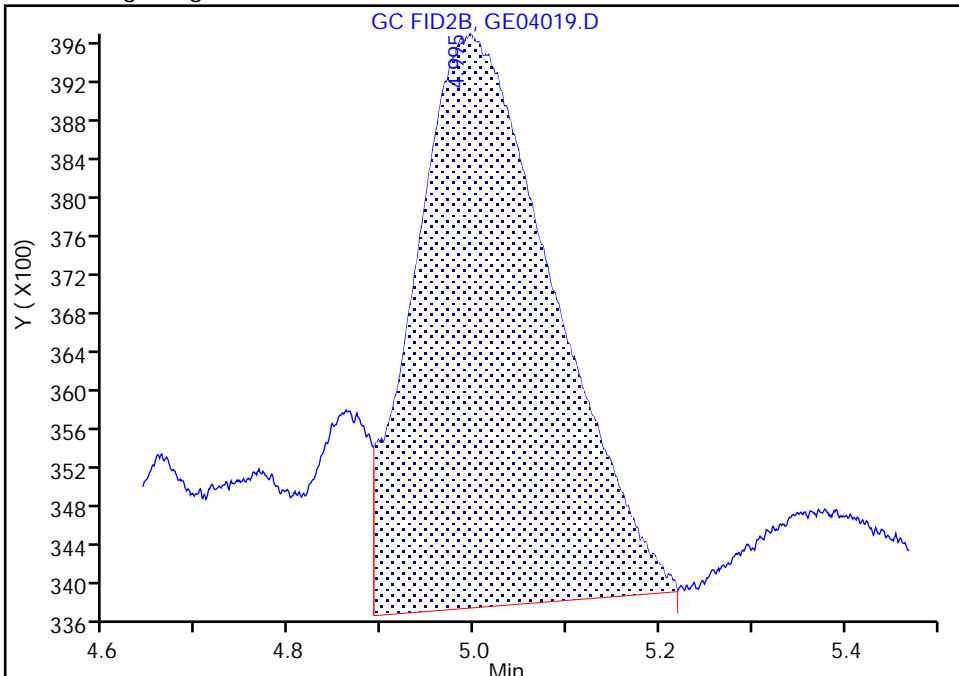
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
Injection Date: 04-May-2023 21:04:38 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

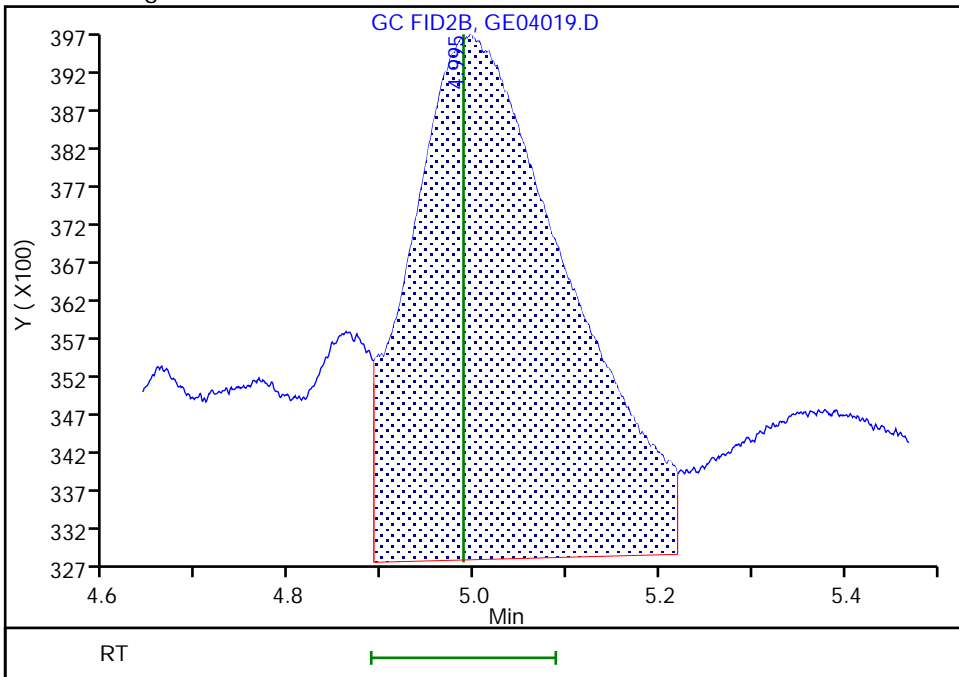
RT: 5.00
Area: 60726
Amount: 1.594665
Amount Units: ug/ml

Processing Integration Results



RT: 5.00
Area: 79618
Amount: 1.411022
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:29:48
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

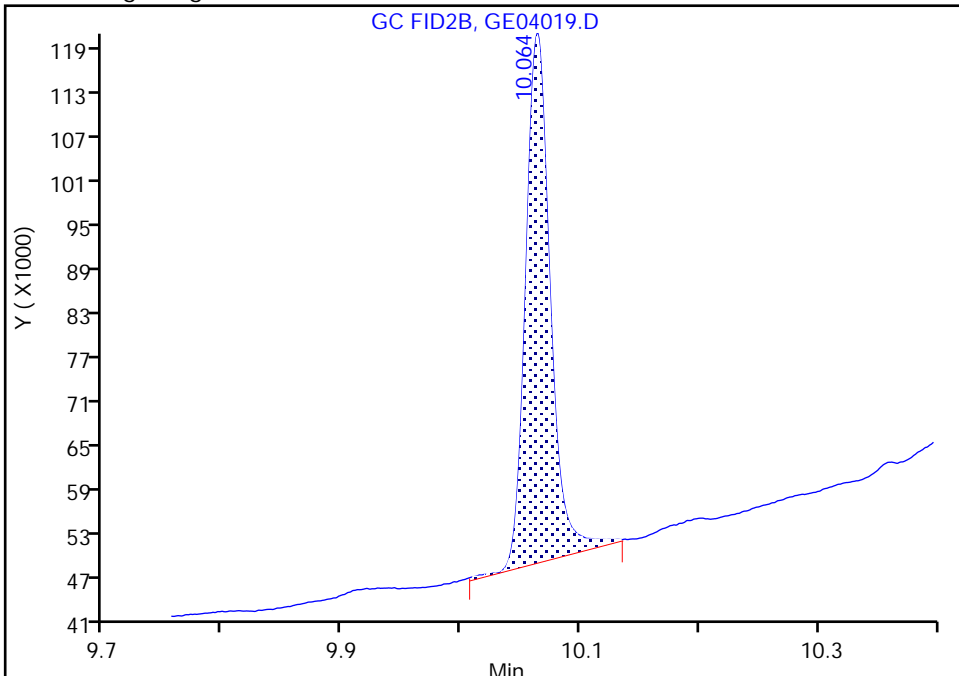
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
Injection Date: 04-May-2023 21:04:38 Instrument ID: CVGG2
Lims ID: ic g1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

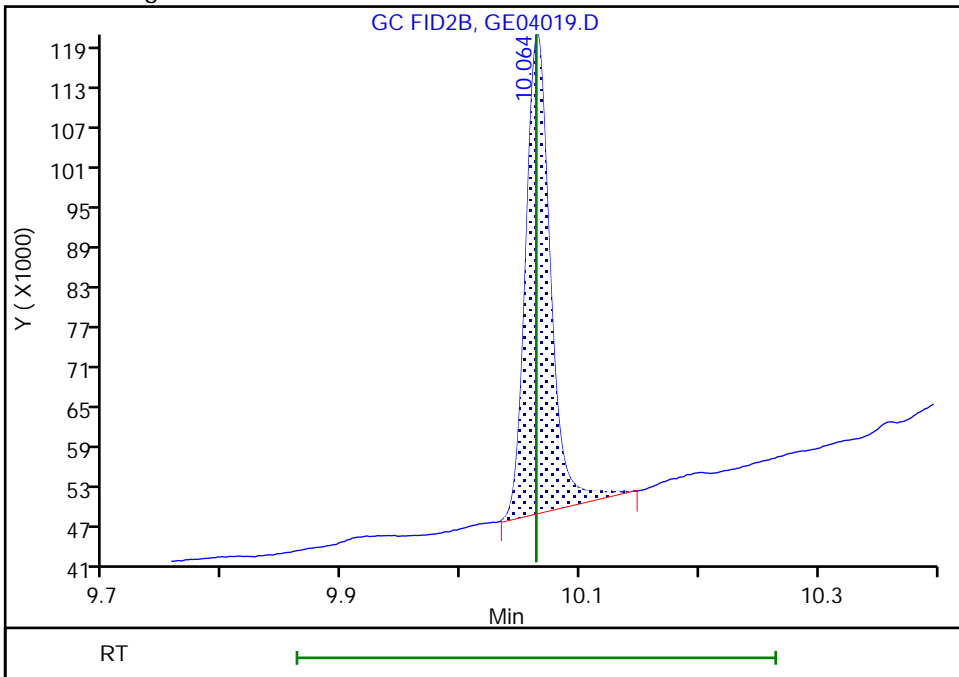
RT: 10.06
Area: 102494
Amount: 1.708437
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 103427
Amount: 1.014577
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:10:46
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

Calibration

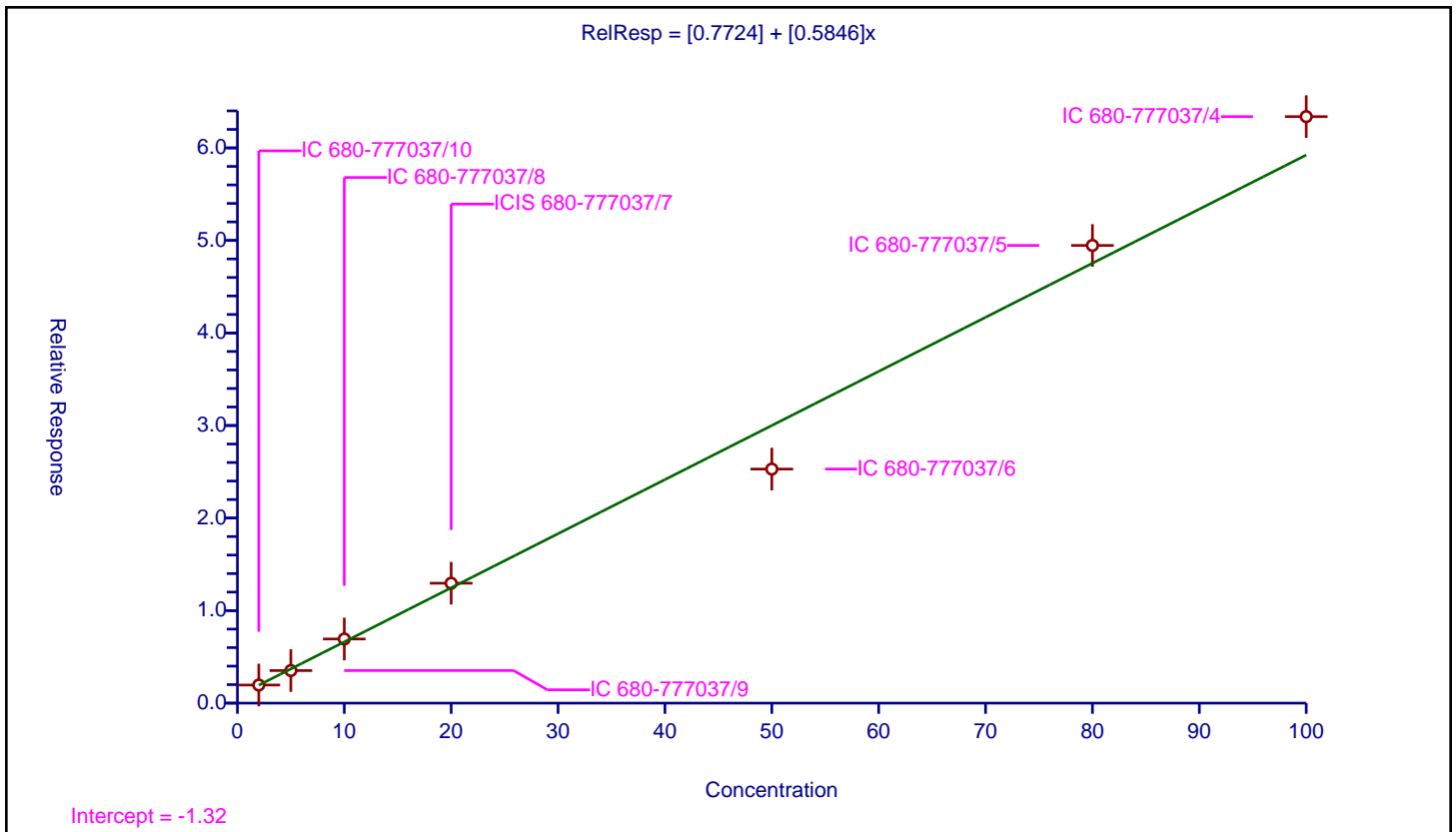
/ Ethanol, 2-propoxy

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.7724 |
| Slope: | 0.5846 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 3300000 |
| Relative Standard Error: | 9.1 |
| Correlation Coefficient: | 0.953 |
| Coefficient of Determination (Adjusted): | 0.991 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 1.956941 | 50.0 | 5615421.0 | 0.978471 | Y |
| 2 | IC 680-777037/9 | 5.0 | 3.518479 | 50.0 | 4958989.0 | 0.703696 | Y |
| 3 | IC 680-777037/8 | 10.0 | 6.932795 | 50.0 | 5345672.0 | 0.69328 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 12.960047 | 50.0 | 5680103.0 | 0.648002 | Y |
| 5 | IC 680-777037/6 | 50.0 | 25.293138 | 50.0 | 4789036.0 | 0.505863 | Y |
| 6 | IC 680-777037/5 | 80.0 | 49.460964 | 50.0 | 5001427.0 | 0.618262 | Y |
| 7 | IC 680-777037/4 | 100.0 | 63.381189 | 50.0 | 3623228.0 | 0.633812 | Y |



Calibration

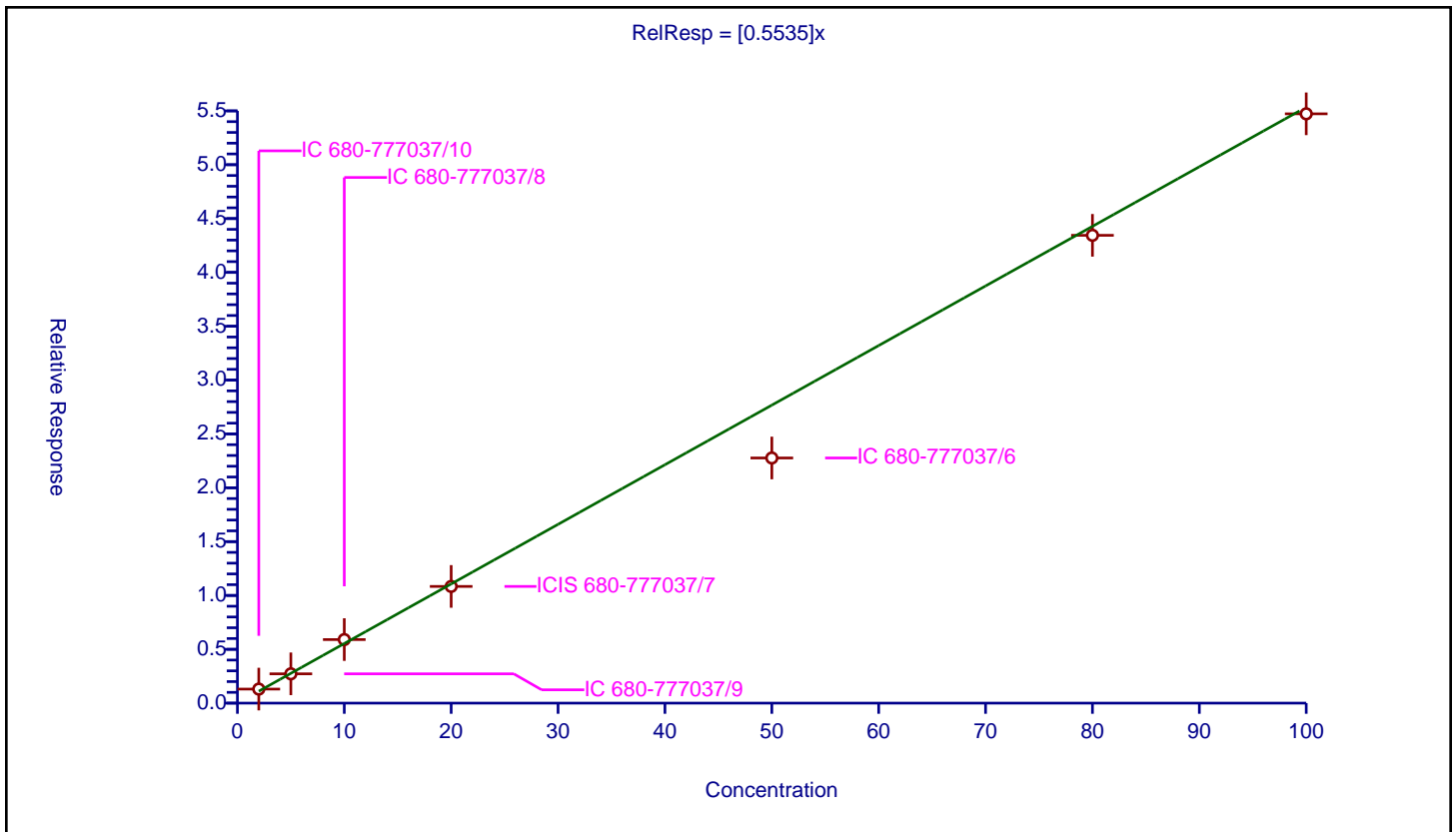
/ 4-Hydroxy-4-methyl-2-pentanone

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0 |
| Slope: | 0.5535 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2630000 |
| Relative Standard Error: | 10.7 |
| Correlation Coefficient: | 0.951 |
| Coefficient of Determination (Adjusted): | 0.982 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 1.304461 | 50.0 | 5615421.0 | 0.652231 | Y |
| 2 | IC 680-777037/9 | 5.0 | 2.720877 | 50.0 | 4958989.0 | 0.544175 | Y |
| 3 | IC 680-777037/8 | 10.0 | 5.902934 | 50.0 | 5345672.0 | 0.590293 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 10.838325 | 50.0 | 5680103.0 | 0.541916 | Y |
| 5 | IC 680-777037/6 | 50.0 | 22.765396 | 50.0 | 4789036.0 | 0.455308 | Y |
| 6 | IC 680-777037/5 | 80.0 | 43.442981 | 50.0 | 5001427.0 | 0.543037 | Y |
| 7 | IC 680-777037/4 | 100.0 | 54.727276 | 50.0 | 3623228.0 | 0.547273 | Y |



Calibration

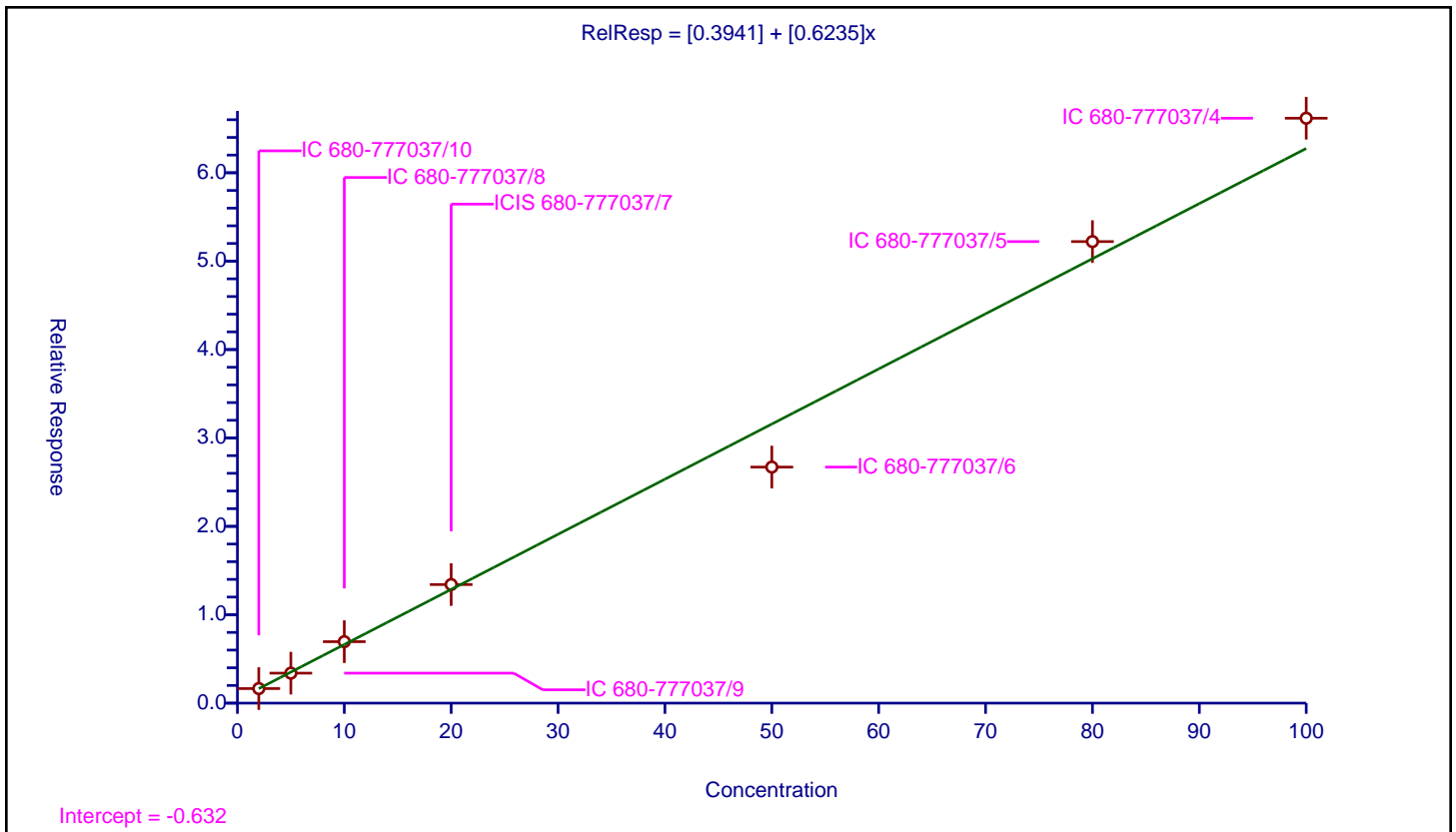
/ 2-Butoxyethanol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0.3941 |
| Slope: | 0.6235 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 3460000 |
| Relative Standard Error: | 8.4 |
| Correlation Coefficient: | 0.951 |
| Coefficient of Determination (Adjusted): | 0.992 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 1.647125 | 50.0 | 5615421.0 | 0.823562 | Y |
| 2 | IC 680-777037/9 | 5.0 | 3.391538 | 50.0 | 4958989.0 | 0.678308 | Y |
| 3 | IC 680-777037/8 | 10.0 | 6.953775 | 50.0 | 5345672.0 | 0.695377 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 13.415813 | 50.0 | 5680103.0 | 0.670791 | Y |
| 5 | IC 680-777037/6 | 50.0 | 26.70385 | 50.0 | 4789036.0 | 0.534077 | Y |
| 6 | IC 680-777037/5 | 80.0 | 52.214478 | 50.0 | 5001427.0 | 0.652681 | Y |
| 7 | IC 680-777037/4 | 100.0 | 66.172416 | 50.0 | 3623228.0 | 0.661724 | Y |



Calibration

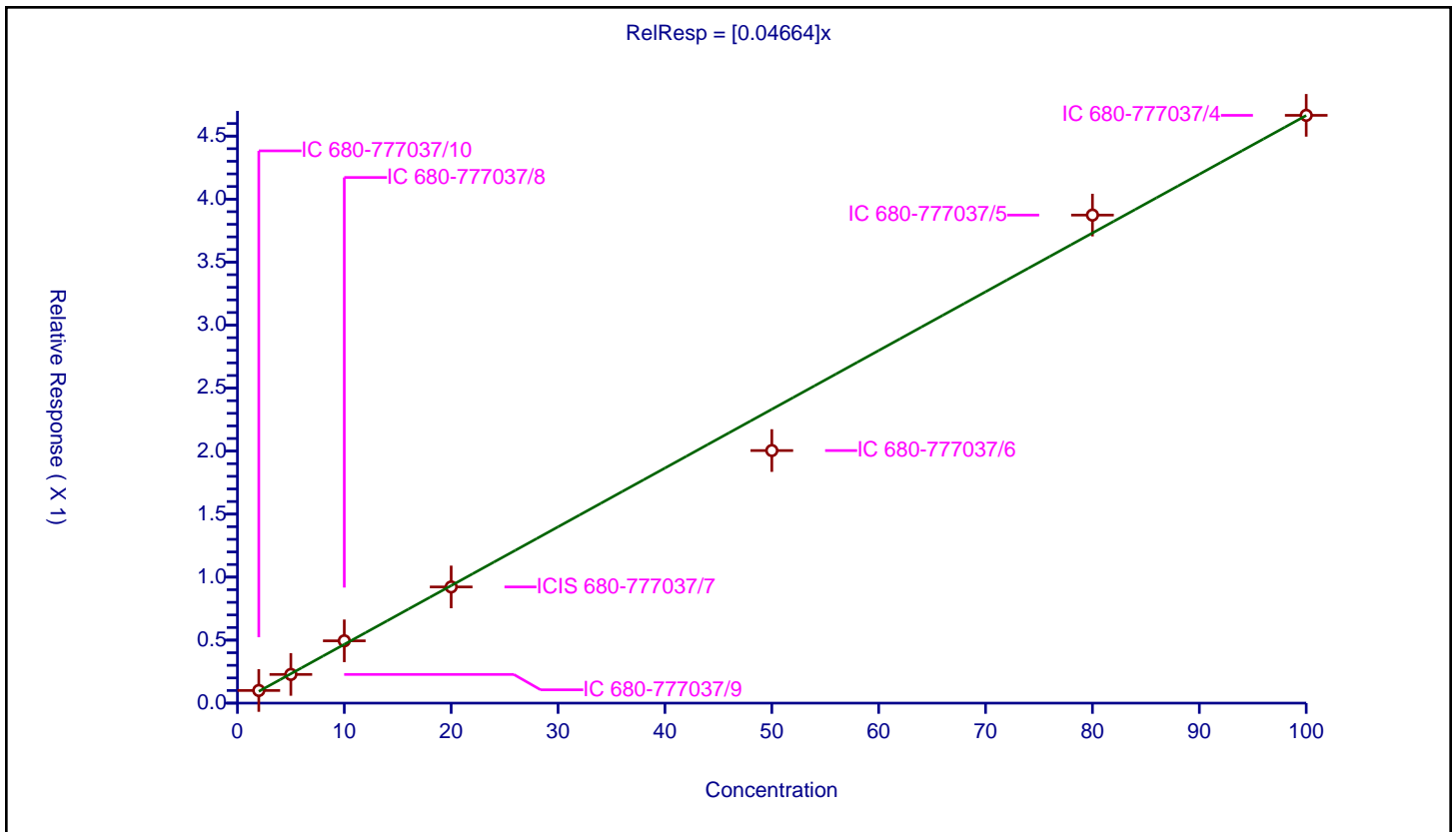
/ Dipropylene Glycol Methyl Ether

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

| Curve Coefficients | |
|--------------------|---------|
| Intercept: | 0 |
| Slope: | 0.04664 |

| Error Coefficients | |
|--|--------|
| Standard Error: | 229000 |
| Relative Standard Error: | 7.2 |
| Correlation Coefficient: | 0.939 |
| Coefficient of Determination (Adjusted): | 0.993 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 0.100349 | 50.0 | 5615421.0 | 0.050174 | Y |
| 2 | IC 680-777037/9 | 5.0 | 0.227829 | 50.0 | 4958989.0 | 0.045566 | Y |
| 3 | IC 680-777037/8 | 10.0 | 0.494531 | 50.0 | 5345672.0 | 0.049453 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 0.922122 | 50.0 | 5680103.0 | 0.046106 | Y |
| 5 | IC 680-777037/6 | 50.0 | 2.004443 | 50.0 | 4789036.0 | 0.040089 | Y |
| 6 | IC 680-777037/5 | 80.0 | 3.873175 | 50.0 | 5001427.0 | 0.048415 | Y |
| 7 | IC 680-777037/4 | 100.0 | 4.664777 | 50.0 | 3623228.0 | 0.046648 | Y |



Calibration

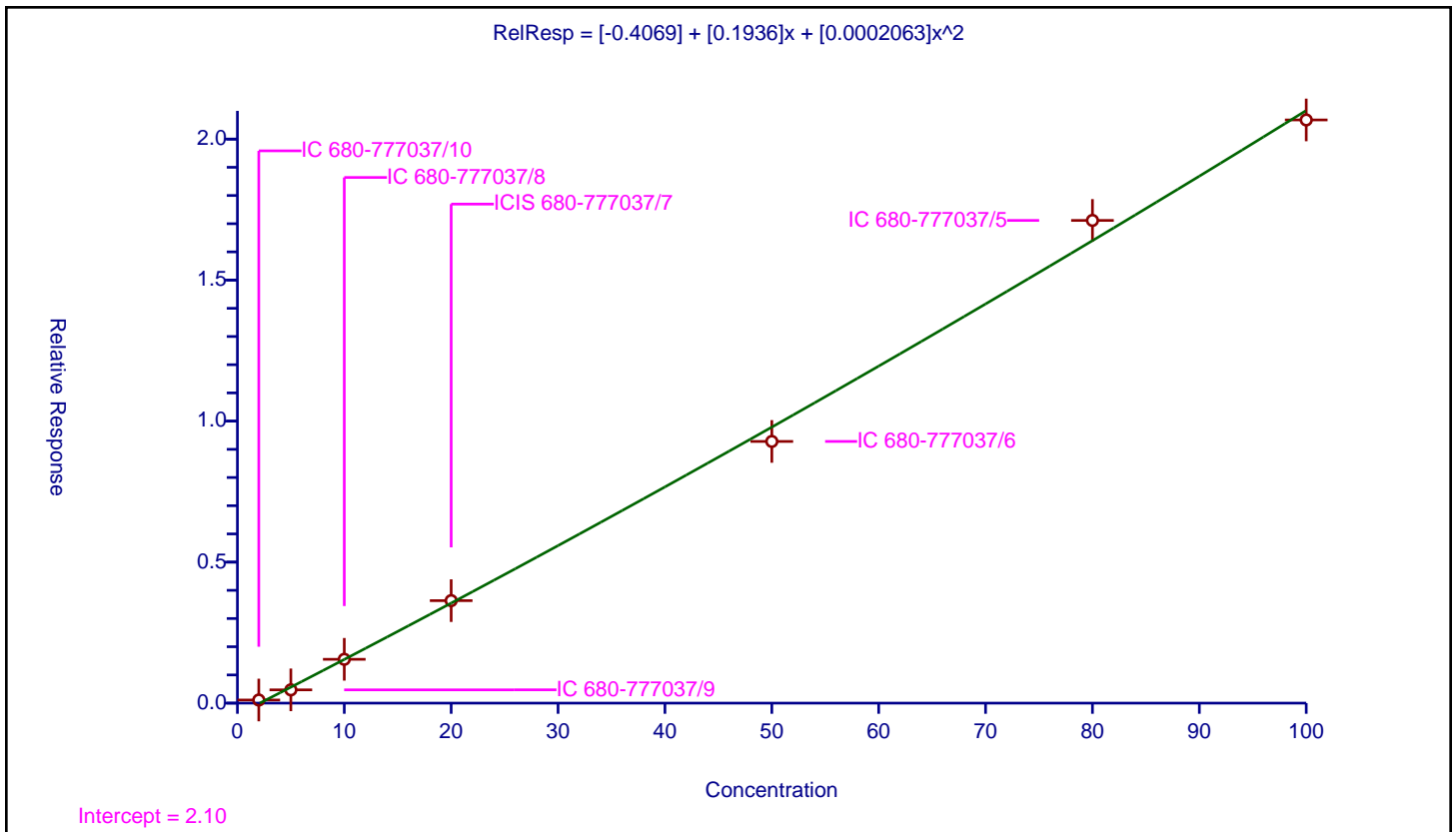
/ Propylene glycol

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

| Curve Coefficients | |
|--------------------|-----------|
| Intercept: | -0.4069 |
| Slope: | 0.1936 |
| Second Order: | 0.0002063 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 1240000 |
| Relative Standard Error: | 17.7 |
| Correlation Coefficient: | 0.937 |
| Coefficient of Determination (Adjusted): | 0.998 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 0.110864 | 50.0 | 5615421.0 | 0.055432 | Y |
| 2 | IC 680-777037/9 | 5.0 | 0.470499 | 50.0 | 4958989.0 | 0.0941 | Y |
| 3 | IC 680-777037/8 | 10.0 | 1.554388 | 50.0 | 5345672.0 | 0.155439 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 3.634705 | 50.0 | 5680103.0 | 0.181735 | Y |
| 5 | IC 680-777037/6 | 50.0 | 9.278986 | 50.0 | 4789036.0 | 0.18558 | Y |
| 6 | IC 680-777037/5 | 80.0 | 17.115455 | 50.0 | 5001427.0 | 0.213943 | Y |
| 7 | IC 680-777037/4 | 100.0 | 20.678439 | 50.0 | 3623228.0 | 0.206784 | Y |



Calibration

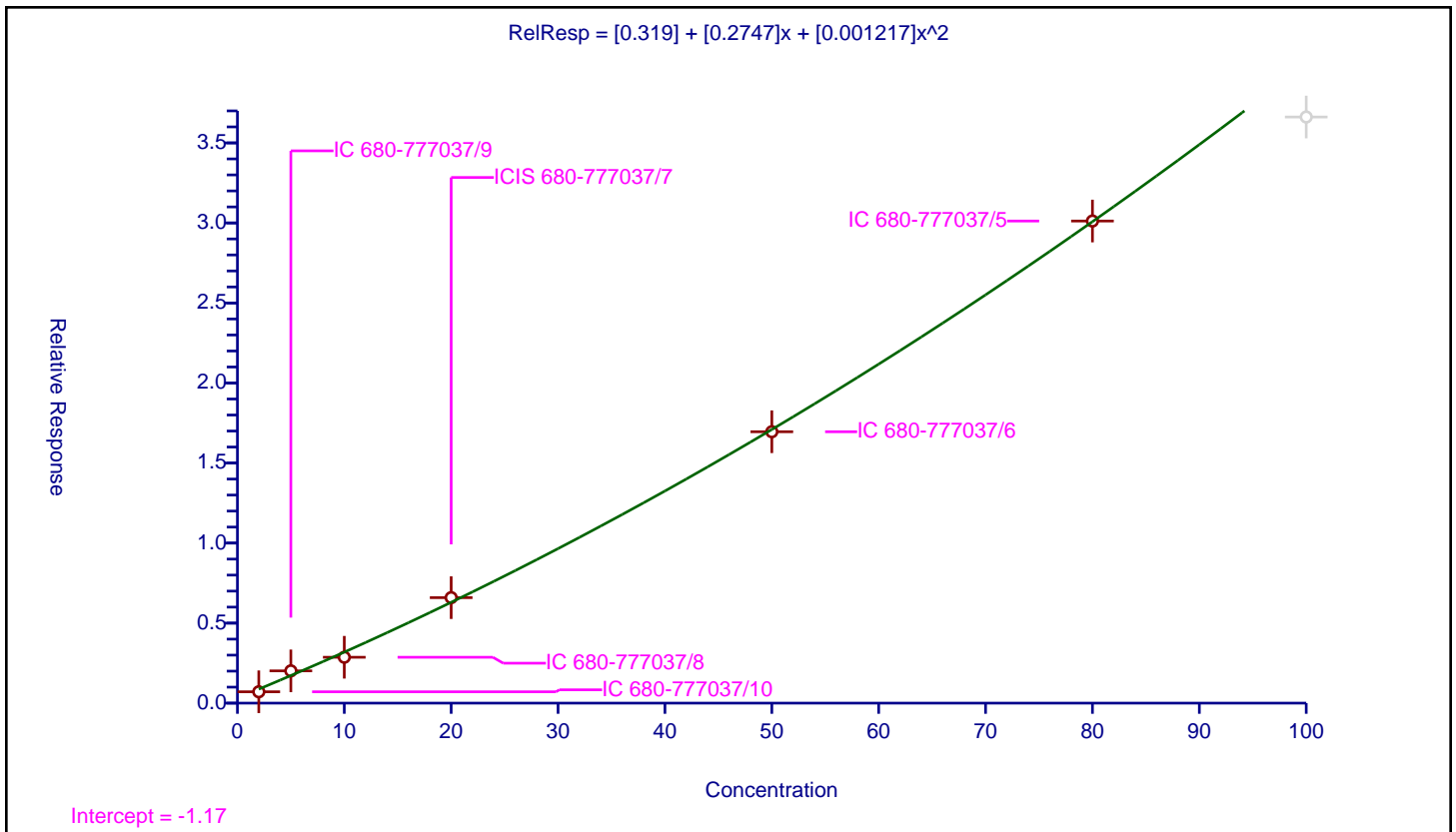
/ Ethylene glycol

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

| Curve Coefficients | |
|--------------------|----------|
| Intercept: | 0.319 |
| Slope: | 0.2747 |
| Second Order: | 0.001217 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2030000 |
| Relative Standard Error: | 21.7 |
| Correlation Coefficient: | 0.997 |
| Coefficient of Determination (Adjusted): | 1.000 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 0.708923 | 50.0 | 5615421.0 | 0.354461 | Y |
| 2 | IC 680-777037/9 | 5.0 | 2.01527 | 50.0 | 4958989.0 | 0.403054 | Y |
| 3 | IC 680-777037/8 | 10.0 | 2.866646 | 50.0 | 5345672.0 | 0.286665 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 6.590189 | 50.0 | 5680103.0 | 0.329509 | Y |
| 5 | IC 680-777037/6 | 50.0 | 16.954195 | 50.0 | 4789036.0 | 0.339084 | Y |
| 6 | IC 680-777037/5 | 80.0 | 30.119794 | 50.0 | 5001427.0 | 0.376497 | Y |
| 7 | IC 680-777037/4 | 100.0 | 36.617582 | 50.0 | 3623228.0 | 0.366176 | N |



Calibration

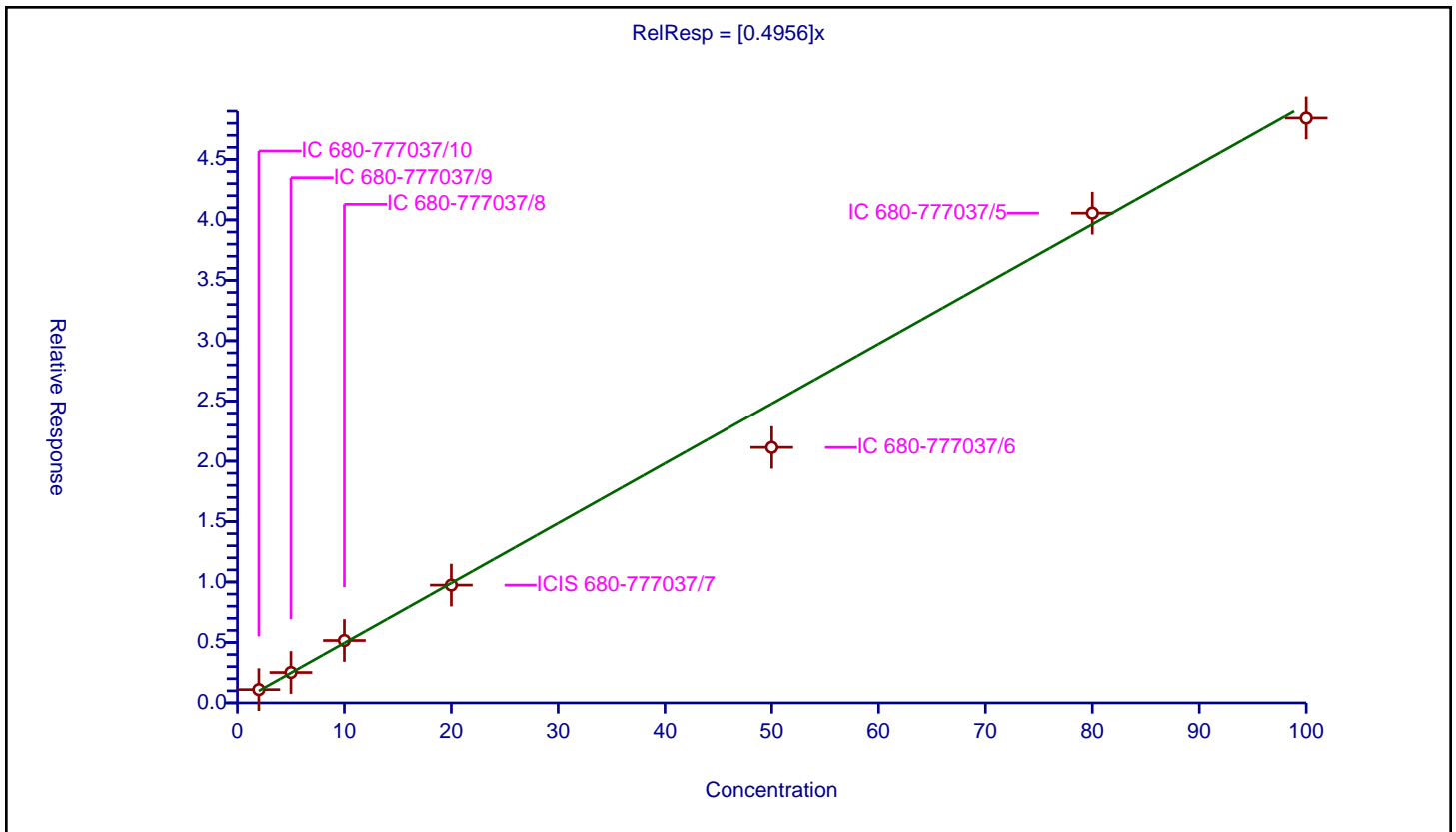
/ 2-(2-Butoxyethoxy)ethanol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0 |
| Slope: | 0.4956 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2400000 |
| Relative Standard Error: | 7.8 |
| Correlation Coefficient: | 0.936 |
| Coefficient of Determination (Adjusted): | 0.991 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 1.097798 | 50.0 | 5615421.0 | 0.548899 | Y |
| 2 | IC 680-777037/9 | 5.0 | 2.514837 | 50.0 | 4958989.0 | 0.502967 | Y |
| 3 | IC 680-777037/8 | 10.0 | 5.16096 | 50.0 | 5345672.0 | 0.516096 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 9.742508 | 50.0 | 5680103.0 | 0.487125 | Y |
| 5 | IC 680-777037/6 | 50.0 | 21.142251 | 50.0 | 4789036.0 | 0.422845 | Y |
| 6 | IC 680-777037/5 | 80.0 | 40.557905 | 50.0 | 5001427.0 | 0.506974 | Y |
| 7 | IC 680-777037/4 | 100.0 | 48.429218 | 50.0 | 3623228.0 | 0.484292 | Y |



Calibration

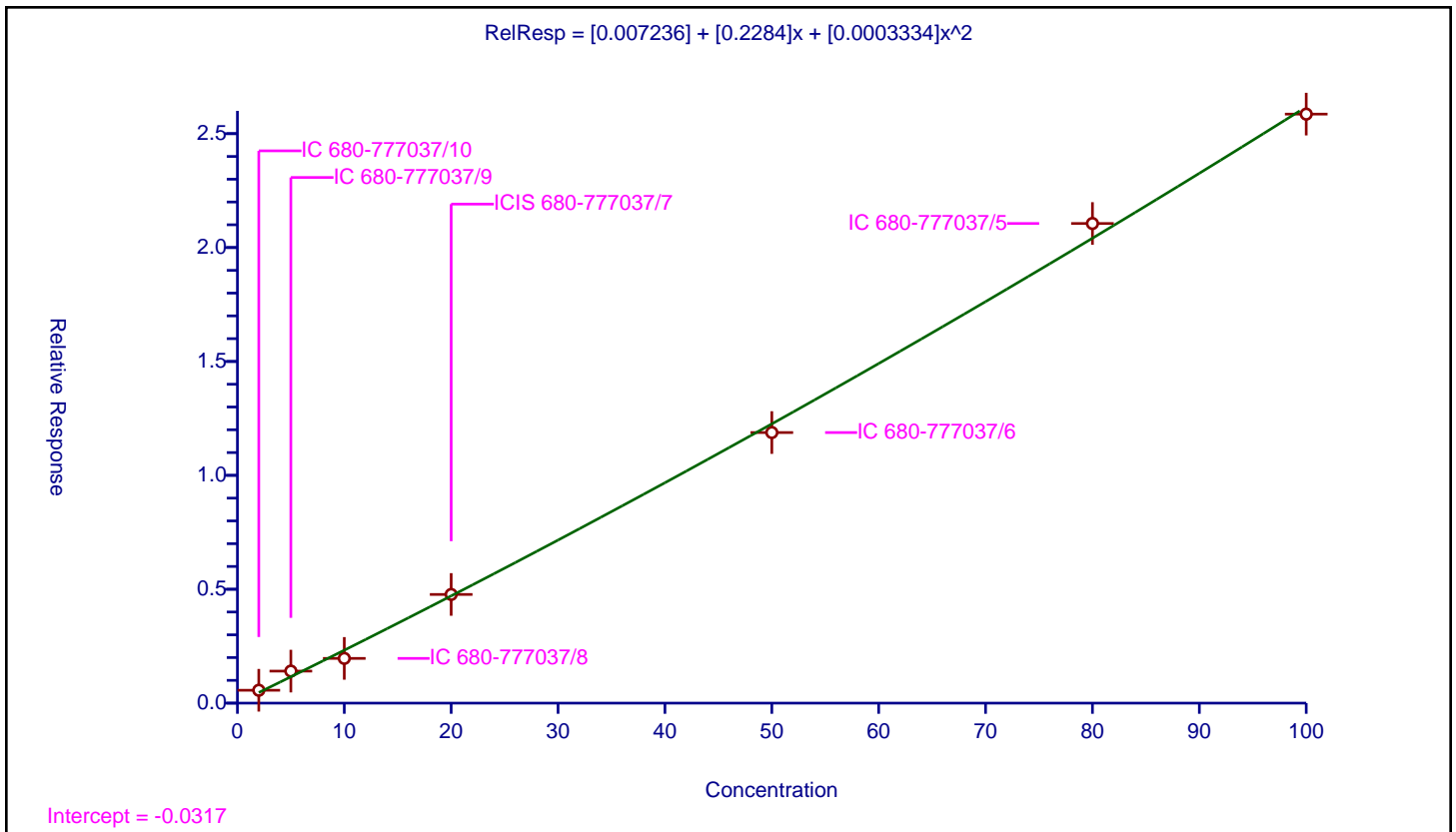
/ 2,2'-Oxybisethanol

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

| Curve Coefficients | |
|--------------------|-----------|
| Intercept: | 0.007236 |
| Slope: | 0.2284 |
| Second Order: | 0.0003334 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 1550000 |
| Relative Standard Error: | 17.3 |
| Correlation Coefficient: | 0.939 |
| Coefficient of Determination (Adjusted): | 0.999 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 0.56555 | 50.0 | 5615421.0 | 0.282775 | Y |
| 2 | IC 680-777037/9 | 5.0 | 1.406305 | 50.0 | 4958989.0 | 0.281261 | Y |
| 3 | IC 680-777037/8 | 10.0 | 1.963289 | 50.0 | 5345672.0 | 0.196329 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 4.770583 | 50.0 | 5680103.0 | 0.238529 | Y |
| 5 | IC 680-777037/6 | 50.0 | 11.87927 | 50.0 | 4789036.0 | 0.237585 | Y |
| 6 | IC 680-777037/5 | 80.0 | 21.056121 | 50.0 | 5001427.0 | 0.263202 | Y |
| 7 | IC 680-777037/4 | 100.0 | 25.858558 | 50.0 | 3623228.0 | 0.258586 | Y |



Calibration

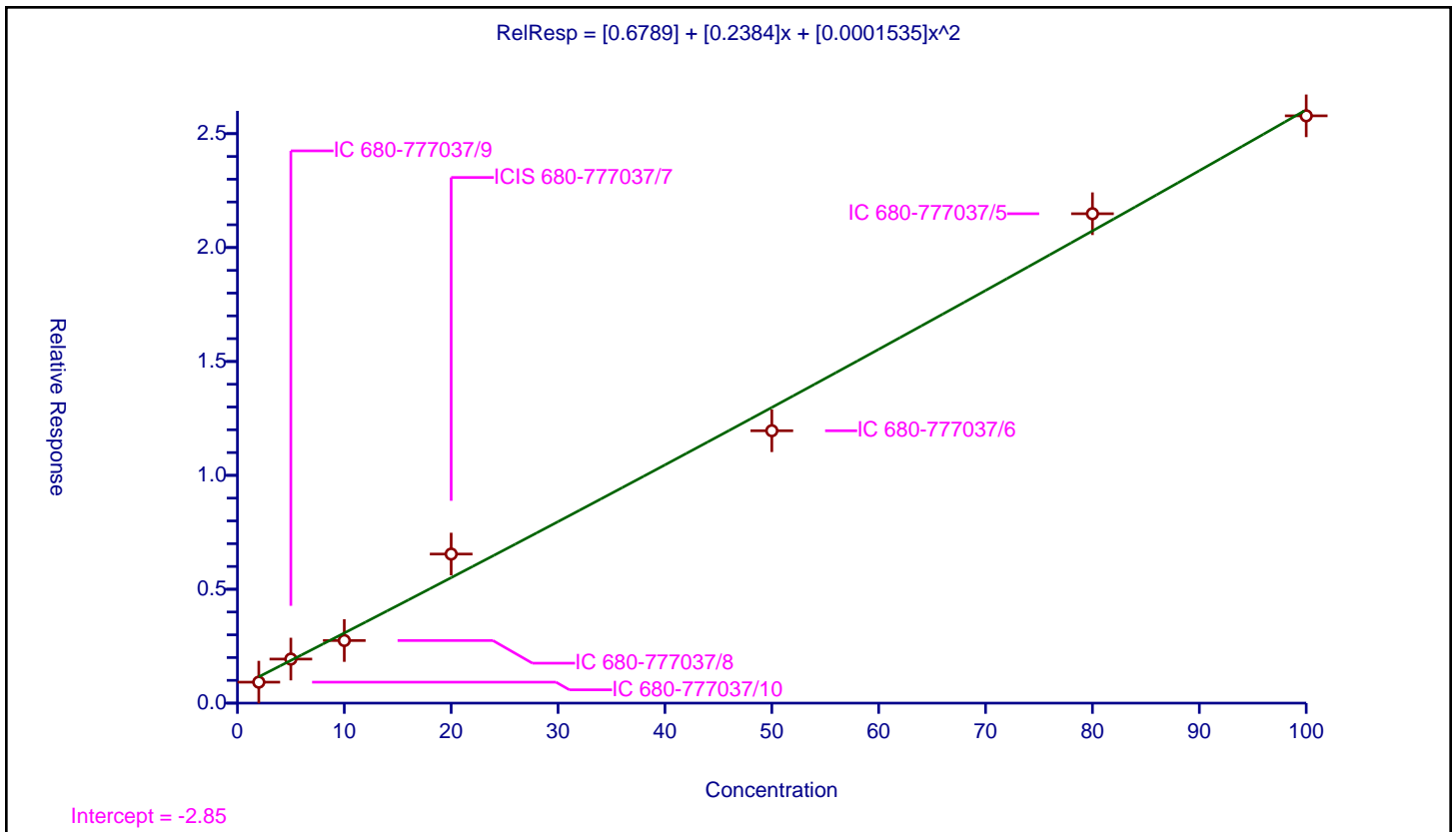
/ Triethylene Glycol

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

| Curve Coefficients | |
|--------------------|-----------|
| Intercept: | 0.6789 |
| Slope: | 0.2384 |
| Second Order: | 0.0001535 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 1590000 |
| Relative Standard Error: | 28.1 |
| Correlation Coefficient: | 0.925 |
| Coefficient of Determination (Adjusted): | 0.995 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 2.0 | 0.920919 | 50.0 | 5615421.0 | 0.46046 | Y |
| 2 | IC 680-777037/9 | 5.0 | 1.935072 | 50.0 | 4958989.0 | 0.387014 | Y |
| 3 | IC 680-777037/8 | 10.0 | 2.748298 | 50.0 | 5345672.0 | 0.27483 | Y |
| 4 | ICIS 680-777037/7 | 20.0 | 6.544327 | 50.0 | 5680103.0 | 0.327216 | Y |
| 5 | IC 680-777037/6 | 50.0 | 11.958993 | 50.0 | 4789036.0 | 0.23918 | Y |
| 6 | IC 680-777037/5 | 80.0 | 21.485898 | 50.0 | 5001427.0 | 0.268574 | Y |
| 7 | IC 680-777037/4 | 100.0 | 25.783348 | 50.0 | 3623228.0 | 0.257833 | Y |



Calibration

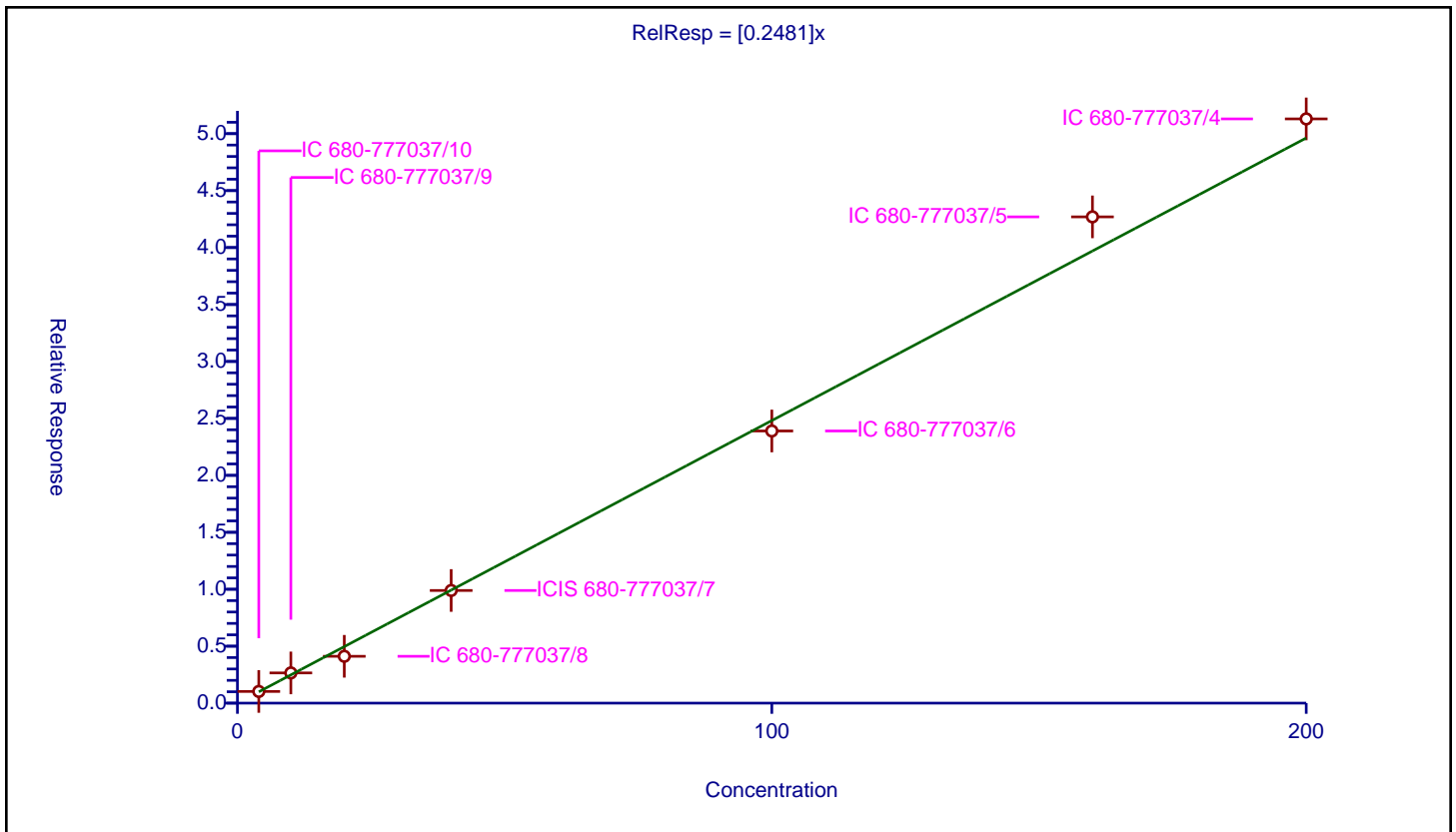
/ Tetraethylene Glycol

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

| Curve Coefficients | |
|--------------------|--------|
| Intercept: | 0 |
| Slope: | 0.2481 |

| Error Coefficients | |
|--|---------|
| Standard Error: | 2540000 |
| Relative Standard Error: | 8.5 |
| Correlation Coefficient: | 0.941 |
| Coefficient of Determination (Adjusted): | 0.990 |

| ID | Level | Concentration | Rel. Resp. | IS Amount | IS Response | RRF | Used |
|----|-------------------|---------------|------------|-----------|-------------|----------|------|
| 1 | IC 680-777037/10 | 4.0 | 1.024393 | 50.0 | 5615421.0 | 0.256098 | Y |
| 2 | IC 680-777037/9 | 10.0 | 2.654059 | 50.0 | 4958989.0 | 0.265406 | Y |
| 3 | IC 680-777037/8 | 20.0 | 4.112458 | 50.0 | 5345672.0 | 0.205623 | Y |
| 4 | ICIS 680-777037/7 | 40.0 | 9.891449 | 50.0 | 5680103.0 | 0.247286 | Y |
| 5 | IC 680-777037/6 | 100.0 | 23.896281 | 50.0 | 4789036.0 | 0.238963 | Y |
| 6 | IC 680-777037/5 | 160.0 | 42.695615 | 50.0 | 5001427.0 | 0.266848 | Y |
| 7 | IC 680-777037/4 | 200.0 | 51.296441 | 50.0 | 3623228.0 | 0.256482 | Y |



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Lab Sample ID: ICV 680-777037/11 Calibration Date: 05/04/2023 21:27
 Instrument ID: CVGG2 Calib Start Date: 05/04/2023 18:45
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/04/2023 21:04
 Lab File ID: GE04020.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Lin2 | | 0.7376 | | 23.9 | 20.0 | 19.6 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentano ne | Ave | 0.5535 | 0.6602 | | 23.9 | 20.0 | 19.3 | 20.0 |
| 2-Butoxyethanol | Lin2 | | 0.7869 | | 24.6 | 20.0 | 23.0* | 20.0 |
| Dipropylene Glycol Methyl Ether | Ave | 0.0466 | 0.0525 | | 22.5 | 20.0 | 12.6 | 20.0 |
| Propylene glycol | Qua | | 0.1444 | | 16.7 | 20.0 | -16.4 | 20.0 |
| Ethylene glycol | Qua | | 0.2640 | | 16.8 | 20.0 | -15.9 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Ave | 0.4956 | 0.5413 | | 21.8 | 20.0 | 9.2 | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.1612 | | 13.8 | 20.0 | -31.0* | 20.0 |
| Triethylene Glycol | Qua | | 0.1999 | | 13.8 | 20.0 | -31.0* | 20.0 |
| Tetraethylene Glycol | Ave | 0.2481 | 0.1894 | | 30.5 | 40.0 | -23.6* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Lab Sample ID: ICV 680-777037/11 Calibration Date: 05/04/2023 21:27
 Instrument ID: CVGG2 Calib Start Date: 05/04/2023 18:45
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/04/2023 21:04
 Lab File ID: GE04020.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 2.23 | 2.18 | 2.27 |
| 4-Hydroxy-4-methyl-2-pentanone | 2.59 | 2.53 | 2.63 |
| 2-Butoxyethanol | 2.77 | 2.71 | 2.82 |
| Dipropylene Glycol Methyl Ether | 3.83 | 3.75 | 3.90 |
| Propylene glycol | 4.74 | 4.64 | 4.83 |
| Ethylene glycol | 4.99 | 4.89 | 5.09 |
| 2-(2-Butoxyethoxy)ethanol | 6.67 | 6.54 | 6.80 |
| 2,2'-Oxybisethanol | 8.81 | 8.63 | 8.98 |
| Triethylene Glycol | 10.06 | 9.86 | 10.26 |
| Tetraethylene Glycol | 10.90 | 10.68 | 11.12 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
 Lims ID: icv glycol
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-May-2023 21:27:51 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-011
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:26:49 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 11:49:16

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|---------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.226 | 2.225 | 0.001 | 1610017 | 20.0 | 23.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.586 | 2.579 | 0.007 | 1440981 | 20.0 | 23.9 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.766 | 2.768 | -0.002 | 1717668 | 20.0 | 24.6 | M |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.073 | 3.082 | -0.009 | 5457015 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.832 | 3.826 | 0.006 | 114627 | 20.0 | 22.5 | M |
| 6 Propylene glycol | | | | | | |
| 4.743 | 4.739 | 0.004 | 315153 | 20.0 | 16.7 | M |
| 7 Ethylene glycol | | | | | | |
| 4.993 | 4.988 | 0.005 | 576295 | 20.0 | 16.8 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.671 | 6.670 | 0.001 | 1181599 | 20.0 | 21.8 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.807 | 8.808 | -0.001 | 351785 | 20.0 | 13.8 | |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 436311 | 20.0 | 13.8 | M |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 827005 | 40.0 | 30.5 | |

QC Flag Legend
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_GlyICV_00057

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D

Injection Date: 04-May-2023 21:27:51

Instrument ID: CVGG2

Operator ID:

Lims ID: icv glycol

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

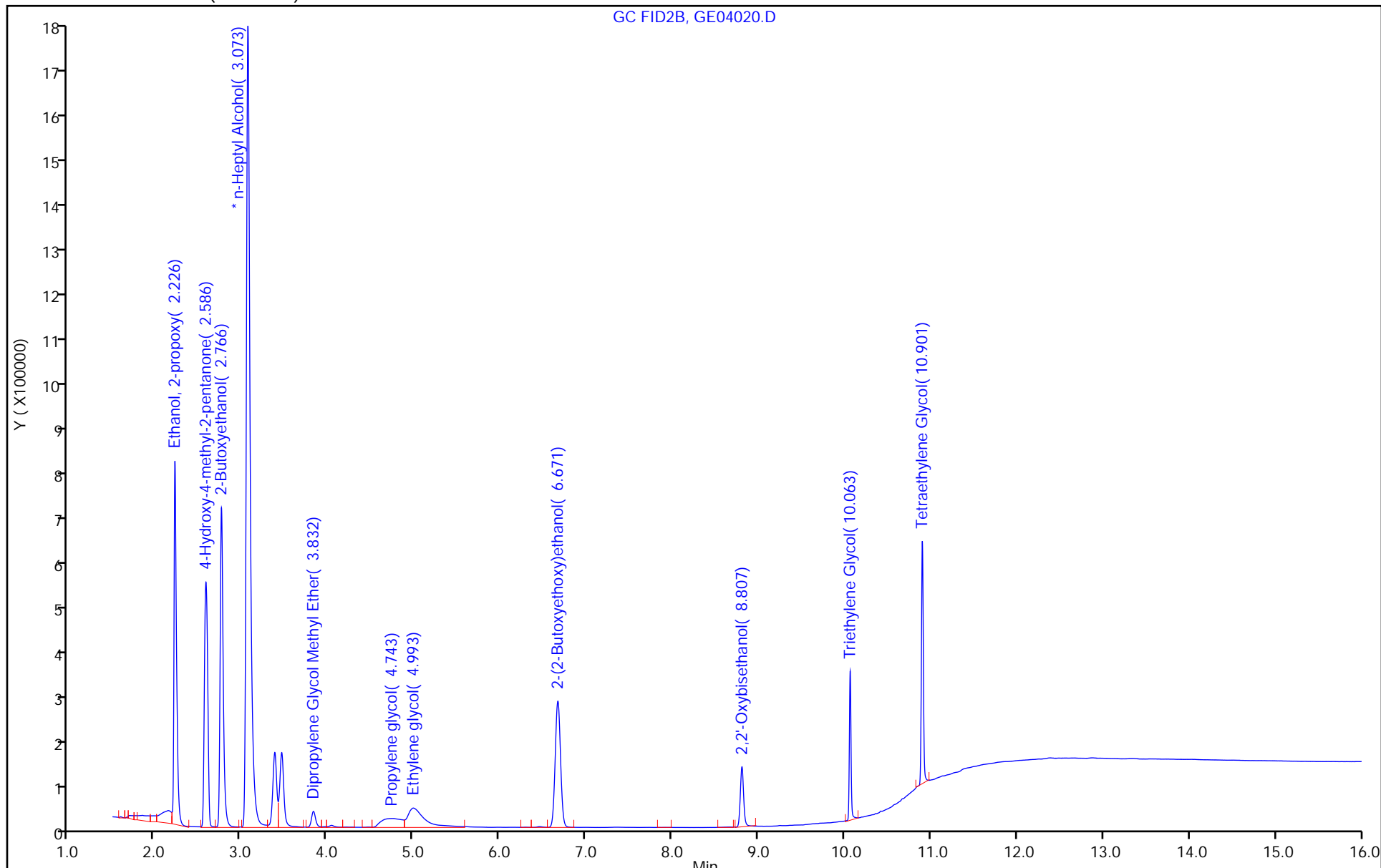
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



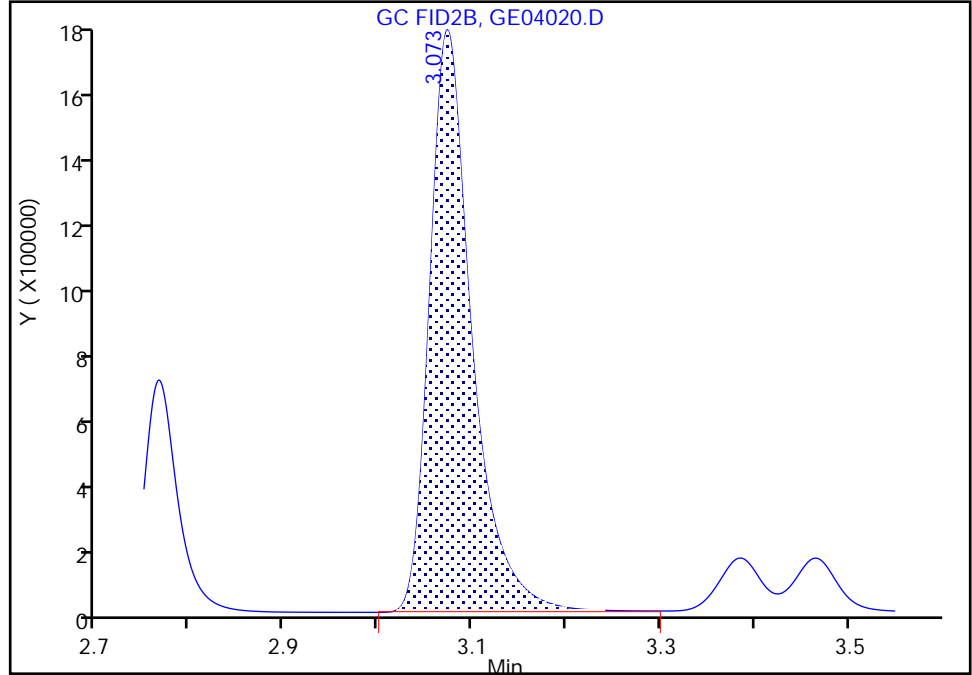
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

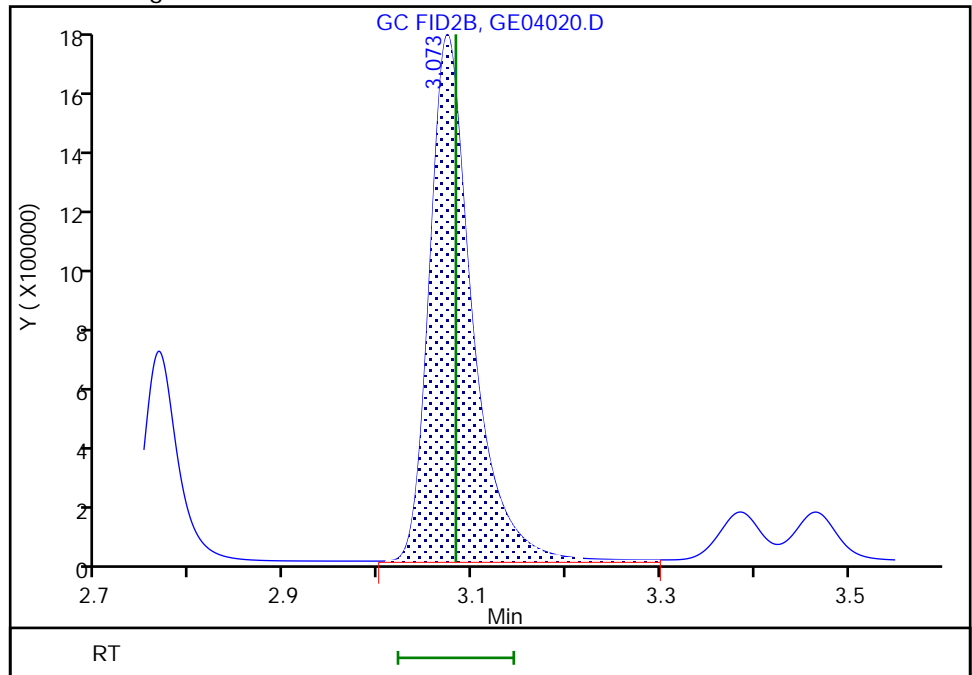
RT: 3.07
Area: 5414220
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 3.07
Area: 5457015
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



Eurofins Savannah

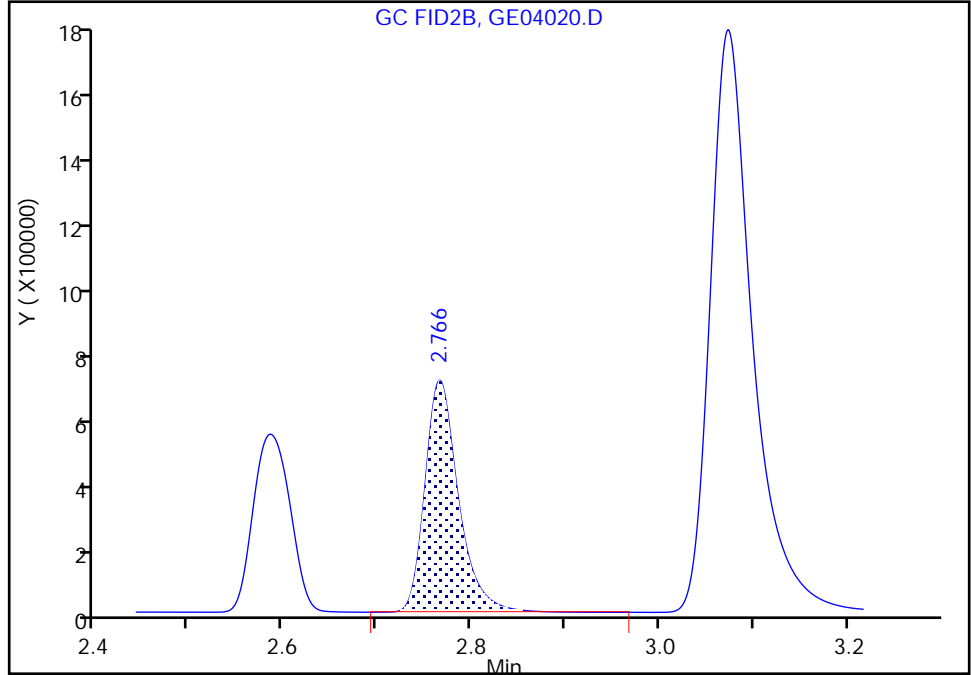
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

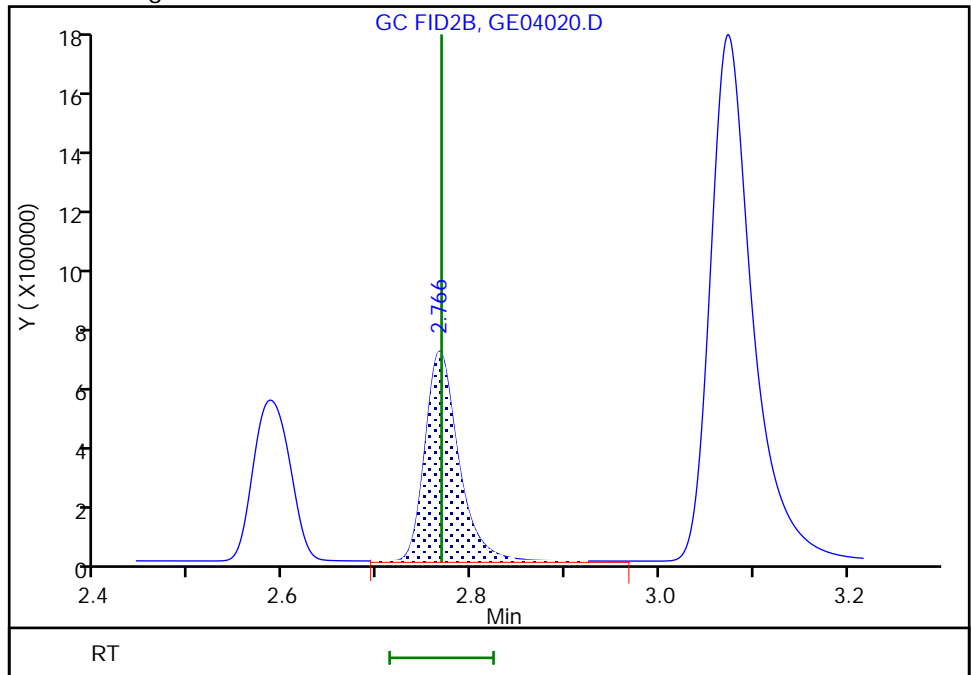
RT: 2.77
Area: 1706448
Amount: 24.632044
Amount Units: ug/ml

Processing Integration Results



RT: 2.77
Area: 1717668
Amount: 24.607830
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:46:34
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

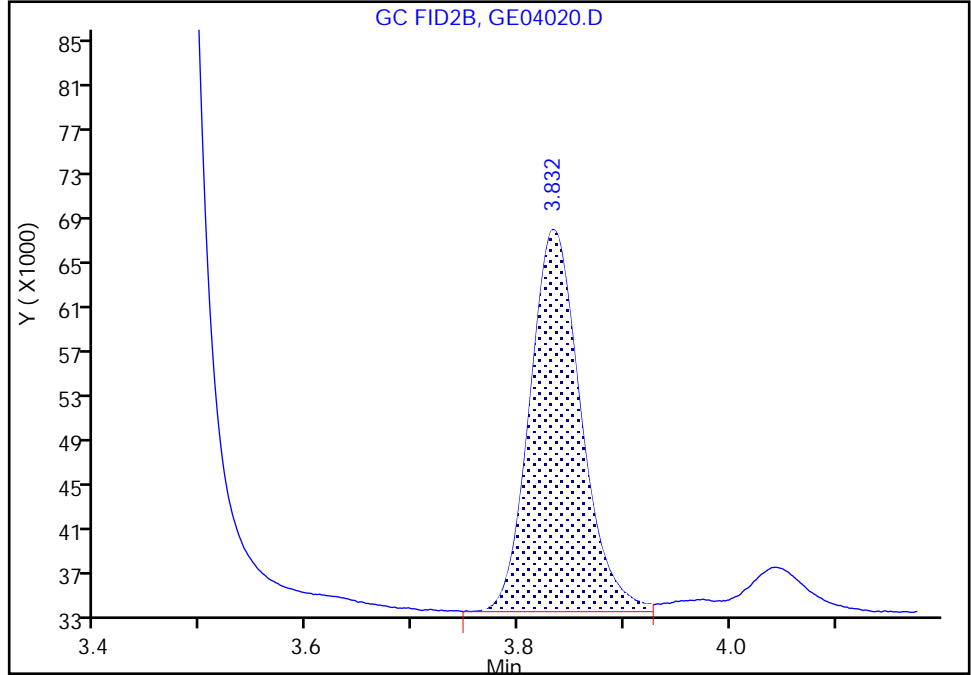
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

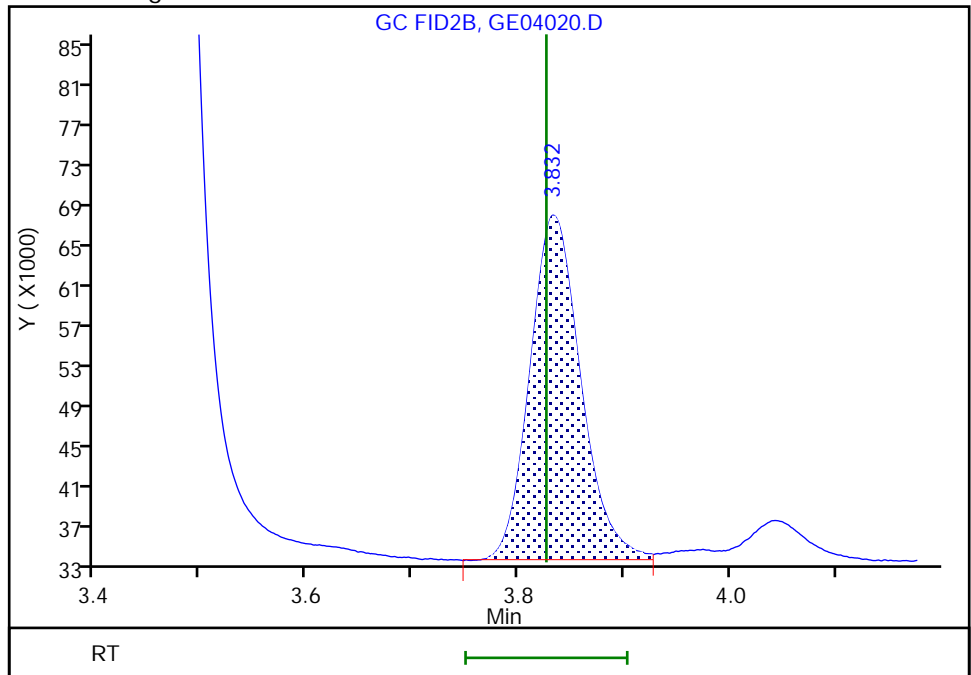
RT: 3.83
Area: 114935
Amount: 22.741848
Amount Units: ug/ml

Processing Integration Results



RT: 3.83
Area: 114627
Amount: 22.520725
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:46:34
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

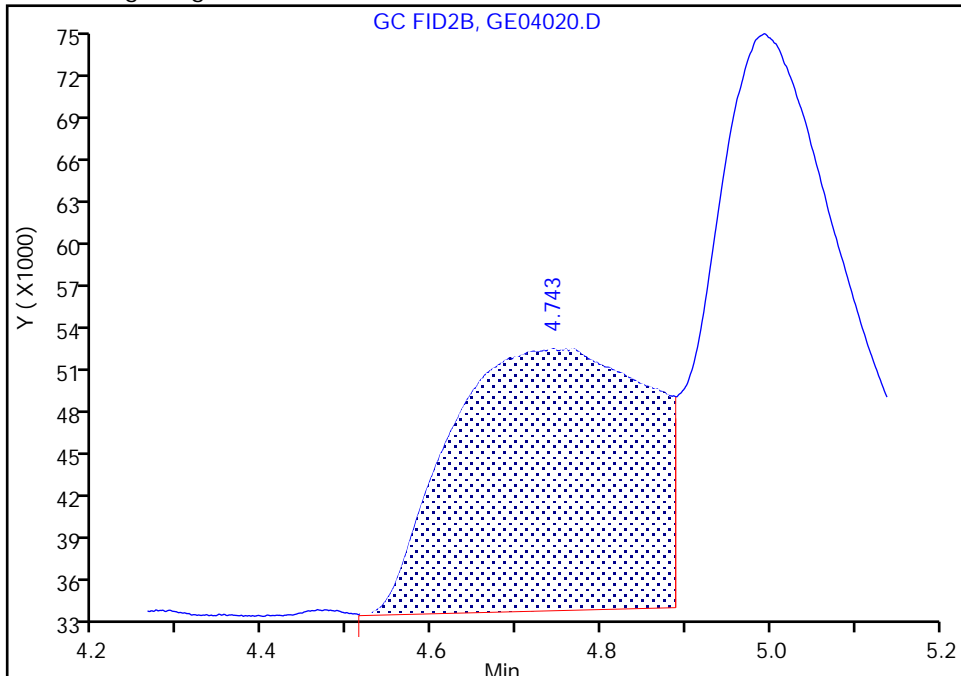
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Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

6 Propylene glycol, CAS: 57-55-6

Signal: 1

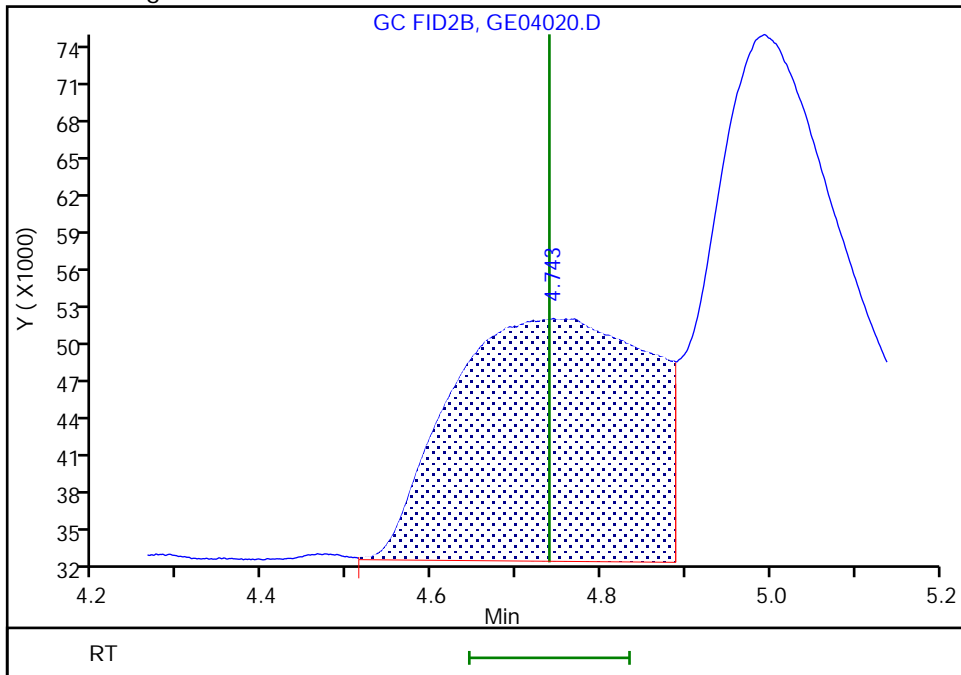
RT: 4.74
Area: 304589
Amount: 16.172609
Amount Units: ug/ml

Processing Integration Results



RT: 4.74
Area: 315153
Amount: 16.721589
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:46:40
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 108 of 142

Eurofins Savannah

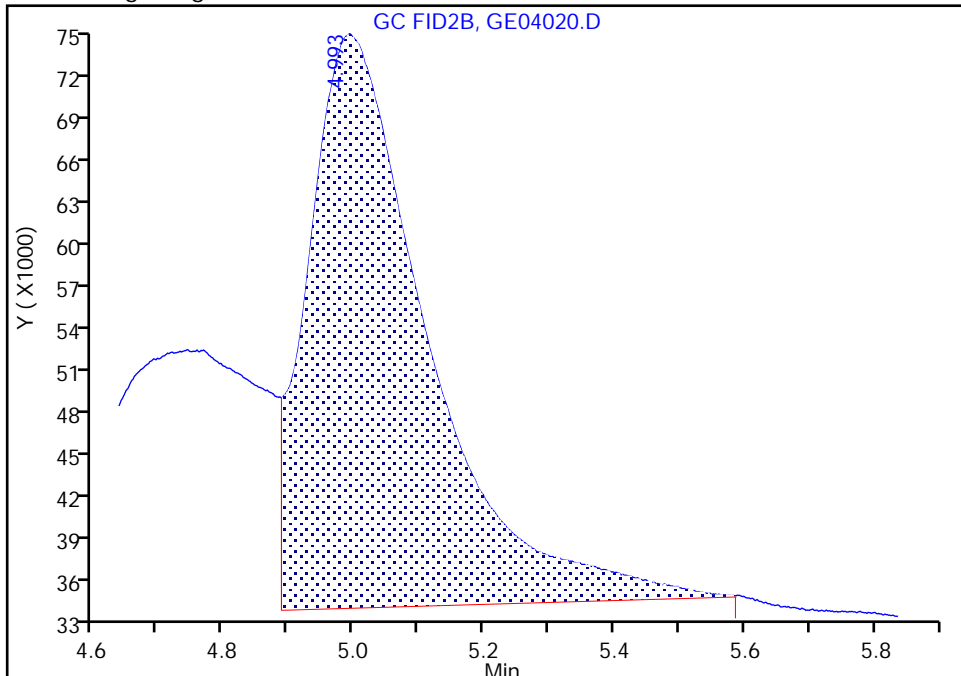
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

7 Ethylene glycol, CAS: 107-21-1

Signal: 1

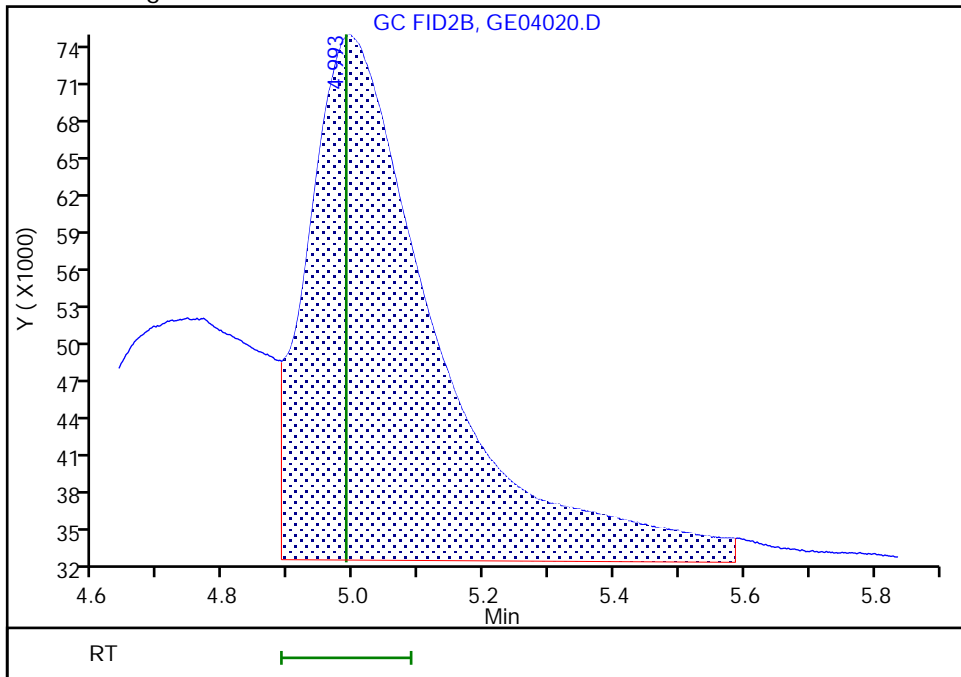
RT: 4.99
Area: 523019
Amount: 13.649482
Amount Units: ug/ml

Processing Integration Results



RT: 4.99
Area: 576295
Amount: 16.811902
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 11:46:40
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Eurofins Savannah

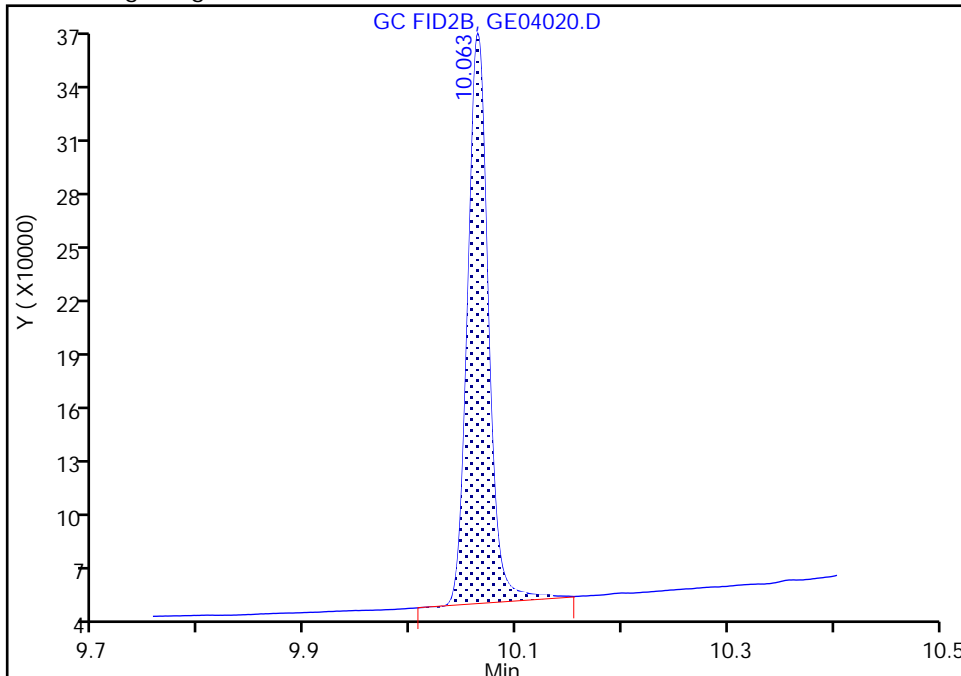
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04020.D
Injection Date: 04-May-2023 21:27:51 Instrument ID: CVGG2
Lims ID: icv glycol
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

10 Triethylene Glycol, CAS: 112-27-6

Signal: 1

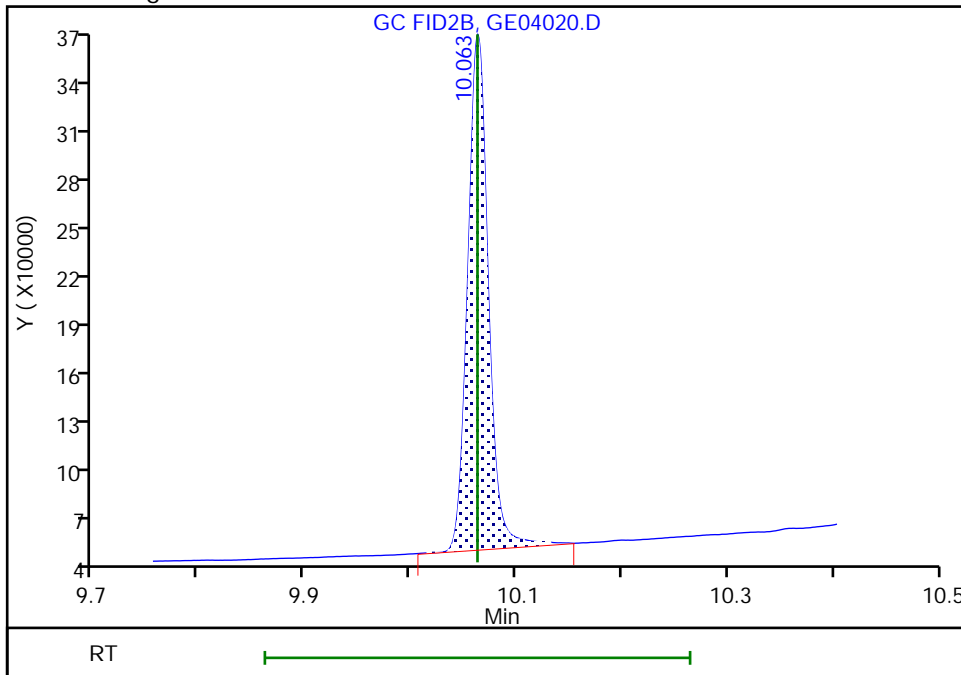
RT: 10.06
Area: 434002
Amount: 13.713314
Amount Units: ug/ml

Processing Integration Results



RT: 10.06
Area: 436311
Amount: 13.800754
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:12:51
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777037/27 Calibration Date: 05/05/2023 03:39
 Instrument ID: CVGG2 Calib Start Date: 05/04/2023 18:45
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/04/2023 21:04
 Lab File ID: GE04036.D Conc. Units: mg/L

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethanol, 2-propoxy | Lin2 | | 0.7278 | | 23.6 | 20.0 | 17.9 | 20.0 |
| 4-Hydroxy-4-methyl-2-pentano ne | Ave | 0.5535 | 0.6644 | | 24.0 | 20.0 | 20.0 | 20.0 |
| 2-Butoxyethanol | Lin2 | | 0.7522 | | 23.5 | 20.0 | 17.5 | 20.0 |
| Dipropylene Glycol Methyl Ether | Ave | 0.0466 | 0.0584 | | 25.0 | 20.0 | 25.1* | 20.0 |
| Propylene glycol | Qua | | 0.1808 | | 20.3 | 20.0 | 1.7 | 20.0 |
| Ethylene glycol | Qua | | 0.3247 | | 20.6 | 20.0 | 3.0 | 20.0 |
| 2-(2-Butoxyethoxy)ethanol | Ave | 0.4956 | 0.5951 | | 24.0 | 20.0 | 20.1* | 20.0 |
| 2,2'-Oxybisethanol | Qua | | 0.1685 | | 14.4 | 20.0 | -27.9* | 20.0 |
| Triethylene Glycol | Qua | | 0.1639 | | 10.8 | 20.0 | -45.8* | 20.0 |
| Tetraethylene Glycol | Ave | 0.2481 | 0.0334 | | 5.39 | 40.0 | -86.5* | 20.0 |

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Lab Sample ID: CCV 680-777037/27 Calibration Date: 05/05/2023 03:39
 Instrument ID: CVGG2 Calib Start Date: 05/04/2023 18:45
 GC Column: J&W DB WAX ID: 0.45 (mm) Calib End Date: 05/04/2023 21:04
 Lab File ID: GE04036.D

| Analyte | RT | RT WINDOW | |
|---------------------------------|-------|-----------|-------|
| | | FROM | TO |
| Ethanol, 2-propoxy | 2.23 | 2.19 | 2.28 |
| 4-Hydroxy-4-methyl-2-pentanone | 2.59 | 2.54 | 2.64 |
| 2-Butoxyethanol | 2.77 | 2.71 | 2.83 |
| Dipropylene Glycol Methyl Ether | 3.84 | 3.76 | 3.91 |
| Propylene glycol | 4.77 | 4.67 | 4.86 |
| Ethylene glycol | 5.00 | 4.90 | 5.10 |
| 2-(2-Butoxyethoxy)ethanol | 6.67 | 6.54 | 6.80 |
| 2,2'-Oxybisethanol | 8.81 | 8.63 | 8.98 |
| Triethylene Glycol | 10.07 | 9.86 | 10.27 |
| Tetraethylene Glycol | 10.90 | 10.69 | 11.12 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04036.D
 Lims ID: ccv g4
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-May-2023 03:39:38 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-027
 Operator ID: Instrument ID: CVGG2
 Sublist: chrom-8015_GLY_VGG*sub2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:27:54 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

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

| | | | | | | |
|-----------------------------------|--------|--------|-------|---------|------|------|
| 1 Ethanol, 2-propoxy | 2.231 | 2.231 | 0.000 | 1599945 | 20.0 | 23.6 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 2.590 | 2.590 | 0.000 | 1460624 | 20.0 | 24.0 |
| 3 2-Butoxyethanol | 2.770 | 2.770 | 0.000 | 1653639 | 20.0 | 23.5 |
| * 4 n-Heptyl Alcohol | 3.074 | 3.074 | 0.000 | 5496144 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 3.836 | 3.836 | 0.000 | 128284 | 20.0 | 25.0 |
| 6 Propylene glycol | 4.769 | 4.769 | 0.000 | 397383 | 20.0 | 20.3 |
| 7 Ethylene glycol | 5.004 | 5.004 | 0.000 | 713856 | 20.0 | 20.6 |
| 8 2-(2-Butoxyethoxy)ethanol | 6.670 | 6.670 | 0.000 | 1308407 | 20.0 | 24.0 |
| 9 2,2'-Oxybisethanol | 8.807 | 8.807 | 0.000 | 370353 | 20.0 | 14.4 |
| 10 Triethylene Glycol | 10.065 | 10.065 | 0.000 | 360426 | 20.0 | 10.8 |
| 11 Tetraethylene Glycol | 10.903 | 10.903 | 0.000 | 146898 | 40.0 | 5.39 |

Reagents:

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

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04036.D

Injection Date: 05-May-2023 03:39:38

Instrument ID: CVGG2

Operator ID:

Lims ID: ccv g4

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

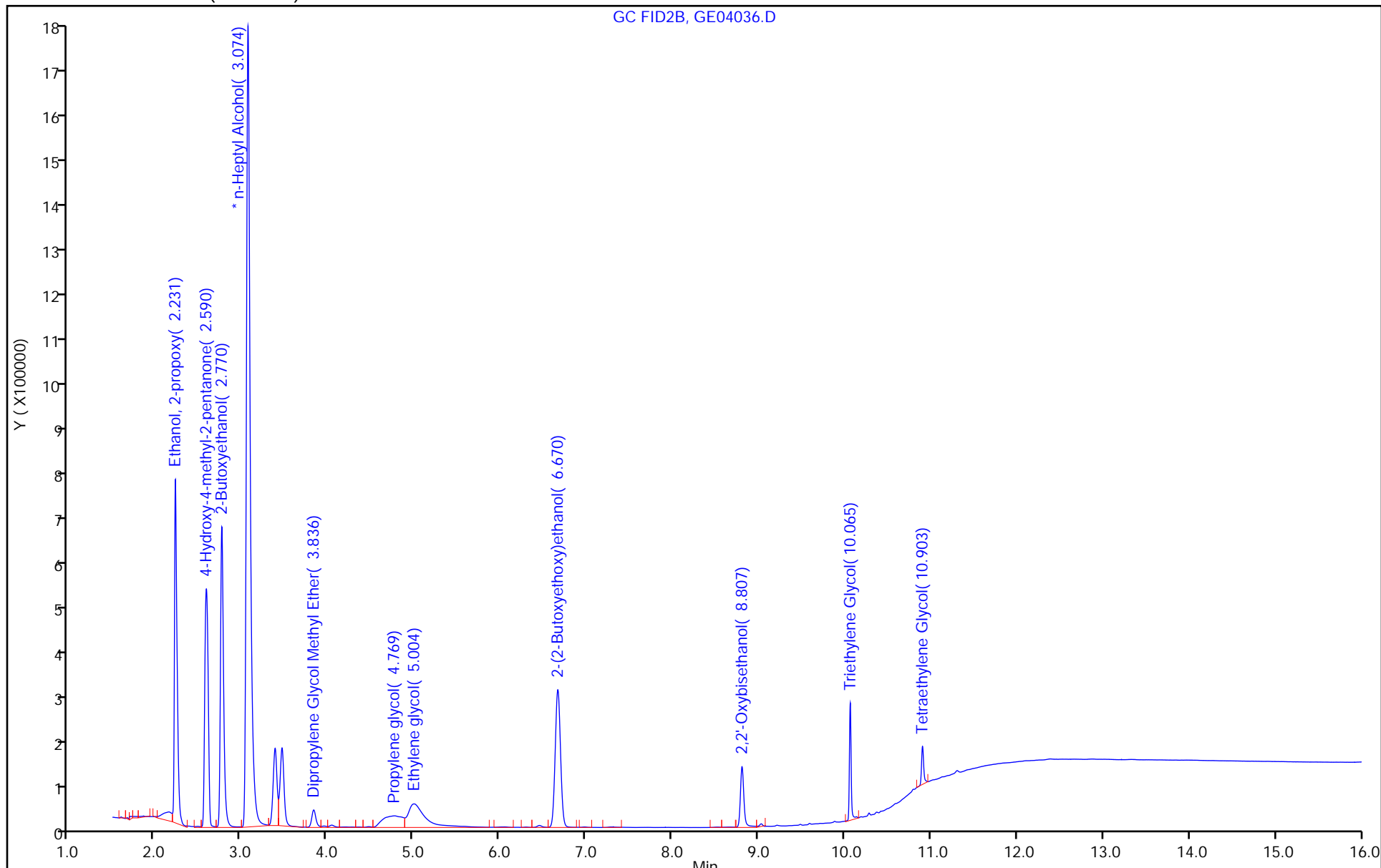
Dil. Factor: 1.0000

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.: 580-126724-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 680-777037/16
 Matrix: Water Lab File ID: GE04025.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/04/2023 23:24
 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.: 777037 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\20230504-85751.b\GE04025.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 04-May-2023 23:24:04 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-016
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:26:49 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:08:43

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

| | | | | | | |
|-------------------------|--------|--------|---------|------|---------|---|
| 3 2-Butoxyethanol | | | | | | 7 |
| 2.767 | 2.768 | -0.001 | 10214 | | -0.5031 | 7 |
| LOD = 0.5000 | | | | | | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.079 | 3.082 | -0.003 | 6356297 | 50.0 | 50.0 | |
| 9 2,2'-Oxybisethanol | | | | | | 7 |
| 8.807 | 8.808 | -0.001 | 17432 | | 0.5683 | 7 |
| LOD = 1.60 | | | | | | |
| 10 Triethylene Glycol | | | | | | 7 |
| 10.063 | 10.063 | 0.000 | 38340 | | -1.58 | 7 |
| LOD = 1.40 | | | | | | |
| 11 Tetraethylene Glycol | | | | | | 7 |
| 10.902 | 10.901 | 0.001 | 19185 | | 0.6083 | 7 |
| LOD = 4.50 | | | | | | |

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04025.D

Injection Date: 04-May-2023 23:24:04

Instrument ID: CVGG2

Operator ID:

Lims ID: mb

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

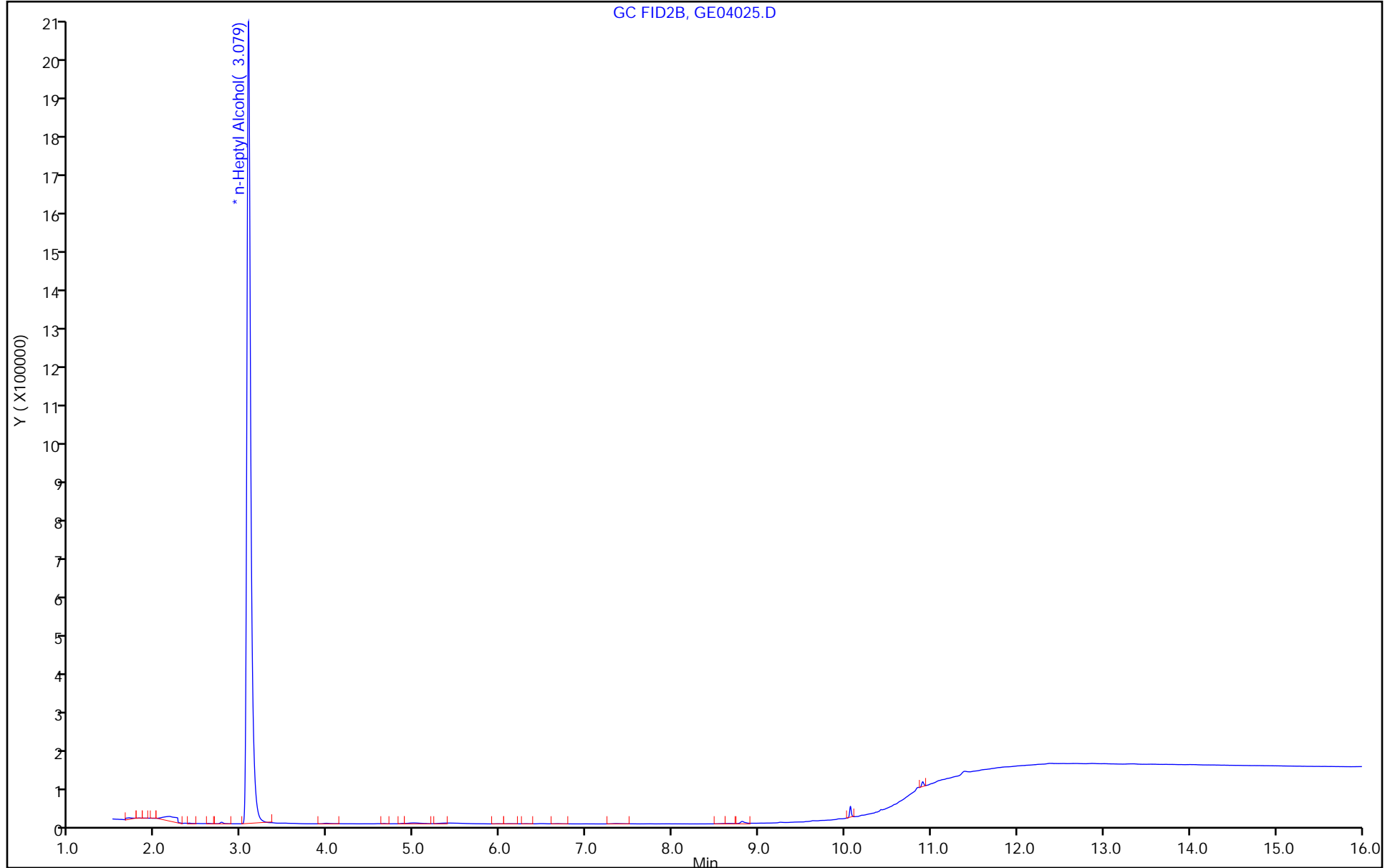
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 680-777037/12
 Matrix: Water Lab File ID: GE04021.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/04/2023 21:51
 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.: 777037 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 23.3 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04021.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-May-2023 21:51:04 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-012
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:26:49 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U Date: 05-May-2023 12:07:51

| RT (min.) | Exp RT (min.) | Diff RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|---------------|----------------|----------|---------------|-----------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.224 | 2.225 | -0.001 | 1695819 | 20.0 | 24.4 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.580 | 2.579 | 0.001 | 1429174 | 20.0 | 22.9 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.765 | 2.768 | -0.003 | 1746081 | 20.0 | 24.2 | M |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.077 | 3.082 | -0.005 | 5634454 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.828 | 3.826 | 0.002 | 124679 | 20.0 | 23.7 | |
| 6 Propylene glycol | | | | | | |
| 4.742 | 4.739 | 0.003 | 499596 | 20.0 | 24.4 | |
| 7 Ethylene glycol | | | | | | |
| 4.990 | 4.988 | 0.002 | 992607 | 20.0 | 27.5 | |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.670 | 6.670 | 0.000 | 1298811 | 20.0 | 23.3 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.806 | 8.808 | -0.002 | 679115 | 20.0 | 25.4 | |
| 10 Triethylene Glycol | | | | | | |
| 10.063 | 10.063 | 0.000 | 710476 | 20.0 | 23.3 | |
| 11 Tetraethylene Glycol | | | | | | |
| 10.901 | 10.901 | 0.000 | 1401606 | 40.0 | 50.1 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04021.D

Injection Date: 04-May-2023 21:51:04

Instrument ID: CVGG2

Operator ID:

Lims ID: lcs

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

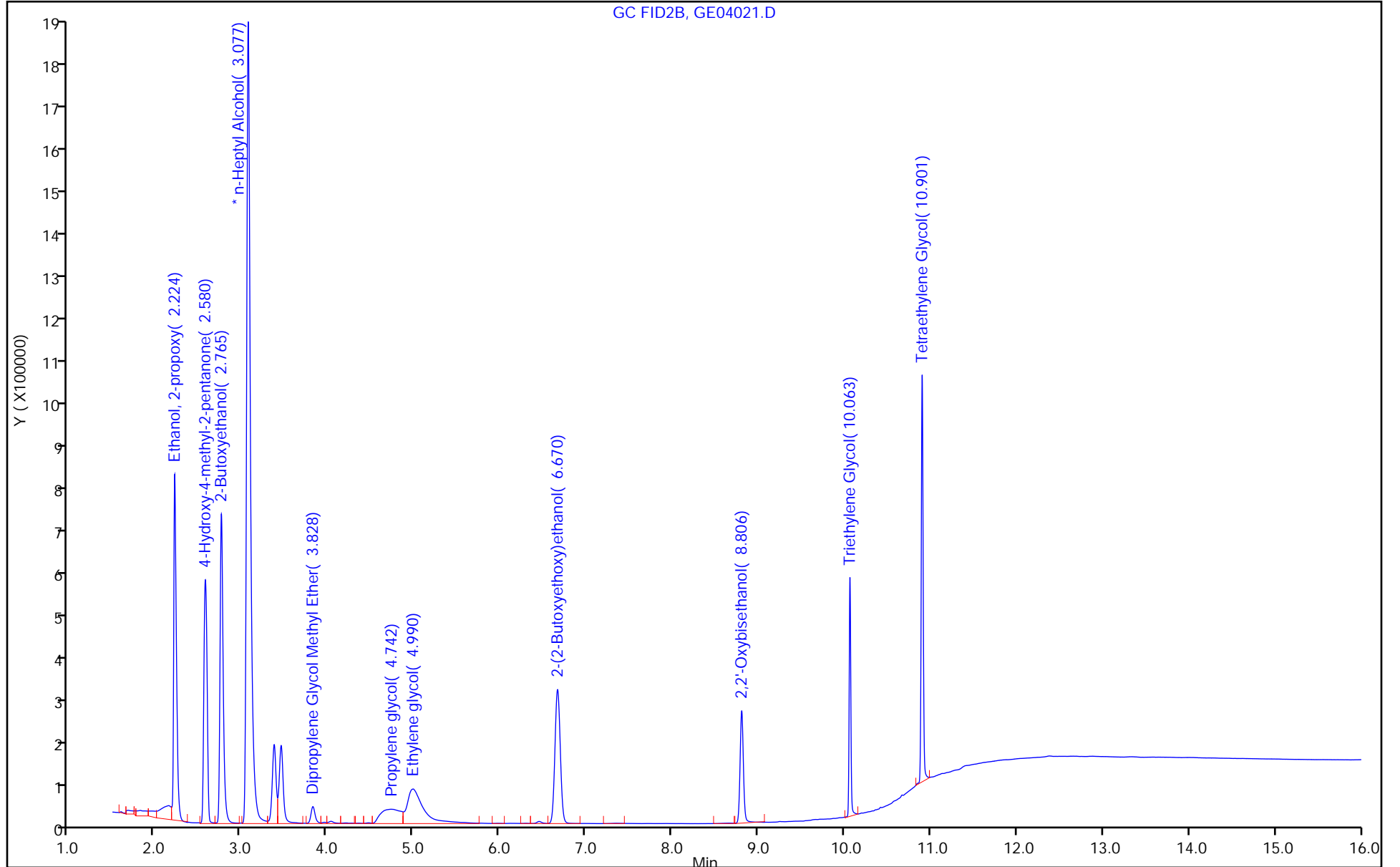
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



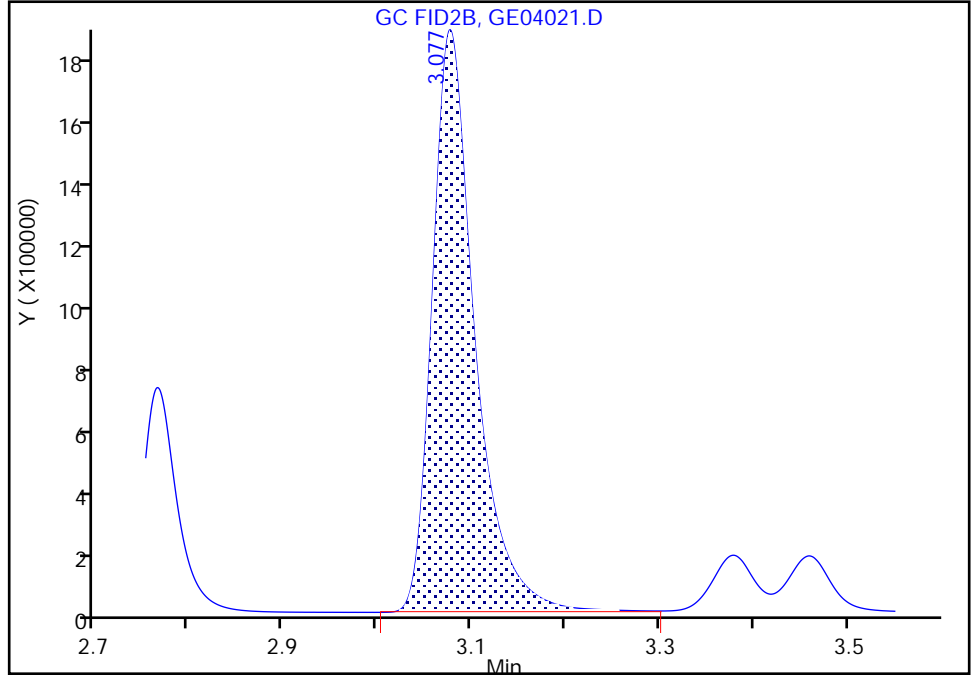
Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04021.D
Injection Date: 04-May-2023 21:51:04 Instrument ID: CVGG2
Lims ID: lcs
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

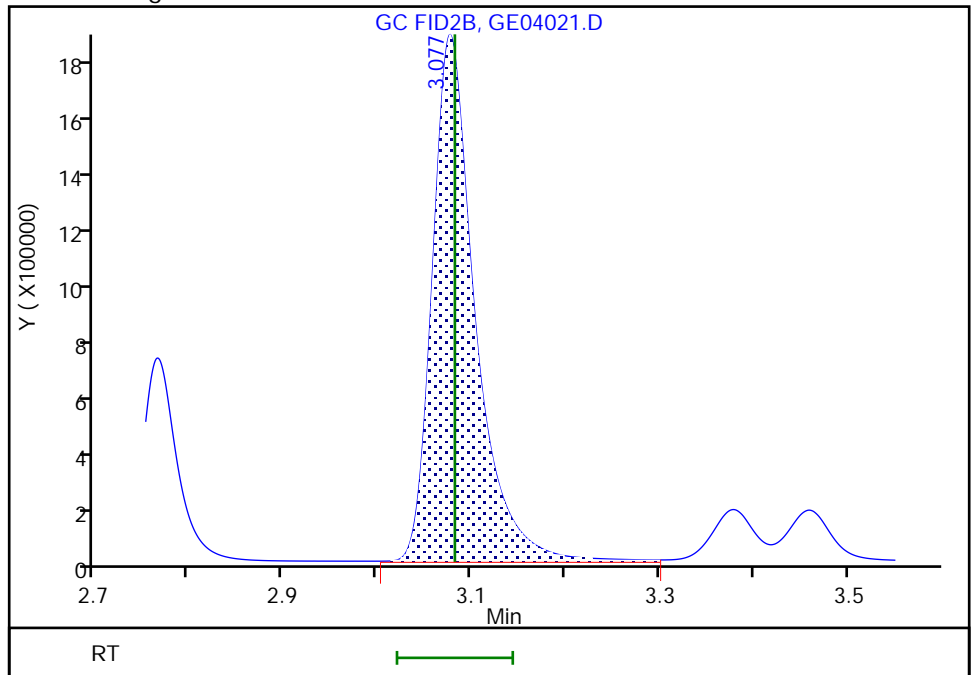
RT: 3.08
Area: 5593570
Amount: 50.000000
Amount Units: ug/ml

Processing Integration Results



RT: 3.08
Area: 5634454
Amount: 50.000000
Amount Units: ug/ml

Manual Integration Results



Reviewer: SK9U, 05-May-2023 12:07:43
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Savannah Job No.: 580-126724-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 680-777037/13
 Matrix: Water Lab File ID: GE04022.D
 Analysis Method: 8015C GLY Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/04/2023 22:14
 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.: 777037 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 21.8 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04022.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-May-2023 22:14:21 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-013
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:26:49 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

First Level Reviewer: SK9U

Date: 05-May-2023 12:08:09

| RT (min.) | Exp RT (min.) | Dlt RT (min.) | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-----------------------------------|------------------|------------------|----------|------------------|--------------------|-------|
| 1 Ethanol, 2-propoxy | | | | | | |
| 2.225 | 2.225 | 0.000 | 1581706 | 20.0 | 22.9 | |
| 2 4-Hydroxy-4-methyl-2-pentanone | | | | | | |
| 2.581 | 2.579 | 0.002 | 1343319 | 20.0 | 21.8 | |
| 3 2-Butoxyethanol | | | | | | |
| 2.767 | 2.768 | -0.001 | 1612202 | 20.0 | 22.6 | |
| * 4 n-Heptyl Alcohol | | | | | | |
| 3.077 | 3.082 | -0.005 | 5575091 | 50.0 | 50.0 | M |
| 5 Dipropylene Glycol Methyl Ether | | | | | | |
| 3.829 | 3.826 | 0.003 | 114508 | 20.0 | 22.0 | M |
| 6 Propylene glycol | | | | | | |
| 4.720 | 4.739 | -0.019 | 474842 | 20.0 | 23.5 | M |
| 7 Ethylene glycol | | | | | | |
| 4.986 | 4.988 | -0.002 | 910464 | 20.0 | 25.7 | M |
| 8 2-(2-Butoxyethoxy)ethanol | | | | | | |
| 6.668 | 6.670 | -0.002 | 1205516 | 20.0 | 21.8 | |
| 9 2,2'-Oxybisethanol | | | | | | |
| 8.807 | 8.808 | -0.001 | 604270 | 20.0 | 22.9 | |
| 10 Triethylene Glycol | | | | | | |
| 10.062 | 10.063 | -0.001 | 633671 | 20.0 | 20.7 | |
| 11 Tetraethylene Glycol | | | | | | |
| 10.902 | 10.901 | 0.001 | 1247028 | 40.0 | 45.1 | |

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SG_Gly_CAL_00049

Amount Added: 10.00

Units: uL

SG_GLY_ISTD_00116

Amount Added: 10.00

Units: uL

Run Reagent

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04022.D

Injection Date: 04-May-2023 22:14:21

Instrument ID: CVGG2

Operator ID:

Lims ID: lcsd

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

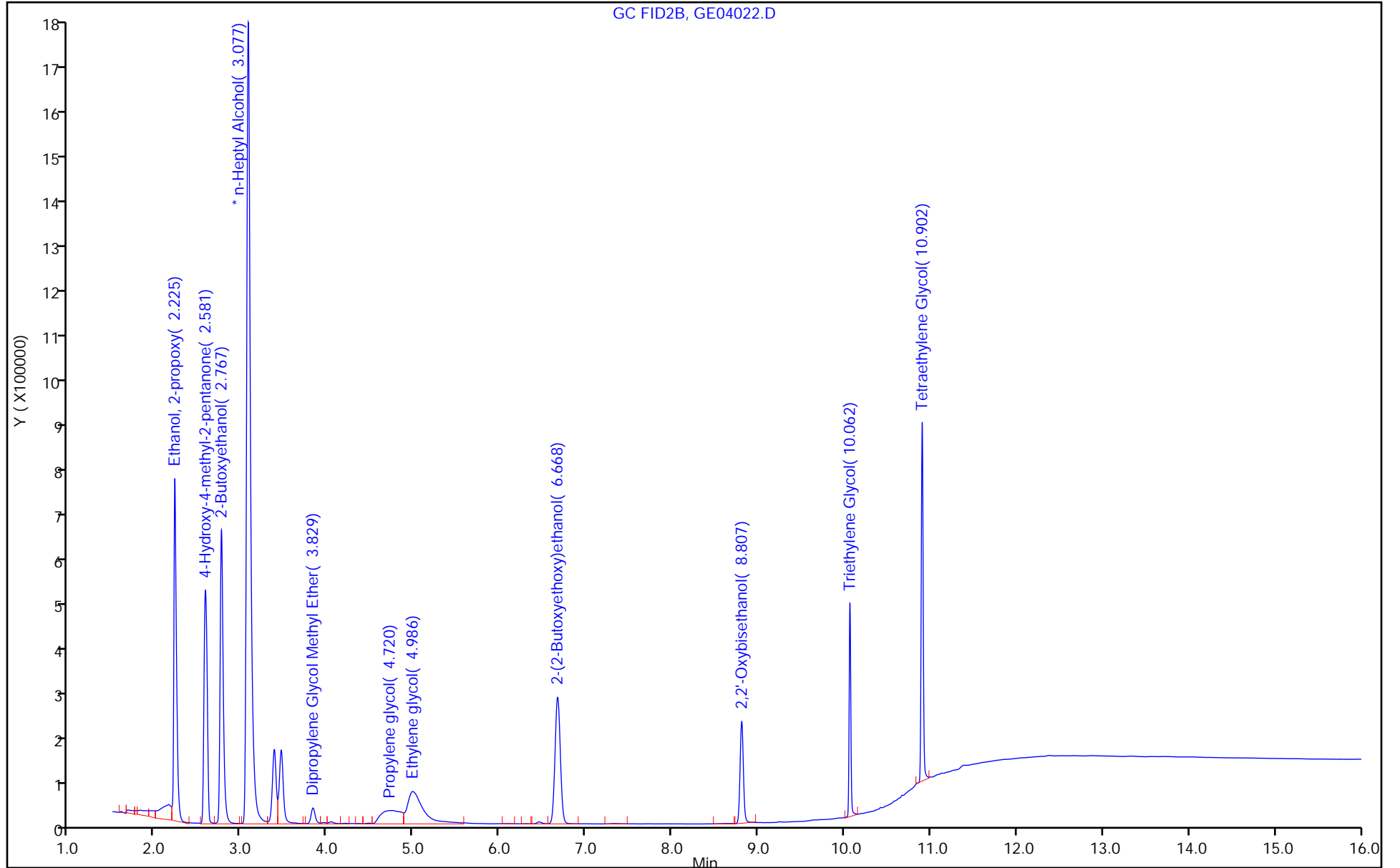
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8015_GLY_VGG

Limit Group: 8015C_DAI

Column: J&W DB WAX (0.45 mm)



Eurofins Savannah

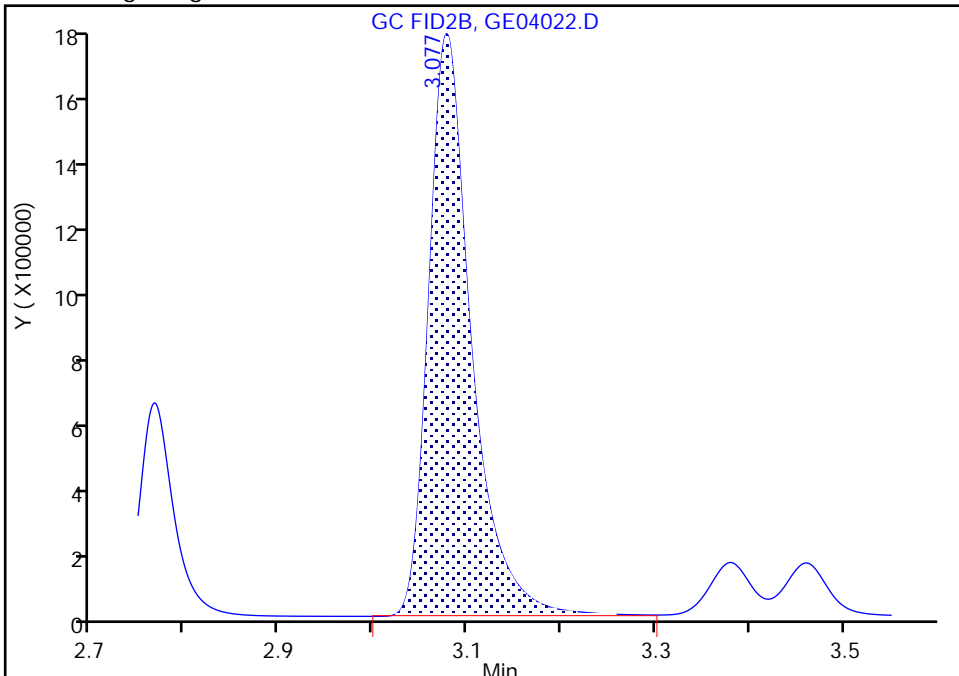
Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04022.D
Injection Date: 04-May-2023 22:14:21 Instrument ID: CVGG2
Lims ID: lcsd
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8015_GLY_VGG Limit Group: 8015C_DAI
Column: J&W DB WAX (0.45 mm) Detector: GC FID2B

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

Signal: 1

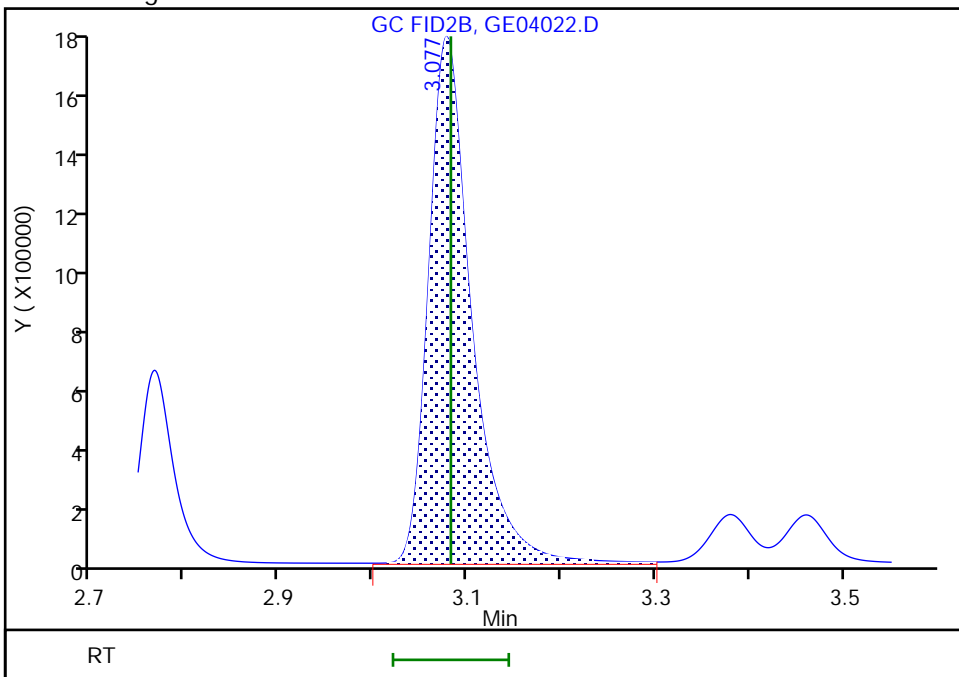
Processing Integration Results

RT: 3.08
Area: 5538247
Amount: 50.000000
Amount Units: ug/ml



Manual Integration Results

RT: 3.08
Area: 5575091
Amount: 50.000000
Amount Units: ug/ml



Reviewer: SK9U, 05-May-2023 12:08:02
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 127 of 142

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04031.D
 Lims ID: 580-126724-C-2 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 05-May-2023 01:43:22 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-022
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:22:55 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|------|------|
| 1 Ethanol, 2-propoxy | 2.229 | 2.225 | 0.004 | 1665621 | 20.0 | 23.5 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 2.586 | 2.579 | 0.007 | 1455068 | 20.0 | 22.9 |
| 3 2-Butoxyethanol | 2.770 | 2.768 | 0.002 | 1796537 | 20.0 | 24.5 |
| * 4 n-Heptyl Alcohol | 3.079 | 3.082 | -0.003 | 5740358 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 3.834 | 3.826 | 0.008 | 117569 | 20.0 | 22.0 |
| 6 Propylene glycol | 4.789 | 4.739 | 0.050 | 358345 | 20.0 | 17.9 |
| 7 Ethylene glycol | 4.999 | 4.988 | 0.011 | 686993 | 20.0 | 19.0 |
| 8 2-(2-Butoxyethoxy)ethanol | 6.671 | 6.670 | 0.001 | 1235274 | 20.0 | 21.7 |
| 9 2,2'-Oxybisethanol | 8.810 | 8.808 | 0.002 | 407855 | 20.0 | 15.2 |
| 10 Triethylene Glycol | 10.064 | 10.063 | 0.001 | 252782 | 20.0 | 6.36 |
| 11 Tetraethylene Glycol | 10.903 | 10.901 | 0.002 | 176651 | 40.0 | 6.20 |

Reagents:

SG_GlylCV_00057 Amount Added: 10.00 Units: uL
 SG_GLY_ISTD_00116 Amount Added: 10.00 Units: uL Run Reagent

Euofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04031.D

Injection Date: 05-May-2023 01:43:22

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126724-C-2 MS

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

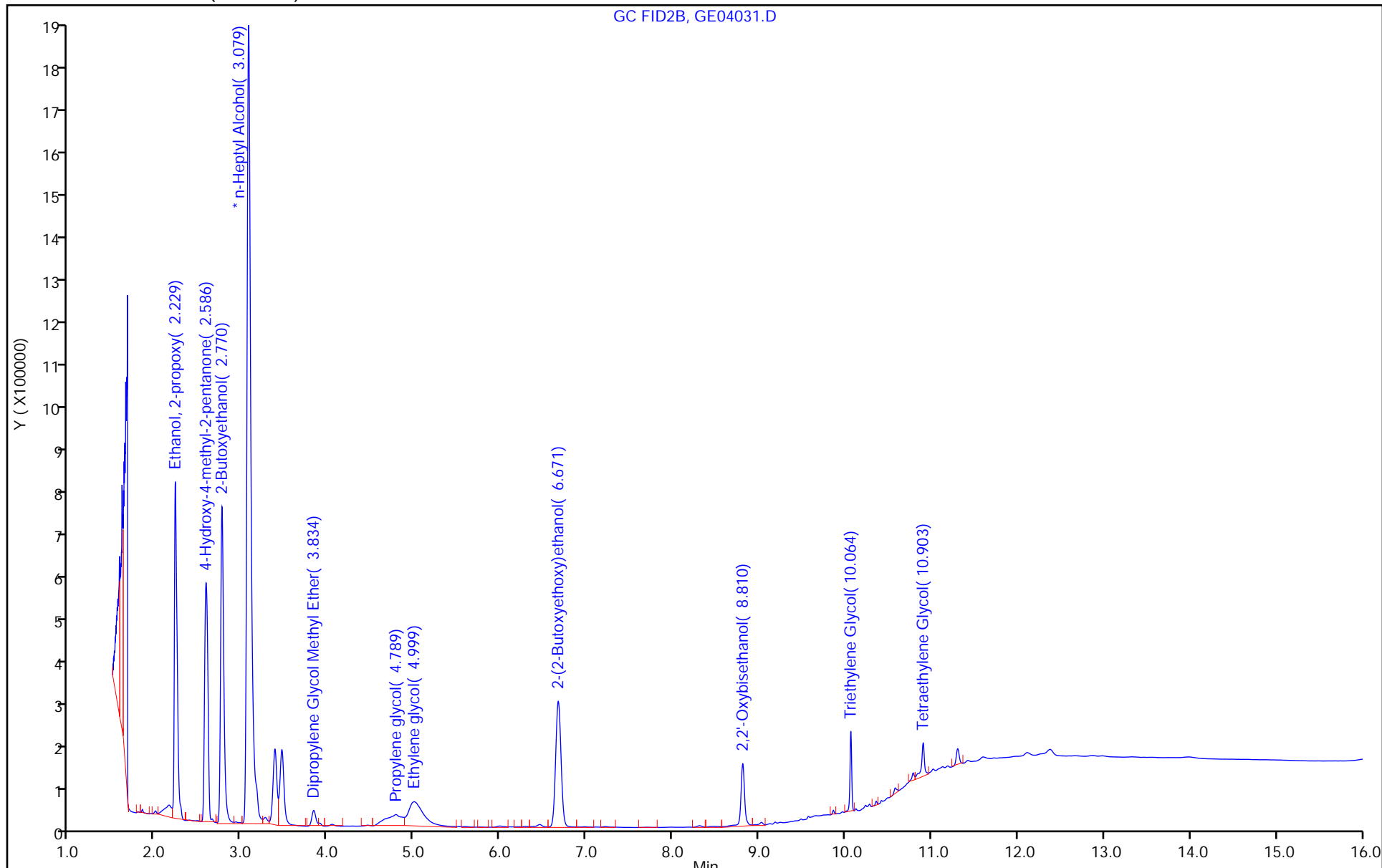
Dil. Factor: 1.0000

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.: 580-126724-1
SDG No.: _____
Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Lab Sample ID: 580-126724-2 MSD
MSD
Matrix: Water Lab File ID: GE04032.D
Analysis Method: 8015C GLY Date Collected: 04/27/2023 09:55
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 1(mL) Date Analyzed: 05/05/2023 02:06
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: J&W DB WAX ID: 0.45(mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____
Analysis Batch No.: 777037 Units: mg/L

| CAS NO. | COMPOUND NAME | RESULT | Q | LOQ | LOD | DL |
|----------|---------------------------|--------|---|-----|-----|-----|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 25.4 | | 5.0 | 3.0 | 1.1 |

Eurofins Savannah
Target Compound Quantitation Report

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04032.D
 Lims ID: 580-126724-C-2 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 05-May-2023 02:06:48 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 680-0085751-023
 Operator ID: Instrument ID: CVGG2
 Method: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\8015_GLY_VGG.m
 Limit Group: 8015C_DAI
 Last Update: 05-May-2023 12:22:55 Calib Date: 04-May-2023 21:04:38
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04019.D
 Column 1 : J&W DB WAX (0.45 mm) Det: GC FID2B
 Process Host: CTX1676

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

| | | | | | | |
|-----------------------------------|--------|--------|--------|---------|------|------|
| 1 Ethanol, 2-propoxy | 2.230 | 2.225 | 0.005 | 1630951 | 20.0 | 25.8 |
| 2 4-Hydroxy-4-methyl-2-pentanone | 2.589 | 2.579 | 0.010 | 1475471 | 20.0 | 25.9 |
| 3 2-Butoxyethanol | 2.770 | 2.768 | 0.002 | 1705670 | 20.0 | 26.0 |
| * 4 n-Heptyl Alcohol | 3.074 | 3.082 | -0.008 | 5141179 | 50.0 | 50.0 |
| 5 Dipropylene Glycol Methyl Ether | 3.837 | 3.826 | 0.011 | 124020 | 20.0 | 25.9 |
| 6 Propylene glycol | 4.789 | 4.739 | 0.050 | 398512 | 20.0 | 21.6 |
| 7 Ethylene glycol | 5.002 | 4.988 | 0.014 | 762522 | 20.0 | 23.4 |
| 8 2-(2-Butoxyethoxy)ethanol | 6.672 | 6.670 | 0.002 | 1294094 | 20.0 | 25.4 |
| 9 2,2'-Oxybisethanol | 8.811 | 8.808 | 0.003 | 476088 | 20.0 | 19.7 |
| 10 Triethylene Glycol | 10.064 | 10.063 | 0.001 | 287037 | 20.0 | 8.81 |
| 11 Tetraethylene Glycol | 10.902 | 10.901 | 0.001 | 226800 | 40.0 | 8.89 |

Reagents:

| | | |
|-------------------|---------------------|-----------------------|
| SG_GlylCV_00057 | Amount Added: 10.00 | Units: uL |
| SG_GLY_ISTD_00116 | Amount Added: 10.00 | Units: uL Run Reagent |

Eurofins Savannah

Data File: \\chromfs\Savannah\ChromData\CVGG2\20230504-85751.b\GE04032.D

Injection Date: 05-May-2023 02:06:48

Instrument ID: CVGG2

Operator ID:

Lims ID: 580-126724-C-2 MSD

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

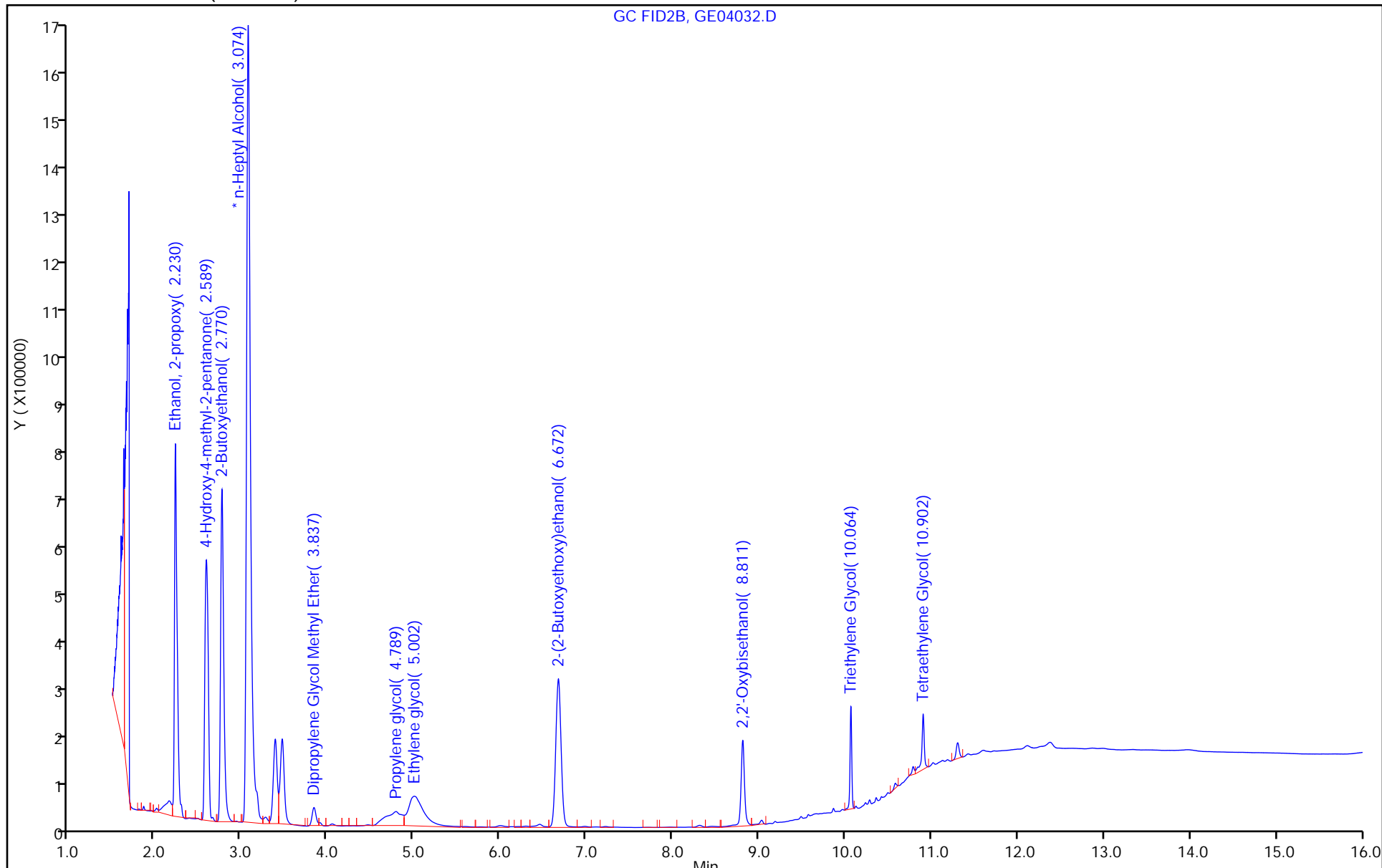
Dil. Factor: 1.0000

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.: 580-126724-1

SDG No.: _____

Instrument ID: CVGG2 Start Date: 05/04/2023 18:45

Analysis Batch Number: 777037 End Date: 05/05/2023 03:39

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------------|----------------------------------|------------------|-----------------|-------------|----------------------|
| IC 680-777037/4 | | 05/04/2023 18:45 | 1 | GE04013.D | J&W DB WAX 0.45 (mm) |
| IC 680-777037/5 | | 05/04/2023 19:08 | 1 | GE04014.D | J&W DB WAX 0.45 (mm) |
| IC 680-777037/6 | | 05/04/2023 19:31 | 1 | GE04015.D | J&W DB WAX 0.45 (mm) |
| ICIS 680-777037/7 | | 05/04/2023 19:54 | 1 | GE04016.D | J&W DB WAX 0.45 (mm) |
| IC 680-777037/8 | | 05/04/2023 20:18 | 1 | GE04017.D | J&W DB WAX 0.45 (mm) |
| IC 680-777037/9 | | 05/04/2023 20:41 | 1 | GE04018.D | J&W DB WAX 0.45 (mm) |
| IC 680-777037/10 | | 05/04/2023 21:04 | 1 | GE04019.D | J&W DB WAX 0.45 (mm) |
| ICV 680-777037/11 CCV | | 05/04/2023 21:27 | 1 | GE04020.D | J&W DB WAX 0.45 (mm) |
| LCS 680-777037/12 | | 05/04/2023 21:51 | 1 | GE04021.D | J&W DB WAX 0.45 (mm) |
| LCSD 680-777037/13 | | 05/04/2023 22:14 | 1 | GE04022.D | J&W DB WAX 0.45 (mm) |
| MB 680-777037/16 | | 05/04/2023 23:24 | 1 | GE04025.D | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 05/04/2023 23:47 | 10000 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 05/05/2023 00:10 | 10 | | J&W DB WAX 0.45 (mm) |
| ZZZZZ | | 05/05/2023 00:33 | 10 | | J&W DB WAX 0.45 (mm) |
| 580-126724-1 | AF-RHMW03-WGN01LF-230 4W4 | 05/05/2023 00:56 | 1 | GE04029.D | J&W DB WAX 0.45 (mm) |
| 580-126724-2 | AF-RHMW02-WGN01LF-230 4W4 | 05/05/2023 01:20 | 1 | GE04030.D | J&W DB WAX 0.45 (mm) |
| 580-126724-2 MS | AF-RHMW02-WGN01LF-230 4W4 MS | 05/05/2023 01:43 | 1 | GE04031.D | J&W DB WAX 0.45 (mm) |
| 580-126724-2 MSD | AF-RHMW02-WGN01LF-230 4W4 MSD | 05/05/2023 02:06 | 1 | GE04032.D | J&W DB WAX 0.45 (mm) |
| CCV 680-777037/27 | | 05/05/2023 03:39 | 1 | GE04036.D | J&W DB WAX 0.45 (mm) |

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Savannah Job No.: 580-126724-1

SDG No.: _____

Batch Number: 777037 Batch Start Date: 05/04/23 18:45 Batch Analyst: Meincke, Griffin E

Batch Method: 8015C GLY Batch End Date: _____

| Lab Sample ID | Client Sample ID | Method Chain | Basis | FinalAmount | SG_Gly_CAL 00049 | SG_GLY_ISTD 00116 | SG_GlyICV 00057 | | |
|-----------------------------|------------------------------|--------------|-------|-------------|---------------------|----------------------|-----------------|--|--|
| IC 680-777037/4 | | 8015C GLY | | 1 mL | 50 uL | 10 uL | | | |
| IC 680-777037/5 | | 8015C GLY | | 1 mL | 40 uL | 10 uL | | | |
| IC 680-777037/6 | | 8015C GLY | | 1 mL | 25 uL | 10 uL | | | |
| ICIS 680-777037/7 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| IC 680-777037/8 | | 8015C GLY | | 1 mL | 5 uL | 10 uL | | | |
| IC 680-777037/9 | | 8015C GLY | | 1 mL | 2.5 uL | 10 uL | | | |
| IC 680-777037/10 | | 8015C GLY | | 1 mL | 1 uL | 10 uL | | | |
| ICV 680-777037/11 CCV | | 8015C GLY | | 1 mL | | 10 uL | 10 uL | | |
| LCS 680-777037/12 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| LCSD 680-777037/13 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |
| MB 680-777037/16 | | 8015C GLY | | 1 mL | | 10 uL | | | |
| 580-126724-A-1 | AF-RHMW03-WGN01L F-2304W4 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| 580-126724-C-2 | AF-RHMW02-WGN01L F-2304W4 | 8015C GLY | T | 1 mL | | 10 uL | | | |
| 580-126724-C-2 MS | AF-RHMW02-WGN01L F-2304W4 | 8015C GLY | T | 1 mL | | 10 uL | 10 uL | | |
| 580-126724-C-2 MSD | AF-RHMW02-WGN01L F-2304W4 | 8015C GLY | T | 1 mL | | 10 uL | 10 uL | | |
| CCV 680-777037/27 | | 8015C GLY | | 1 mL | 10 uL | 10 uL | | | |

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

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

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

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|---|--|--|--|------------------------------------|--|--|----------|-----------------------------------|----------------------------|------------------------------|--|--|--|------------------------------|--|--|---|----------------------------|--|-----------------------------------|--|----------------------------|----------------------------|---|-------|---------------------------|--------|--------------------------|--------------|---------------------------|---------------|-------------|----------|----------|--------|--------------|-----------|---------------|-----------------|---------------------|----------|-----------|------------|-----------|---------|-----------------|---------------------|-------------------|-----------|------------|-------------------|--------|--------------------------------------|-------|---------------------------|--------|---|--|--------------------------------------|--|------|--|--|--|------|--|-----------------------------------|--|-----------------------|--|---|--|--|--|--|--|------------------------------|--|-------------|--|-------------|--|------------------------------|--|--|--|-------------------|--|-----------------------------------|--|----------------------------|--|----------------------------|--|---------------------------|--|--------------------------|--|----------------|--|-------------|--|---|--|---|--|---|--|-------|--|---|--|---|--|--|--|---------------|--|-------|--|--|--|--|--|--|--|--|--|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|------|--|------|--|---------------------|--|--|--|--------------------------------|--|-------------------------------|--|------------------|--|------------------------------------|--|--------------------------------|--|------------------|--|--|--|--------------------------------|--|------------------|--|--------------------------------|--|-------------------------------|--|---------------------|--|-----------------|--|-----------|--|---------|--|-------------|--|-----------|--|---------|--|--|--|-----------------|--|---|--|--|--|--|--|--|--|
| Client Information | | Sampler <i>Mat Yim</i> | | Lab PM Elaine Walker | | Carrier Tracking No(s) FedEx | | COC No. 2304W4AFEAO1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Contact: | | Phone: <i>808-349-4738</i> | | E-Mail: M.Elaine.Walker@EurofinsET.com | | State of Origin: Hawaii | | Page: Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: AECOM | | PWSID | | Analysis Requested | | | | | | Job # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address 1001 Bishop St Suite 1600 | | Due Date Requested see subcontract | | <table border="1"> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform MS/MSD (Yes or No)</td> <td colspan="6" rowspan="4" style="text-align: center; vertical-align: middle;"> <i>M Y 4/27/23</i> </td> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> </tr> <tr> <td colspan="6" rowspan="3"> <table border="1"> <tr> <td colspan="2">Preservation Codes</td> </tr> <tr> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td>C Zn Acetate</td> <td>O AsNaO2</td> </tr> <tr> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td>I Ice</td> <td>U Acetone</td> </tr> <tr> <td>J DI Water</td> <td>V MCAA</td> </tr> <tr> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td>L EDA</td> <td>Z other (specify)</td> </tr> <tr> <td colspan="2">Other:</td> </tr> </table> </td> </tr> <tr> <td colspan="2">City: Honolulu</td> <td colspan="2">TAT Requested (days) Rush - 5 Day</td> </tr> <tr> <td colspan="2">State Zip Hawaii 96813</td> <td colspan="2">Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Phone 808-954-4512 / 770-331-0794</td> <td colspan="2">PO #</td> </tr> <tr> <td colspan="2">Email Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</td> <td colspan="2">WO #</td> </tr> <tr> <td colspan="2">Project Name CTO N6274223F0104</td> <td colspan="2">Project # 60697810</td> <td colspan="6" rowspan="2"> <table border="1"> <tr> <td colspan="2">Sample Identification</td> <td colspan="2">Sample Date</td> <td colspan="2">Sample Time</td> <td colspan="2">Sample Type (C=comp, G=grab)</td> <td colspan="2">Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td> <td colspan="2">Preservation Code</td> <td colspan="2">Field Filtered Sample (Yes or No)</td> <td colspan="2">Perform MS/MSD (Yes or No)</td> <td colspan="2">Total Number of containers</td> <td colspan="2">Special Instructions/Note</td> </tr> <tr> <td colspan="2">AF RHMW02 WGN01LF-2304W4</td> <td colspan="2"><i>4/27/23</i></td> <td colspan="2"><i>0955</i></td> <td colspan="2">G</td> <td colspan="2">W</td> <td colspan="2">A</td> <td colspan="2">N N X</td> <td colspan="2">X</td> <td colspan="2">3</td> <td colspan="2"></td> </tr> </table> </td> </tr> <tr> <td colspan="2">Site: RHSF</td> <td colspan="2">SSOW#</td> <td colspan="6"></td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Possible Hazard Identification</td> <td colspan="8">Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</td> </tr> <tr> <td colspan="4"> <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 </td> <td colspan="8"> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months </td> </tr> <tr> <td colspan="4">Deliverable Requested: I, II, III, IV, Other (specify)</td> <td colspan="4">Prelim data (Level 1or2)=see TAT above DoD Stage 4 report standard TAT. 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| | | | | | | | | A HCL | M Hexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B NaOH | N None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C Zn Acetate | O AsNaO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D Nitric Acid | P Na2O4S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E NaHSO4 | Q Na2SO3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F MeOH | R Na2S2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G Amchlor | S H2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H Ascorbic Acid | T TSP Dodecahydrate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I Ice | U Acetone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J DI Water | V MCAA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K EDTA | W pH 4-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L EDA | Z other (specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Honolulu | | TAT Requested (days) Rush - 5 Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Zip Hawaii 96813 | | Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone 808-954-4512 / 770-331-0794 | | PO # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com) | | WO # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name CTO N6274223F0104 | | Project # 60697810 | | <table border="1"> <tr> <td colspan="2">Sample Identification</td> <td colspan="2">Sample Date</td> <td colspan="2">Sample Time</td> <td colspan="2">Sample Type (C=comp, G=grab)</td> <td colspan="2">Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td> <td colspan="2">Preservation Code</td> <td colspan="2">Field Filtered Sample (Yes or No)</td> <td colspan="2">Perform MS/MSD (Yes or No)</td> <td colspan="2">Total Number of containers</td> <td colspan="2">Special Instructions/Note</td> </tr> <tr> <td colspan="2">AF RHMW02 WGN01LF-2304W4</td> <td colspan="2"><i>4/27/23</i></td> <td colspan="2"><i>0955</i></td> <td colspan="2">G</td> <td colspan="2">W</td> <td colspan="2">A</td> <td colspan="2">N N X</td> <td colspan="2">X</td> <td colspan="2">3</td> <td colspan="2"></td> </tr> </table> | | | | | | Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | Preservation Code | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of containers | | Special Instructions/Note | | AF RHMW02 WGN01LF-2304W4 | | <i>4/27/23</i> | | <i>0955</i> | | G | | W | | A | | N N X | | X | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | | Sample Date | | | | | | | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | Preservation Code | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of containers | | Special Instructions/Note | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF RHMW02 WGN01LF-2304W4 | | <i>4/27/23</i> | | <i>0955</i> | | G | | W | | A | | N N X | | X | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: RHSF | | SSOW# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | Prelim data (Level 1or2)=see TAT above DoD Stage 4 report standard TAT. AECOM EQUIS EDD. | | | | Special Instructions/QC Requirements DOD QSM project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by | | | | Date | | Time | | Method of Shipment. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by <i>Mat Yim</i> | | Date/Time <i>4/27/23 1235</i> | | Company AECOM | | Received by <i>Brihany Tominez</i> | | Date/Time <i>04/27/23 1235</i> | | Company AECOM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by <i>Brihany Tominez</i> | | Date/Time <i>04/27/23 1255</i> | | Company AECOM | | Received by <i>[Signature]</i> | | Date/Time <i>5/2/23 10:36</i> | | Company Eurofins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | | Company | | Received by | | Date/Time | | Company | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks <i>3.5/4.1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126724-1

Login Number: 126724
List Number: 2
Creator: Drake, Victoria

List Source: Eurofins Savannah
List Creation: 05/03/23 09:47 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. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | N/A | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |