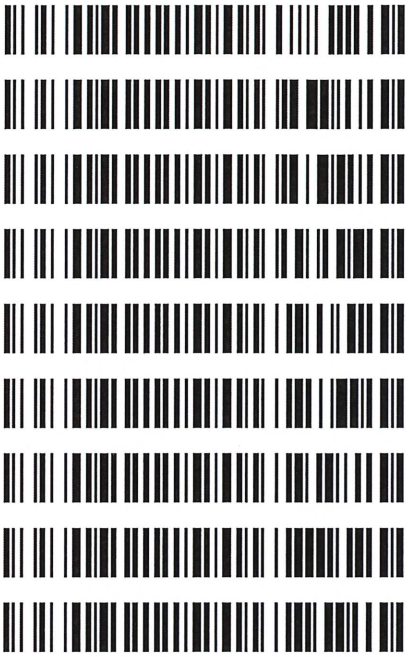
11/15/2021

**Worklist: 5389**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| M2021-4837 | 2 | UCK | Alcohol Analysis |
| M2021-4933 | 1 | BCK | Alcohol Analysis |
| M2021-4934 | 1 | BCK | Alcohol Analysis |
| M2021-4940 | 1 | BCK | Alcohol Analysis |
| M2021-4956 | 1 | BCK | Alcohol Analysis |
| M2021-4957 | 1 | BCK | Alcohol Analysis |
| M2021-4958 | 1 | BCK | Alcohol Analysis |
| M2021-4959 | 1 | BCK | Alcohol Analysis |
| M2021-4960 | 1 | BCK | Alcohol Analysis |



**REVIEWED**
*By Jeremy Johnston at 7:32 am, Nov 18, 2021*

## Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: M600H11378*

**Volatiles Quality Assurance Controls** **Run Date(s): 11/15/2021**

**Calibration date: 11/10/2021**

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jul-23 | 1907006 | 0.0764 | 0.0688-0.0840 | 0.0738 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |
| Level 2 | Jul-23 | 1907007 | 0.2170 | 0.1953-0.2387 | 0.2085 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |

| | | | | | |
|---|---|---|---|---|---|
| **Multi-Component mixture:** | | | **Lot #** | FN07101701 | OK |
| **Curve Fit:** | **Column 1** | 0.99918 | **Column2** | 0.99942 | |

**Ethanol Calibration Reference Material**

| Calibrator level | Target Value | Acceptable Range | Column 1 | Column 2 | Precision | Mean |
|---|---|---|---|---|---|---|
| 50 | 0.050 | 0.045 - 0.055 | 0.0560 | 0.0551 | 0.0009 | 0.0555 |
| 100 | 0.100 | 0.090 - 0.110 | 0.0993 | 0.0993 | 0 | 0.0993 |
| 200 | 0.200 | 0.180 - 0.220 | 0.1947 | 0.1954 | 0.0007 | 0.195 |
| 300 | 0.300 | 0.270 - 0.330 | 0.2955 | 0.2964 | 0.0009 | 0.2959 |
| 400 | 0.400 | 0.360 - 0.440 | | | | |
| 500 | 0.500 | 0.450 - 0.550 | 0.5043 | 0.5035 | 0.0008 | 0.5039 |

**Aqueous Controls**

| Control level | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|
| 80 | 0.080 | 0.076 - 0.084 | 0.081 g/100cc |

Revision: 2
Issue Date: 12/23/2019
Issuing Authority: Quality Manager

# Meridian Blood Alcohol Analysis Batch Table

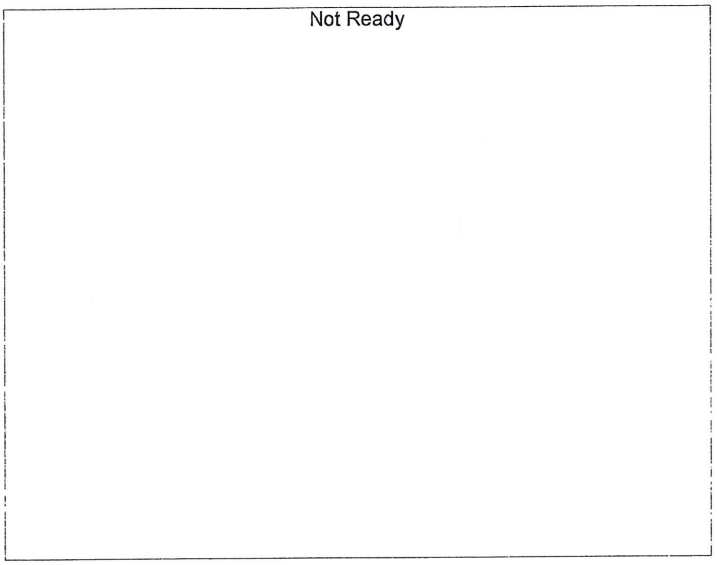
Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99


| Vial# | Sample Name | Sample Type | Level# | Method File |
|---|---|---|---|---|
| 1 | 0.050 | 1:Standard:(I) | 1 | ALCOHOL.GCM |
| 2 | 0.100 | 1:Standard | 2 | ALCOHOL.GCM |
| 3 | 0.200 | 1:Standard | 3 | ALCOHOL.GCM |
| 4 | 0.300 | 1:Standard | 4 | ALCOHOL.GCM |
| 5 | 0.500 | 1:Standard | 5 | ALCOHOL.GCM |
| 6 | INT STD BLNK | 0:Unknown | 0 | ALCOHOL.GCM |

# Calibration Table

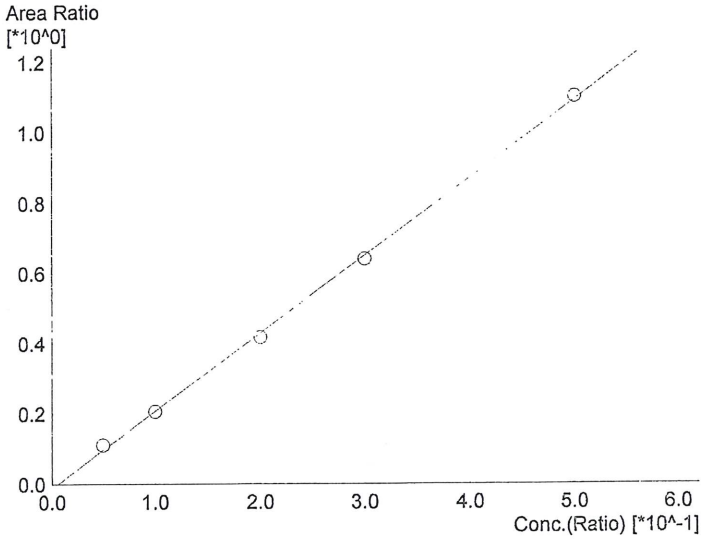
Laboratory : MERIDIAN
Instrument Name : GC-HS
Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
Method File :C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\211110\CALIBRATION\CALCURVE_TEMPLATE.gcb
Date Acquired :11/10/2021 1:48:10 PM
Date Created :11/10/2021 1:43:43 PM
Date Modified :11/10/2021 1:51:12 PM



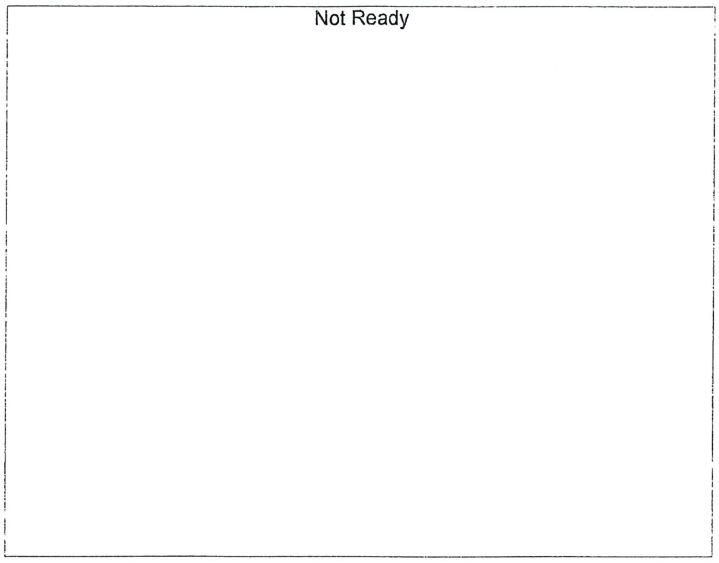

Name : Methanol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



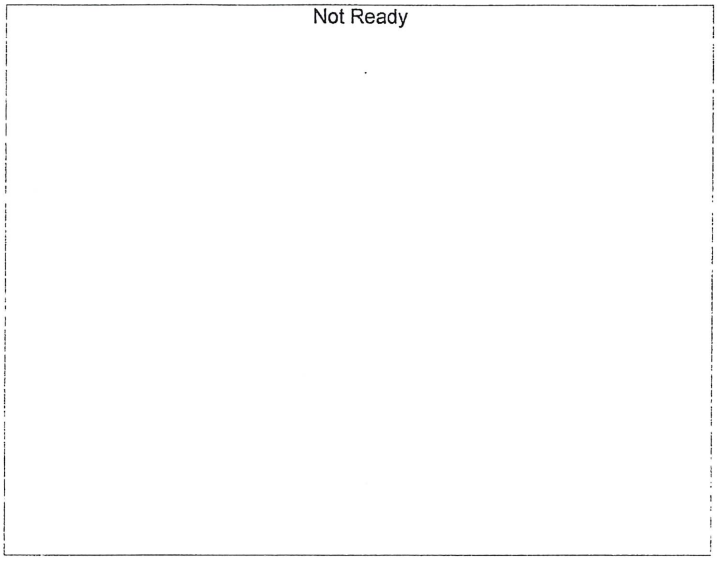

Name : Ethanol
Detector Name: FID1
Function : f(x)=2.21115*x-0.0139551
R^2 value= 0.9991893
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 20379 | 0.0560 |
| 2 | 0.100 | 41622 | 0.0993 |
| 3 | 0.200 | 82568 | 0.1947 |
| 4 | 0.300 | 126304 | 0.2955 |
| 5 | 0.500 | 241018 | 0.5043 |



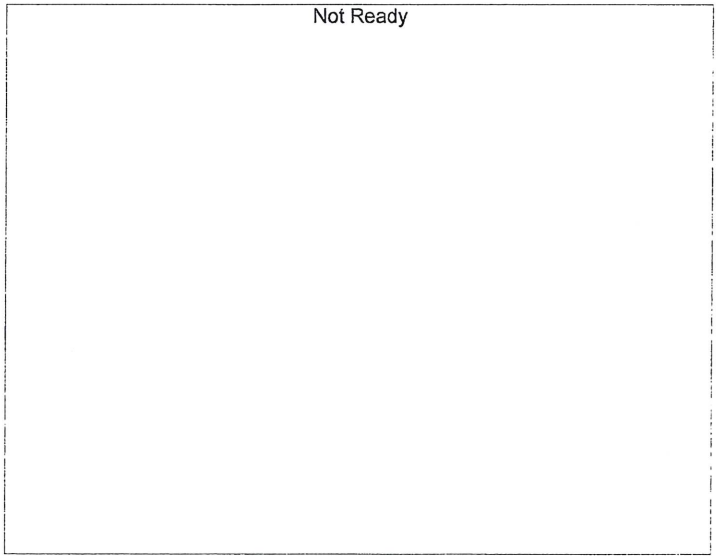

Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



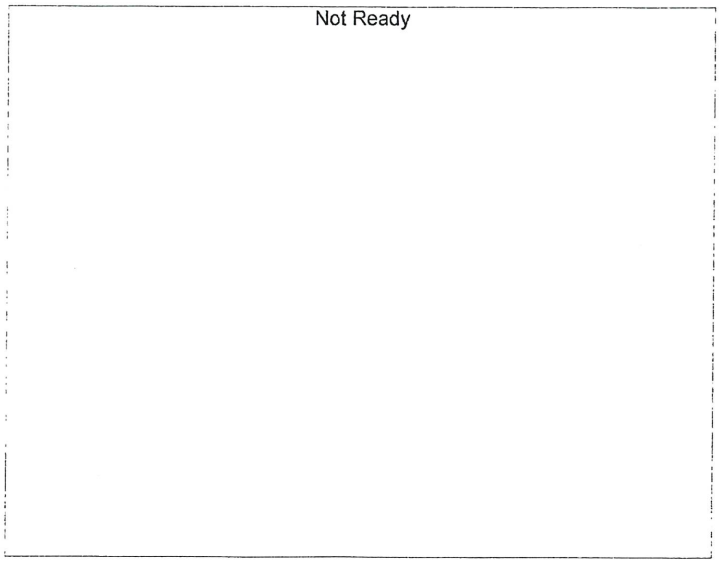

Name : Acetone
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



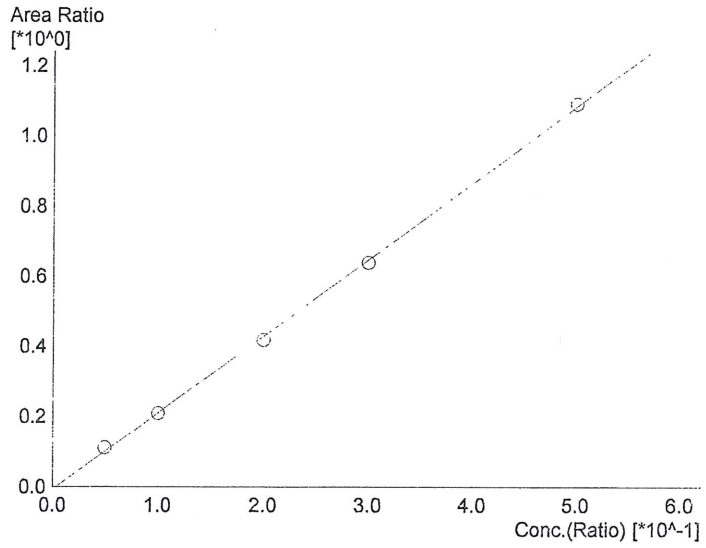

Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



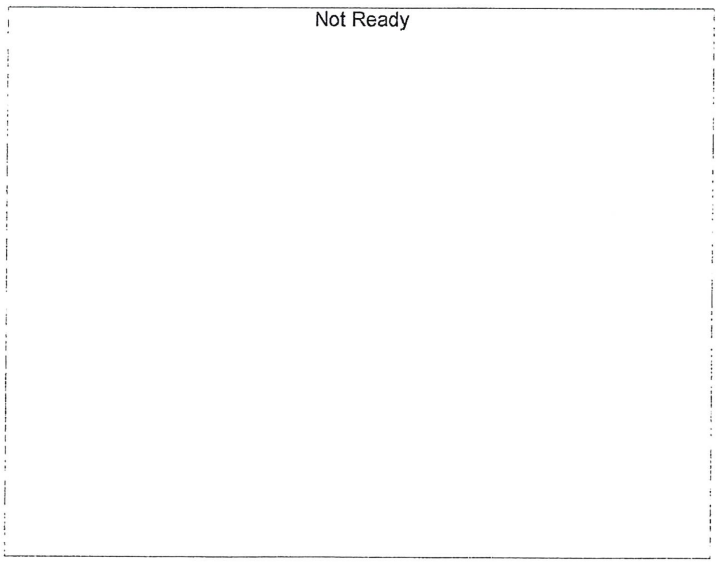

Name : Methanol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|



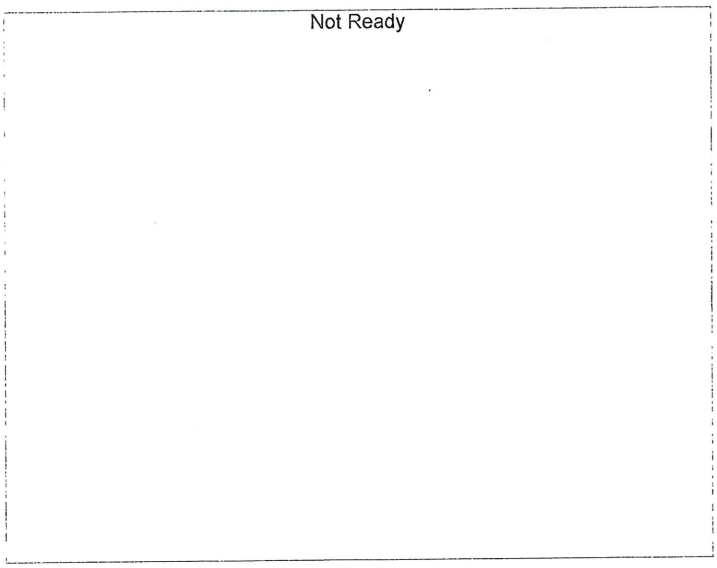

Name : Ethanol
Detector Name: FID2
Function : f(x)=2.18295*x-0.00872257
R^2 value= 0.9994293
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 19388 | 0.0551 |
| 2 | 0.100 | 39338 | 0.0993 |
| 3 | 0.200 | 77225 | 0.1954 |
| 4 | 0.300 | 117320 | 0.2964 |
| 5 | 0.500 | 221880 | 0.5035 |



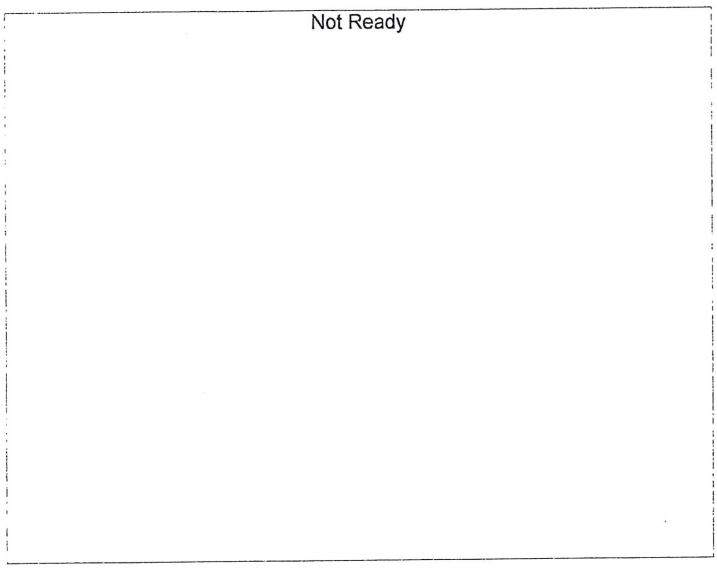

Name : Acetone
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|




Name : Isopropyl Alcohol
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

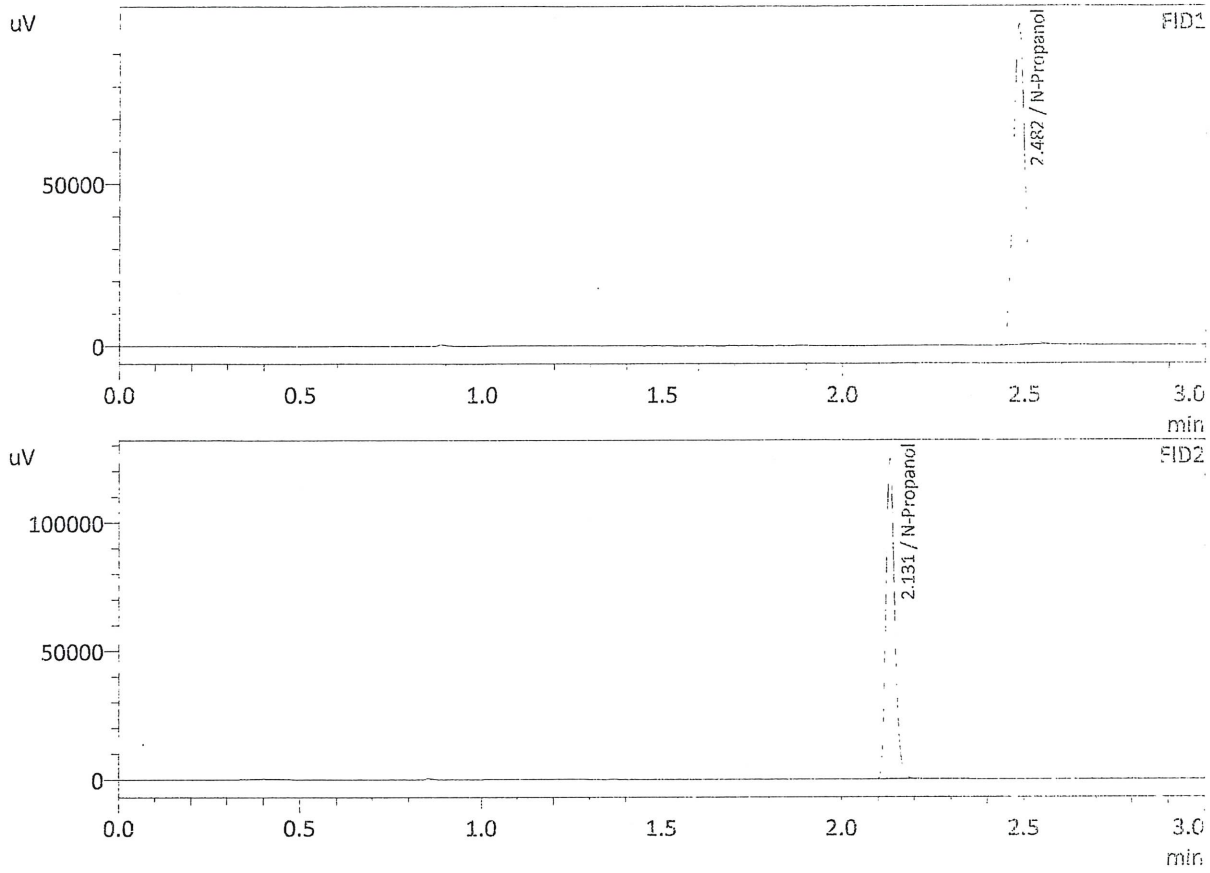
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|




Name : Fluor. Hyorocarbon(s)
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 11/10/2021 1:56:18 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



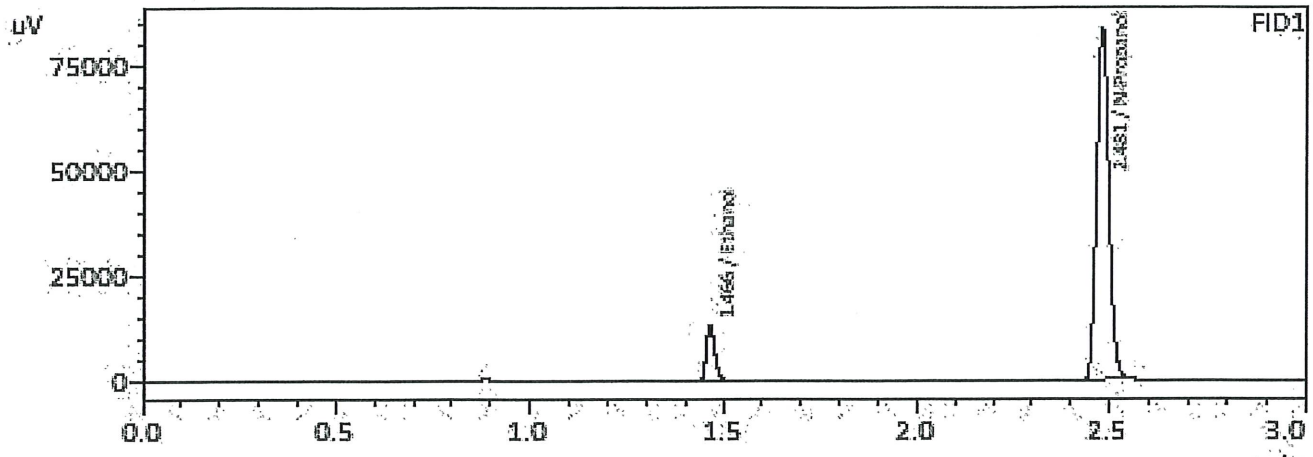

FID1

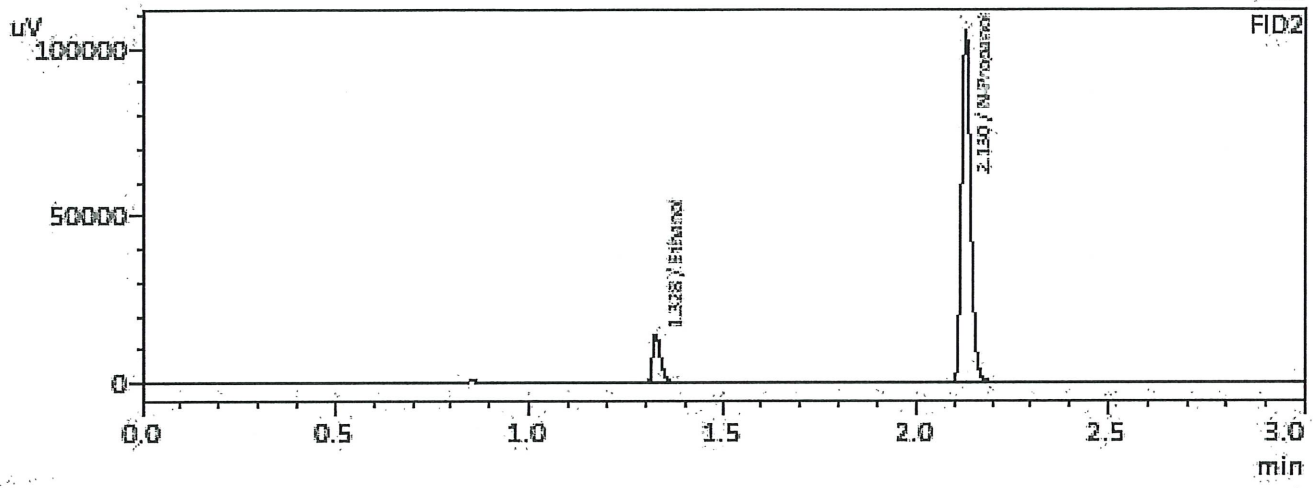
| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 218859 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 204784 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : 0.050
Laboratory : Meridian
Injection Date : 11/10/2021 1:16:55 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument#GC/HS : C12255750548 / C12595800409



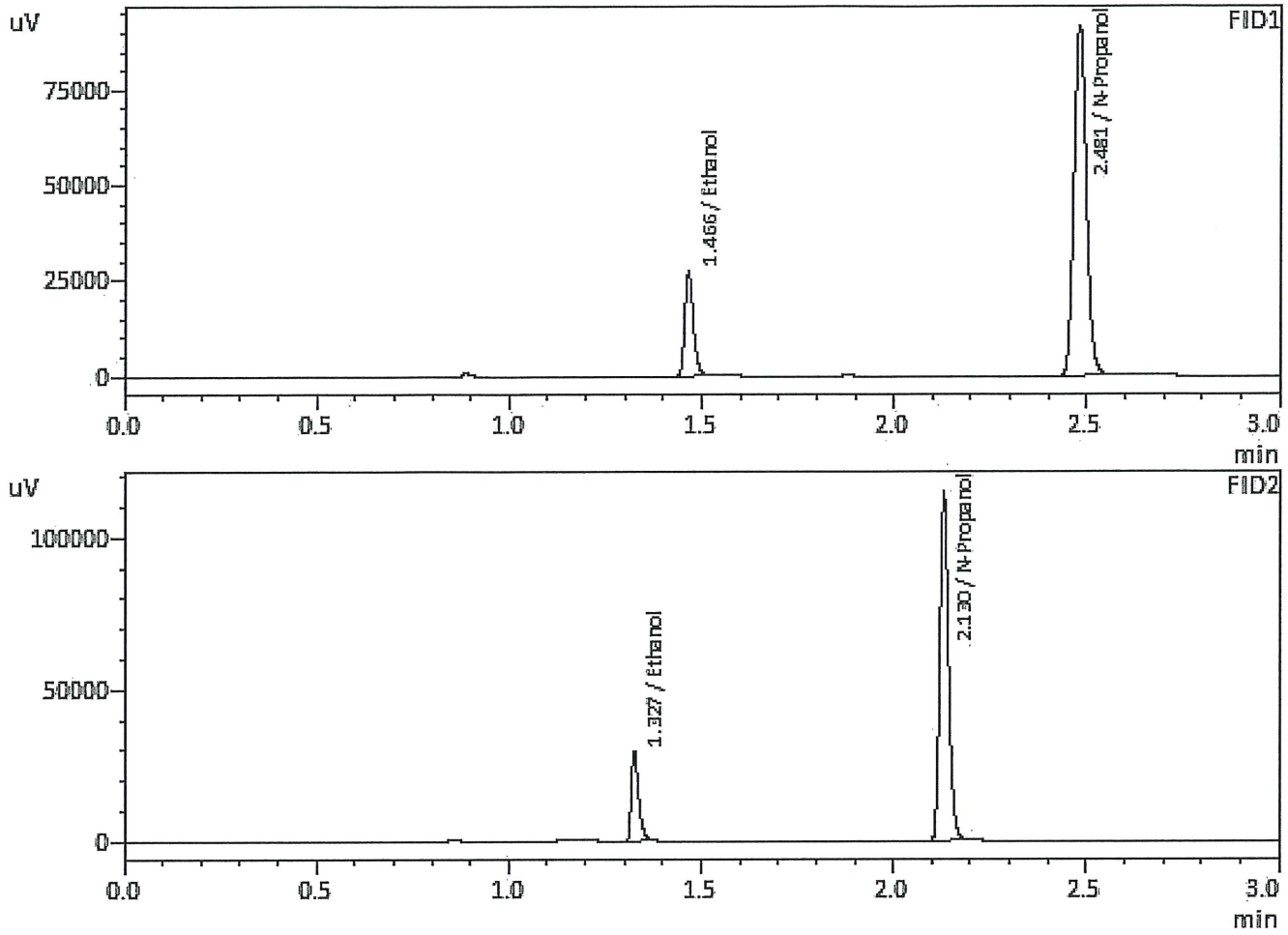

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | – | – | g/100cc |
| Ethanol | 0.0560 | 20379 | g/100cc |
| Isopropyl Alcohol | – | – | g/100cc |
| Acetone | – | – | g/100cc |
| N-Propanol | 0.0000 | 185245 | g/100cc |
| Fluor. Hydrocarbon(s) | – | – | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | – | – | g/100cc |
| Ethanol | 0.0551 | 19388 | g/100cc |
| Acetone | – | – | g/100cc |
| Isopropyl Alcohol | – | – | g/100cc |
| N-Propanol | 0.0000 | 173547 | g/100cc |
| Fluor. Hydrocarbon(s) | – | – | g/100cc |

Sample Name : 0.100
Laboratory : Meridian
Injection Date : 11/10/2021 1:24:17 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



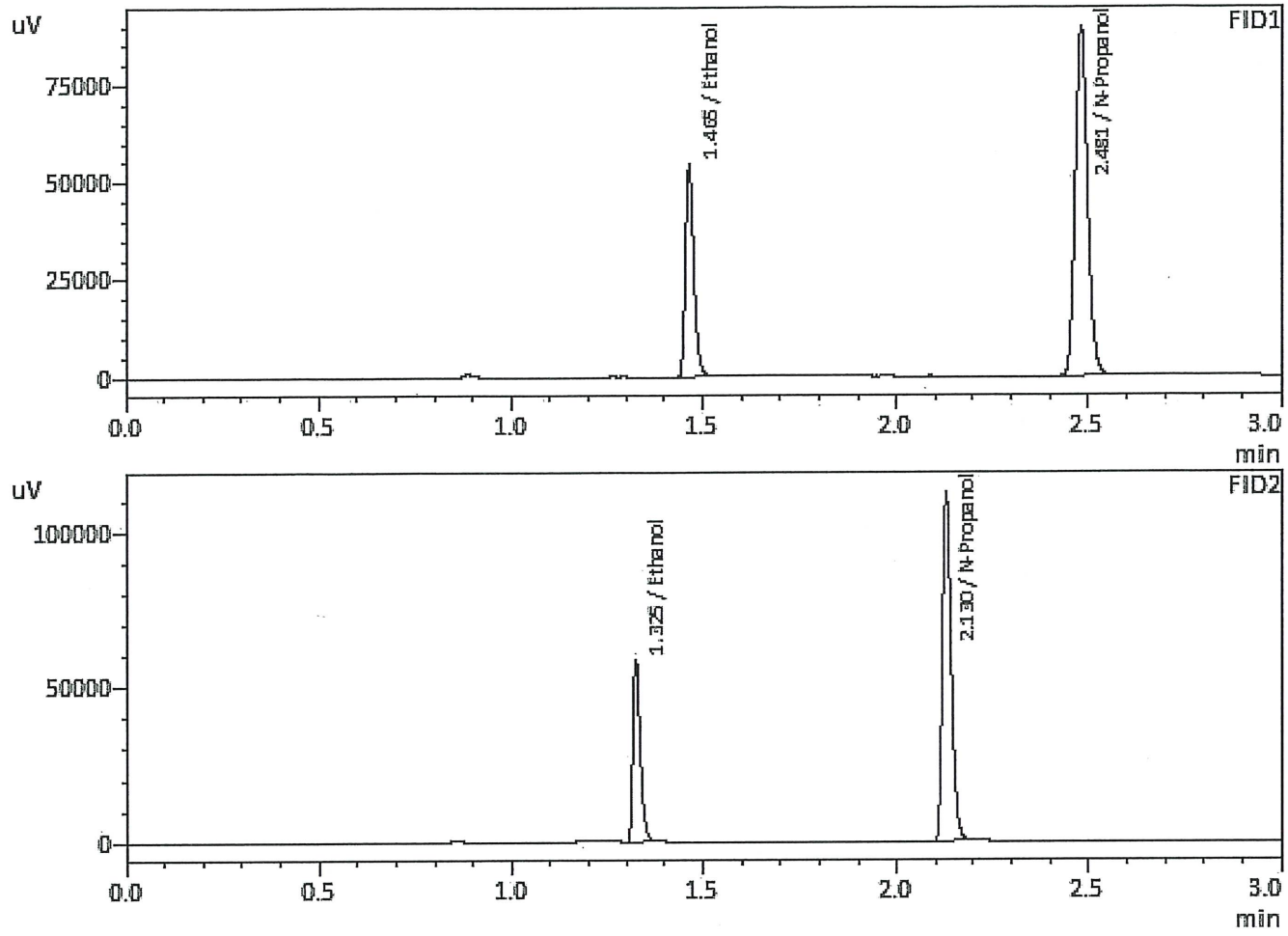

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0993 | 41622 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 202252 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0993 | 39338 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 188929 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : 0.200
Laboratory : Meridian
Injection Date : 11/10/2021 1:31:35 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



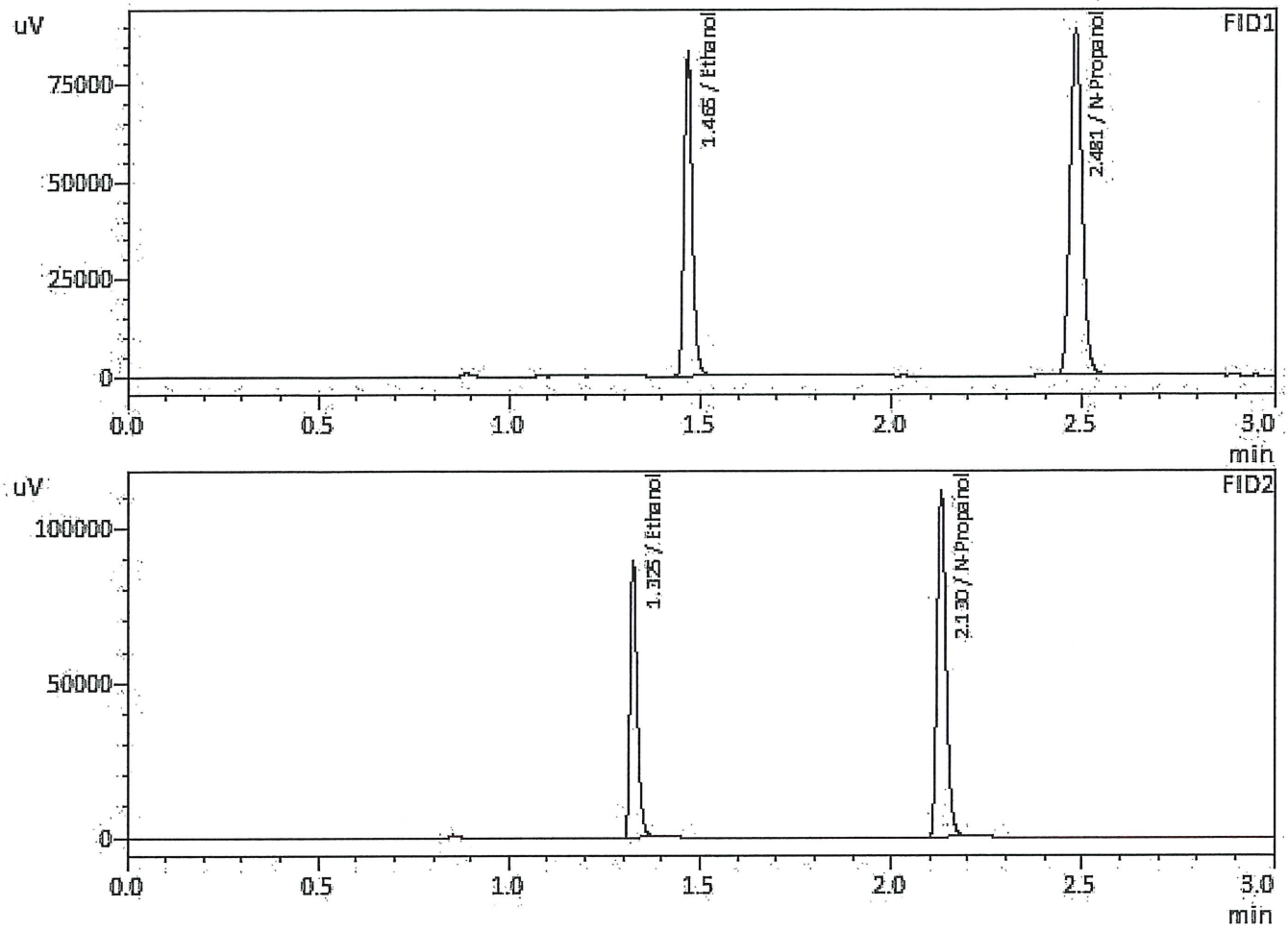

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.1947 | 82568 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 198193 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.1954 | 77225 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 184815 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : 0.300
Laboratory : Meridian
Injection Date : 11/10/2021 1:40:34 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



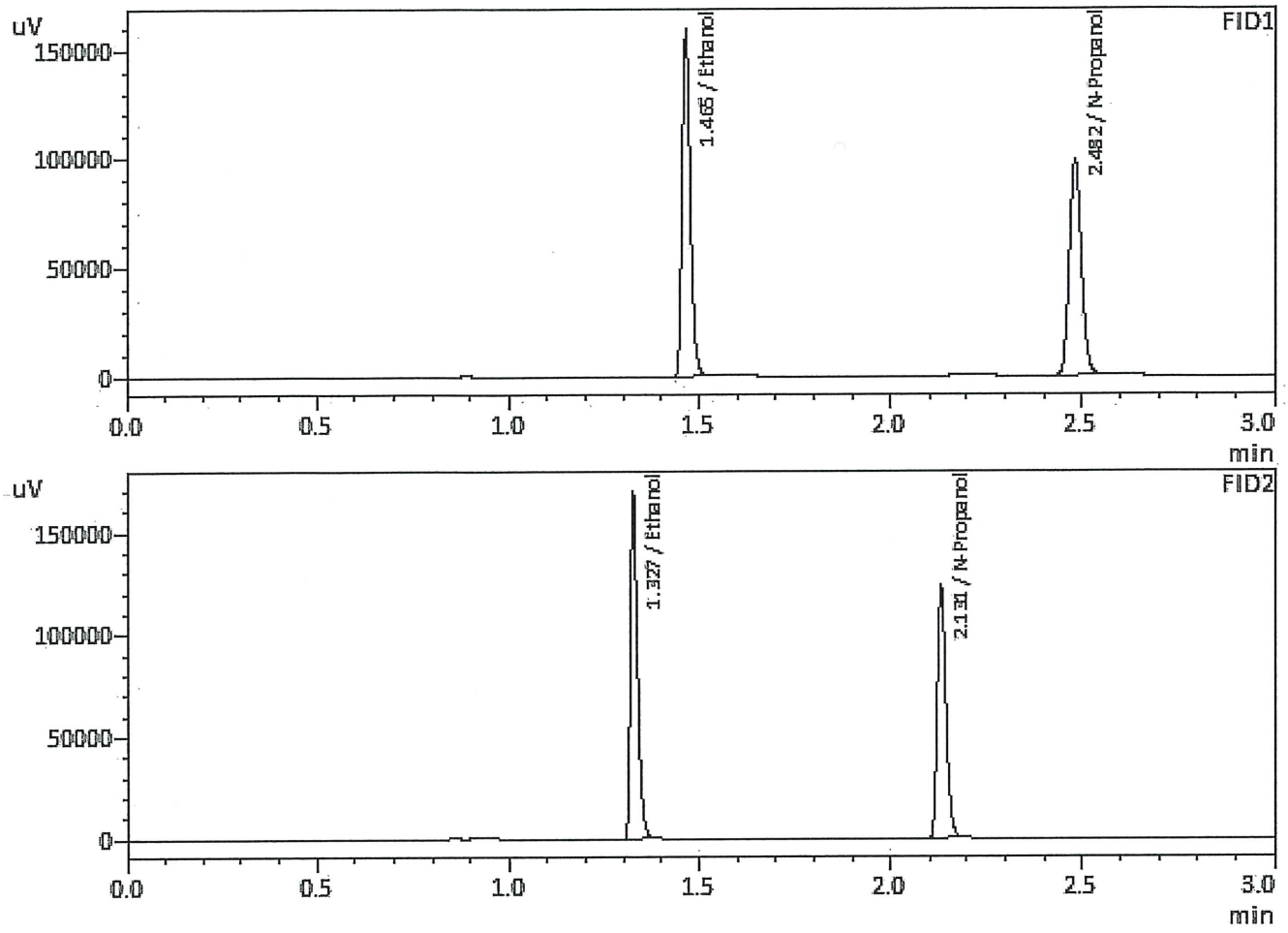

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2955 | 126304 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 197517 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2964 | 117320 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 183743 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : 0.500
Laboratory : Meridian
Injection Date : 11/10/2021 1:48:10 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.5043 | 241018 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 218873 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

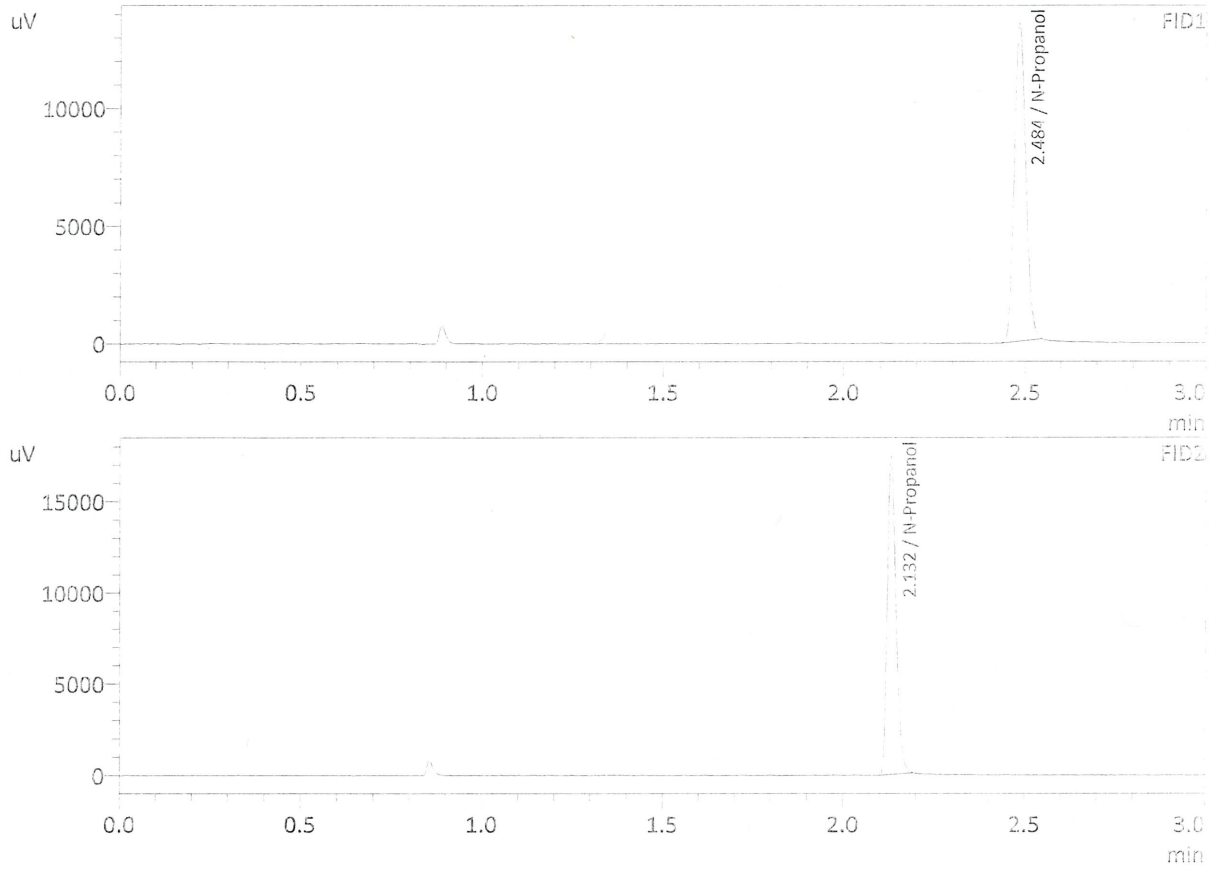
| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.5035 | 221880 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 203466 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

# Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99


| Vial# | Sample Name | Method File |
|---|---|---|
| 1 | INT STD BLK 1 | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 2 | ED VOLATILES FN 0710 | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 3 | QC-1-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 4 | QC-1-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 5 | 0.08 QA-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 6 | 0.08 QA-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 7 | M2021-4837-2-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 8 | M2021-4837-2-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 9 | M2021-4933-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 10 | M2021-4933-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 11 | M2021-4934-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 12 | M2021-4934-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 13 | M2021-4940-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 14 | M2021-4940-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 15 | M2021-4956-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 16 | M2021-4956-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 17 | M2021-4957-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 18 | M2021-4957-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 19 | M2021-4958-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 20 | M2021-4958-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 21 | M2021-4959-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 22 | M2021-4959-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 23 | M2021-4960-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 24 | M2021-4960-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 25 | QC-2-1-A | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 26 | QC-2-1-B | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |
| 27 | INT STD BLNK | C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM |

Sample Name : INT STD BLK 1
Laboratory : Meridian
Injection Date : 11/15/2021 11:29:58 AM
Vial # : 1
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



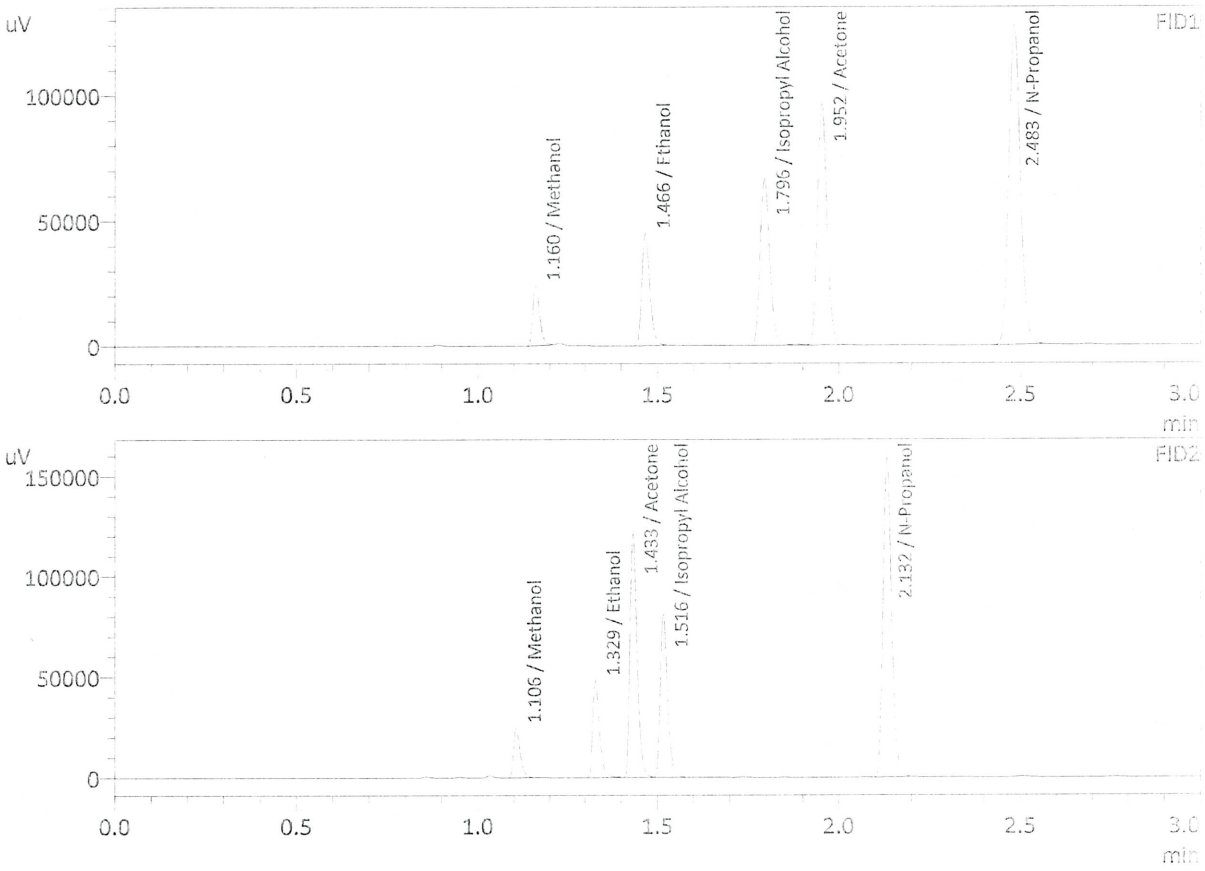

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 30110 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 29224 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : MIXED VOLATILES FN 07101701
Laboratory : Meridian
Injection Date : 11/15/2021 11:37:20 AM
Vial # : 2
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | 0.0000 | 32388 | g/100cc |
| Ethanol | 0.1165 | 68748 | g/100cc |
| Isopropyl Alcohol | 0.0000 | 123641 | g/100cc |
| Acetone | 0.0000 | 178464 | g/100cc |
| N-Propanol | 0.0000 | 281960 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | 0.0000 | 31133 | g/100cc |
| Ethanol | 0.1182 | 64892 | g/100cc |
| Acetone | 0.0000 | 162793 | g/100cc |
| Isopropyl Alcohol | 0.0000 | 113569 | g/100cc |
| N-Propanol | 0.0000 | 260085 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC 1-1** **Analysis Date(s): 11/15/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0738 | 0.0734 | 0.0004 | 0.0736 | 0.0004 | 0.0738 |
| (g/100cc) | 0.0743 | 0.0738 | 0.0005 | 0.0740 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

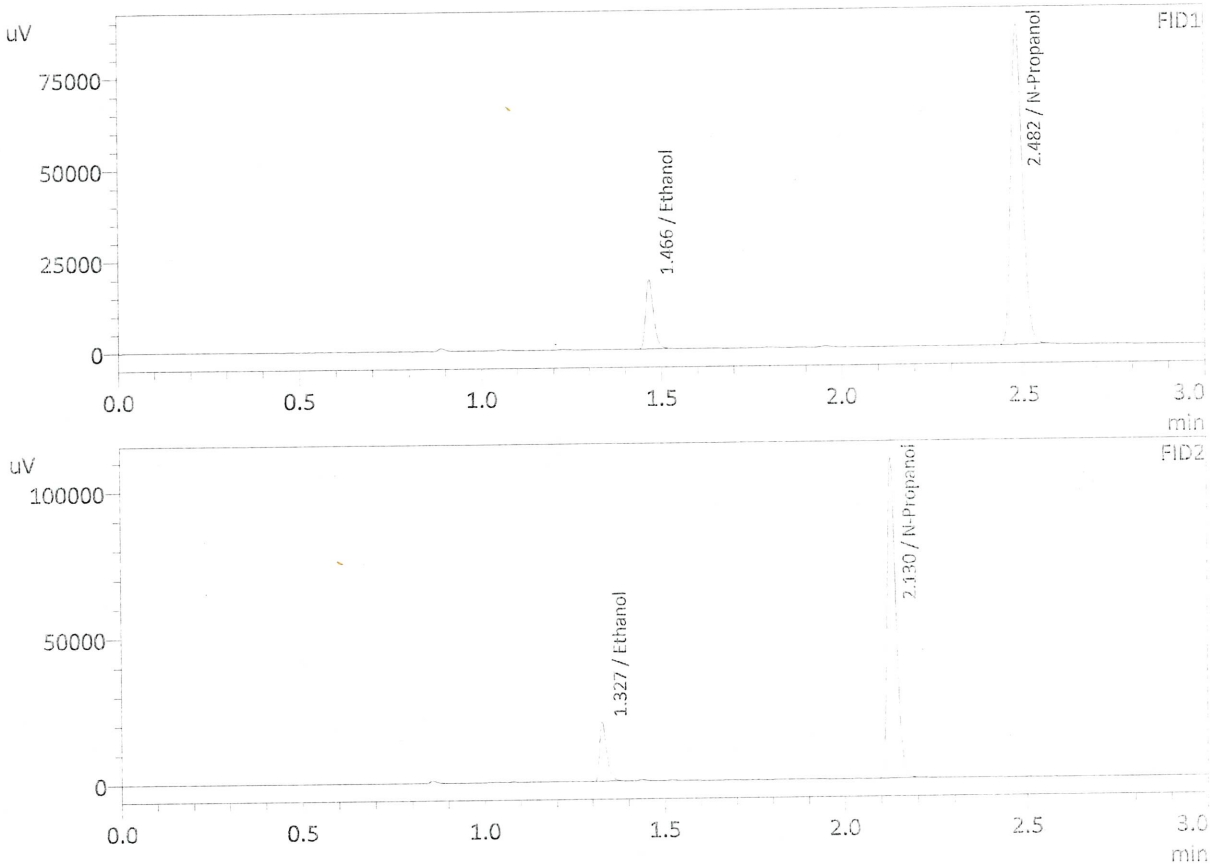
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.073** | **0.069** | **0.077** | **0.004** |

**Reported Result**

**0.073**

***Calibration and control data are stored centrally.***

Sample Name : QC-1-1-A
Laboratory : Meridian
Injection Date : 11/15/2021 11:44:40 AM
Vial # : 3
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



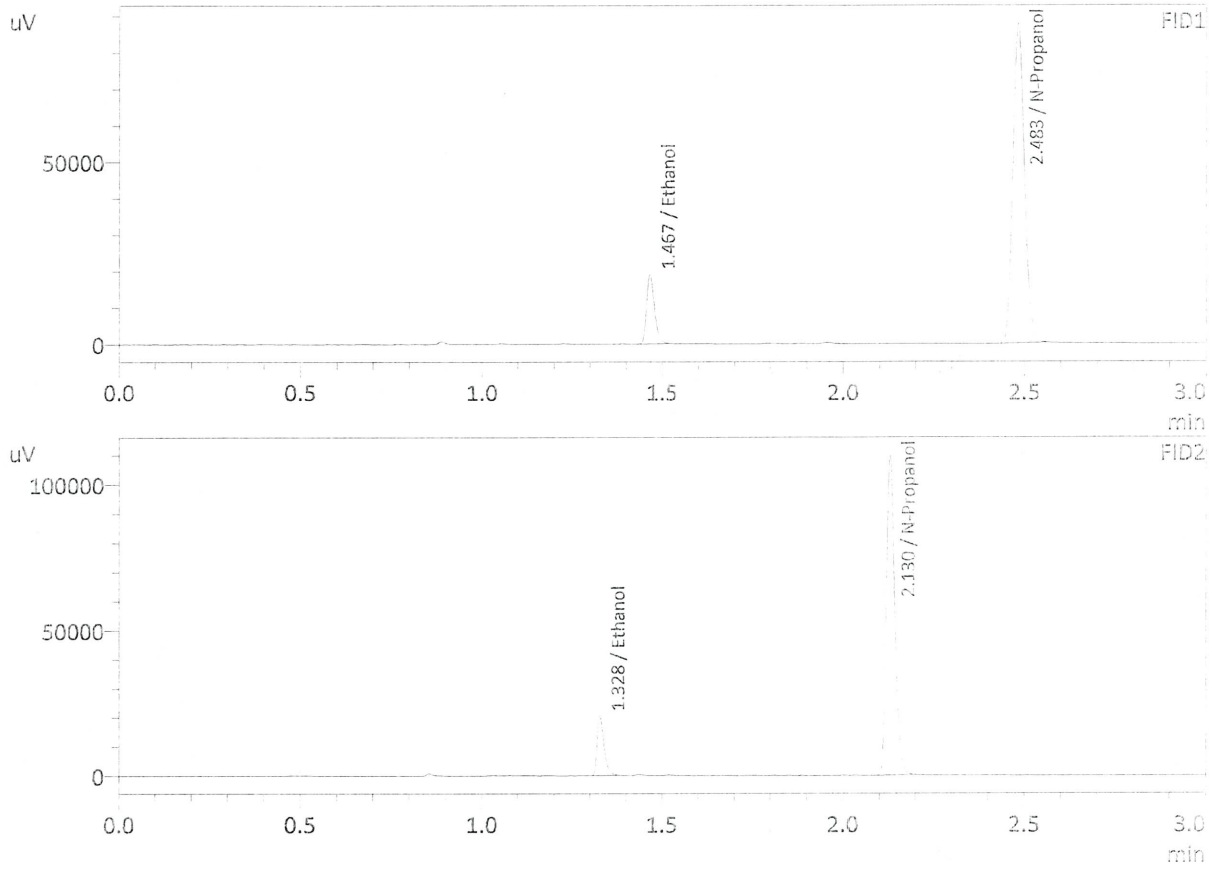

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0738 | 28892 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 193350 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0734 | 27294 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 179954 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : QC-1-1-B
Laboratory : Meridian
Injection Date : 11/15/2021 11:53:22 AM
Vial # : 4
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0743 | 29234 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 194180 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0738 | 27553 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 180664 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QA 0.08** **Analysis Date(s): 11/15/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0819 | 0.0815 | 0.0004 | 0.0817 | 0.0003 | 0.0815 |
| (g/100cc) | 0.0816 | 0.0813 | 0.0003 | 0.0814 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

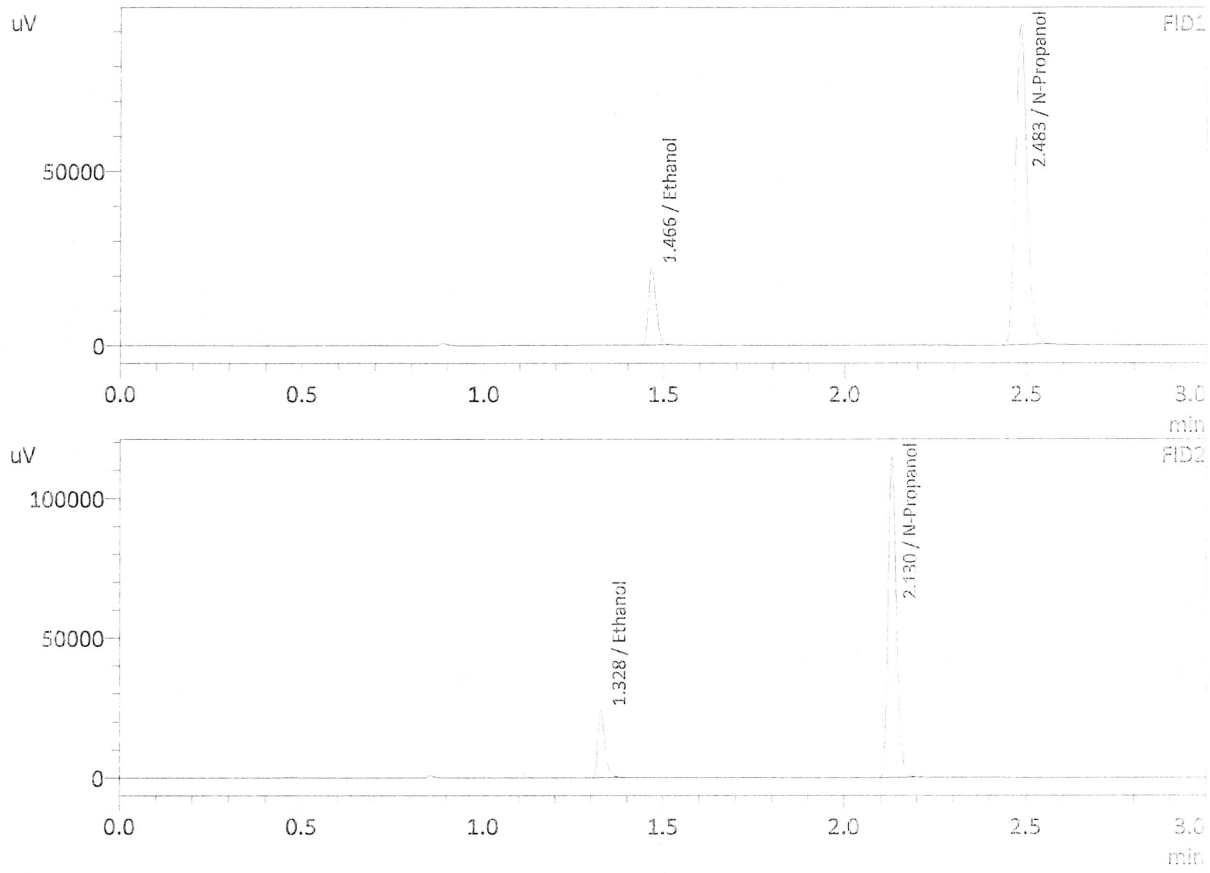
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| **0.081** | **0.076** | **0.086** | **0.005** |

**Reported Result**

**0.081**

***Calibration and control data are stored centrally.***

Sample Name : 0.08 QA-A
Laboratory : Meridian
Injection Date : 11/15/2021 12:02:07 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



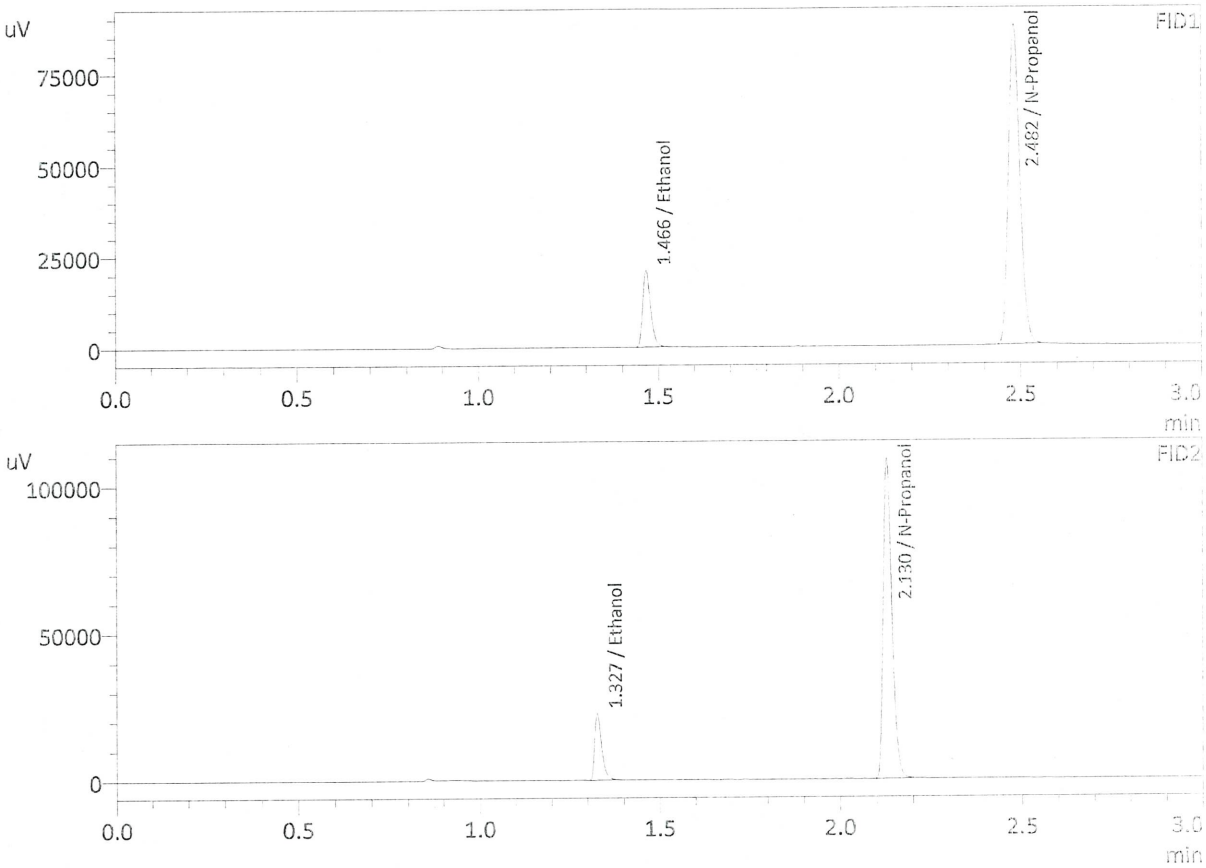

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0819 | 33878 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 202551 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0815 | 31870 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 188261 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : 0.08 QA-B
Laboratory : Meridian
Injection Date : 11/15/2021 12:09:43 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0816 | 32159 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 192973 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.0813 | 30269 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 179257 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC 2-1** **Analysis Date(s): 11/15/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.2086 | 0.2097 | 0.0011 | 0.2091 | 0.0013 | 0.2085 |
| (g/100cc) | 0.2073 | 0.2084 | 0.0011 | 0.2078 | | |

**Analysis Method**

**Refer to Blood Alcohol Method #1**

**Instrument Information** *Instrument information is stored centrally.*

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

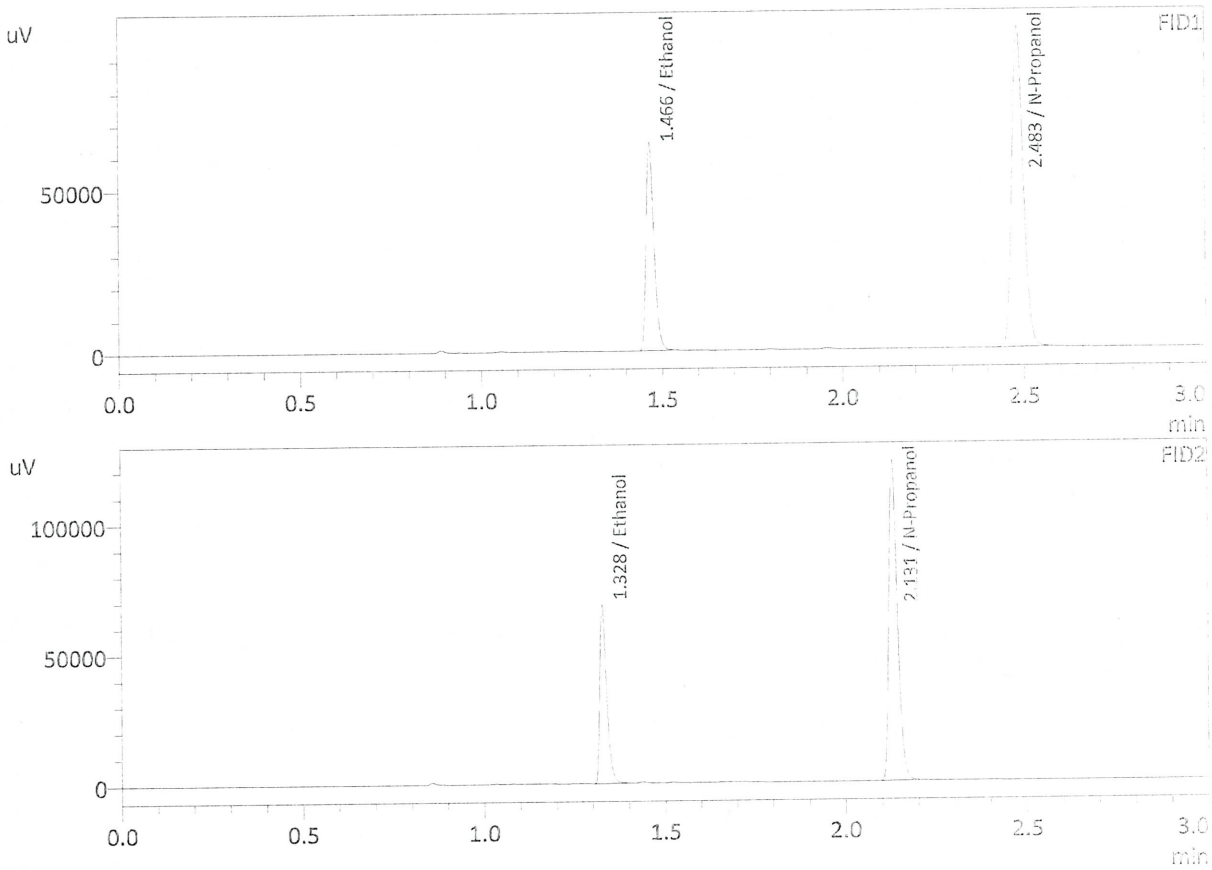
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.208 | 0.197 | 0.219 | 0.011 |

**Reported Result**

**0.208**

***Calibration and control data are stored centrally.***

Sample Name : QC-2-1-A
Laboratory : Meridian
Injection Date : 11/15/2021 2:42:43 PM
Vial # : 25
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

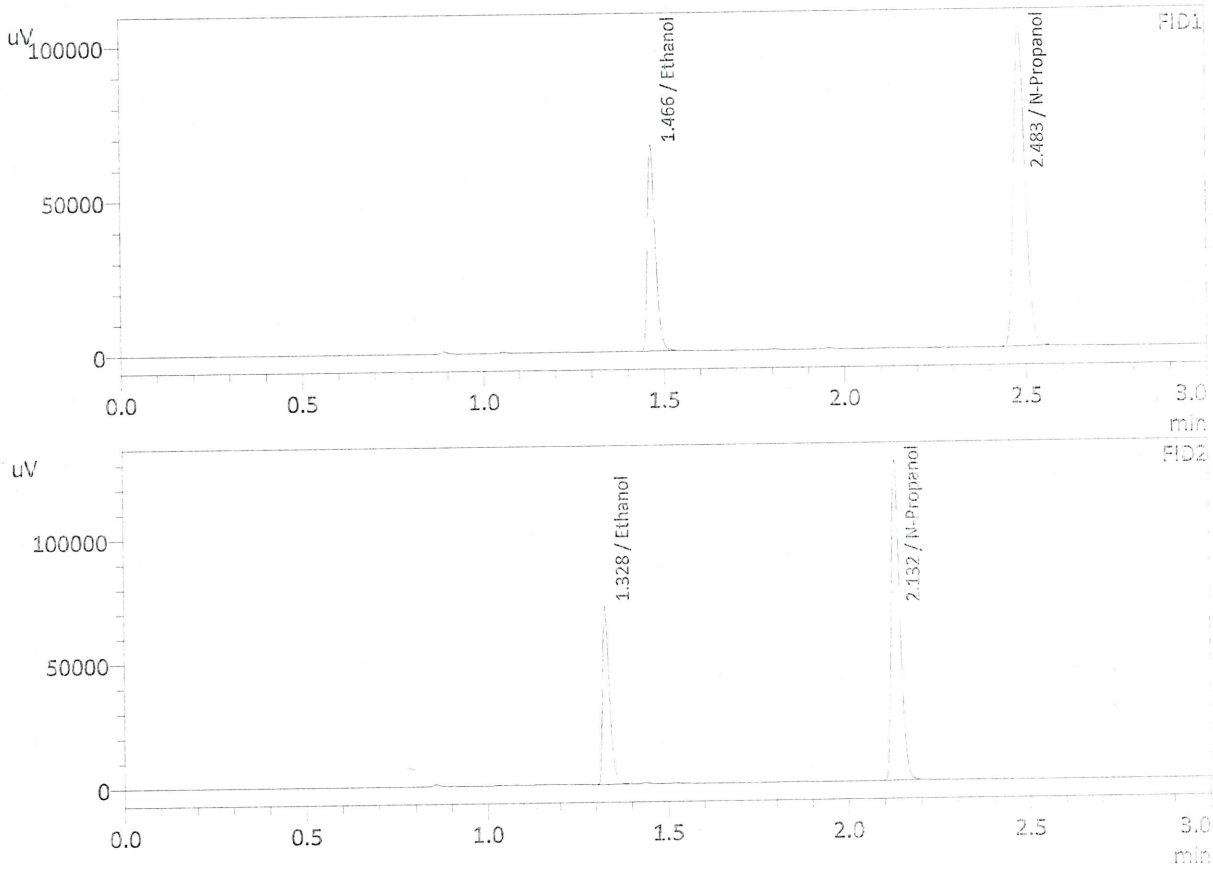
| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2086 | 97397 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 217700 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2097 | 90487 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 201459 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

W

Sample Name : QC-2-1-B
Laboratory : Meridian
Injection Date : 11/15/2021 2:50:05 PM
Vial # : 26
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409



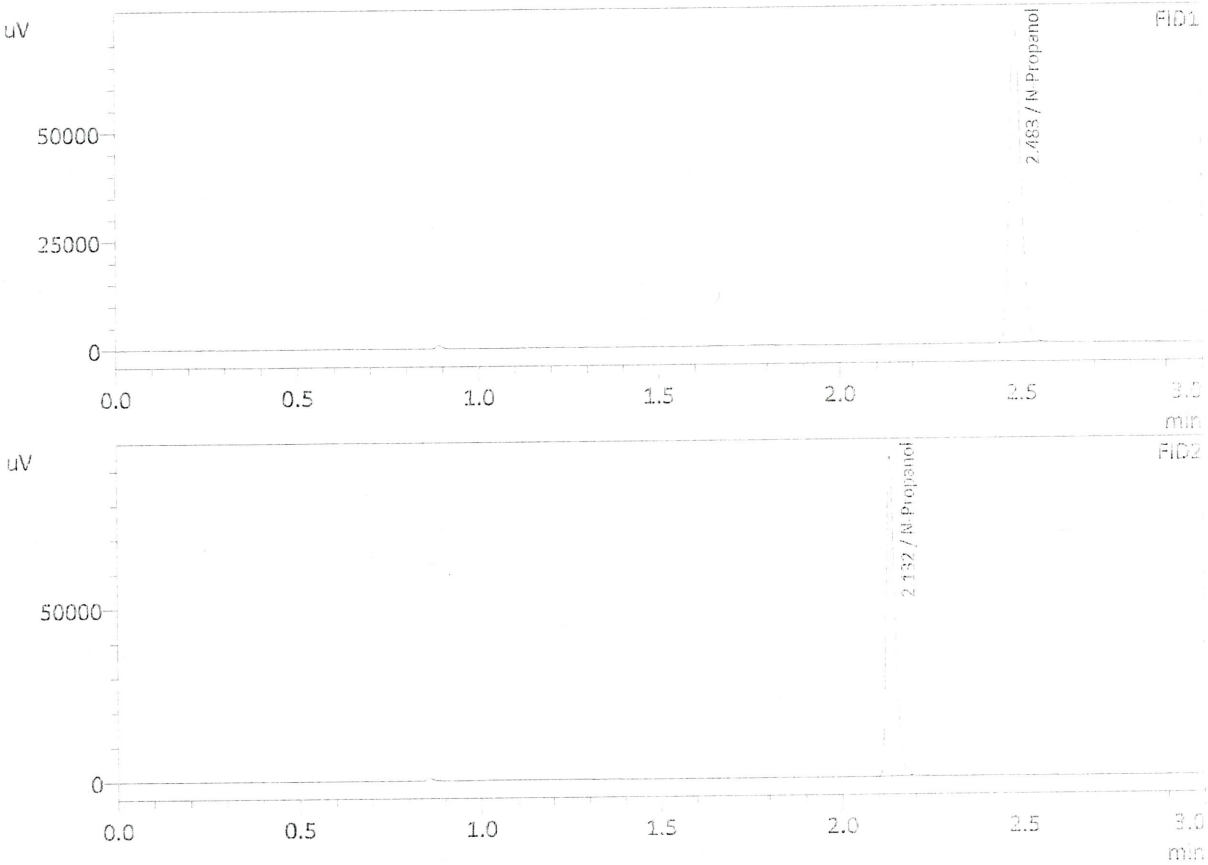

FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2073 | 101633 | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 228670 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | 0.2084 | 94394 | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 211513 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

Sample Name : INT STD BLNK
Laboratory : Meridian
Injection Date : 11/15/2021 2:59:45 PM
Vial # : 27
Method Filename : C:\LabSolutions\Data\211110\CALIBRATION\ALCOHOL.GCM
Instrument #GC/HS : C12255750548 / C12595800409




FID1

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 162894 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |

FID2

| Name | Conc. | Area | Unit |
|---|---|---|---|
| Methanol | -- | -- | g/100cc |
| Ethanol | -- | -- | g/100cc |
| Acetone | -- | -- | g/100cc |
| Isopropyl Alcohol | -- | -- | g/100cc |
| N-Propanol | 0.0000 | 152357 | g/100cc |
| Fluor. Hydrocarbon(s) | -- | -- | g/100cc |