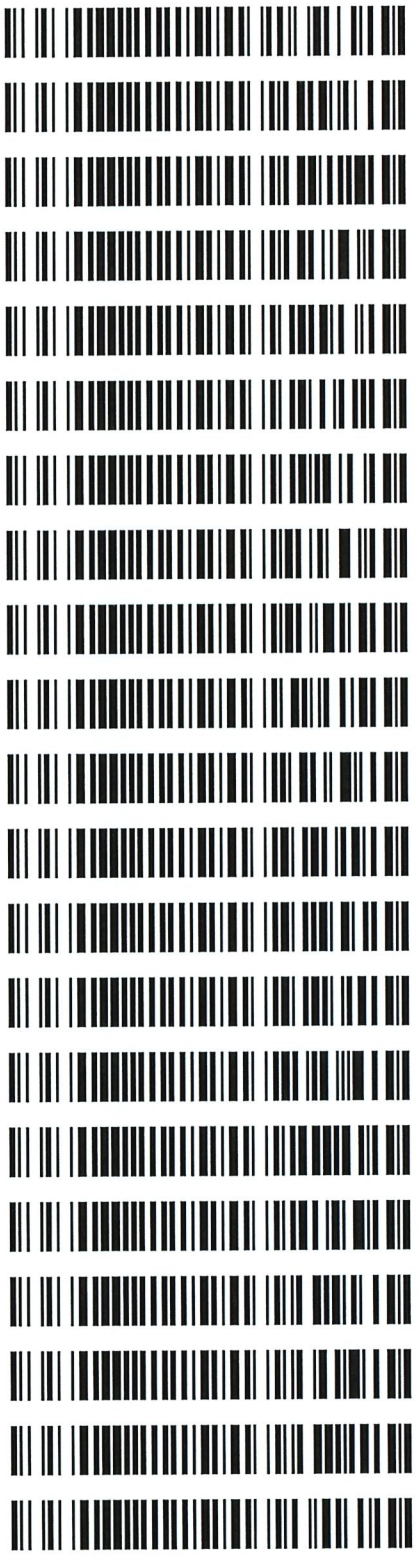
TS

7/27/2021

**Worklist: 5118**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| P2021-1726 | 1 | UCK | Alcohol Analysis |
| P2021-2048 | 1 | BCK | Alcohol Analysis |
| P2021-2049 | 1 | BCK | Alcohol Analysis |
| P2021-2050 | 1 | BCK | Alcohol Analysis |
| P2021-2067 | 1 | BCK | Alcohol Analysis |
| P2021-2072 | 1 | BCK | Alcohol Analysis |
| P2021-2074 | 1 | BCK | Alcohol Analysis |
| P2021-2096 | 1 | BCK | Alcohol Analysis |
| P2021-2099 | 1 | BCK | Alcohol Analysis |
| P2021-2114 | 1 | BCK | Alcohol Analysis |
| P2021-2129 | 1 | BCK | Alcohol Analysis |
| P2021-2182 | 3 | BCK | Alcohol Analysis |
| P2021-2187 | 1 | BCK | Alcohol Analysis |
| P2021-2190 | 1 | BCK | Alcohol Analysis |
| P2021-2202 | 1 | BCK | Alcohol Analysis |
| P2021-2205 | 1 | BCK | Alcohol Analysis |
| P2021-2206 | 1 | BCK | Alcohol Analysis |
| P2021-2207 | 1 | BCK | Alcohol Analysis |
| P2021-2209 | 1 | BCK | Alcohol Analysis |
| P2021-2210 | 1 | BCK | Alcohol Analysis |
| P2021-2282 | 1 | BCK | Alcohol Analysis |

Bracketed samples ran on an earlier date. 7/27/21 TS



**Worklist: 5118**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| P2021-2283 | 1 | BCK | Alcohol Analysis |
| P2021-2358 | 1 | BCK | Alcohol Analysis |
| P2021-2366 | 2 | BCK | Alcohol Analysis |
| P2021-2368 | 1 | BCK | Alcohol Analysis |

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

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600GB9897*

**Volatiles Quality Assurance Controls** **Run Date(s): 07/26/2021**

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jul-23 | 1907006 | 0.0764 | 0.0688-0.0840 | 0.0749 g/100cc |
| | | | | | 0.0781 g/100cc |
| | | | | | g/100cc |
| Level 2 | Jul-23 | 1907007 | 0.2170 | 0.1953-0.2387 | 0.2121 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |
| **Multi-Component mixture:** | | | **Lot #** | FN06041902 | ok |
| **Curve Fit:** | | **Column 1** | 0.99990 | **Column2** | 0.99980 |

**Ethanol Calibration Reference Material**

| Calibrator level | Target Value | Acceptable Range | Column 1 | Column 2 | Precision | Mean |
|---|---|---|---|---|---|---|
| 50 | 0.050 | 0.045 - 0.055 | 0.0517 | 0.0525 | 0.001 | 0.0521 |
| 100 | 0.100 | 0.090 - 0.110 | 0.1003 | 0.1003 | 0.0000 | 0.1003 |
| 200 | 0.200 | 0.180 - 0.220 | 0.1982 | 0.1975 | 0.0007 | 0.1978 |
| 300 | 0.300 | 0.270 - 0.330 | 0.2980 | 0.2972 | 0.0008 | 0.2976 |
| 400 | 0.400 | 0.360 - 0.440 | | | 0 | #DIV/0! |
| 500 | 0.500 | 0.450 - 0.550 | 0.5016 | 0.5022 | 0.0006 | 0.5019 |

**Aqueous Controls**

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

REVIEWED
By RCutler at 10:29 am, Jul 28, 2021

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TS

# Calibration Table

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2021\07-26-21_TS\ALCOHOL.gcm
Batch File :C:\LabSolutions\Data\2021\07-26-21_TS\07-26-21_ts_post.gcb
Date Acquired :7/26/2021 10:52:26 AM
Date Created :7/26/2021 10:49:31 AM
Date Modified :7/27/2021 7:30:16 AM

Not Ready

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

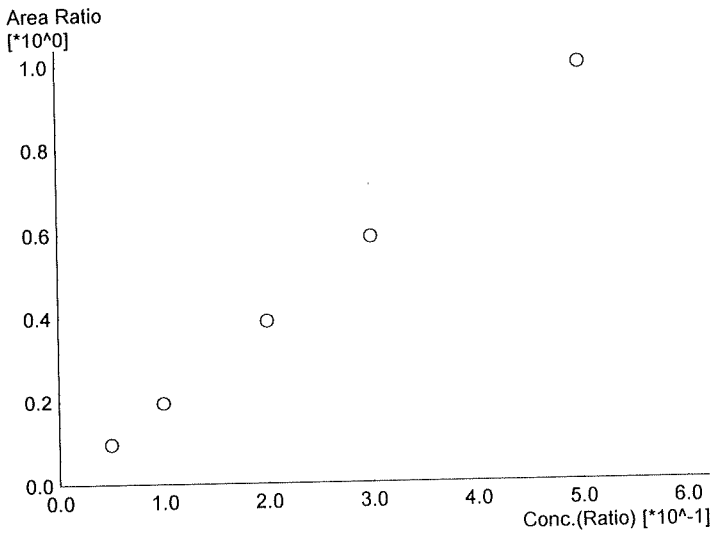
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

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

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

TS




Name : ETHANOL
Detector Name: FID1
Function : f(x)=1.99992*x-0.00777375
R^2 value= 0.9999010
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 15522 | 0.0517 |
| 2 | 0.100 | 32070 | 0.1003 |
| 3 | 0.200 | 63095 | 0.1982 |
| 4 | 0.300 | 97445 | 0.2980 |
| 5 | 0.500 | 167123 | 0.5016 |

Not Ready

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

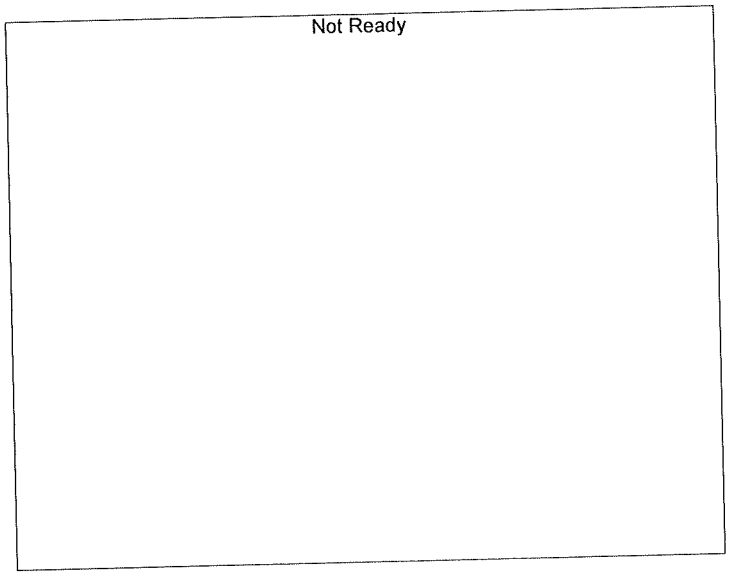
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

Not Ready

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

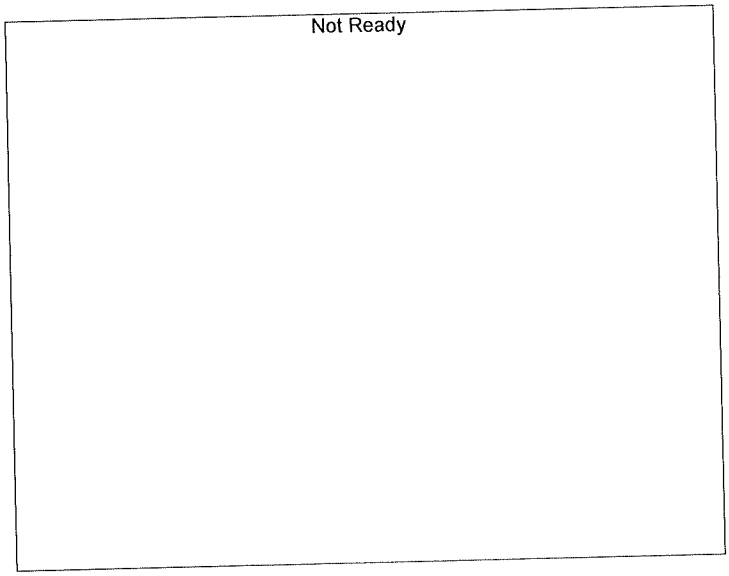
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

TS



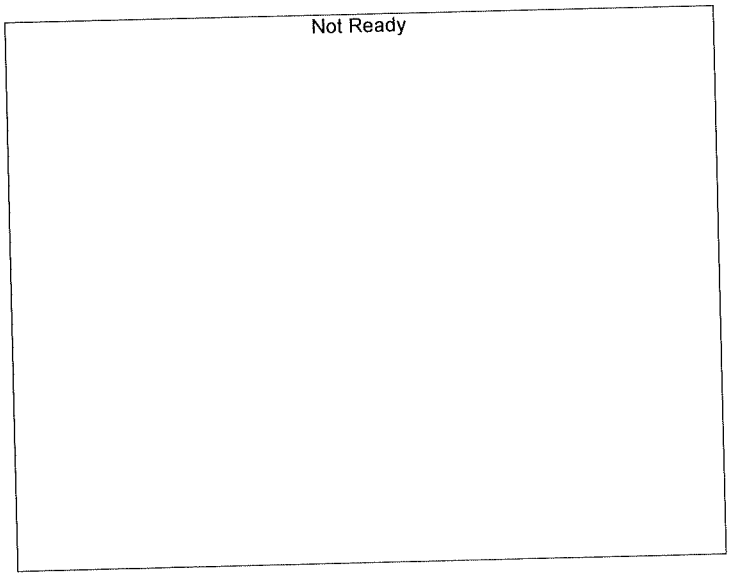

Name : DFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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




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

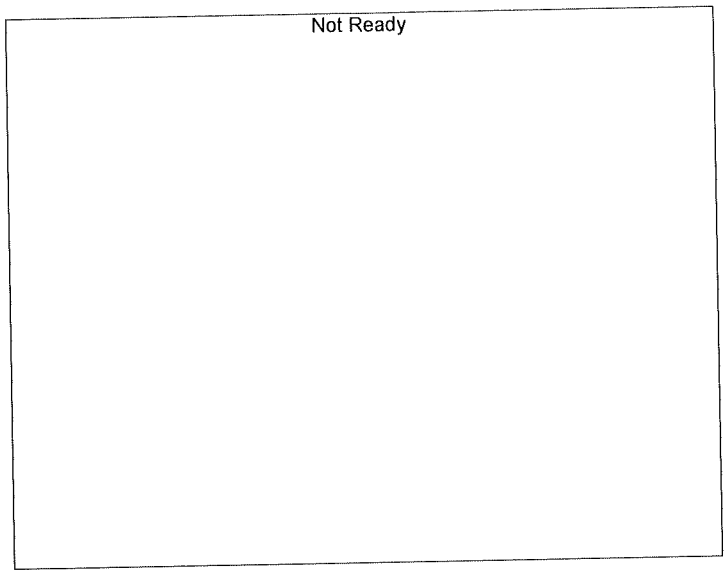
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|




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

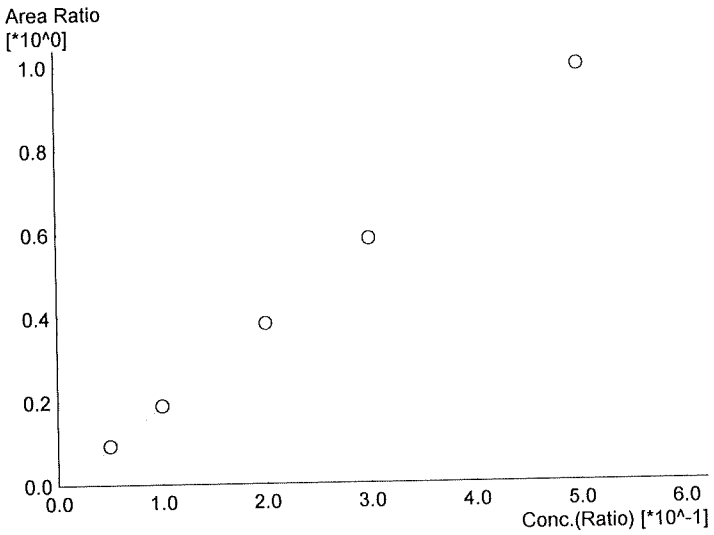
| # | Conc. | Area | Std. Conc. |
|---|---|---|---|

TS



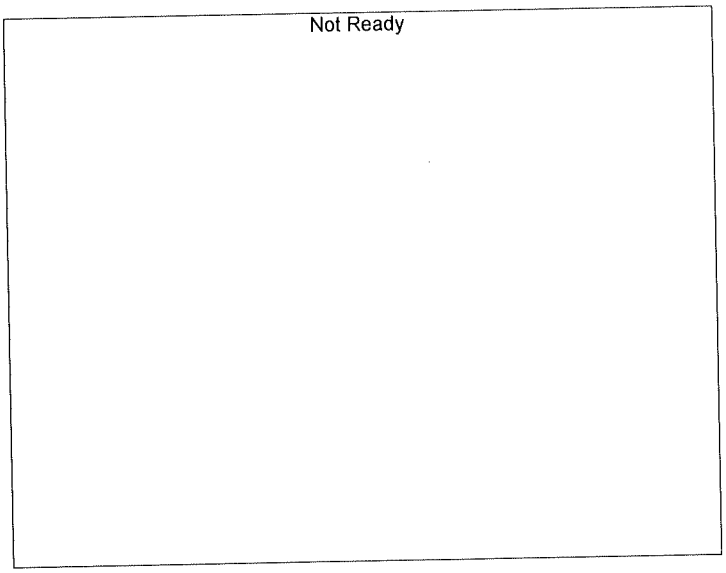

Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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




Name : ETHANOL
Detector Name: FID2
Function : f(x)=2.00537*x-0.0128128
R^2 value= 0.9998022
FitType: Linear
ZeroThrough: Not Through

| # | Conc. | Area | Std. Conc. |
|---|---|---|---|
| 1 | 0.050 | 15795 | 0.0525 |
| 2 | 0.100 | 32923 | 0.1003 |
| 3 | 0.200 | 65373 | 0.1975 |
| 4 | 0.300 | 101129 | 0.2972 |
| 5 | 0.500 | 174691 | 0.5022 |




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

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

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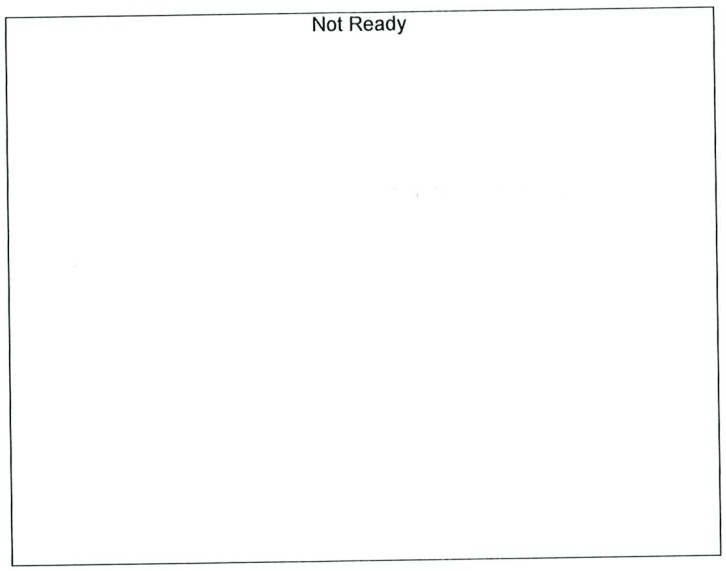
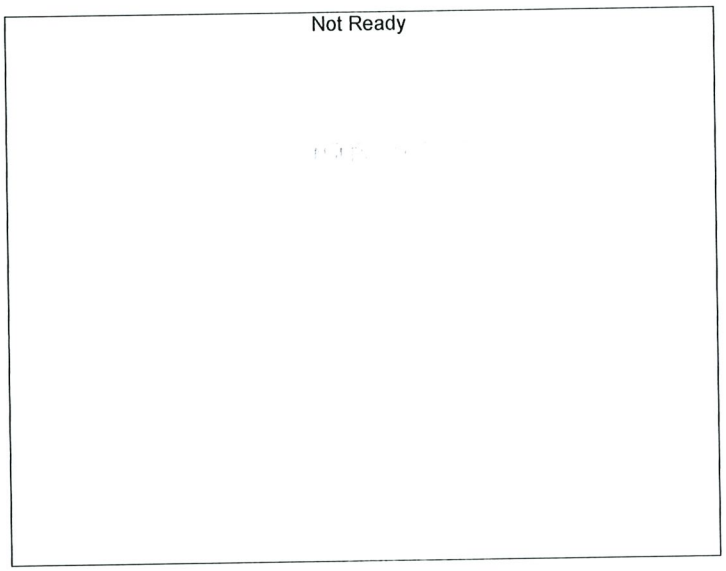


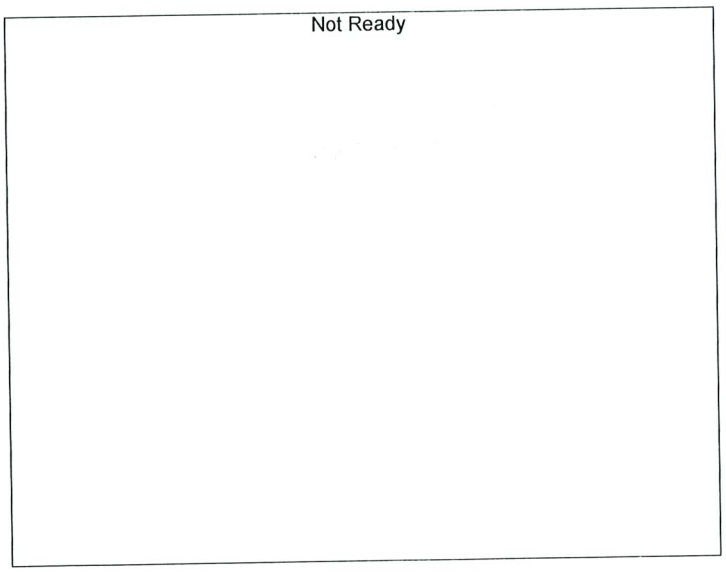

Name : ISOPROPYL ALCOHOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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




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

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

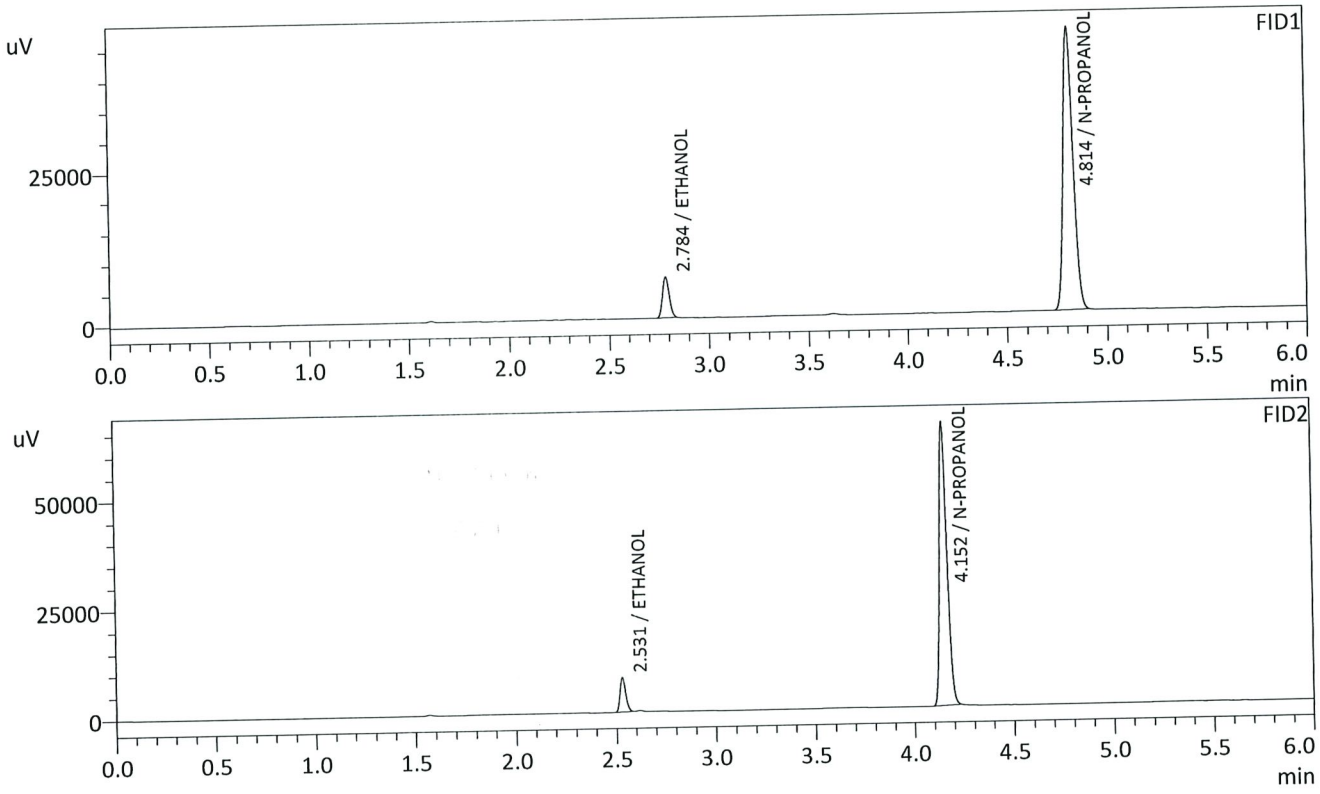



Name : TFE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

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

TS

Sample Name : 0.050
Vial # : 1
Data Filename : 0.050_7262021_001.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 10:17:06 AM
Date Processed : 7/27/2021 7:30:10 AM




FID1

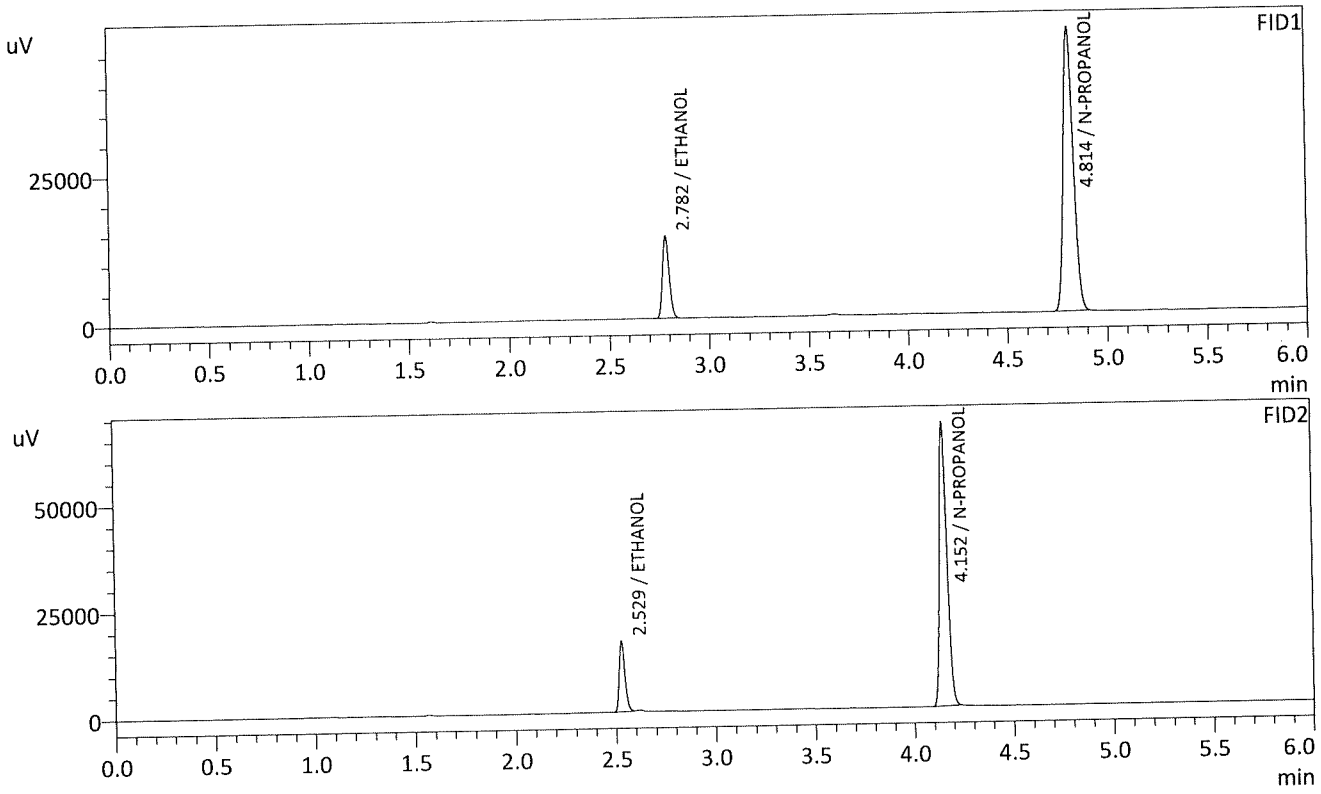
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0517 | g/100cc | 15522 | 6658 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 162202 | 46400 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0525 | g/100cc | 15795 | 7875 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 170647 | 64832 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

TS

Sample Name : 0.100
Vial # : 2
Data Filename : 0.100_7262021_002.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 10:25:44 AM
Date Processed : 7/27/2021 7:30:12 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1003 | g/100cc | 32070 | 13653 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 166251 | 47565 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.1003 | g/100cc | 32923 | 16349 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 174762 | 66479 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

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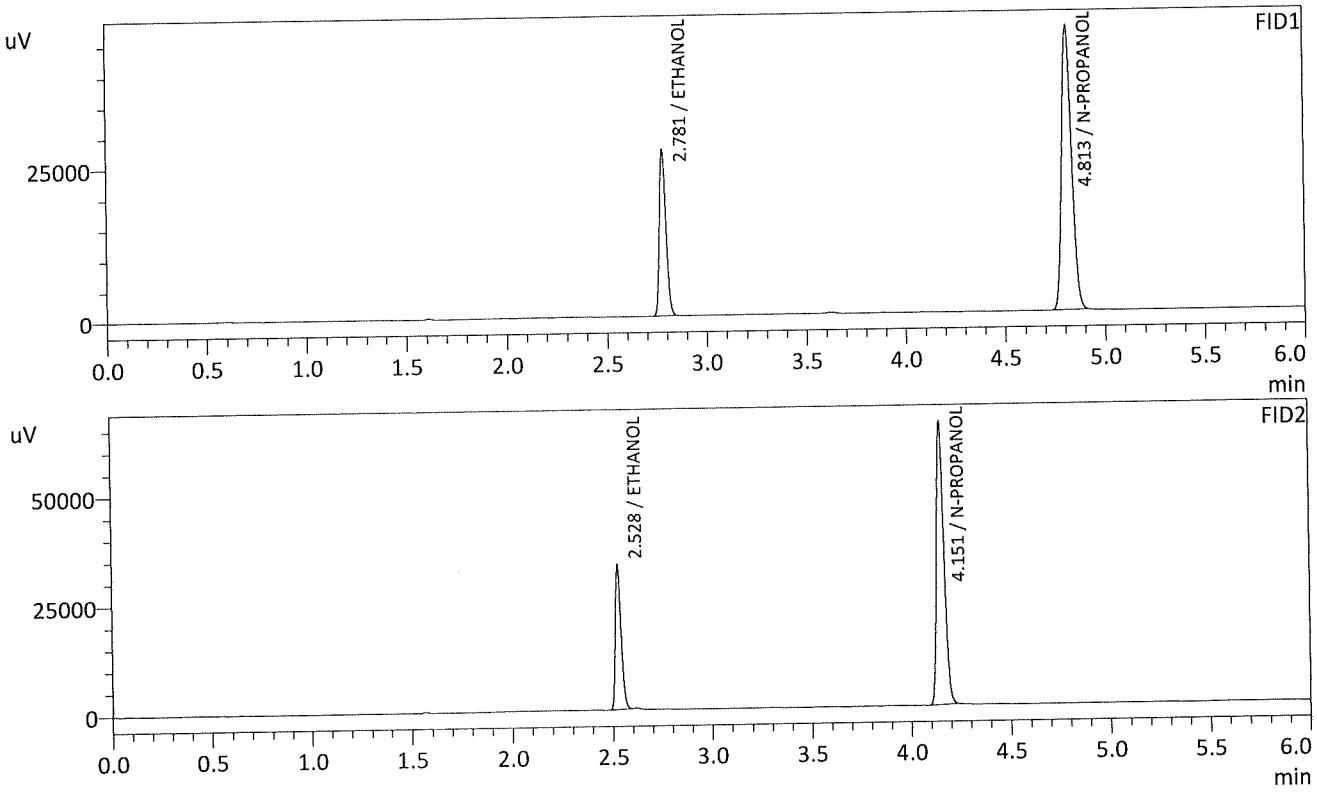
Sample Name : 0.200
Vial # : 3
Data Filename : 0.200_7262021_003.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 10:34:47 AM
Date Processed : 7/27/2021 7:30:13 AM



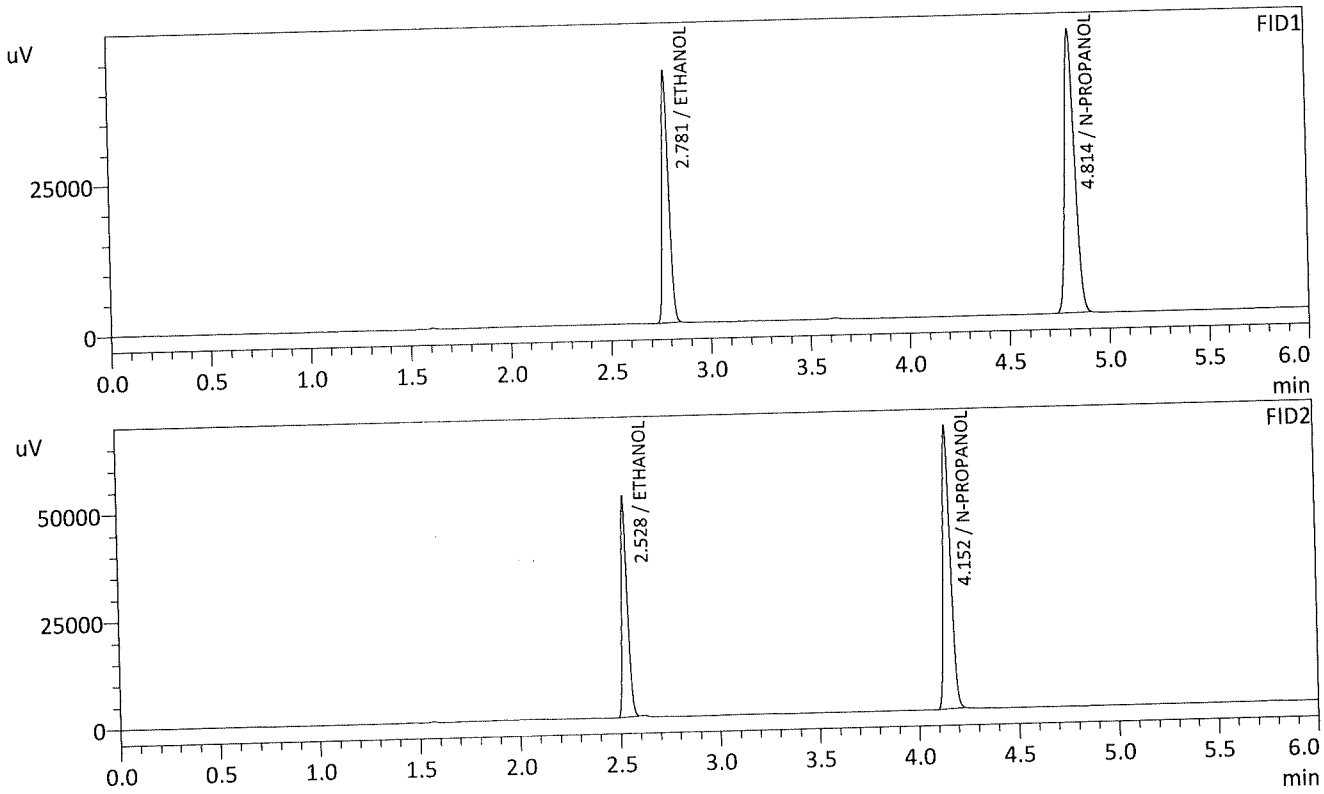

FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1982 | g/100cc | 63095 | 26946 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 162327 | 46394 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.1975 | g/100cc | 65373 | 33085 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 170513 | 64798 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

Sample Name : 0.300
Vial # : 4
Data Filename : 0.300_7262021_004.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 10:43:23 AM
Date Processed : 7/27/2021 7:30:15 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2980 | g/100cc | 97445 | 41671 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 165636 | 47261 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2972 | g/100cc | 101129 | 51294 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 173377 | 65941 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

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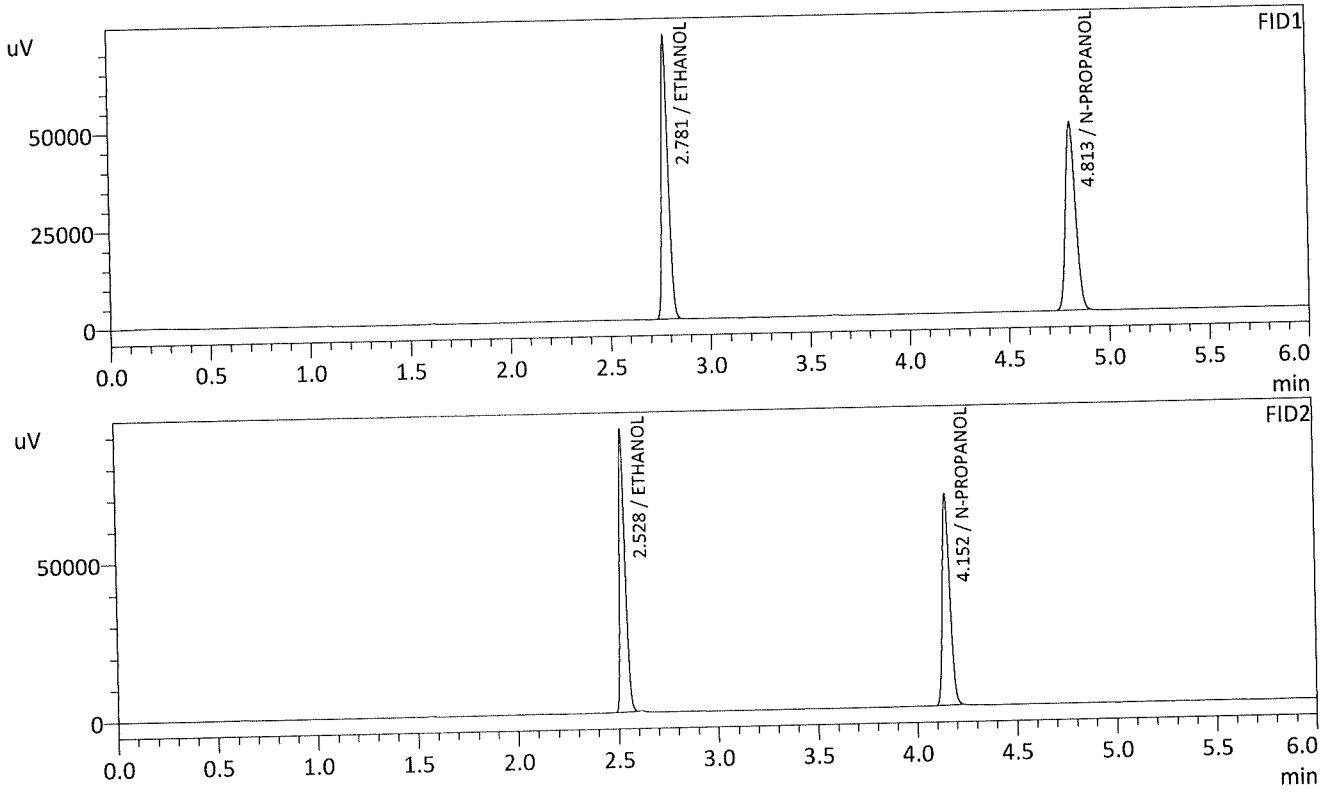
Sample Name : 0.500
Vial # : 5
Data Filename : 0.500_7262021_005.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 10:52:26 AM
Date Processed : 7/27/2021 7:30:16 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.5016 | g/100cc | 167123 | 72253 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 167888 | 48076 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.5022 | g/100cc | 174691 | 89471 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 175660 | 66867 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

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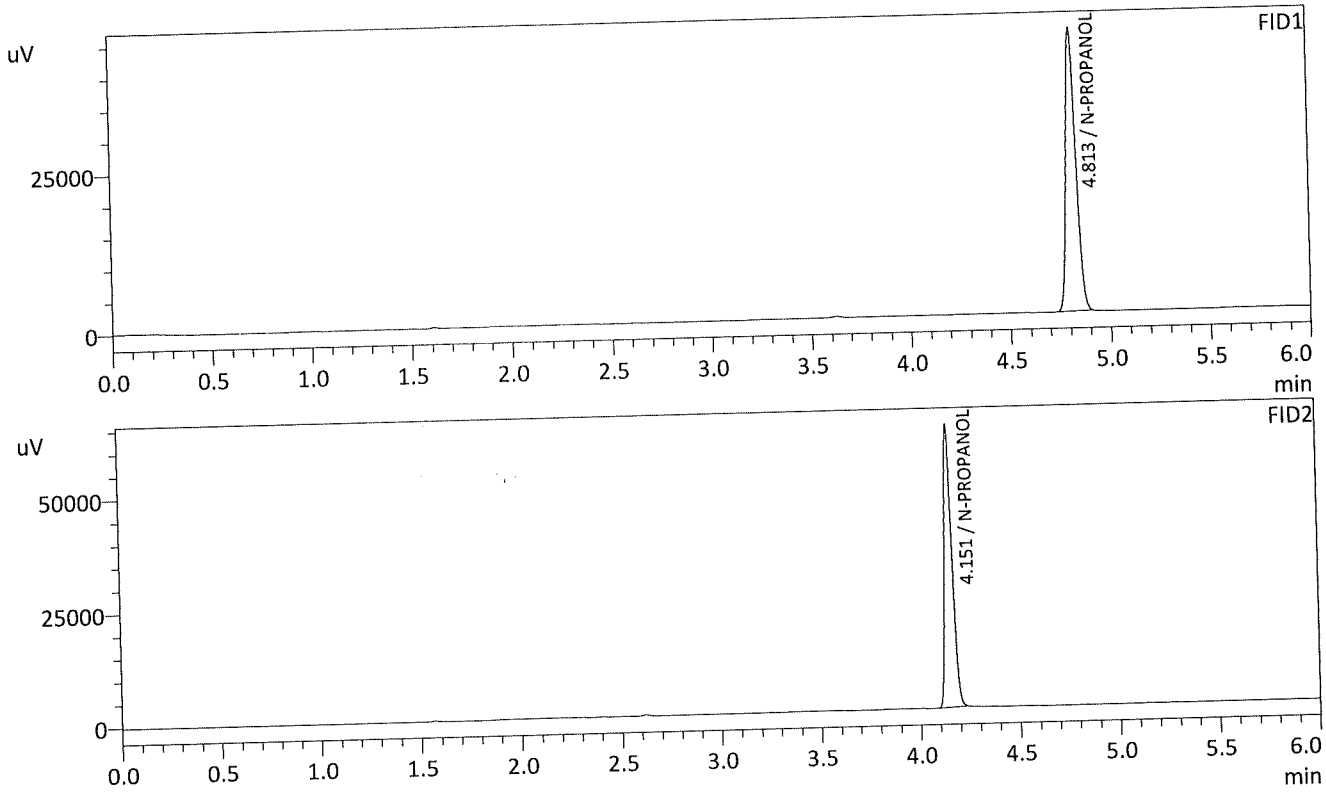
| | |
|---|---|
| Sample Name | : INT STD BLK 1 |
| Vial # | : 6 |
| Data Filename | : INT STD BLK 1_7262021_006.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 07-26-21_ts_post.gcb |
| Date Acquired | : 7/26/2021 11:01:07 AM |
| Date Processed | : 7/27/2021 7:30:19 AM |




FID1

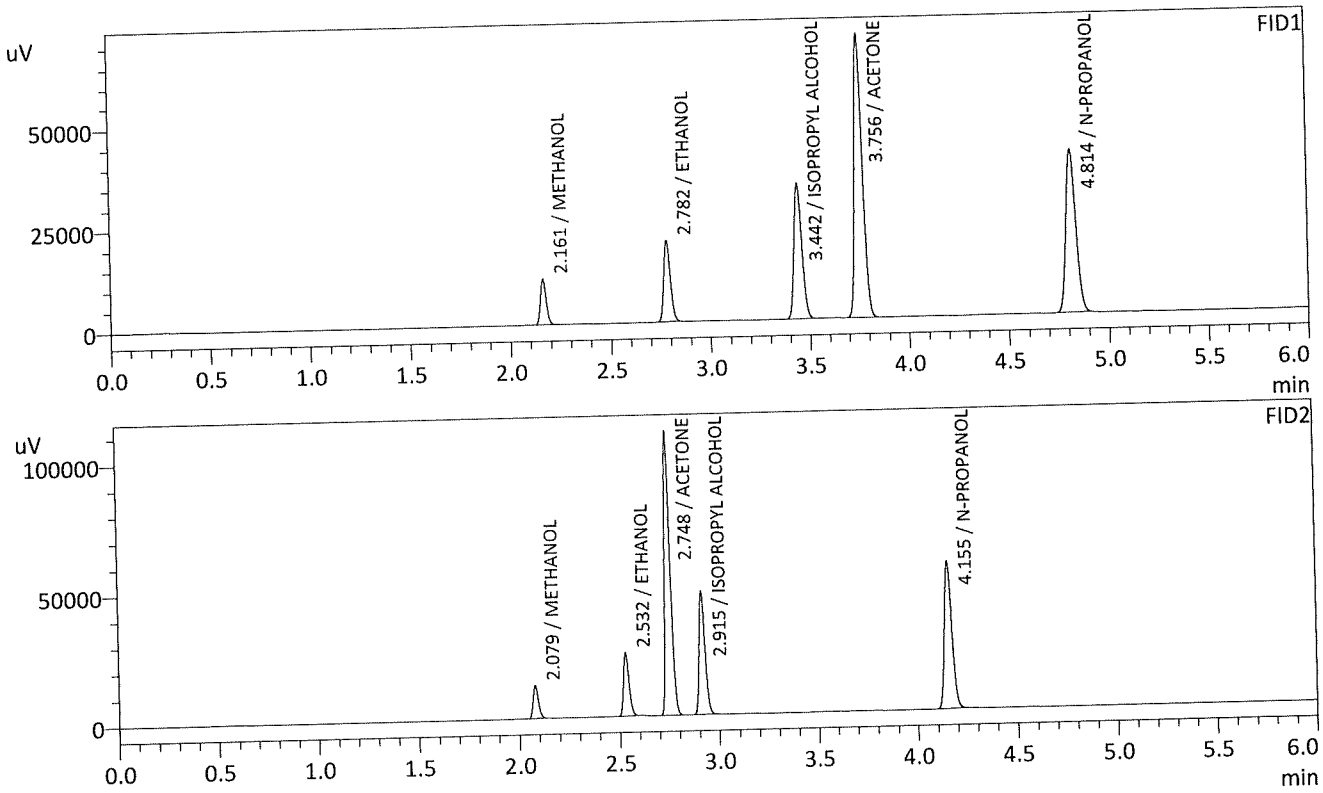
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 155767 | 44442 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 163518 | 62194 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : MULTI-COMP MIX
Vial # : 7
Data Filename : MULTI-COMP MIX_7262021_007.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:10:02 AM
Date Processed : 7/27/2021 7:30:20 AM




FID1

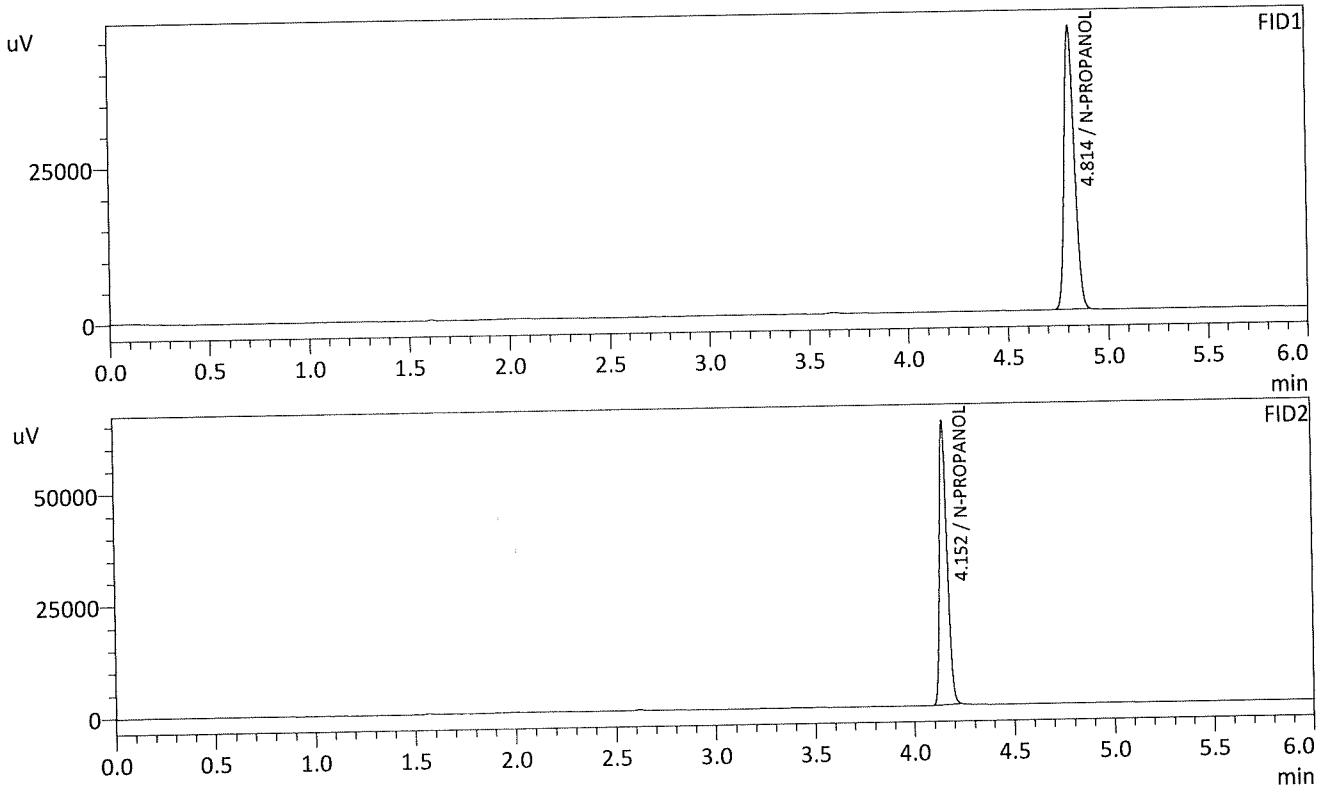
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | 0.0000 | g/100cc | 22532 | 11161 |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.1686 | g/100cc | 45848 | 19785 |
| ISOPROPYL ALCOHOL | 0.0000 | g/100cc | 91916 | 33358 |
| ACETONE | 0.0000 | g/100cc | 197297 | 69887 |
| N-PROPANOL | 0.0000 | g/100cc | 139149 | 40180 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | 0.0000 | g/100cc | 23110 | 12556 |
| ETHANOL | 0.1677 | g/100cc | 47426 | 24349 |
| ACETONE | 0.0000 | g/100cc | 212701 | 107882 |
| ISOPROPYL ALCOHOL | 0.0000 | g/100cc | 97245 | 47142 |
| N-PROPANOL | 0.0000 | g/100cc | 146577 | 56251 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

 TS

Sample Name : INT STD BLK 2
Vial # : 8
Data Filename : INT STD BLK 2_7262021_008.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:18:51 AM
Date Processed : 7/27/2021 7:30:21 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 158374 | 45417 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 166679 | 63445 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-1** **Analysis Date(s): 07/26/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0747 | 0.0748 | 0.0001 | 0.0747 | 0.0003 | 0.0749 |
| (g/100cc) | 0.0751 | 0.0750 | 0.0001 | 0.0750 | | |

**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%**

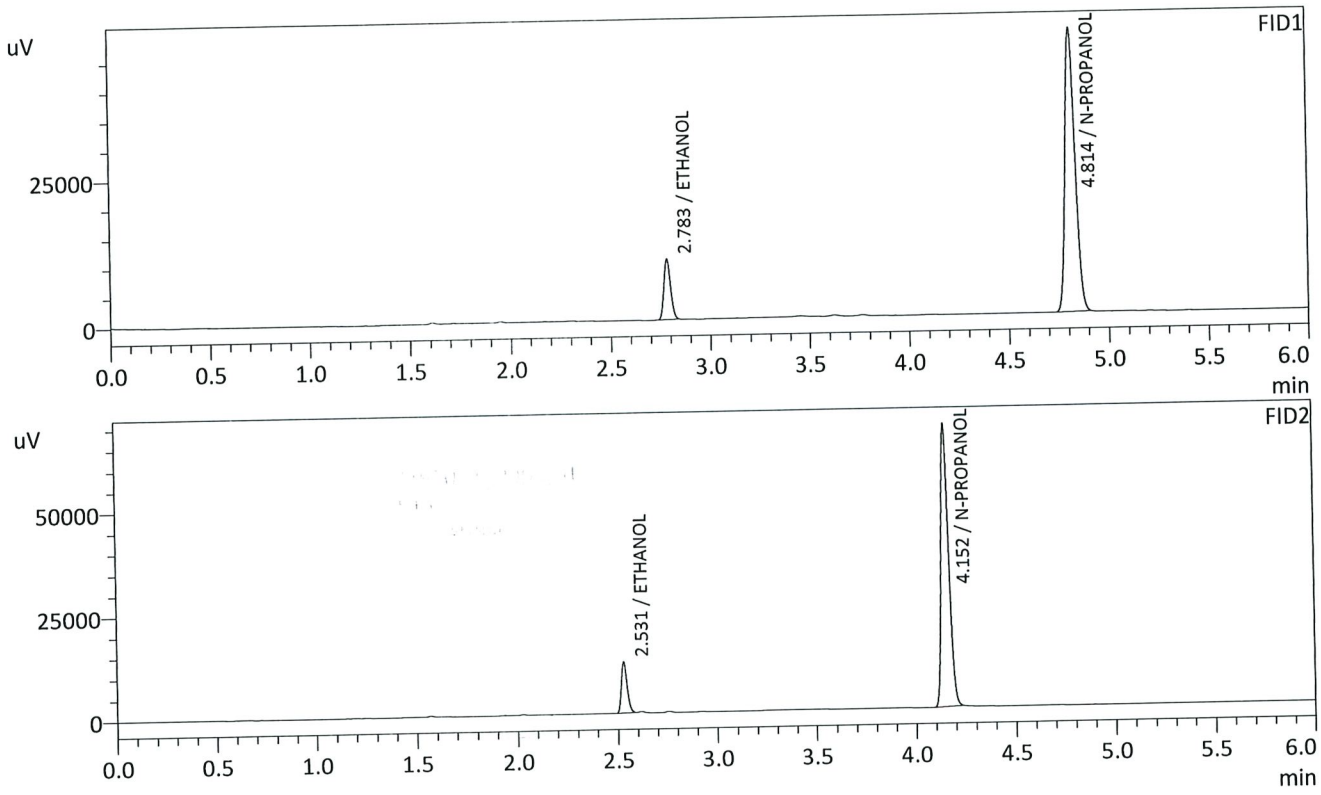
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.074 | 0.070 | 0.078 | 0.004 |

| | Reported Result | |
|---|---|---|
| | 0.074 | |

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

15

Sample Name : QC-1-1-A
Vial # : 9
Data Filename : QC-1-1-A_7262021_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:28:01 AM
Date Processed : 7/27/2021 7:30:23 AM




FID1

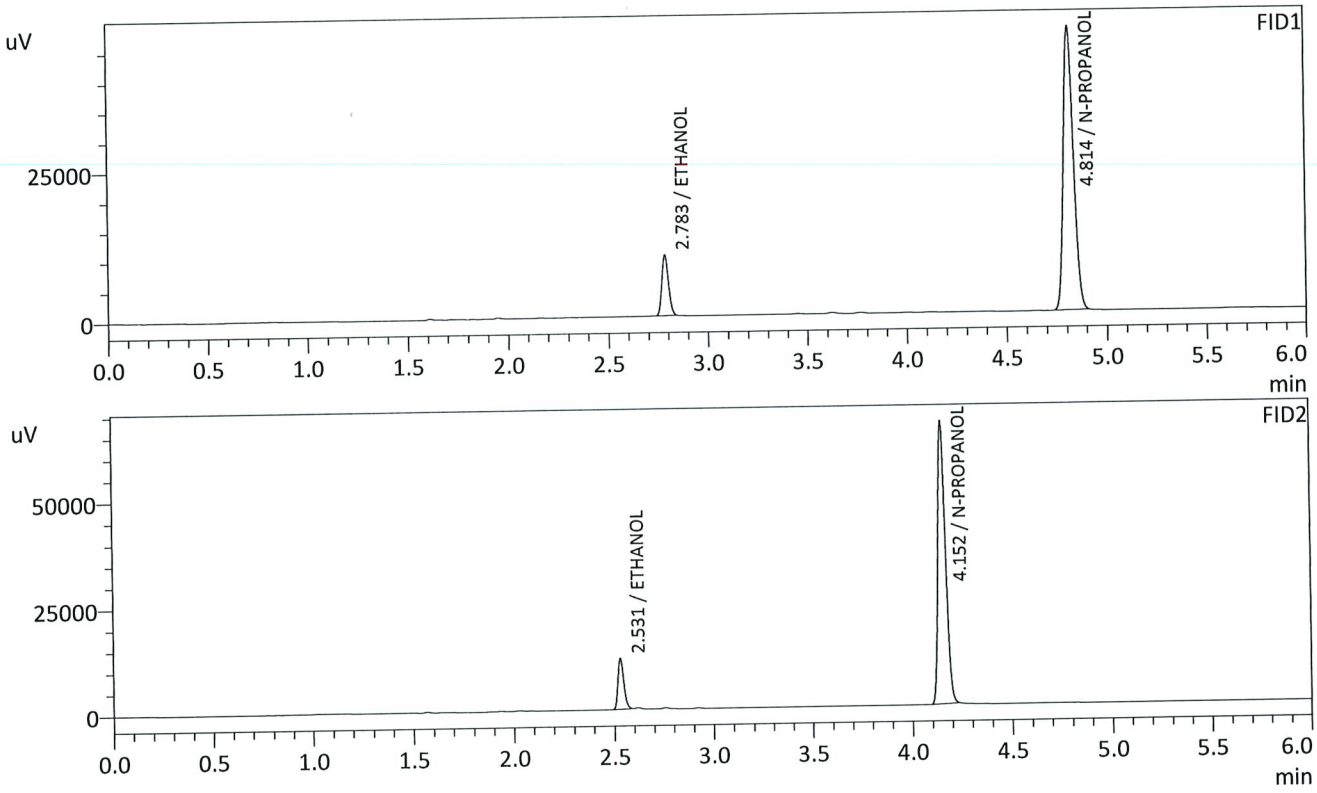
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0747 | g/100cc | 24037 | 10260 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 169573 | 48360 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0748 | g/100cc | 24473 | 12179 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 178286 | 68028 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : QC-1-1-B
Vial # : 10
Data Filename : QC-1-1-B_7262021_010.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:36:50 AM
Date Processed : 7/27/2021 7:30:24 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0751 | g/100cc | 23722 | 10096 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 166379 | 47537 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0750 | g/100cc | 24076 | 12006 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 174895 | 66401 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 QA** **Analysis Date(s): 07/26/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0817 | 0.0817 | 0.0000 | 0.0817 | 0.0001 | 0.0816 |
| (g/100cc) | 0.0818 | 0.0815 | 0.0003 | 0.0816 | | |

**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 |

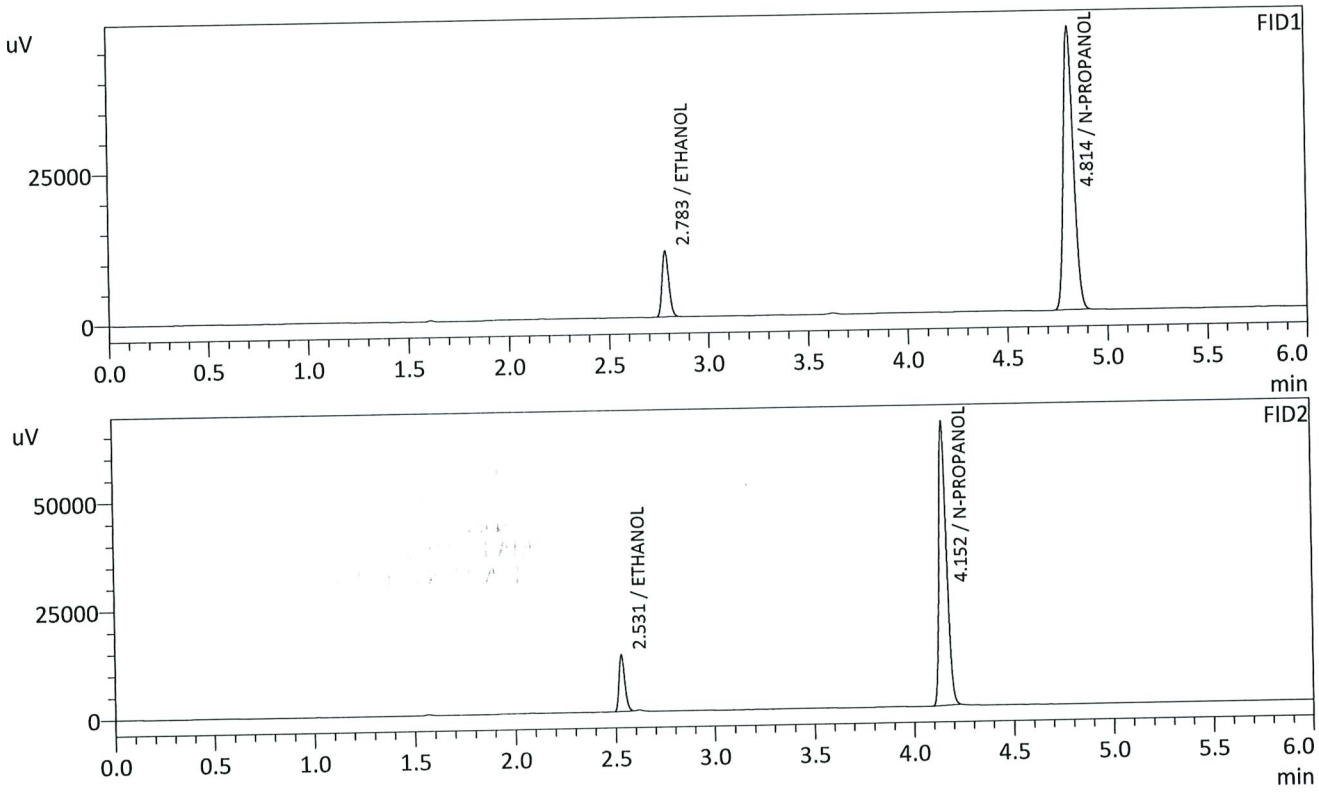
**Reported Result**

**0.081**

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

15

Sample Name : 0.08 QA - A
Vial # : 11
Data Filename : 0.08 QA - A_7262021_011.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:45:31 AM
Date Processed : 7/27/2021 7:30:25 AM




FID1

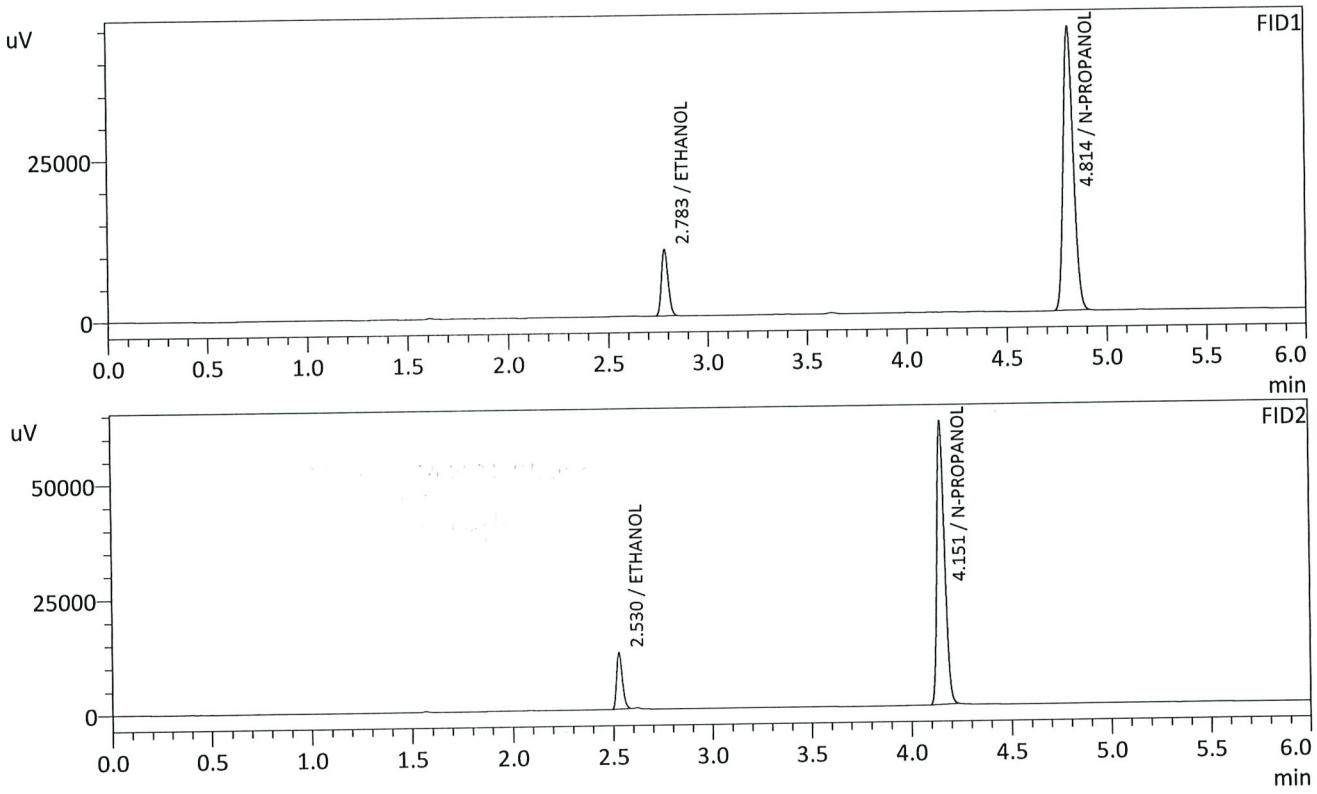
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0817 | g/100cc | 25565 | 10894 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 164203 | 46914 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0817 | g/100cc | 26027 | 12956 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 172290 | 65395 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : 0.08 QA - B
Vial # : 12
Data Filename : 0.08 QA - B_7262021_012.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 11:54:49 AM
Date Processed : 7/27/2021 7:30:27 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0818 | g/100cc | 23898 | 10246 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 153290 | 44022 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0815 | g/100cc | 24330 | 12109 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 161405 | 61728 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC2-1** **Analysis Date(s): 07/26/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.2133 | 0.2118 | 0.0015 | 0.2125 | 0.0008 | 0.2121 |
| (g/100cc) | 0.2126 | 0.2108 | 0.0018 | 0.2117 | | |

**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

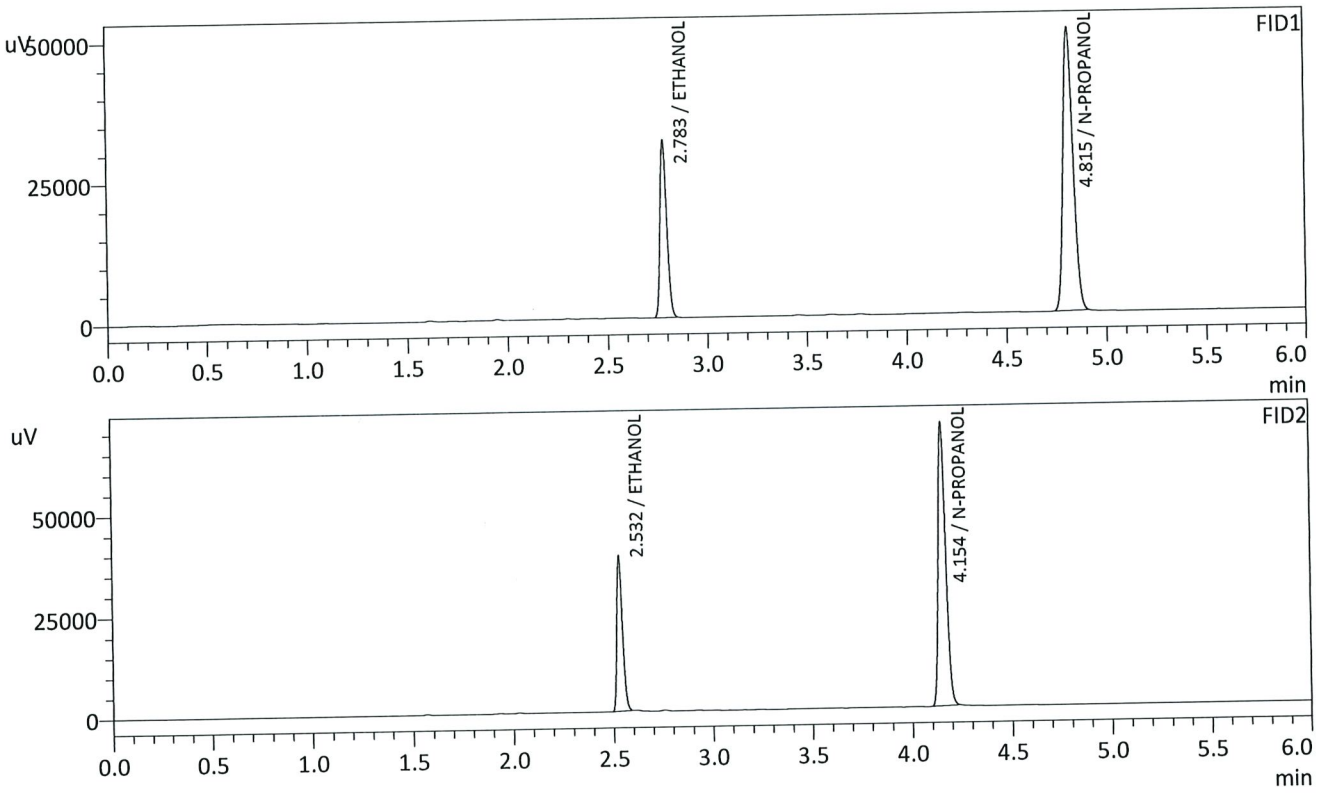
**Reporting of Results** **Uncertainty of Measurement (UM%): 5.00%**

| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.212 | 0.201 | 0.223 | 0.011 |

| | Reported Result | |
|---|---|---|
| | 0.212 | |

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

| | |
|---|---|
| Sample Name | : QC2-1-A |
| Vial # | : 31 |
| Data Filename | : QC2-1-A_7262021_031.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 07-26-21_ts_post.gcb |
| Date Acquired | : 7/26/2021 2:42:32 PM |
| Date Processed | : 7/27/2021 7:31:00 AM |




FID1

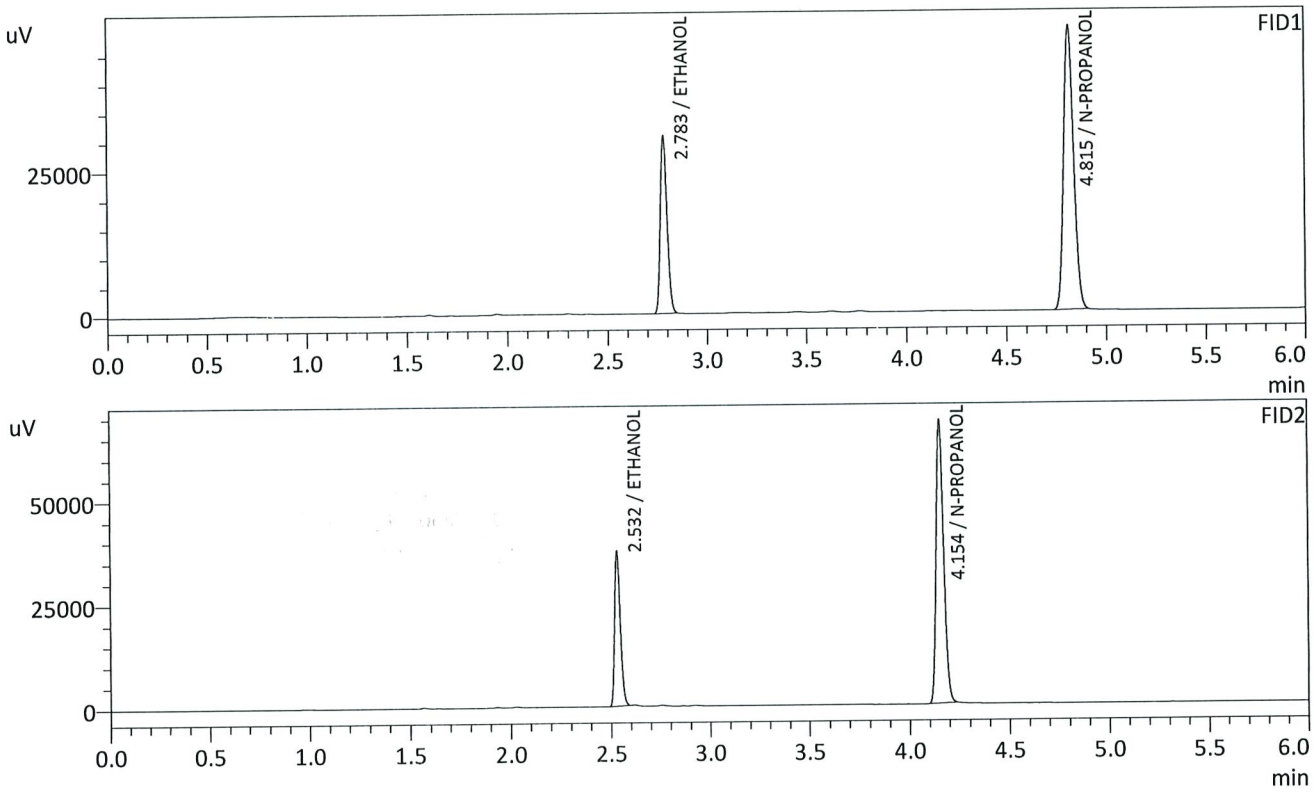
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2133 | g/100cc | 73496 | 31377 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 175410 | 50198 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2118 | g/100cc | 75680 | 38338 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 183673 | 69679 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : QC2-1-B
Vial # : 32
Data Filename : QC2-1-B_7262021_032.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 2:51:27 PM
Date Processed : 7/27/2021 7:31:02 AM




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.2126 | g/100cc | 71663 | 30597 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 171661 | 48973 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.2108 | g/100cc | 73700 | 37267 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 179782 | 67778 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC1-2** **Analysis Date(s): 07/26/2021**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Sample A-B Difference | Over-all Mean |
|---|---|---|---|---|---|---|
| Sample Results | 0.0783 | 0.0776 | 0.0007 | 0.0779 | 0.0004 | 0.0781 |
| (g/100cc) | 0.0785 | 0.0781 | 0.0004 | 0.0783 | | |

**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%**

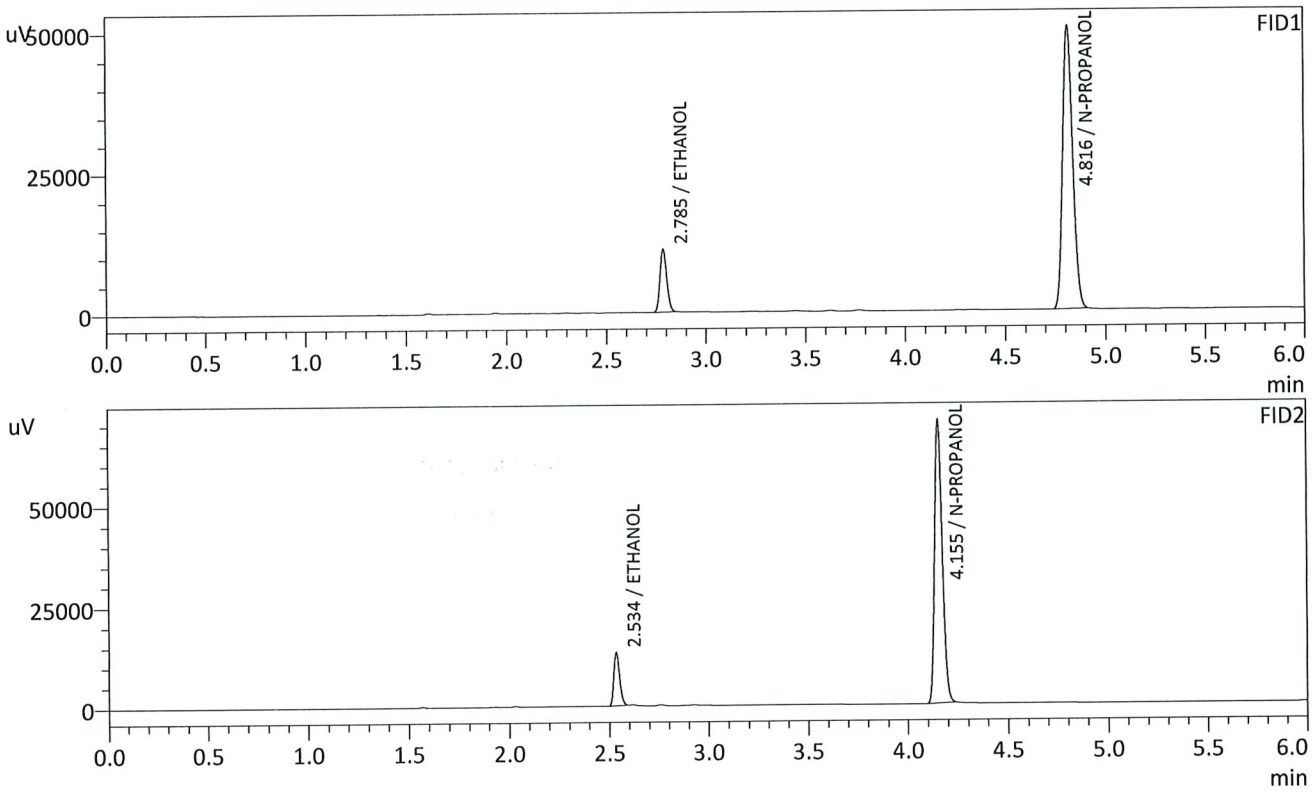
| Overall Mean (g/100cc) | Low | High | 5% of Mean |
|---|---|---|---|
| 0.078 | 0.074 | 0.082 | 0.004 |

| Reported Result |
|---|
| 0.078 |

*Calibration and control data are stored centrally.*

15

Sample Name : QC1-2-A
Vial # : 47
Data Filename : QC1-2-A_7262021_047.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 5:03:58 PM
Date Processed : 7/27/2021 7:31:27 AM




FID1

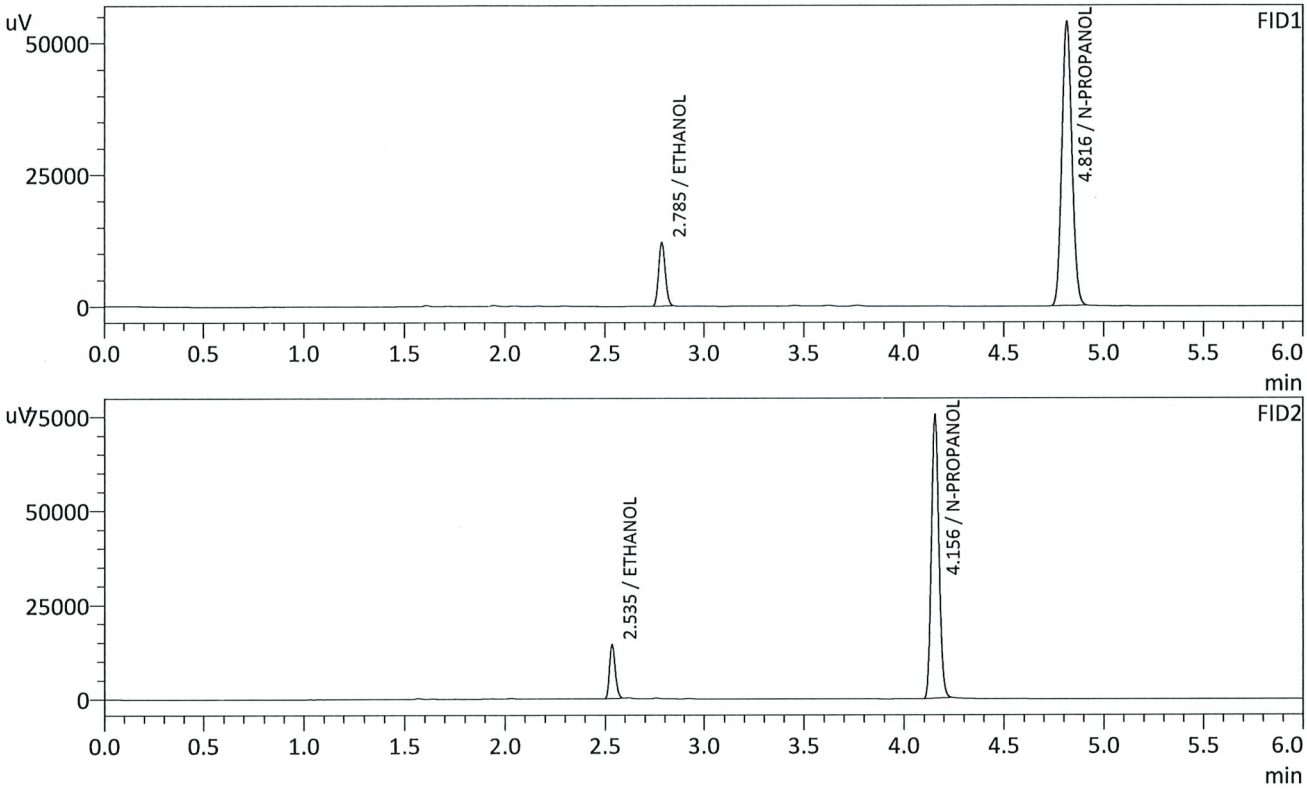
| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0783 | g/100cc | 26210 | 11155 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 176005 | 50147 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0776 | g/100cc | 26383 | 13028 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 184541 | 70204 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

Sample Name : QC1-2-B
Vial # : 48
Data Filename : QC1-2-B_7262021_048.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 07-26-21_ts_post.gcb
Date Acquired : 7/26/2021 5:12:35 PM
Date Processed : 7/27/2021 7:31:28 AM



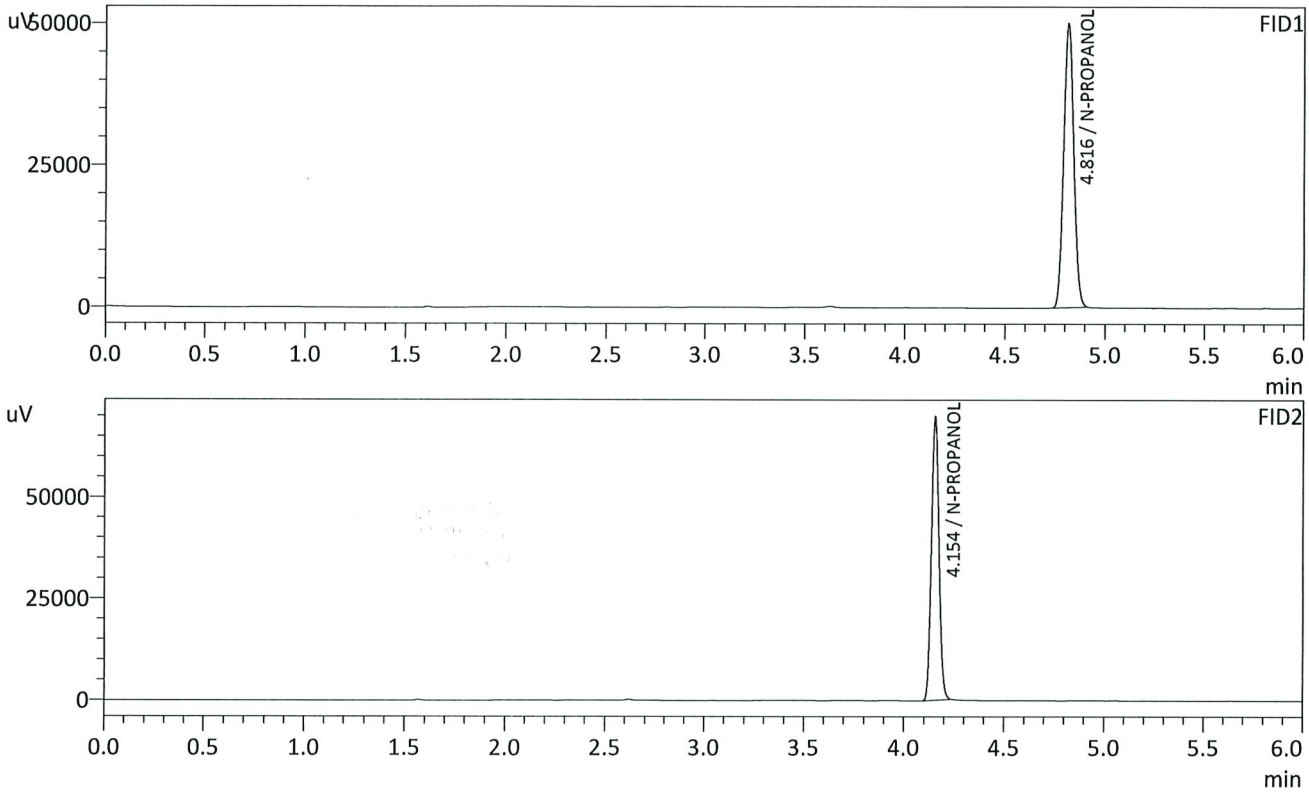

FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | 0.0785 | g/100cc | 28185 | 11981 |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 188804 | 53713 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | 0.0781 | g/100cc | 28429 | 14061 |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 197573 | 75240 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

| | |
|---|---|
| Sample Name | : INT STD BLK 3 |
| Vial # | : 49 |
| Data Filename | : INT STD BLK 3_7262021_049.gcd |
| Method Filename | : ALCOHOL.gcm |
| Batch Filename | : 07-26-21_ts_post.gcb |
| Date Acquired | : 7/26/2021 5:21:25 PM |
| Date Processed | : 7/27/2021 7:31:30 AM |




FID1

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| METHANOL | -- | g/100cc | -- | -- |
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 174741 | 49801 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

FID2

| Name | Conc. | Unit | Area | Height |
|---|---|---|---|---|
| ACETALDEHYDE | -- | g/100cc | -- | -- |
| METHANOL | -- | g/100cc | -- | -- |
| ETHANOL | -- | g/100cc | -- | -- |
| ACETONE | -- | g/100cc | -- | -- |
| ISOPROPYL ALCOHOL | -- | g/100cc | -- | -- |
| N-PROPANOL | 0.0000 | g/100cc | 183443 | 69473 |
| DFE | -- | g/100cc | -- | -- |
| TFE | -- | g/100cc | -- | -- |

15

# Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662
Shimadzu HS-20 Serial Number: C12595700014
LabSolutions Version 5.98


| Vial# | Sample Name | Sample Type | Method File | Data File | Level# |
|---|---|---|---|---|---|
| 1 | 0.050 | 1:Standard:(I) | ALCOHOL.gcm | 0.050_7262021_001.gcd | 1 |
| 2 | 0.100 | 1:Standard:(R) | ALCOHOL.gcm | 0.100_7262021_002.gcd | 2 |
| 3 | 0.200 | 1:Standard:(R) | ALCOHOL.gcm | 0.200_7262021_003.gcd | 3 |
| 4 | 0.300 | 1:Standard:(R) | ALCOHOL.gcm | 0.300_7262021_004.gcd | 4 |
| 5 | 0.500 | 1:Standard:(R) | ALCOHOL.gcm | 0.500_7262021_005.gcd | 5 |
| 6 | INT STD BLK 1 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 1_7262021_006.gcd | 0 |
| 7 | MULTI-COMP MIX | 0:Unknown | ALCOHOL.gcm | MULTI-COMP MIX_7262021_007.gcd | 1 |
| 8 | INT STD BLK 2 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 2_7262021_008.gcd | 0 |
| 9 | QC-1-1-A | 0:Unknown | ALCOHOL.gcm | QC-1-1-A_7262021_009.gcd | 0 |
| 10 | QC-1-1-B | 0:Unknown | ALCOHOL.gcm | QC-1-1-B_7262021_010.gcd | 0 |
| 11 | 0.08 QA - A | 0:Unknown | ALCOHOL.gcm | 0.08 QA - A_7262021_011.gcd | 0 |
| 12 | 0.08 QA - B | 0:Unknown | ALCOHOL.gcm | 0.08 QA - B_7262021_012.gcd | 0 |
| 13 | P2021-2114-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2114-1-A_7262021_013.gcd | 0 |
| 14 | P2021-2114-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2114-1-B_7262021_014.gcd | 0 |
| 15 | P2021-2129-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2129-1-A_7262021_015.gcd | 0 |
| 16 | P2021-2129-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2129-1-B_7262021_016.gcd | 0 |
| 17 | P2021-2182-3-A | 0:Unknown | ALCOHOL.gcm | P2021-2182-3-A_7262021_017.gcd | 0 |
| 18 | P2021-2182-3-B | 0:Unknown | ALCOHOL.gcm | P2021-2182-3-B_7262021_018.gcd | 0 |
| 19 | P2021-2187-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2187-1-A_7262021_019.gcd | 0 |
| 20 | P2021-2187-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2187-1-B_7262021_020.gcd | 0 |
| 21 | P2021-2190-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2190-1-A_7262021_021.gcd | 0 |
| 22 | P2021-2190-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2190-1-B_7262021_022.gcd | 0 |
| 23 | P2021-2202-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2202-1-A_7262021_023.gcd | 0 |
| 24 | P2021-2202-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2202-1-B_7262021_024.gcd | 0 |
| 25 | P2021-2205-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2205-1-A_7262021_025.gcd | 0 |
| 26 | P2021-2205-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2205-1-B_7262021_026.gcd | 0 |
| 27 | P2021-2206-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2206-1-A_7262021_027.gcd | 0 |
| 28 | P2021-2206-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2206-1-B_7262021_028.gcd | 0 |
| 29 | P2021-2207-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2207-1-A_7262021_029.gcd | 0 |
| 30 | P2021-2207-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2207-1-B_7262021_030.gcd | 0 |
| 31 | QC2-1-A | 0:Unknown | ALCOHOL.gcm | QC2-1-A_7262021_031.gcd | 0 |
| 32 | QC2-1-B | 0:Unknown | ALCOHOL.gcm | QC2-1-B_7262021_032.gcd | 0 |
| 33 | P2021-2209-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2209-1-A_7262021_033.gcd | 0 |
| 34 | P2021-2209-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2209-1-B_7262021_034.gcd | 0 |
| 35 | P2021-2210-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2210-1-A_7262021_035.gcd | 0 |
| 36 | P2021-2210-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2210-1-B_7262021_036.gcd | 0 |
| 37 | P2021-2282-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2282-1-A_7262021_037.gcd | 0 |
| 38 | P2021-2282-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2282-1-B_7262021_038.gcd | 0 |
| 39 | P2021-2283-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2283-1-A_7262021_039.gcd | 0 |
| 40 | P2021-2283-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2283-1-B_7262021_040.gcd | 0 |
| 41 | P2021-2358-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2358-1-A_7262021_041.gcd | 0 |
| 42 | P2021-2358-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2358-1-B_7262021_042.gcd | 0 |
| 43 | P2021-2366-2-A | 0:Unknown | ALCOHOL.gcm | P2021-2366-2-A_7262021_043.gcd | 0 |
| 44 | P2021-2366-2-B | 0:Unknown | ALCOHOL.gcm | P2021-2366-2-B_7262021_044.gcd | 0 |
| 45 | P2021-2368-1-A | 0:Unknown | ALCOHOL.gcm | P2021-2368-1-A_7262021_045.gcd | 0 |
| 46 | P2021-2368-1-B | 0:Unknown | ALCOHOL.gcm | P2021-2368-1-B_7262021_046.gcd | 0 |
| 47 | QC1-2-A | 0:Unknown | ALCOHOL.gcm | QC1-2-A_7262021_047.gcd | 0 |
| 48 | QC1-2-B | 0:Unknown | ALCOHOL.gcm | QC1-2-B_7262021_048.gcd | 0 |
| 49 | INT STD BLK 3 | 0:Unknown | ALCOHOL.gcm | INT STD BLK 3_7262021_049.gcd | 0 |