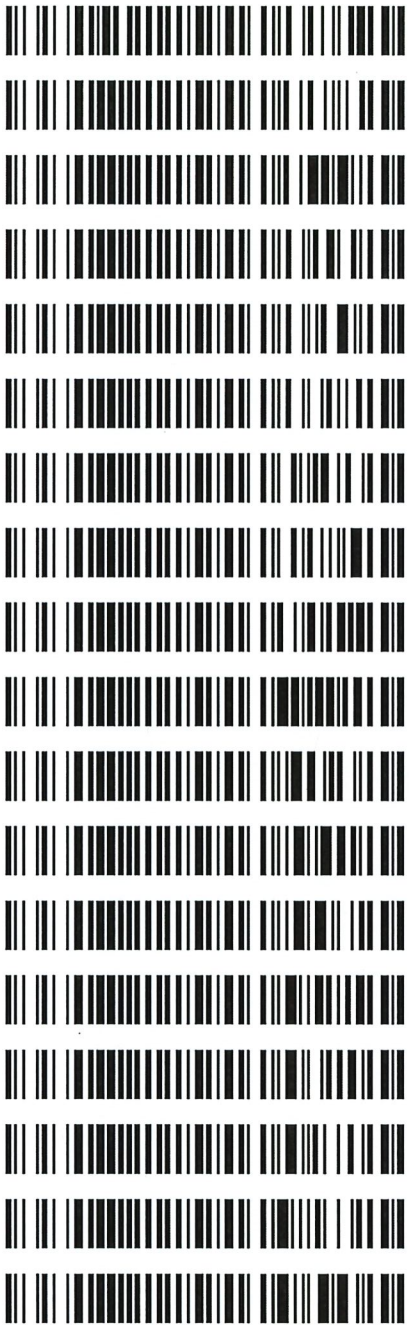
REVIEWED
By Anne Nord at 3:15 pm, Jun 02, 2022

TS 6/1/2022

Worklist: 5940

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2022-1560	3	BCK	Alcohol Analysis
P2022-1181	1	BCK	Alcohol Analysis
P2022-1182	1	BCK	Alcohol Analysis
P2022-1195	1	BCK	Alcohol Analysis
P2022-1200	1	BCK	Alcohol Analysis
P2022-1201	1	BCK	Alcohol Analysis
P2022-1209	1	BCK	Alcohol Analysis
P2022-1220	1	BCK	Alcohol Analysis
P2022-1224	1	BCK	Alcohol Analysis
P2022-1248	1	BCK	Alcohol Analysis
P2022-1273	1	BCK	Alcohol Analysis
P2022-1292	1	BCK	Alcohol Analysis
P2022-1294	1	BCK	Alcohol Analysis
P2022-1320	1	BCK	Alcohol Analysis
P2022-1324	1	BCK	Alcohol Analysis
P2022-1325	1	BCK	Alcohol Analysis
P2022-1335	1	BCK	Alcohol Analysis
P2022-1348	1	BCK	Alcohol Analysis



Case sample P2022-1111-1 from worklist 5792 was included with this run.

TS 06/02/2022

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):** **5/31/22**

Calibration Date: *(if different)*

Worklist #: **5940**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0714 g/100cc
					0.0772 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2112 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	Exp:	Oct-24	Lot #	FN06041902	ok
Curve Fit:		Column 1	0.99996	Column2	0.99990

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0513	0.0521	0.0008	0.0517
100	0.100	0.090 - 0.110	0.0996	0.0995	1E-04	0.0995
200	0.200	0.180 - 0.220	0.1989	0.1983	0.0006	0.1986
300	0.300	0.270 - 0.330	0.2991	0.2984	0.0007	0.2987
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5008	0.5014	0.0006	0.5011

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	173267.1	138613.7	207920.5

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.079 g/100cc

Internal Standard Monitoring Worksheet

Worklist #:	5940	Run Date(s):	5/31/22

Internal Standard Solution: 052022	Prep Date: 05/20/22	Exp Date: 11/20/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	165176	175989	170582.5
0.080	166616	177526	172071
QC1	169105	179926	174515.5
QC1	167301	178183	172742
QC1	172383	183583	177983
QC1	176360	187904	182132
QC1			#DIV/0!
QC1			#DIV/0!
QC2	162014	171738	166876
QC2	164229	174240	169234.5
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
173267.1	138613.7	207920.5

TS

Idaho State Police
Forensic Services

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM): **BLA-22-01**

Date of Request: **1/21/2022**

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

Analytical Method/Quality Standard, Revision #: AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

> 4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:
The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review

☒ Departure approved
Comments: Forms will be updated to reflect the new process concurrent with the deviation.

☐ Departure Not Approved
Comments:

Approver: Date: 1/21/22
Title: Discipline Lead

Quality Review

Quality Approver: Jason Crowe
Title: Quality Manager
Date: 01/24/2022

TS

Calibration Table

Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Data File>>
Method File :C:\LabSolutions\Data\2022\5-31-22 TS\ALCOHOL.gcm
Batch File :C:\LabSolutions\Data\2022\5-31-22 TS\05-31-22 TS.gcb
Date Acquired :5/31/2022 11:27:23 AM
Date Created :5/31/2022 11:23:58 AM
Date Modified :6/1/2022 2:49:56 PM

Not Ready

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

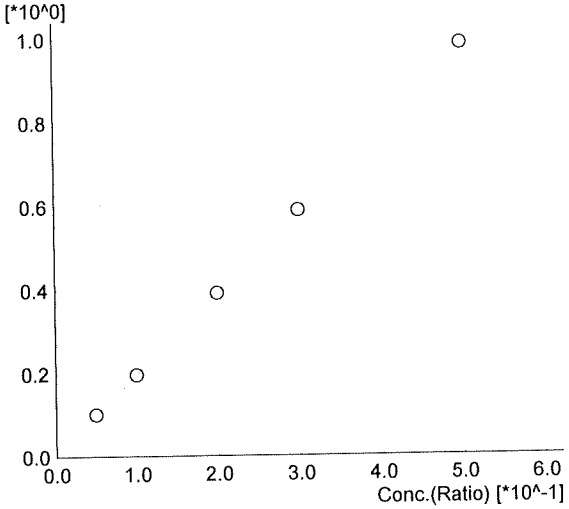
#	Conc.	Area	Std. Conc.	Data File Name

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.	Data File Name

Name : ETHANOL
Detector Name: FID1
Function : f(x)=1.96574*x+3.20976e-005
R^2 value= 0.9999668
FitType: Linear
ZeroThrough: Not Through



#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15801	0.0513	0.050_5312022_001.gcd
2	0.100	32254	0.0996	0.100_5312022_002.gcd
3	0.200	65706	0.1989	0.200_5312022_003.gcd
4	0.300	99244	0.2991	0.300_5312022_004.gcd
5	0.500	166031	0.5008	0.500_5312022_005.gcd

Not Ready

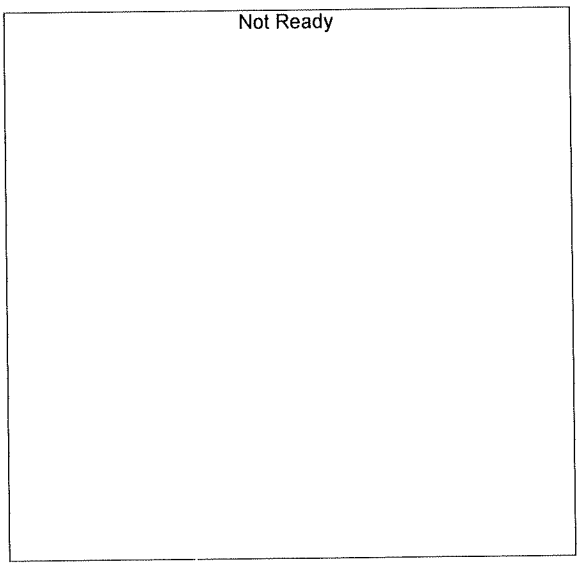
Name : ISOPROPYL ALCOHOL
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

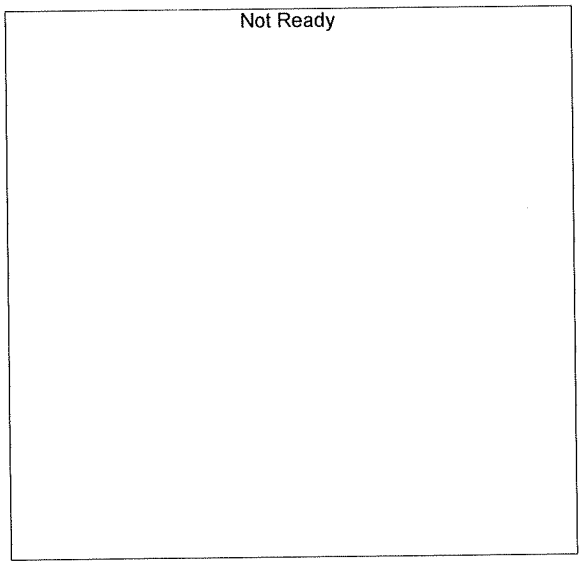
Name : ACETONE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



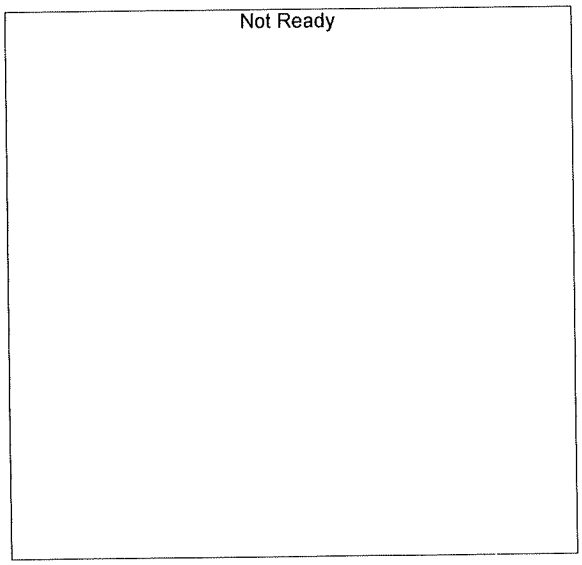
Name : DFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



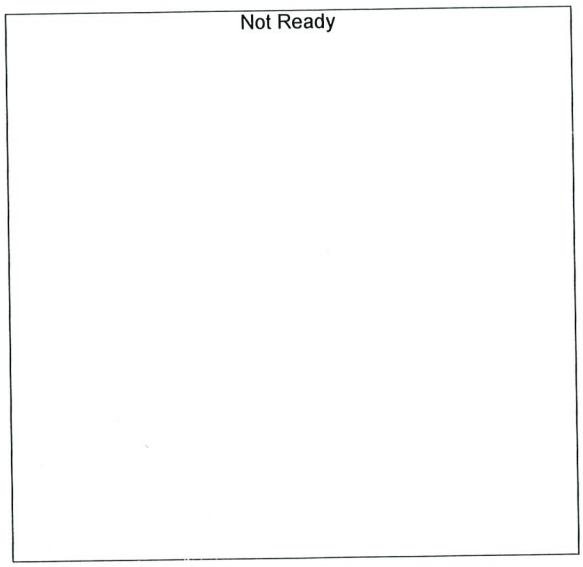
Name : TFE
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



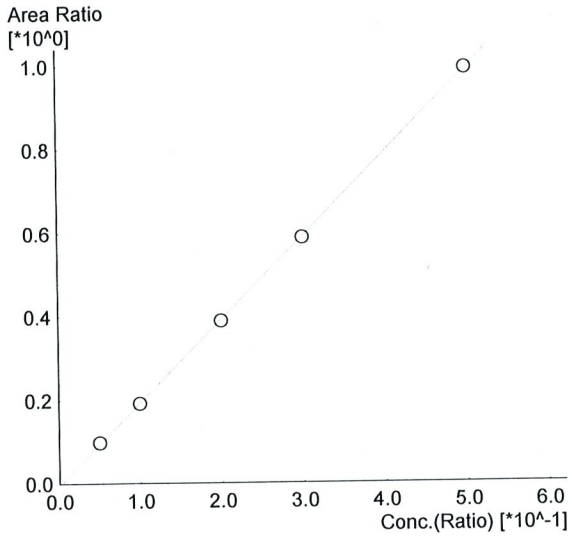
Name : ACETALDEHYDE
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



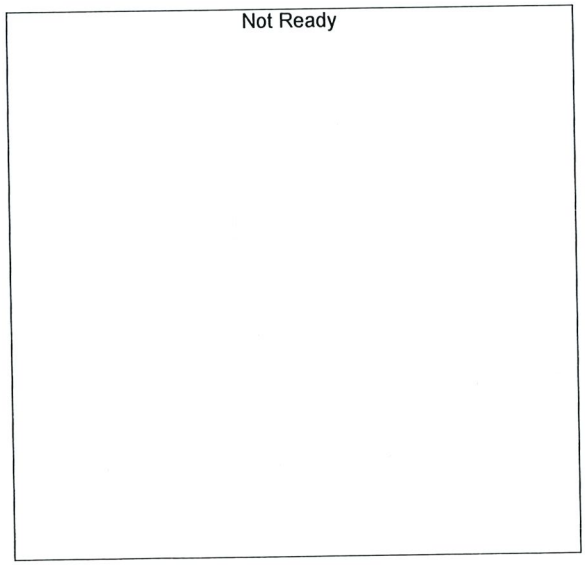
Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name



Name : ETHANOL
Detector Name: FID2
Function : f(x)=1.99241*x-0.00677218
R^2 value= 0.9999061
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16087	0.0521	0.050_5312022_001.gcd
2	0.100	33494	0.0995	0.100_5312022_002.gcd
3	0.200	69269	0.1983	0.200_5312022_003.gcd
4	0.300	105286	0.2984	0.300_5312022_004.gcd
5	0.500	177378	0.5014	0.500_5312022_005.gcd



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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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.	Data File Name

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

Not Ready

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

#	Conc.	Area	Std. Conc.	Data File Name

15

Sample Name : 0.050
Vial # : 1
Data Filename : 0.050_5312022_001.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 10:49:17 AM
Date Processed : 6/1/2022 2:49:49 PM
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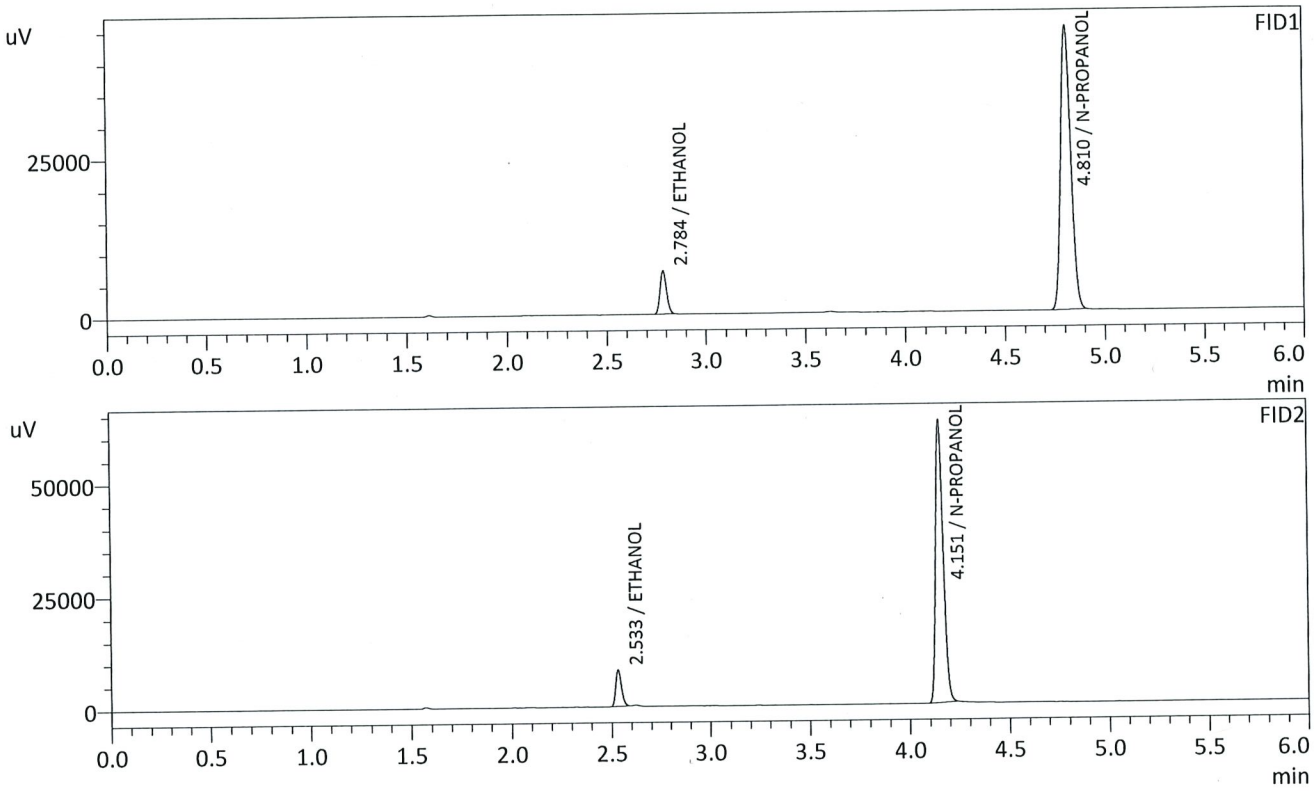

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0513	g/100cc	15801	6794
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	156560	44759
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0521	g/100cc	16087	8012
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165535	62564
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.100
Vial # : 2
Data Filename : 0.100_5312022_002.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 10:58:46 AM
Date Processed : 6/1/2022 2:49:51 PM
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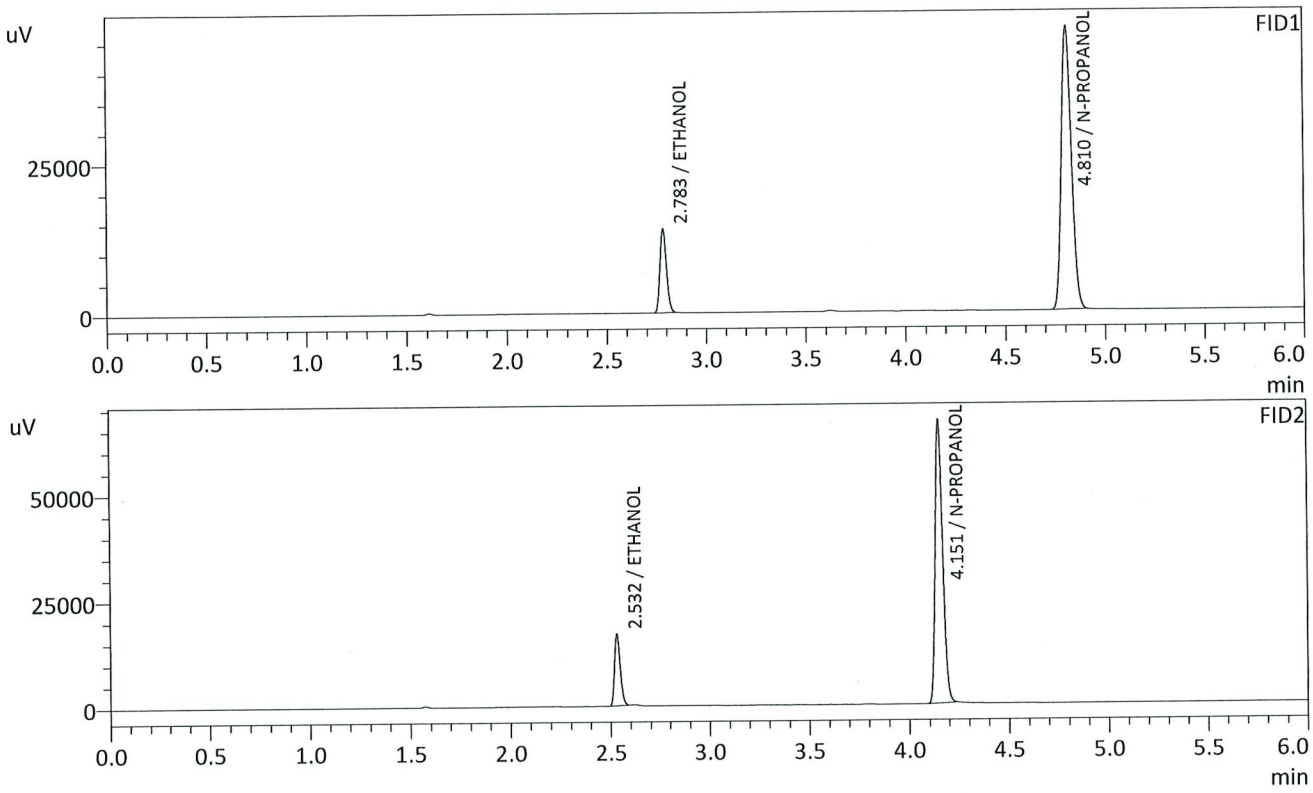

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0996	g/100cc	32254	13857
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164587	46993
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0995	g/100cc	33494	16862
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	174842	66508
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.200
Vial # : 3
Data Filename : 0.200_5312022_003.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:08:07 AM
Date Processed : 6/1/2022 2:49:53 PM
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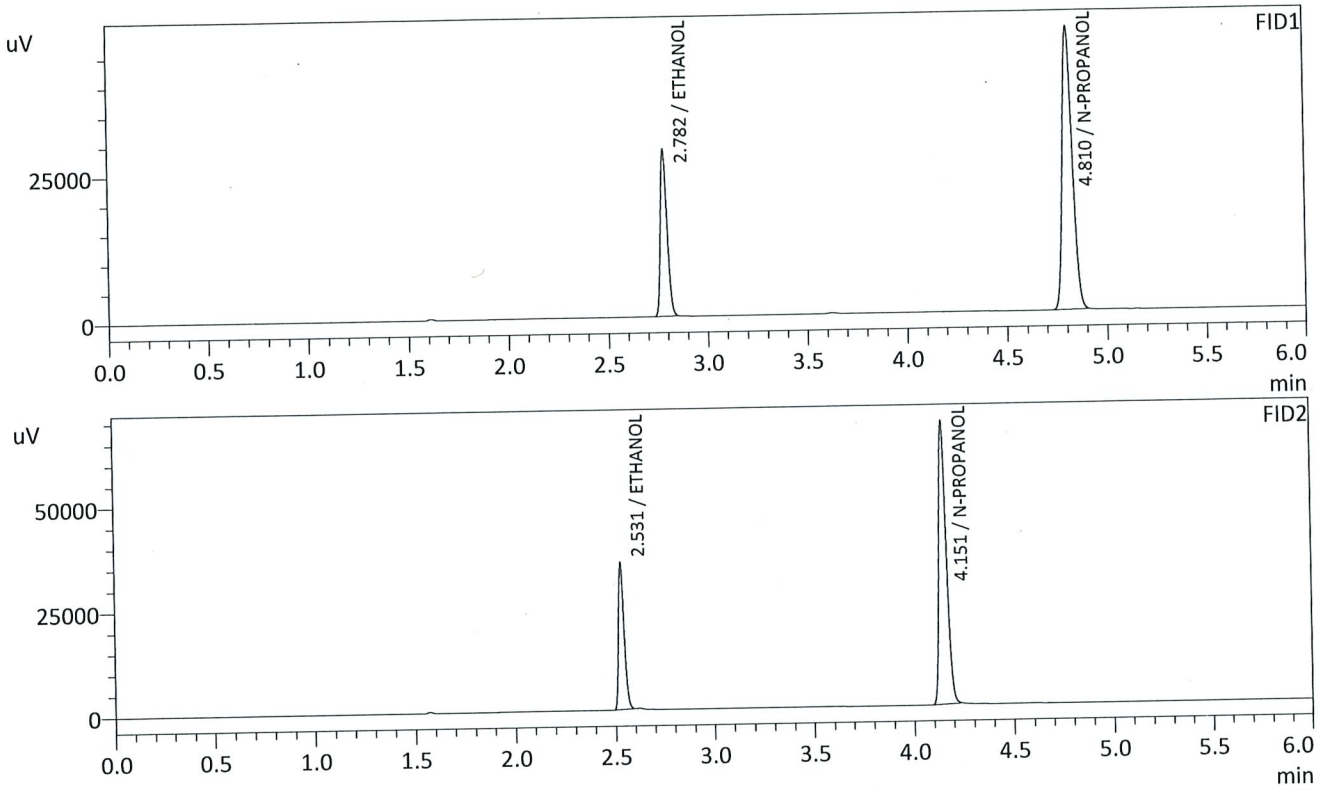

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.1989	g/100cc	65706	28139
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167958	48109
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.1983	g/100cc	69269	34914
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178335	67689
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : 0.300
Vial # : 4
Data Filename : 0.300_5312022_004.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:17:51 AM
Date Processed : 6/1/2022 2:49:54 PM
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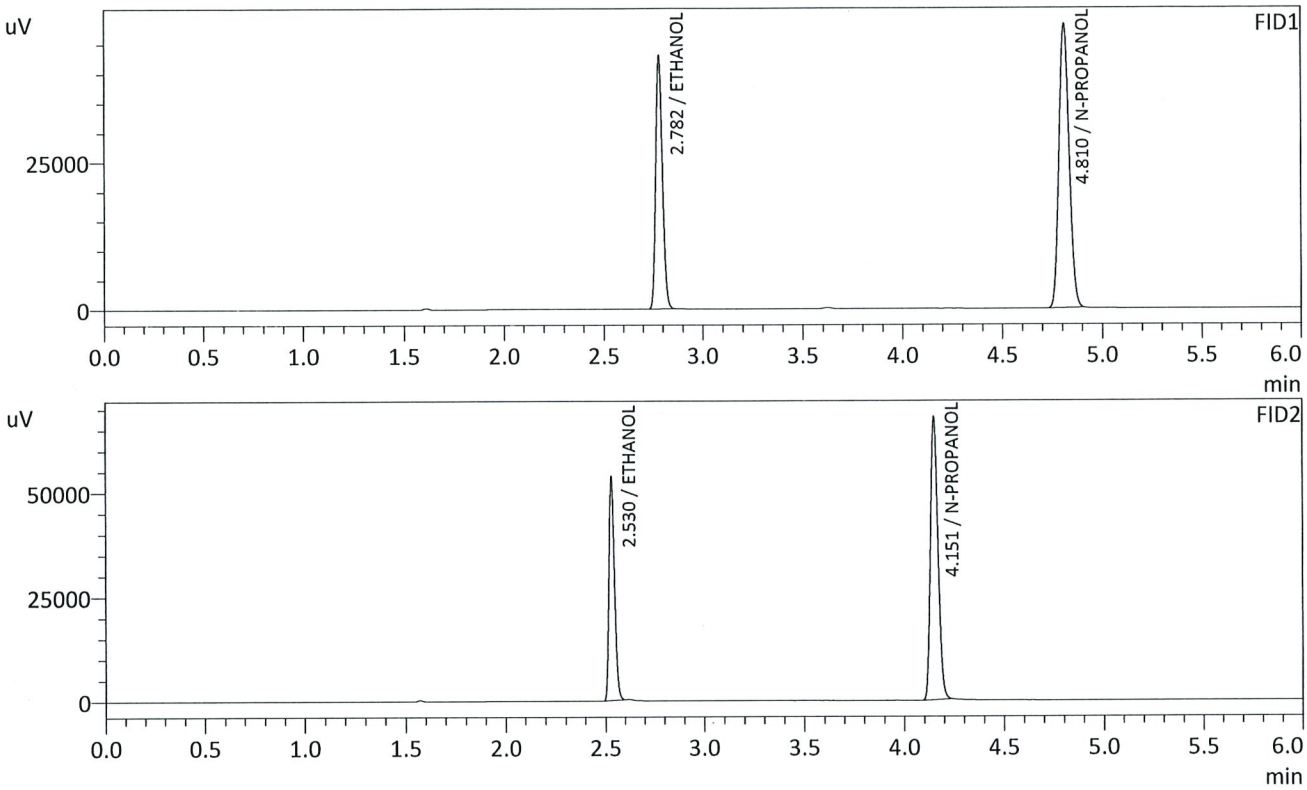

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2991	g/100cc	99244	42381
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168747	48199
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2984	g/100cc	105286	53016
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179077	67707
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.500
Vial # : 5
Data Filename : 0.500_5312022_005.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:27:23 AM
Date Processed : 6/1/2022 2:49:56 PM
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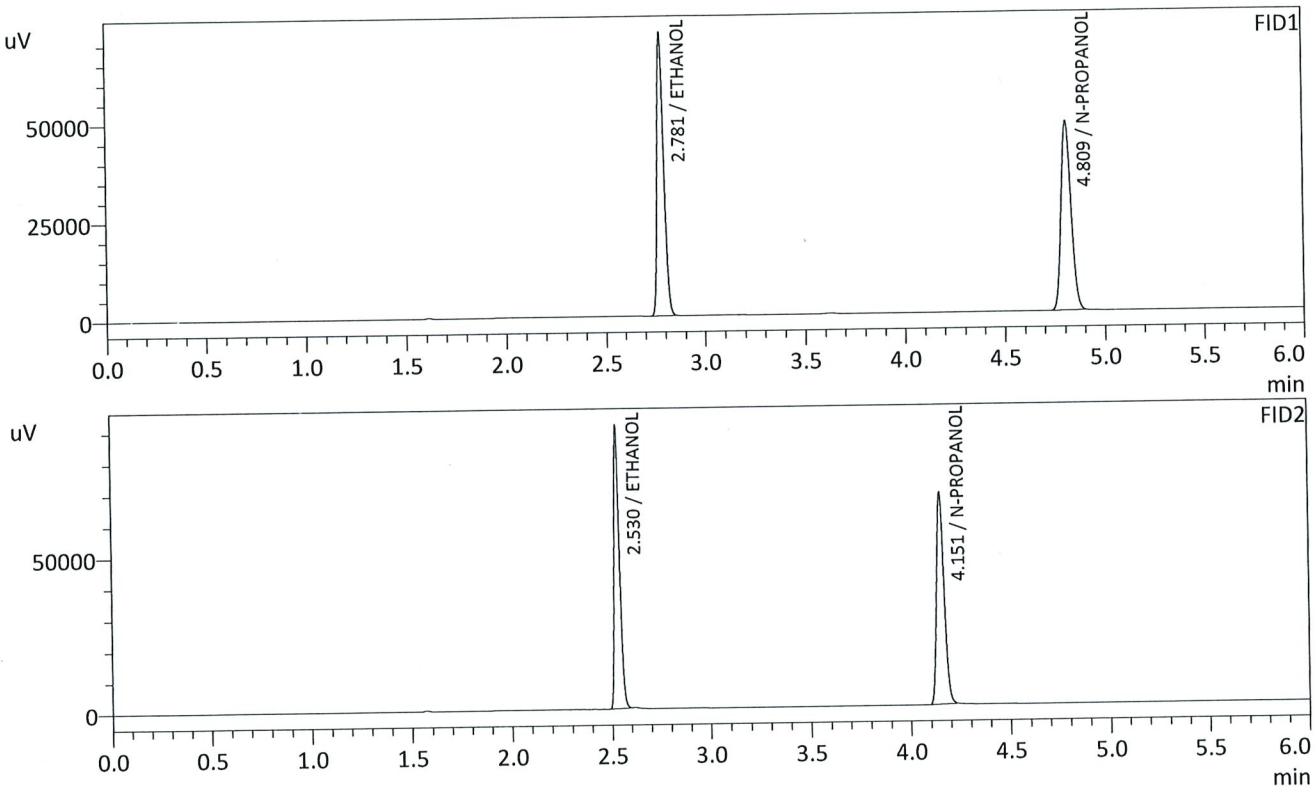

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.5008	g/100cc	166031	71571
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	168639	48201
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.5014	g/100cc	177378	89361
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178754	67923
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : INT STD BLK 1
Vial # : 6
Data Filename : INT STD BLK 1_5312022_006.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:36:40 AM
Date Processed : 6/1/2022 2:49:58 PM
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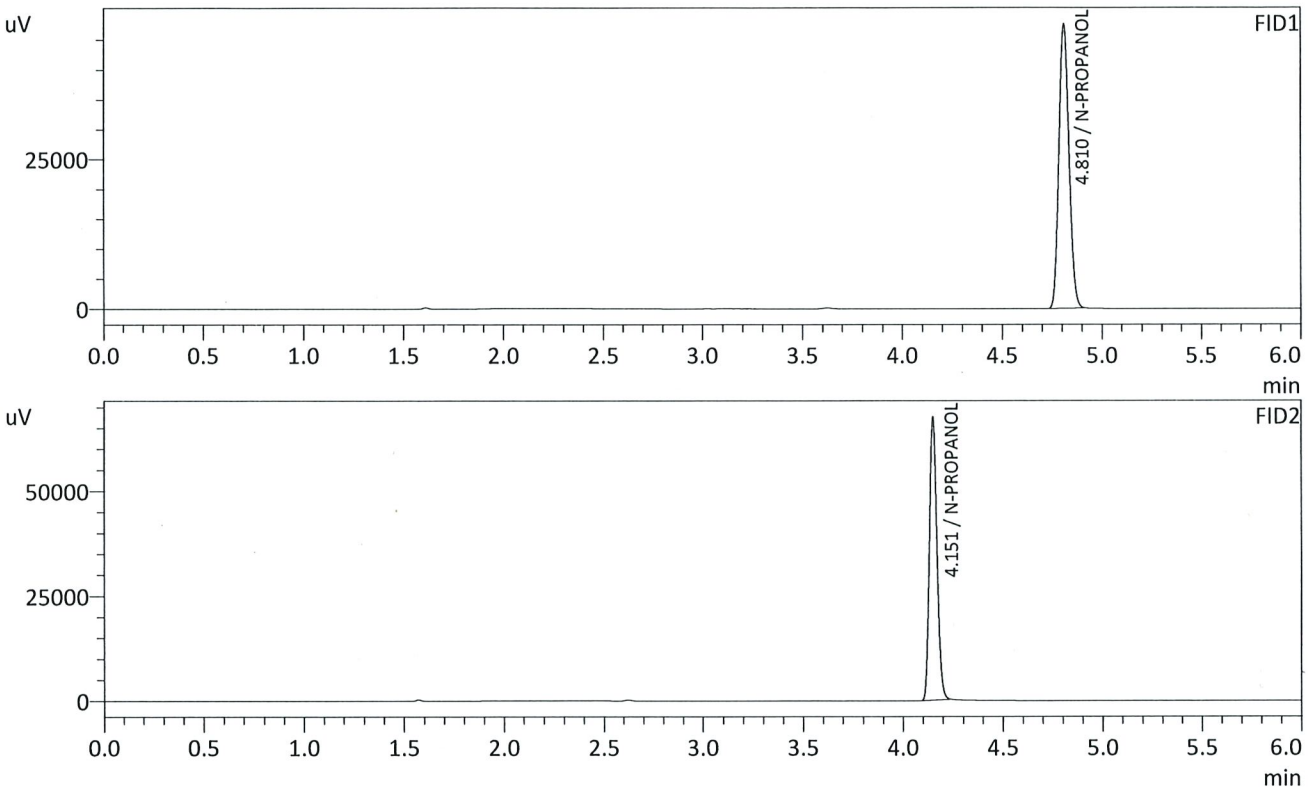

FID1

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	166274	47455
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	177017	67417
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : MULTI-COMP MIX
Vial # : 7
Data Filename : MULTI-COMP MIX_5312022_007.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:46:24 AM
Date Processed : 6/1/2022 2:50:00 PM
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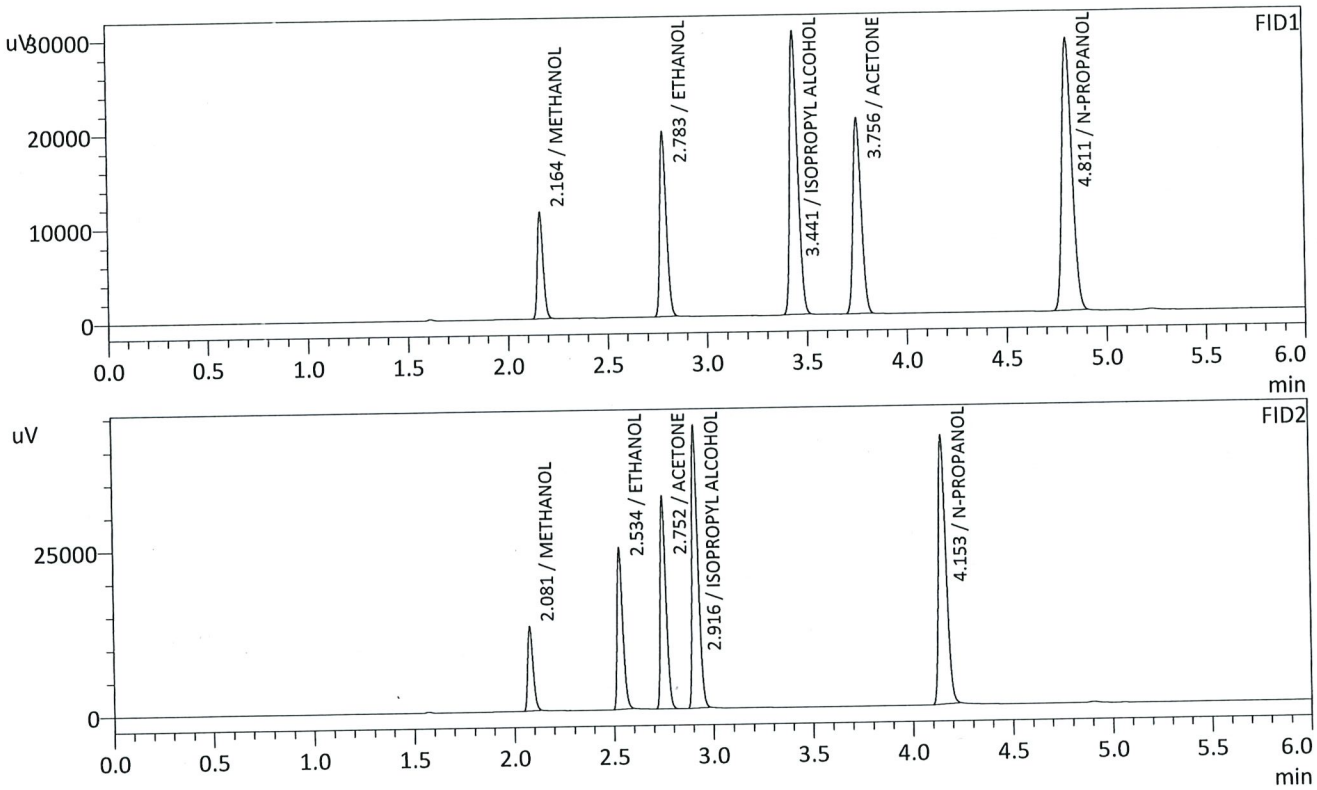


FID1

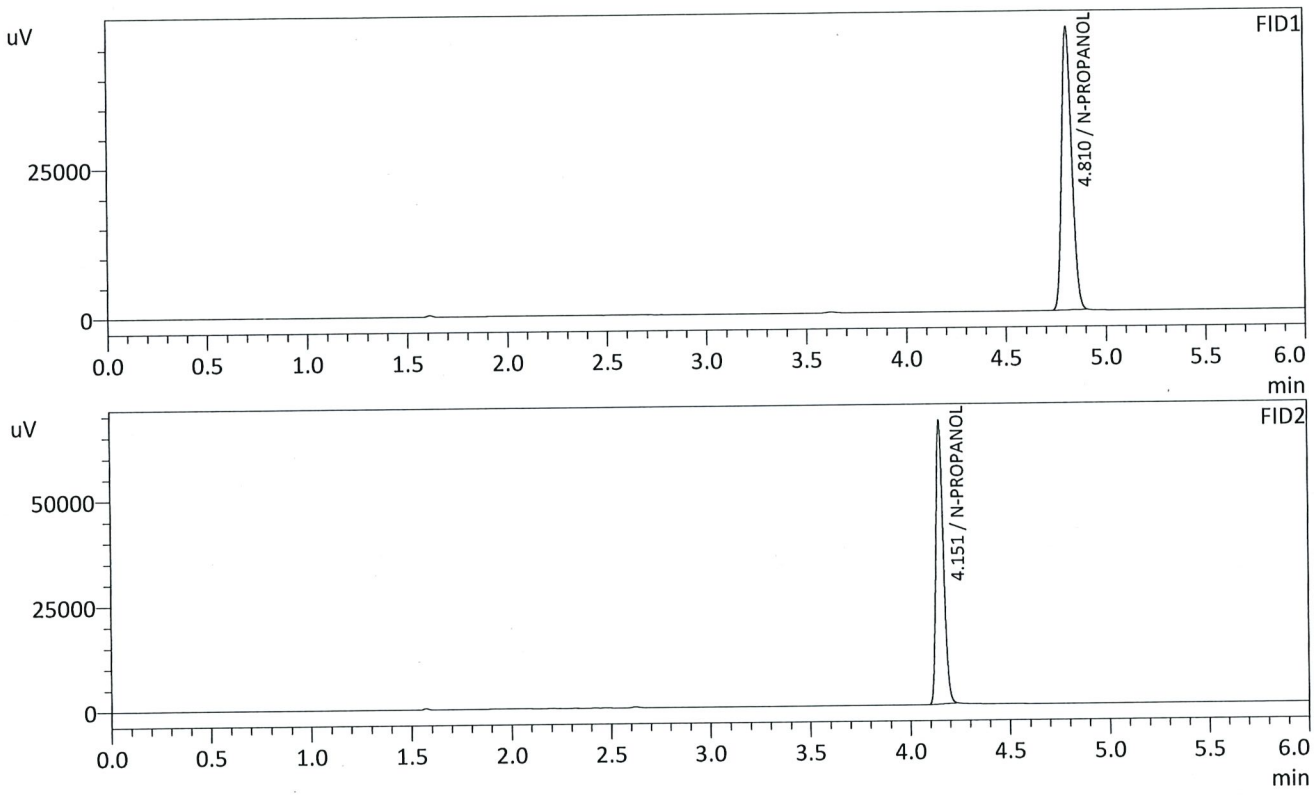
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	22488	11235
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2277	g/100cc	44957	19489
ISOPROPYL ALCOHOL	0.0000	g/100cc	83117	30016
ACETONE	0.0000	g/100cc	59123	20653
N-PROPANOL	0.0000	g/100cc	100402	28829
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	23633	12667
ETHANOL	0.2295	g/100cc	47968	24224
ACETONE	0.0000	g/100cc	64113	32126
ISOPROPYL ALCOHOL	0.0000	g/100cc	89258	42699
N-PROPANOL	0.0000	g/100cc	106452	40545
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

13

Sample Name : INT STD BLK 2
Vial # : 8
Data Filename : INT STD BLK 2_5312022_008.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 11:55:56 AM
Date Processed : 6/1/2022 2:50:02 PM
C:\LabSolutions\Data\2022\5-31-22 TS\ALCOHOL.gcm



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	166110	47466
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	176783	67261
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1 Item # **Analysis Date(s): 5/31/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0712	0.0716	0.0004	0.0714	0.0001	0.0714
(g/100cc)	0.0714	0.0717	0.0003	0.0715		

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
0.071	0.067	0.075	0.004

	Reported Result	
	0.071	

Calibration and control data are stored centrally.

15

Sample Name : QC-1-1-A
Vial # : 9
Data Filename : QC-1-1-A_5312022_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 12:05:14 PM
Date Processed : 6/1/2022 2:50:03 PM
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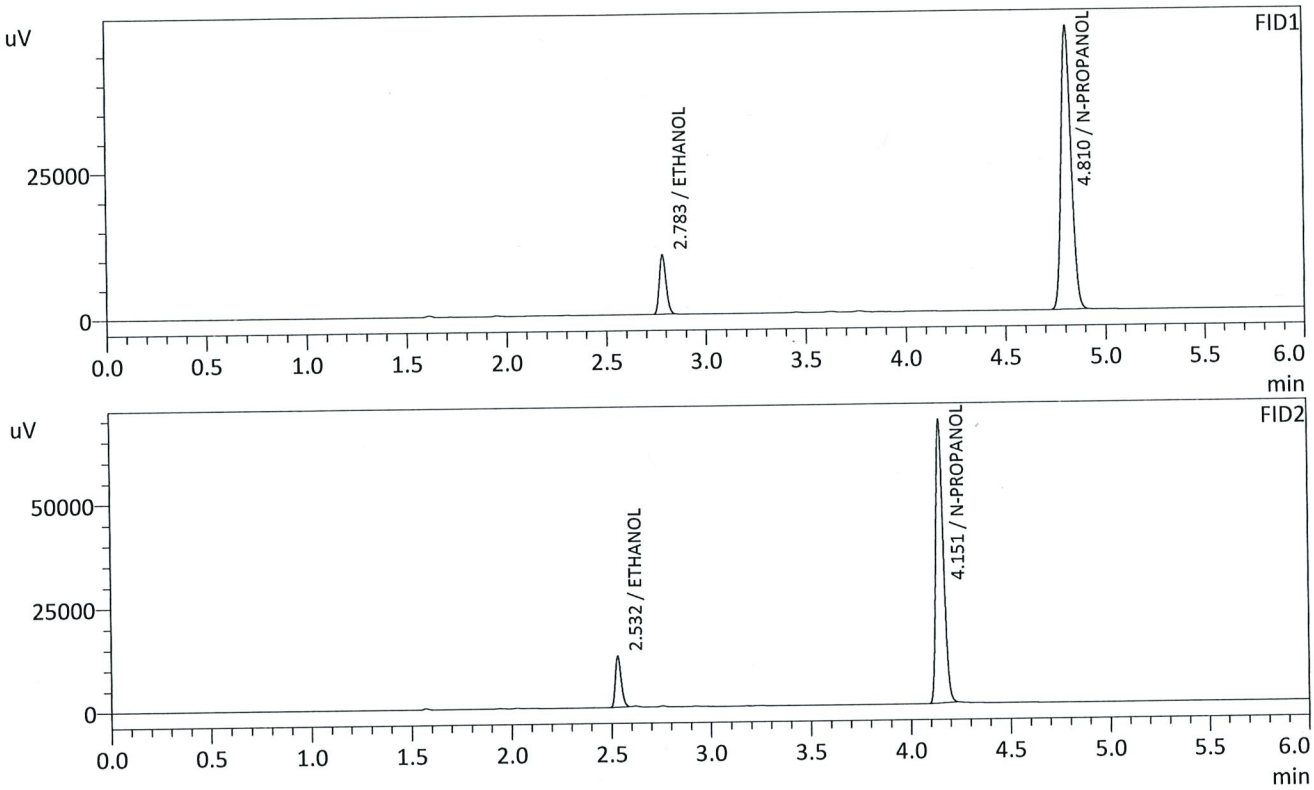

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0712	g/100cc	23680	10155
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	169105	48460
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0716	g/100cc	24454	12271
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	179926	68123
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC-1-1-B
Vial # : 10
Data Filename : QC-1-1-B_5312022_010.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 12:14:58 PM
Date Processed : 6/1/2022 2:50:05 PM
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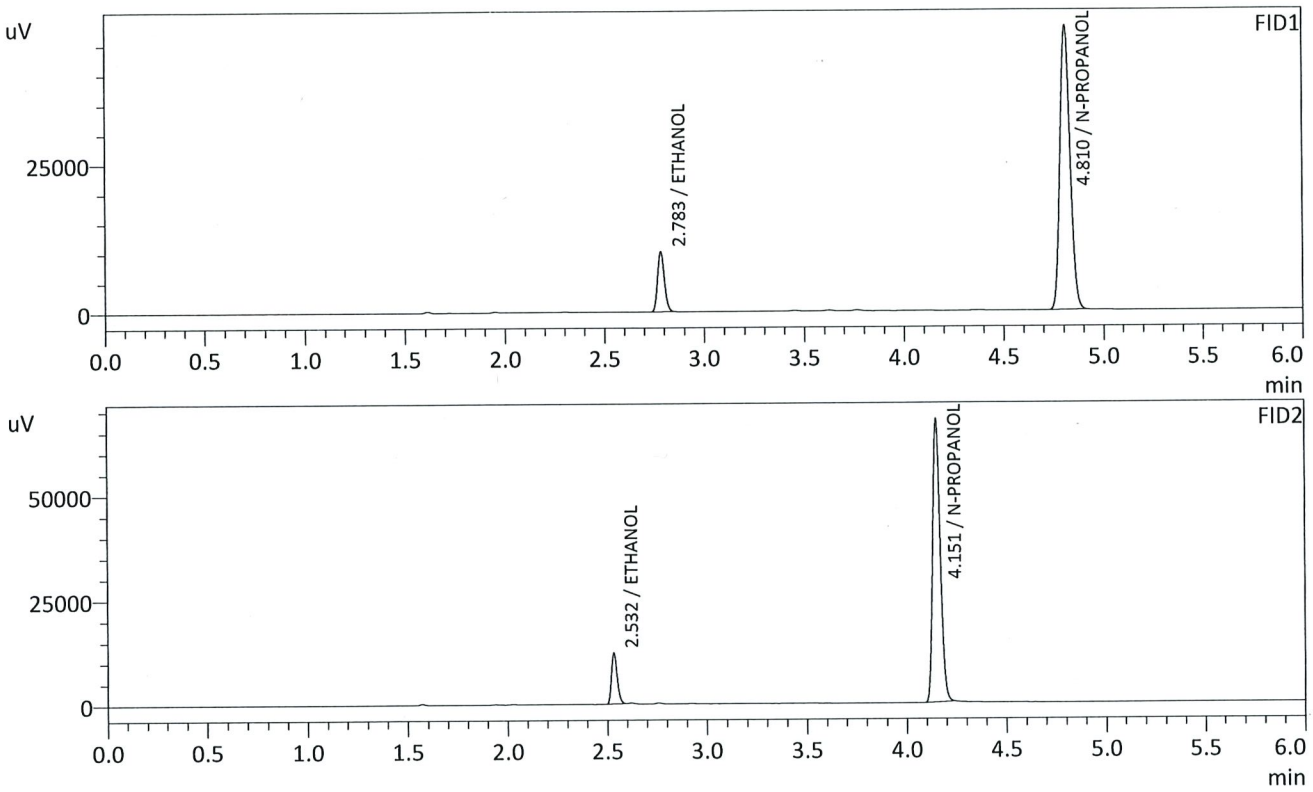

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0714	g/100cc	23496	10070
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	167301	47769
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0717	g/100cc	24263	12172
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	178183	67519
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 QA Item # **Analysis Date(s): 5/31/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0798	0.0801	0.0003	0.0799	0.0000	0.0799
(g/100cc)	0.0798	0.0800	0.0002	0.0799		

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
0.079	**0.075**	**0.083**	**0.004**

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

15

Sample Name : 0.08 QA - A
Vial # : 11
Data Filename : 0.08 QA - A_5312022_011.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 12:24:30 PM
Date Processed : 6/1/2022 2:50:06 PM
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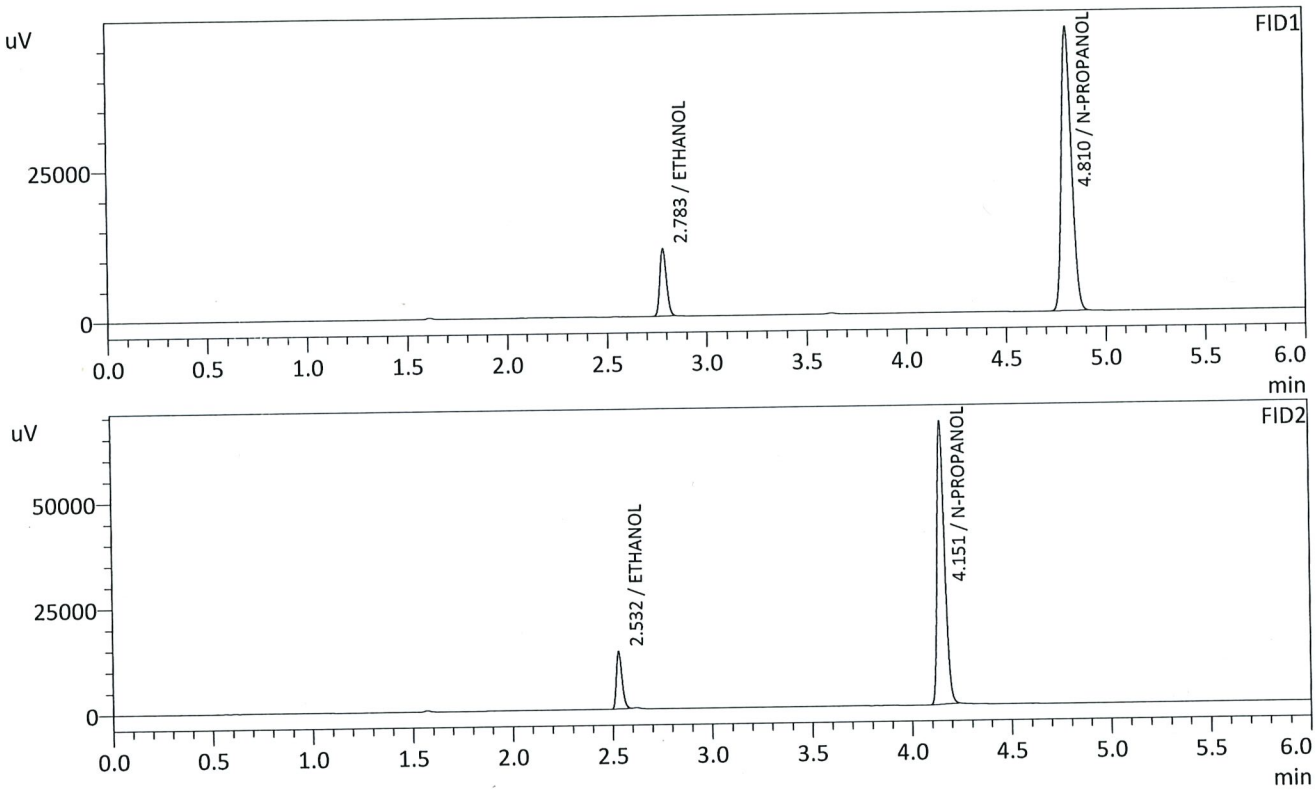

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0798	g/100cc	25923	11131
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165176	47199
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0801	g/100cc	26921	13516
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	175989	66789
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : 0.08 QA - B
Vial # : 12
Data Filename : 0.08 QA - B_5312022_012.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 12:33:47 PM
Date Processed : 6/1/2022 2:50:07 PM
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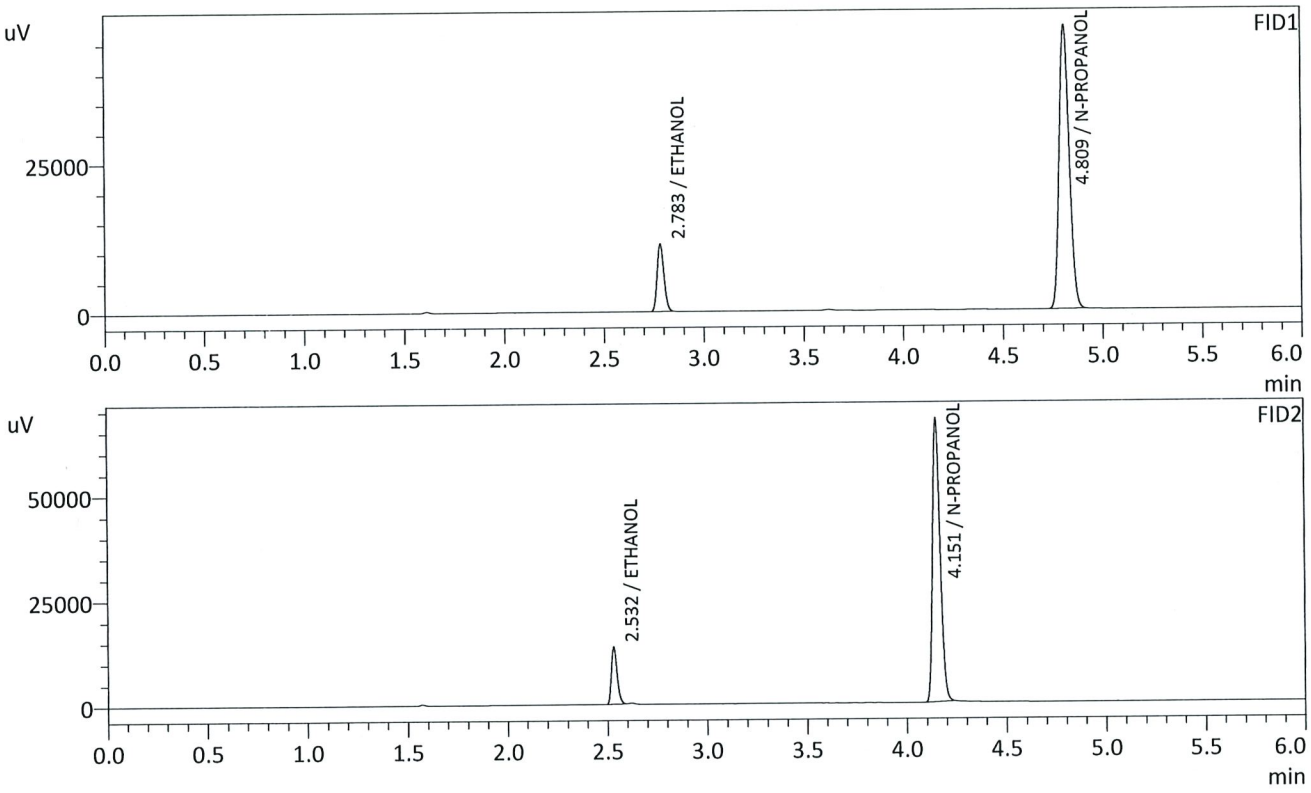

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0798	g/100cc	26152	11212
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	166616	47453
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0800	g/100cc	27128	13620
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	177526	67308
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2 Item # **Analysis Date(s): 5/31/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2108	0.2117	0.0009	0.2112	0.0000	0.2112
(g/100cc)	0.2108	0.2116	0.0008	0.2112		

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
0.211	0.200	0.222	0.011

	Reported Result	
	0.211	

Calibration and control data are stored centrally.

15

Sample Name : QC-2-1-A
Vial # : 31
Data Filename : QC-2-1-A_5312022_031.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 3:34:48 PM
Date Processed : 6/1/2022 2:50:37 PM
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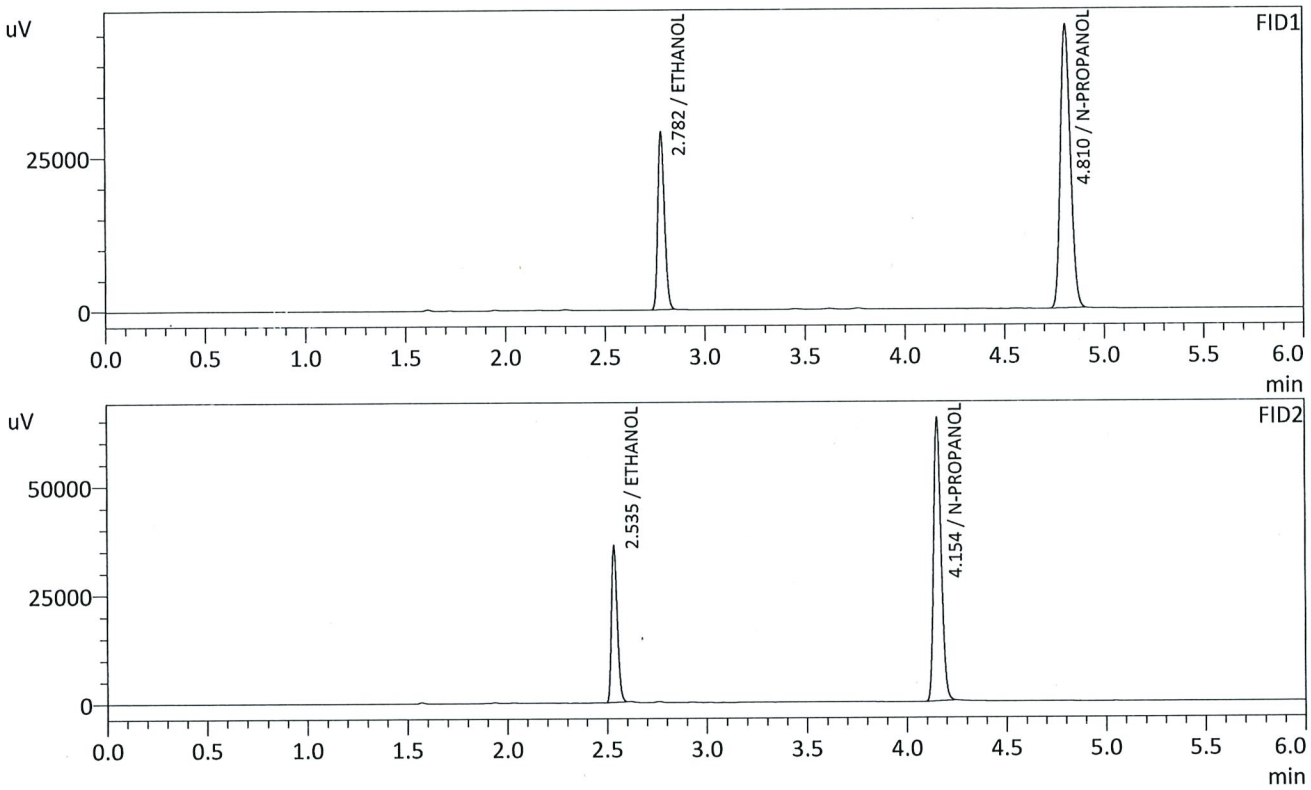

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2108	g/100cc	67144	28668
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	162014	46182
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2117	g/100cc	71307	35614
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	171738	64698
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC-2-1-B
Vial # : 32
Data Filename : QC-2-1-B_5312022_032.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 3:44:20 PM
Date Processed : 6/1/2022 2:50:38 PM
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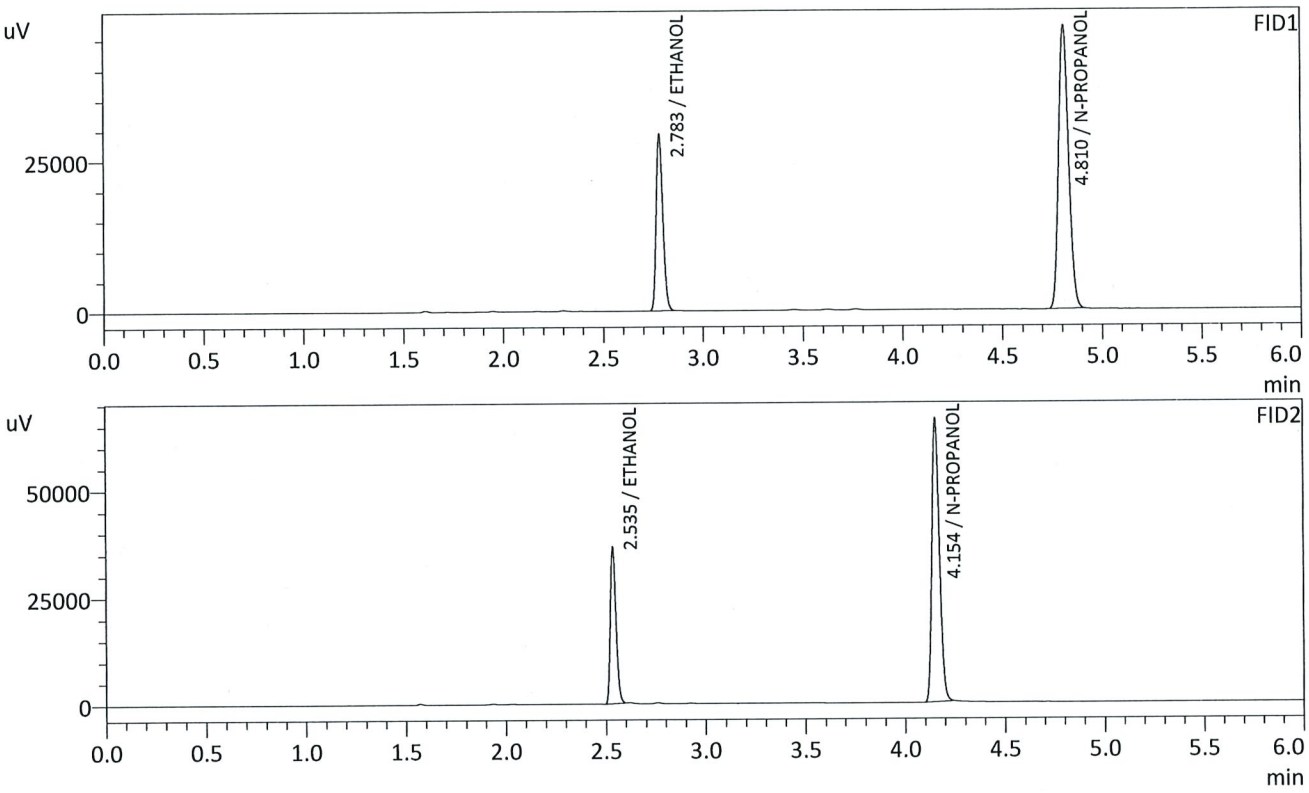

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2108	g/100cc	68080	29085
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	164229	46827
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2116	g/100cc	72284	36073
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	174240	65853
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Item #** **Analysis Date(s): 5/31/2022**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0764	0.0775	0.0011	0.0769	0.0005	0.0772
(g/100cc)	0.0770	0.0779	0.0009	0.0774		

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
0.077	0.073	0.081	0.004

	Reported Result	
	0.077	

Calibration and control data are stored centrally.

Sample Name : QC1-2-A
Vial # : 53
Data Filename : QC1-2-A_5312022_053.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 7:04:12 PM
Date Processed : 6/1/2022 2:51:05 PM
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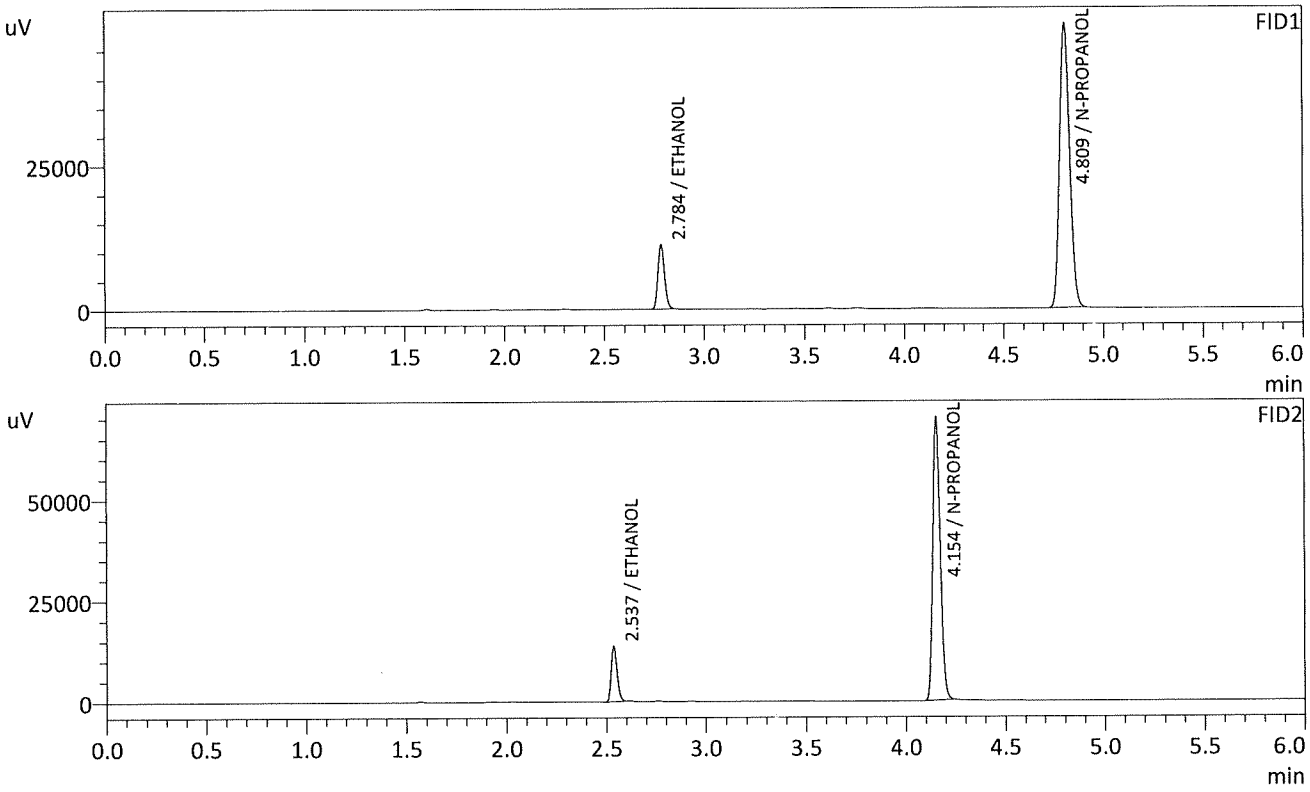

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0764	g/100cc	25927	11111
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	172383	49295
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0775	g/100cc	27105	13594
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	183583	69365
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC1-2-B
Vial # : 54
Data Filename : QC1-2-B_5312022_054.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 7:13:29 PM
Date Processed : 6/1/2022 2:51:06 PM
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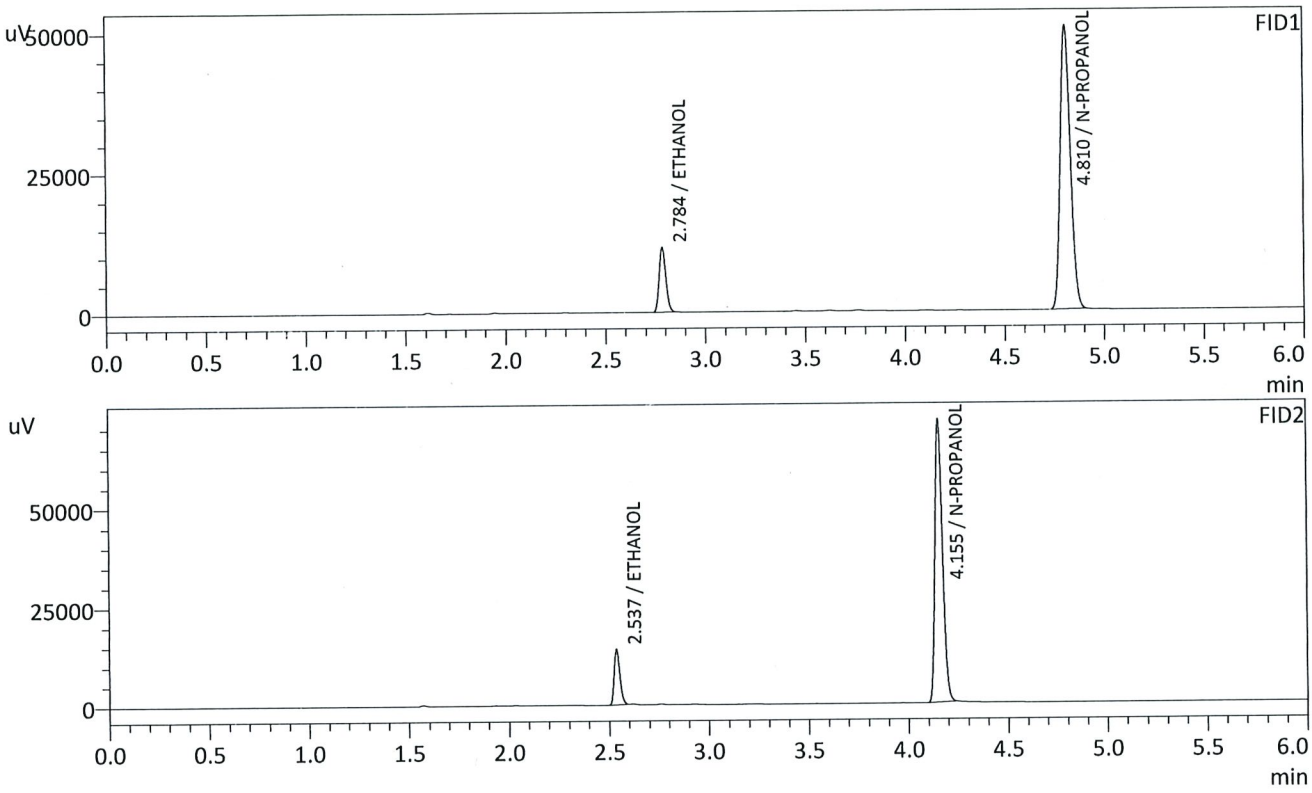

FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0770	g/100cc	26710	11455
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	176360	50504
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0779	g/100cc	27917	13988
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	187904	71119
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

Sample Name : INT STD BLK 3
Vial # : 55
Data Filename : INT STD BLK 3_5312022_055.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 05-31-22 TS.gcb
Date Acquired : 5/31/2022 7:23:19 PM
Date Processed : 6/1/2022 2:51:07 PM
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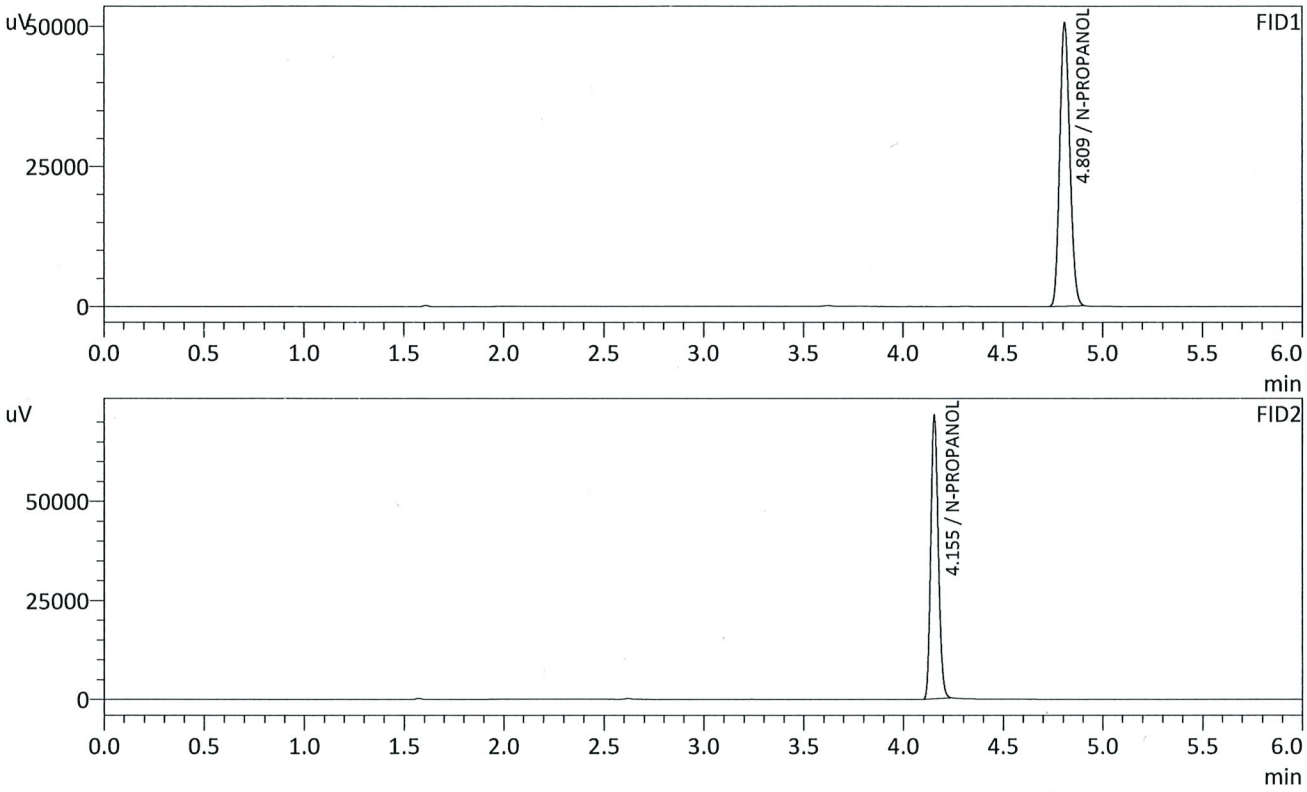

FID1

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	176484	50601
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	188526	71515
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:(R)	ALCOHOL.gcm	0.050_5312022_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100_5312022_002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200_5312022_003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_5312022_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500_5312022_005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_5312022_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_5312022_007.gcd	1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_5312022_008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_5312022_009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_5312022_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_5312022_011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_5312022_012.gcd	0
13	P2022-1111-1-A	0:Unknown	ALCOHOL.gcm	P2022-1111-1-A_5312022_013.gcd	0
14	P2022-1111-1-B	0:Unknown	ALCOHOL.gcm	P2022-1111-1-B_5312022_014.gcd	0
15	M2022-1560-3-A	0:Unknown	ALCOHOL.gcm	M2022-1560-3-A_5312022_015.gcd	0
16	M2022-1560-3-B	0:Unknown	ALCOHOL.gcm	M2022-1560-3-B_5312022_016.gcd	0
17	P2022-1181-1-A	0:Unknown	ALCOHOL.gcm	P2022-1181-1-A_5312022_017.gcd	0
18	P2022-1181-1-B	0:Unknown	ALCOHOL.gcm	P2022-1181-1-B_5312022_018.gcd	0
19	P2022-1182-1-A	0:Unknown	ALCOHOL.gcm	P2022-1182-1-A_5312022_019.gcd	0
20	P2022-1182-1-B	0:Unknown	ALCOHOL.gcm	P2022-1182-1-B_5312022_020.gcd	0
21	P2022-1195-1-A	0:Unknown	ALCOHOL.gcm	P2022-1195-1-A_5312022_021.gcd	0
22	P2022-1195-1-B	0:Unknown	ALCOHOL.gcm	P2022-1195-1-B_5312022_022.gcd	0
23	P2022-1200-1-A	0:Unknown	ALCOHOL.gcm	P2022-1200-1-A_5312022_023.gcd	0
24	P2022-1200-1-B	0:Unknown	ALCOHOL.gcm	P2022-1200-1-B_5312022_024.gcd	0
25	P2022-1201-1-A	0:Unknown	ALCOHOL.gcm	P2022-1201-1-A_5312022_025.gcd	0
26	P2022-1201-1-B	0:Unknown	ALCOHOL.gcm	P2022-1201-1-B_5312022_026.gcd	0
27	P2022-1209-1-A	0:Unknown	ALCOHOL.gcm	P2022-1209-1-A_5312022_027.gcd	0
28	P2022-1209-1-B	0:Unknown	ALCOHOL.gcm	P2022-1209-1-B_5312022_028.gcd	0
29	P2022-1220-1-A	0:Unknown	ALCOHOL.gcm	P2022-1220-1-A_5312022_029.gcd	0
30	P2022-1220-1-B	0:Unknown	ALCOHOL.gcm	P2022-1220-1-B_5312022_030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_5312022_031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_5312022_032.gcd	0
33	P2022-1224-1-A	0:Unknown	ALCOHOL.gcm	P2022-1224-1-A_5312022_033.gcd	0
34	P2022-1224-1-B	0:Unknown	ALCOHOL.gcm	P2022-1224-1-B_5312022_034.gcd	0
35	P2022-1248-1-A	0:Unknown	ALCOHOL.gcm	P2022-1248-1-A_5312022_035.gcd	0
36	P2022-1248-1-B	0:Unknown	ALCOHOL.gcm	P2022-1248-1-B_5312022_036.gcd	0
37	P2022-1273-1-A	0:Unknown	ALCOHOL.gcm	P2022-1273-1-A_5312022_037.gcd	0
38	P2022-1273-1-B	0:Unknown	ALCOHOL.gcm	P2022-1273-1-B_5312022_038.gcd	0
39	P2022-1292-1-A	0:Unknown	ALCOHOL.gcm	P2022-1292-1-A_5312022_039.gcd	0
40	P2022-1292-1-B	0:Unknown	ALCOHOL.gcm	P2022-1292-1-B_5312022_040.gcd	0
41	P2022-1294-1-A	0:Unknown	ALCOHOL.gcm	P2022-1294-1-A_5312022_041.gcd	0
42	P2022-1294-1-B	0:Unknown	ALCOHOL.gcm	P2022-1294-1-B_5312022_042.gcd	0
43	P2022-1320-1-A	0:Unknown	ALCOHOL.gcm	P2022-1320-1-A_5312022_043.gcd	0
44	P2022-1320-1B	0:Unknown	ALCOHOL.gcm	P2022-1320-1B_5312022_044.gcd	0
45	P2022-1324-1-A	0:Unknown	ALCOHOL.gcm	P2022-1324-1-A_5312022_045.gcd	0
46	P2022-1324-1-B	0:Unknown	ALCOHOL.gcm	P2022-1324-1-B_5312022_046.gcd	0
47	P2022-1325-1-A	0:Unknown	ALCOHOL.gcm	P2022-1325-1-A_5312022_047.gcd	0
48	P2022-1325-1-B	0:Unknown	ALCOHOL.gcm	P2022-1325-1-B_5312022_048.gcd	0
49	P2022-1335-1-A	0:Unknown	ALCOHOL.gcm	P2022-1335-1-A_5312022_049.gcd	0
50	P2022-1335-1-B	0:Unknown	ALCOHOL.gcm	P2022-1335-1-B_5312022_050.gcd	0
51	P2022-1348-1-A	0:Unknown	ALCOHOL.gcm	P2022-1348-1-A_5312022_051.gcd	0
52	P2022-1348-1-B	0:Unknown	ALCOHOL.gcm	P2022-1348-1-B_5312022_052.gcd	0

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
53	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_5312022_053.gcd	0
54	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_5312022_054.gcd	0
55	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_5312022_055.gcd	0