

TS

2/15/2022

Worklist: 5598

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2022-0388	1	BCK	Alcohol Analysis	
P2022-0391	1	BCK	Alcohol Analysis	
P2022-0392	1	BCK	Alcohol Analysis	
P2022-0400	1	BCK	Alcohol Analysis	
P2022-0416	1	BCK	Alcohol Analysis	
P2022-0417	1	BCK	Alcohol Analysis	
P2022-0418	1	BCK	Alcohol Analysis	
P2022-0419	1	BCK	Alcohol Analysis	
P2022-0420	1	BCK	Alcohol Analysis	
P2022-0421	1	BCK	Alcohol Analysis	
P2022-0422	1	CBUK	Alcohol Analysis	
P2022-0423	1	BCK	Alcohol Analysis	
P2022-0434	1	BCK	Alcohol Analysis	
P2022-0458	1	BCK	Alcohol Analysis	
P2022-0459	1	BCK	Alcohol Analysis	
P2022-0460	1	BCK	Alcohol Analysis	
P2022-0461	1	BCK	Alcohol Analysis	
P2022-0463	1	BCK	Alcohol Analysis	

Case sample P2022-0265-1 from worklist 5582 was also included with this batch.

Deviation documentation added to end of central data 02/23/2022

2-16-22 TS

02/23/22 TS

REVIEWED
 By Rachel Cutler at 2:01 pm, Feb 23, 2022

REVIEWED
By Rachel Cutler at 1:48 pm, Feb 17, 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): 02/15/2022

Calibration Date: (if different) 02/09/2022

Worklist #: 5598

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0737 g/100cc
					0.0794 g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2106 g/100cc
					g/100cc
Multi-Component mixture: Exp: 10/24/2022 Lot # FN06041902					g/100cc
Curve Fit: Column 1 0.99999 Column2 0.99998					ok

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0501	0.0507	0.0006	0.0504
100	0.100	0.090 - 0.110	0.1001	0.0999	0.0002	0.1
200	0.200	0.180 - 0.220	0.2000	0.1995	0.0005	0.1997
300	0.300	0.270 - 0.330	0.2991	0.2991	0	0.2991
400	0.400	0.360 - 0.440	-	-	#####	#DIV/0!
500	0.500	0.450 - 0.550	0.5004	0.5006	0.0002	0.5005
Internal Standard	Average	(-) 20%		(+) 20%		
N-Propanol:	149030.8	119224.6		178836.9		

Aqueous Controls

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

Internal Standard Monitoring Worksheet

Worklist #: 5598 Run Date(s): 02/15/2022

Internal Standard Solution: 010522 Prep Date:01/05/22 Exp Date:07/05/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	142055	151610	146832.5
0.080	141805	151172	146488.5
QC1	142946	152941	147943.5
QC1	143251	153127	148189
QC1	147098	157083	152090.5
QC1	154682	165164	159923
QC1			#DIV/0!
QC1			#DIV/0!
QC2	140230	149398	144814
QC2	141396	150534	145965
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

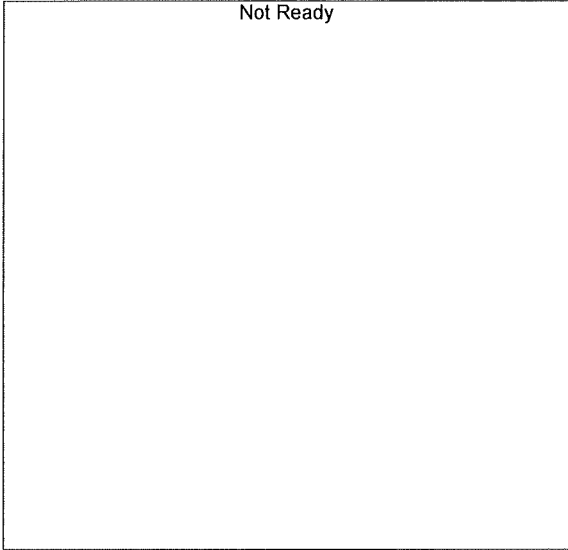
Combined Average	(-)20%	(+)20%
149030.8	119224.6	178836.9

15

=====
Calibration Table
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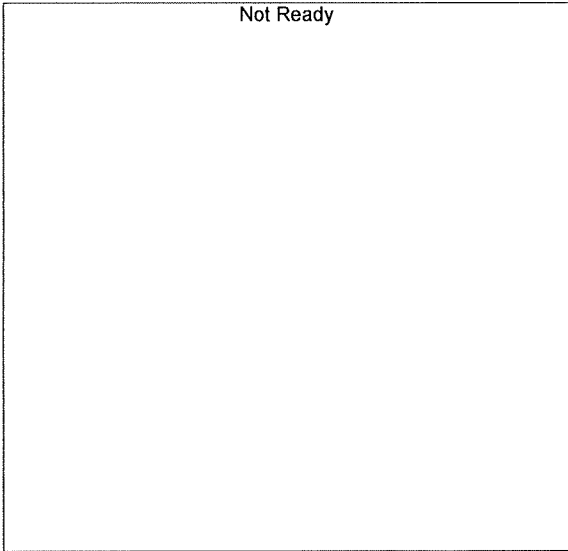
Laboratory: Pocatello
Instrument Name : GC2030-HS20

<<Method File>>
Method File :C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm
Date Created :2/3/2022 1:34:42 PM
Date Modified :2/10/2022 7:55:18 AM



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

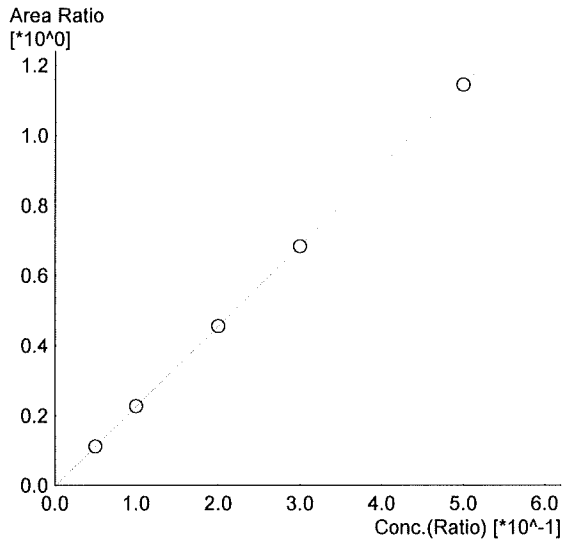
#	Conc.	Area	Std. Conc.	Data File Name
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Name : ACETALDEHYDE
Detector Name: FID1
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

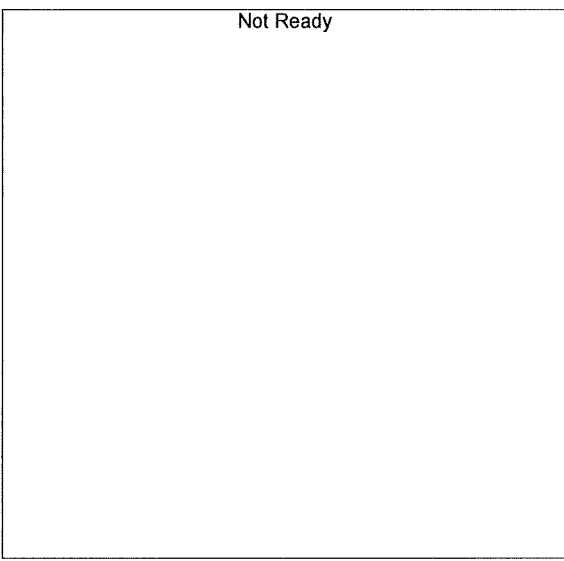
#	Conc.	Area	Std. Conc.	Data File Name
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15



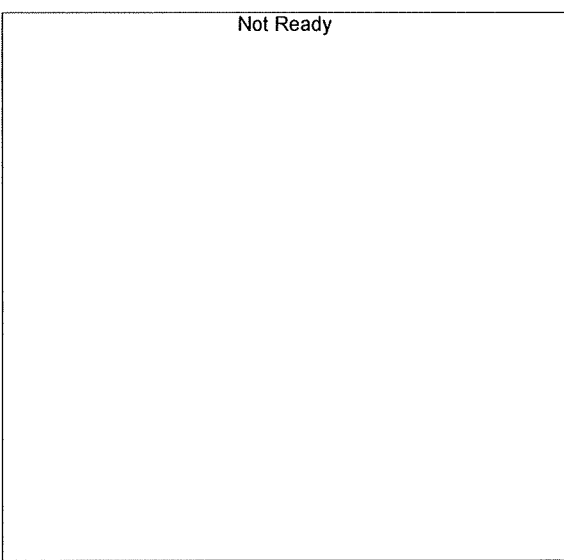
Name : ETHANOL
 Detector Name: FID1
 Function : $f(x)=2.29252*x-0.00304395$
 R^2 value= 0.9999932 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	15793	0.0501	0.050_292022_001.gcd
2	0.100	32438	0.1001	0.100_292022_002.gcd
3	0.200	65534	0.2000	0.200_292022_003.gcd
4	0.300	99024	0.2991	0.300_292022_004.gcd
5	0.500	165769	0.5004	0.500_292022_005.gcd



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
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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
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TS

Not Ready

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
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Not Ready

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
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Not Ready

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

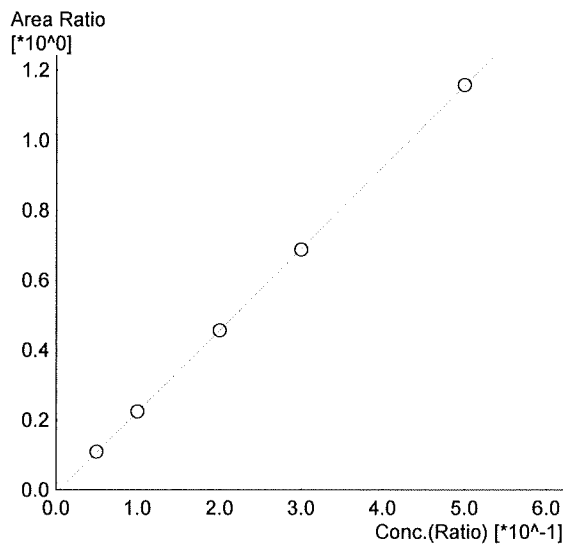
#	Conc.	Area	Std. Conc.	Data File Name
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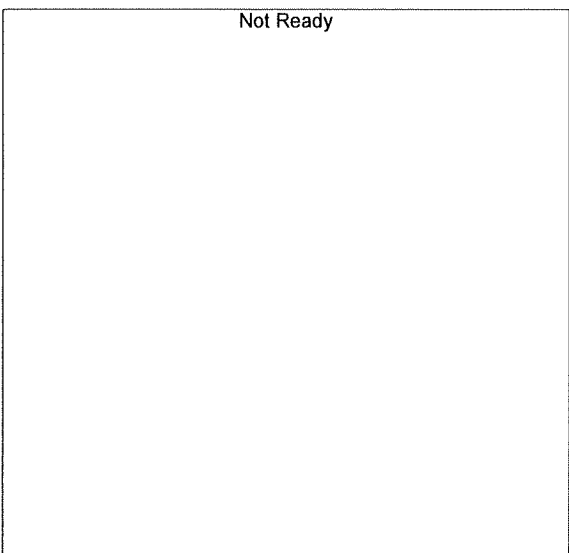
Name : METHANOL
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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Name : ETHANOL
 Detector Name: FID2
 Function : $f(x)=2.33127*x-0.00954826$
 R² value= 0.9999845 ✓
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16116	0.0507	0.050_292022_001.gcd
2	0.100	33666	0.0999	0.100_292022_002.gcd
3	0.200	68890	0.1995	0.200_292022_003.gcd
4	0.300	104861	0.2991	0.300_292022_004.gcd
5	0.500	176701	0.5006	0.500_292022_005.gcd



Name : ACETONE
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
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15

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
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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
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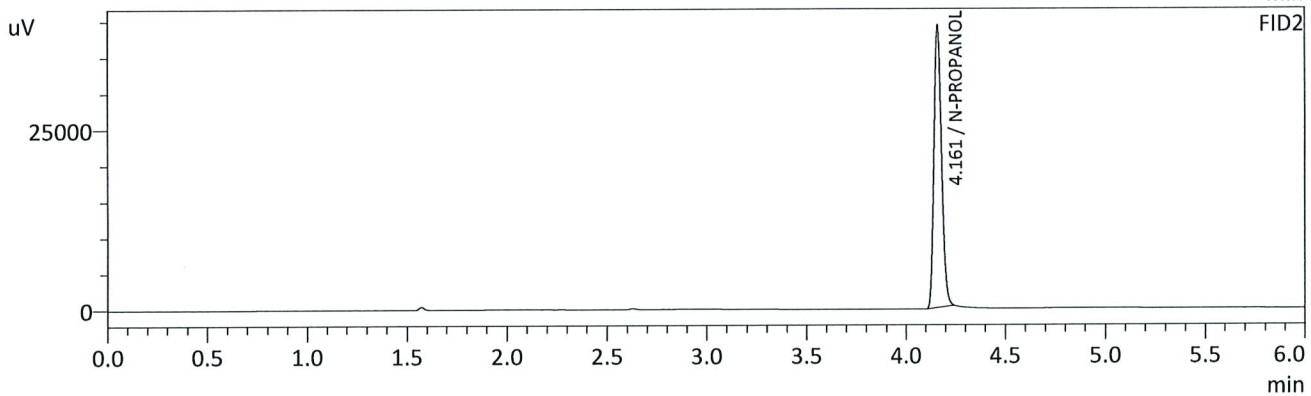
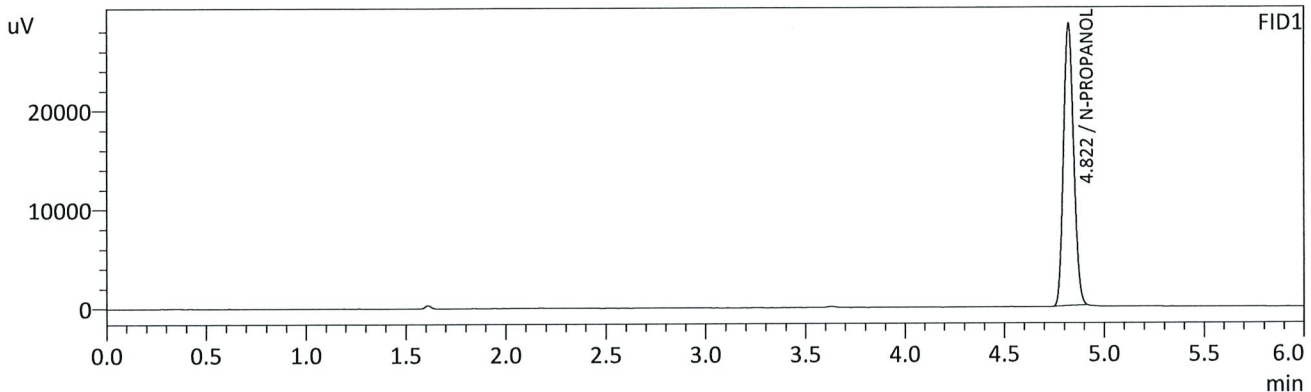
Not Ready

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
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15

Sample Name : INT STD BLK 1
 Vial # : 1
 Data Filename : INT STD BLK 1_2152022_001.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 12:21:50 PM
 Date Processed : 2/16/2022 7:31:02 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

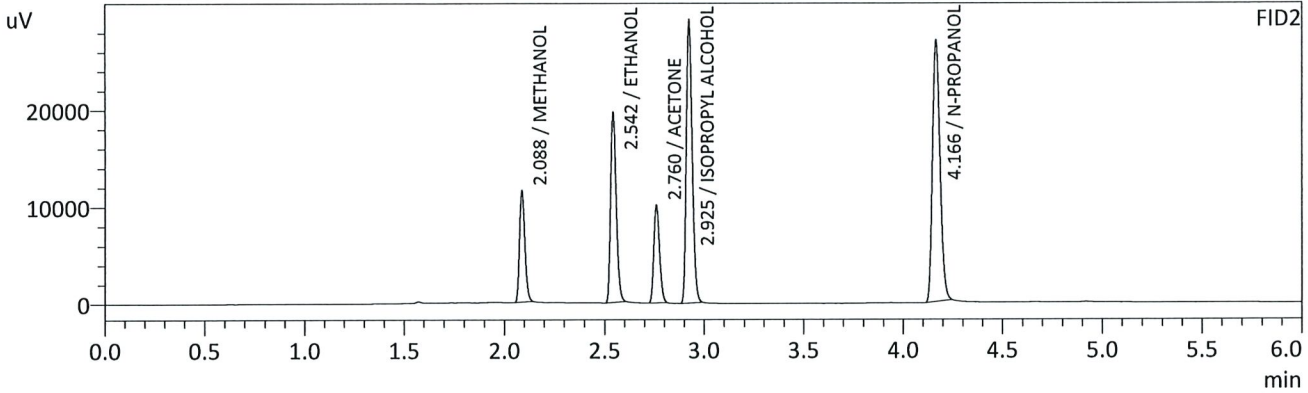
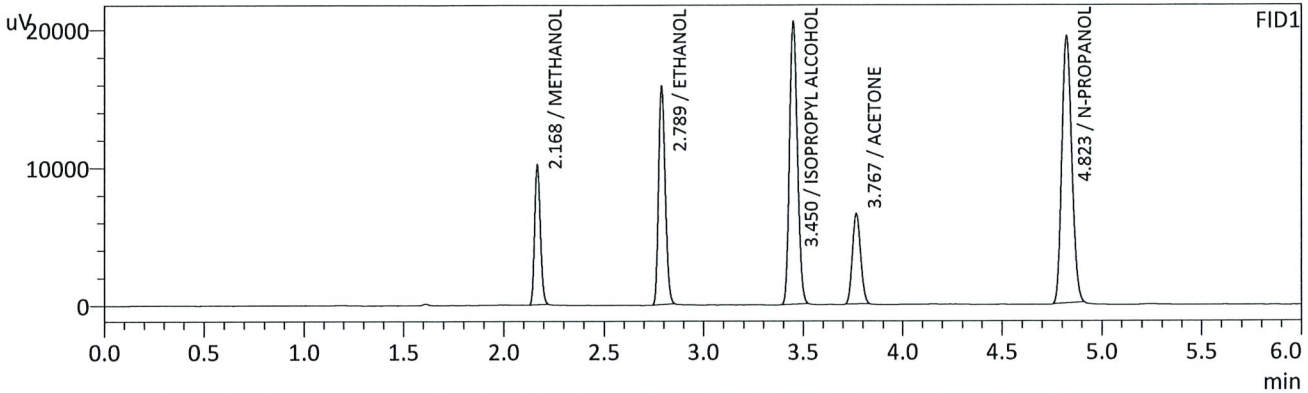
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	100475	28490
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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	104125	39151
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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Sample Name : MULTI-COMP MIX
 Vial # : 2
 Data Filename : MULTI-COMP MIX_2152022_002.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 12:31:19 PM
 Date Processed : 2/16/2022 7:31:03 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

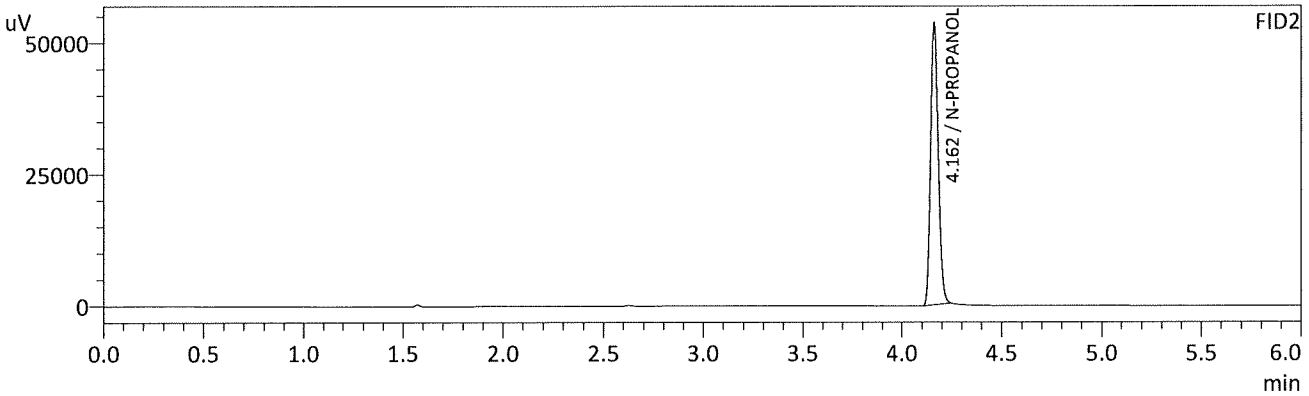
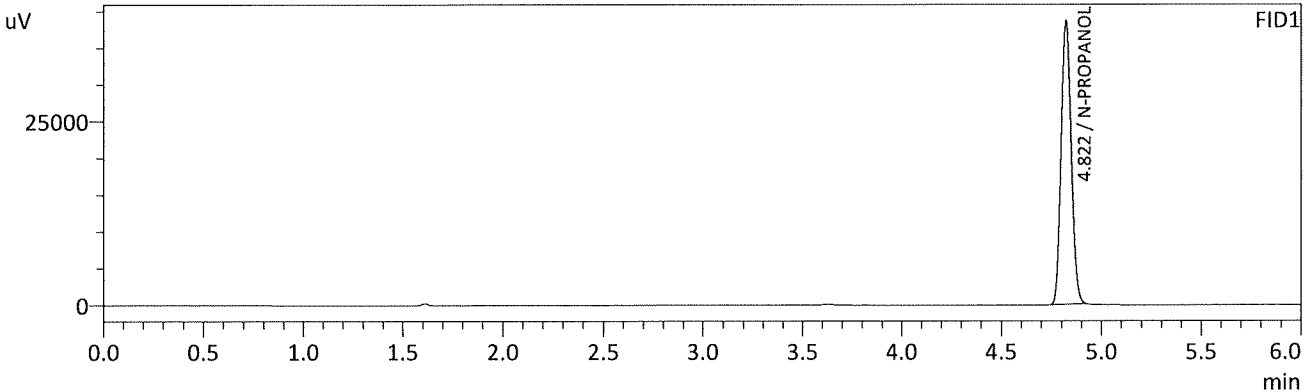
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	20274	10111
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2364	g/100cc	36283	15772
ISOPROPYL ALCOHOL	0.0000	g/100cc	56709	20389
ACETONE	0.0000	g/100cc	18545	6500
N-PROPANOL	0.0000	g/100cc	67299	19330
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	0.0000	g/100cc	21258	11447
ETHANOL	0.2369	g/100cc	38451	19488
ACETONE	0.0000	g/100cc	20041	10072
ISOPROPYL ALCOHOL	0.0000	g/100cc	60704	29090
N-PROPANOL	0.0000	g/100cc	70825	26950
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 2
 Vial # : 3
 Data Filename : INT STD BLK 2_2152022_003.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 12:40:39 PM
 Date Processed : 2/16/2022 7:31:04 AM
 C:\LabSolutions\Data\2022\2-15-22 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	135448	38538
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	141719	53431
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-1

Item #

Analysis Date(s): 2/15/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0740	0.0735	0.0005	0.0737	0.0001	0.0737
(g/100cc)	0.0739	0.0734	0.0005	0.0736		

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%

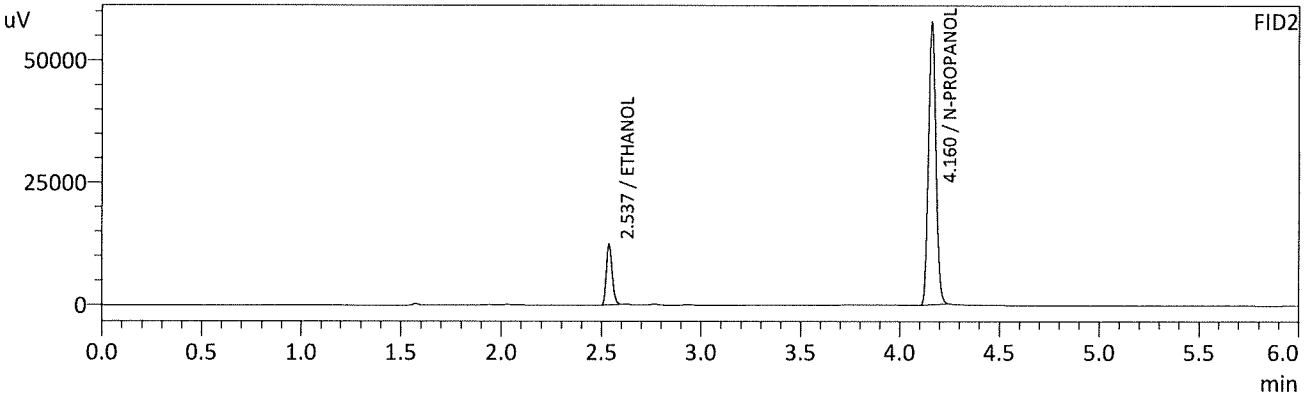
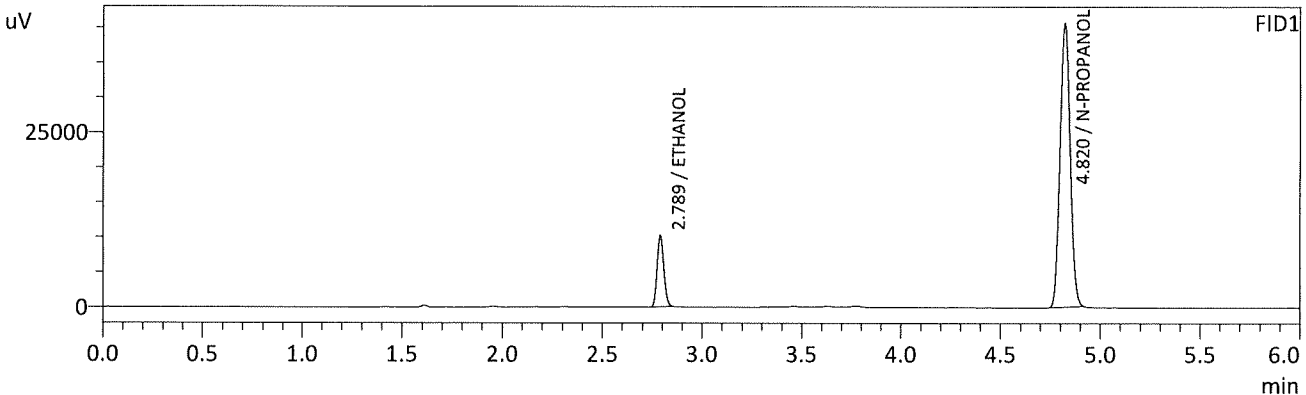
Overall Mean (g/100cc)	Low	High	5% of Mean
0.073	0.069	0.077	0.004

	Reported Result	
	0.073	

Calibration and control data are stored centrally.

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Sample Name : QC-1-1-A
 Vial # : 4
 Data Filename : QC-1-1-A_2152022_004.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 12:50:27 PM
 Date Processed : 2/16/2022 7:31:06 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

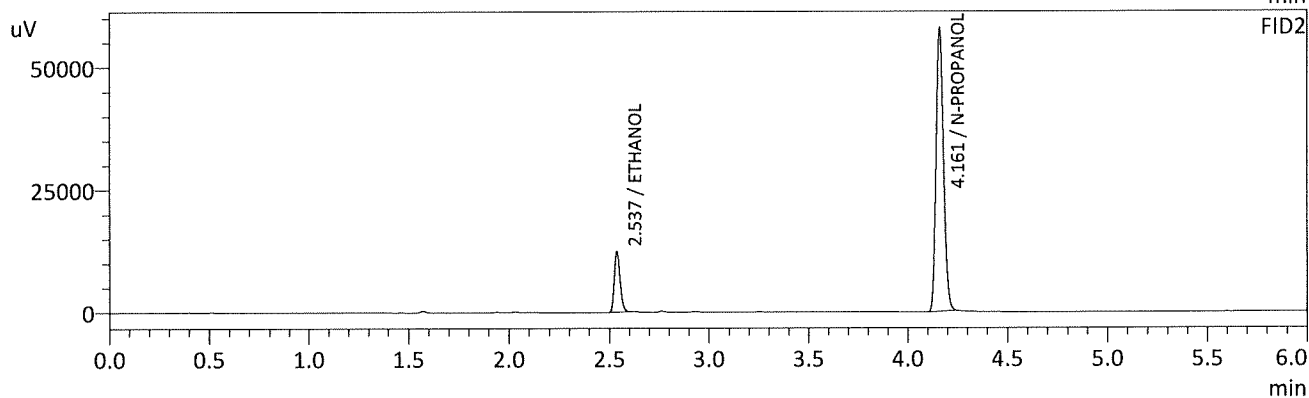
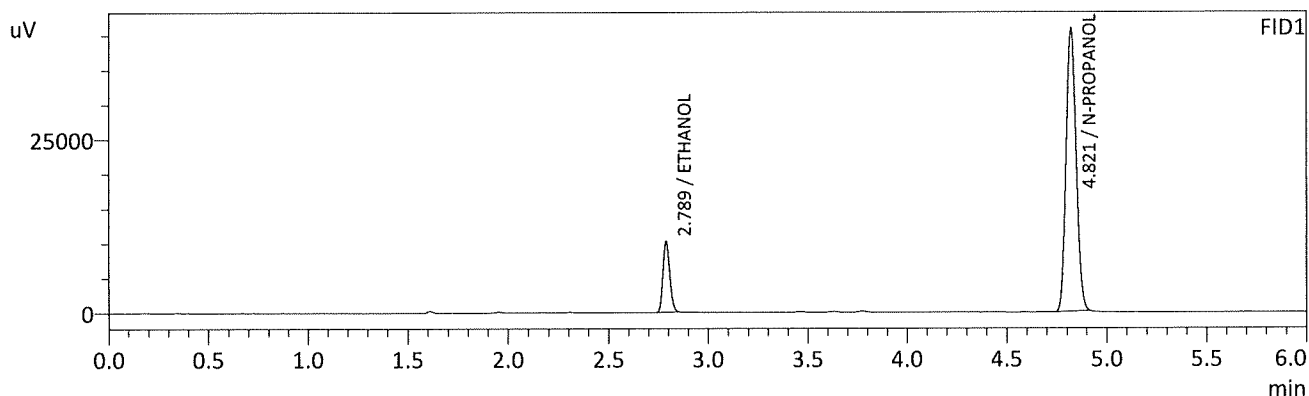
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0740	g/100cc	23840	10174
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142946	40489
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0735	g/100cc	24747	12374
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	152941	57646
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC-1-1-B
 Vial # : 5
 Data Filename : QC-1-1-B_2152022_005.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 12:59:54 PM
 Date Processed : 2/16/2022 7:31:07 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0739	g/100cc	23835	10176
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	143251	40628
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0734	g/100cc	24759	12376
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	153127	57746
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

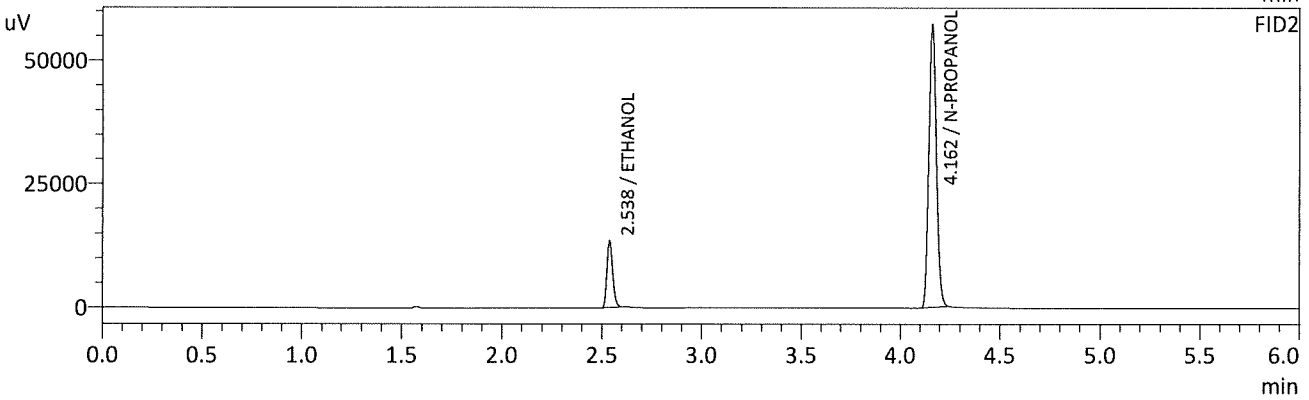
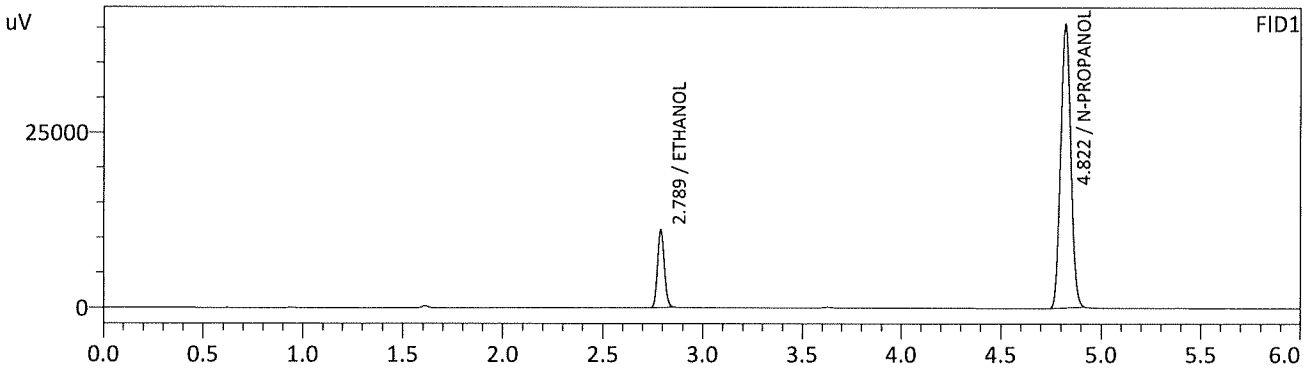
VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.08 QA		Item #		Analysis Date(s): 2/15/2022		
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0807	0.0803	0.0004	0.0805	0.0001	0.0804
(g/100cc)	0.0806	0.0802	0.0004	0.0804		
Analysis Method						
Refer to Blood Alcohol Method #1						
Instrument Information						
<i>Instrument information is stored centrally.</i>						
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			
0.080	0.076	0.084	0.004			
	Reported Result					
	0.080					

Calibration and control data are stored centrally.

15

Sample Name : 0.08 QA - A
 Vial # : 6
 Data Filename : 0.08 QA - A_2152022_006.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 1:09:12 PM
 Date Processed : 2/16/2022 7:31:08 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

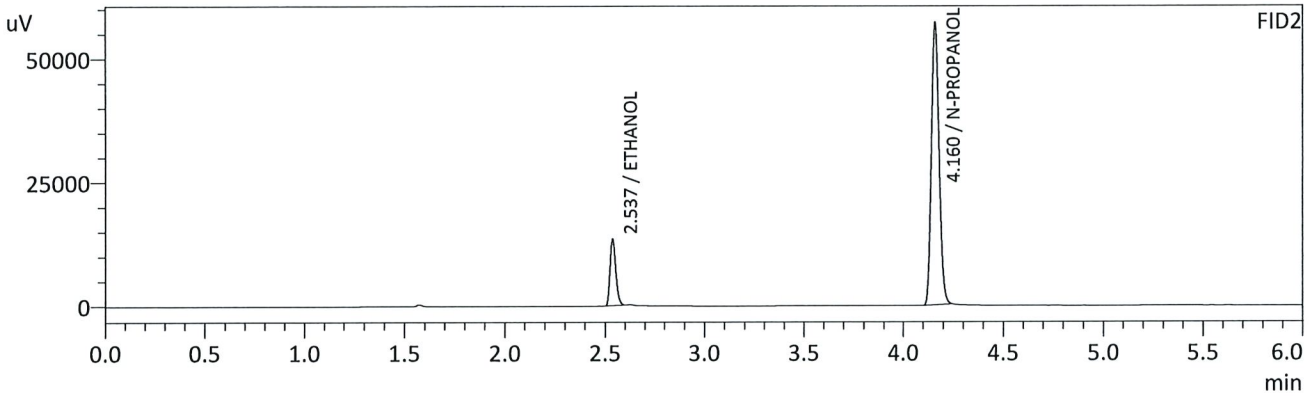
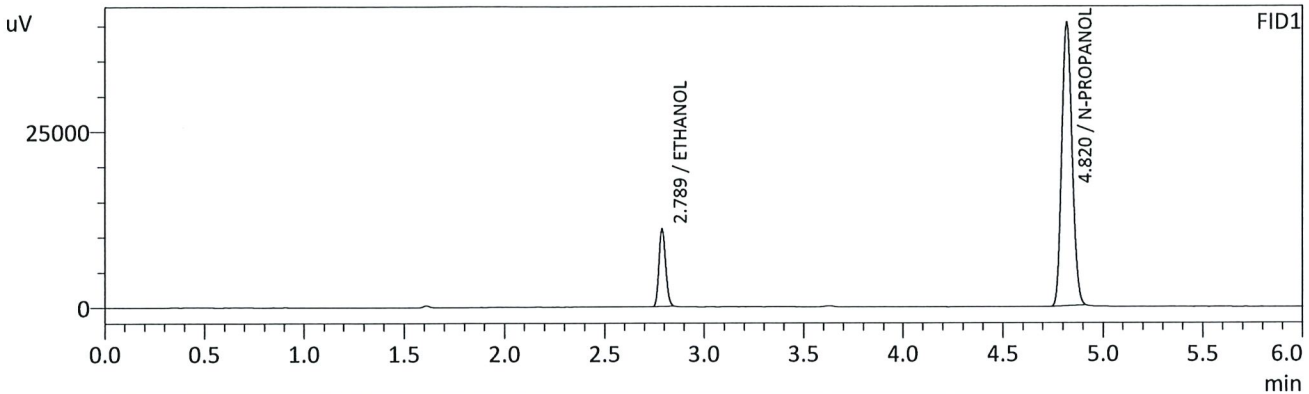
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	25878	11045
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	142055	40383
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0803	g/100cc	26951	13474
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151610	57143
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

B

Sample Name : 0.08 QA - B
 Vial # : 7
 Data Filename : 0.08 QA - B_2152022_007.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 1:18:57 PM
 Date Processed : 2/16/2022 7:31:10 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0806	g/100cc	25795	11028
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141805	40197
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0802	g/100cc	26834	13409
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	151172	56993
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Item #

Analysis Date(s): 2/15/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2111	0.2088	0.0023	0.2099	0.0013	0.2106
(g/100cc)	0.2122	0.2103	0.0019	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
0.210	0.199	0.221	0.011

Reported Result	
0.210	

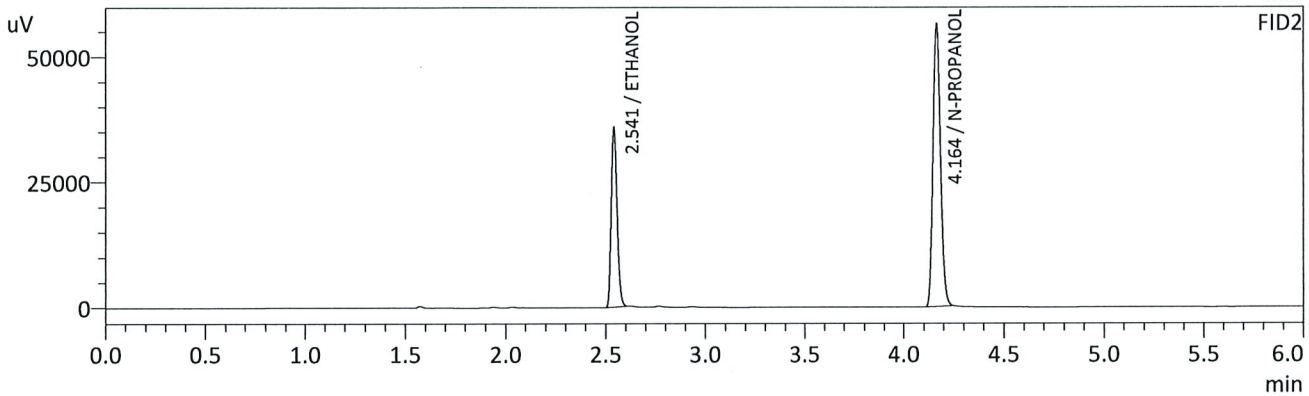
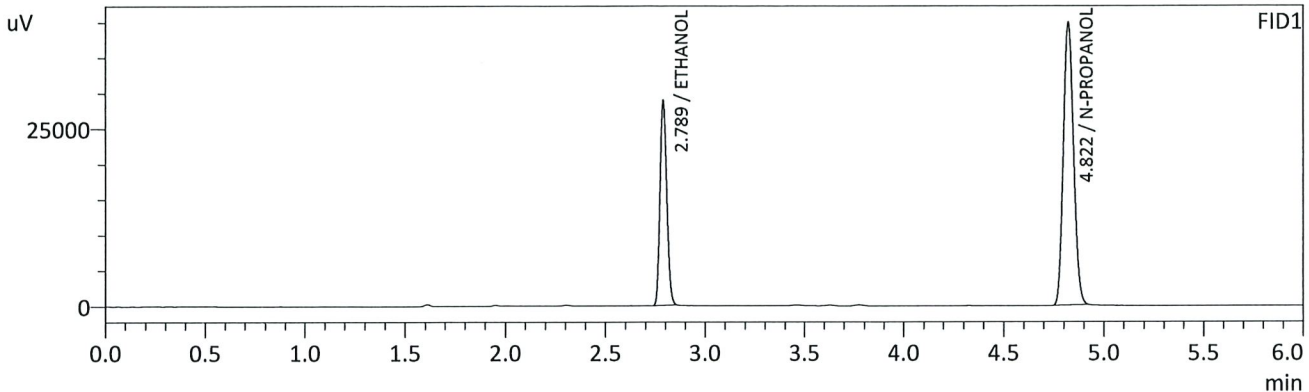
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 12/29/2021

15

Sample Name : QC-2-1-A
 Vial # : 26
 Data Filename : QC-2-1-A_2152022_026.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 4:19:47 PM
 Date Processed : 2/16/2022 7:31:32 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

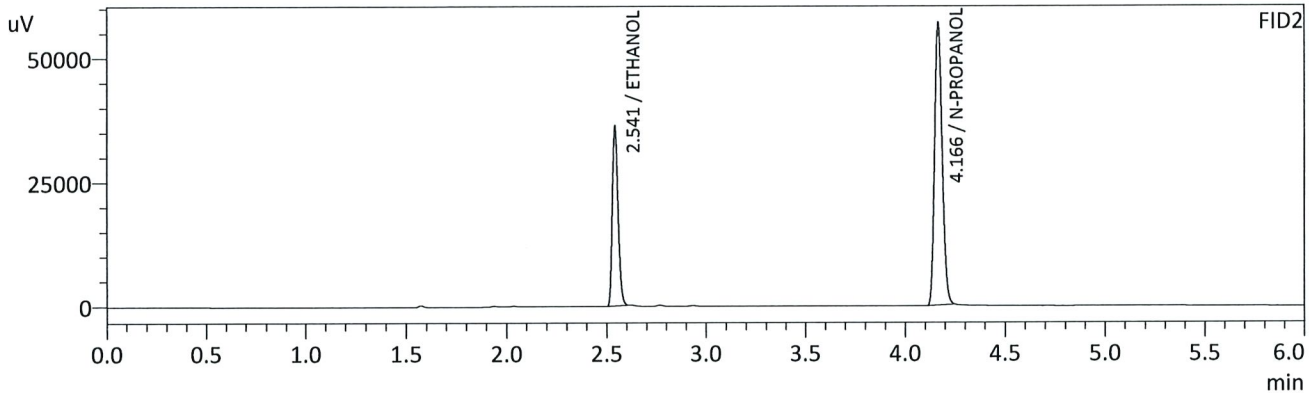
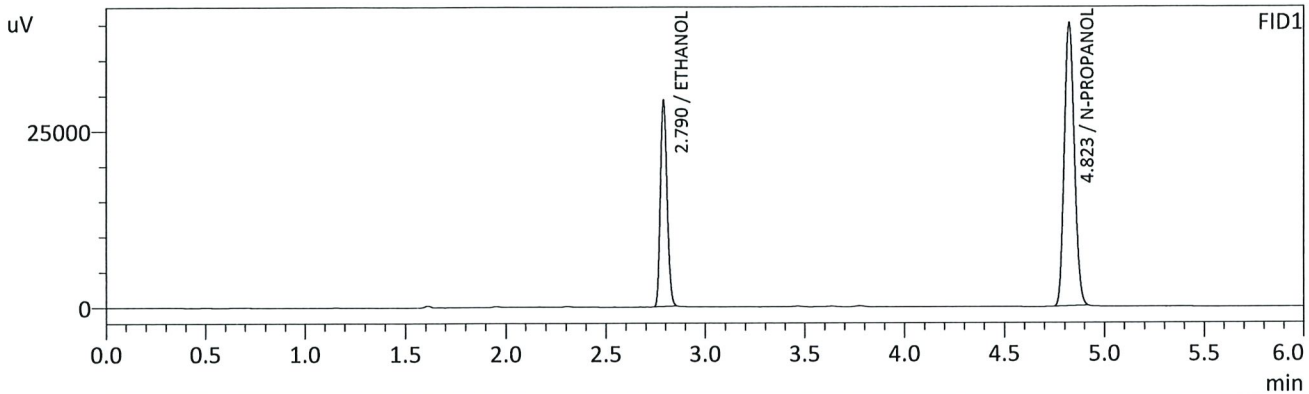
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2111	g/100cc	67460	28802
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	140230	39764
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2088	g/100cc	71305	35645
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	149398	56136
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : QC-2-1-B
 Vial # : 27
 Data Filename : QC-2-1-B_2152022_027.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 4:29:03 PM
 Date Processed : 2/16/2022 7:31:33 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.2122	g/100cc	68368	29159
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	141396	40136
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.2103	g/100cc	72392	36207
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	150534	56921
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

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VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC 1-2

Item #

Analysis Date(s): 2/15/2022

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0786	0.0782	0.0004	0.0784	0.0021	0.0794
(g/100cc)	0.0807	0.0804	0.0003	0.0805		

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	

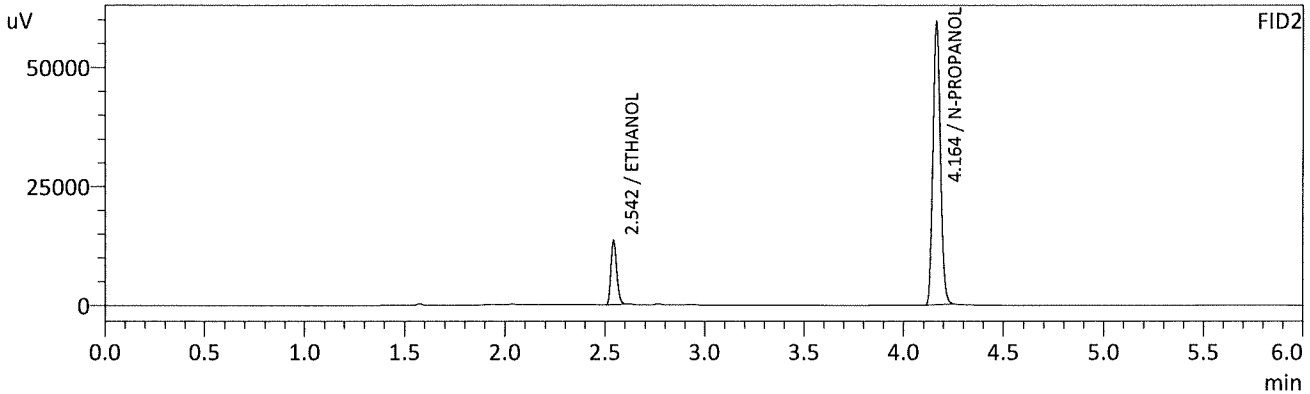
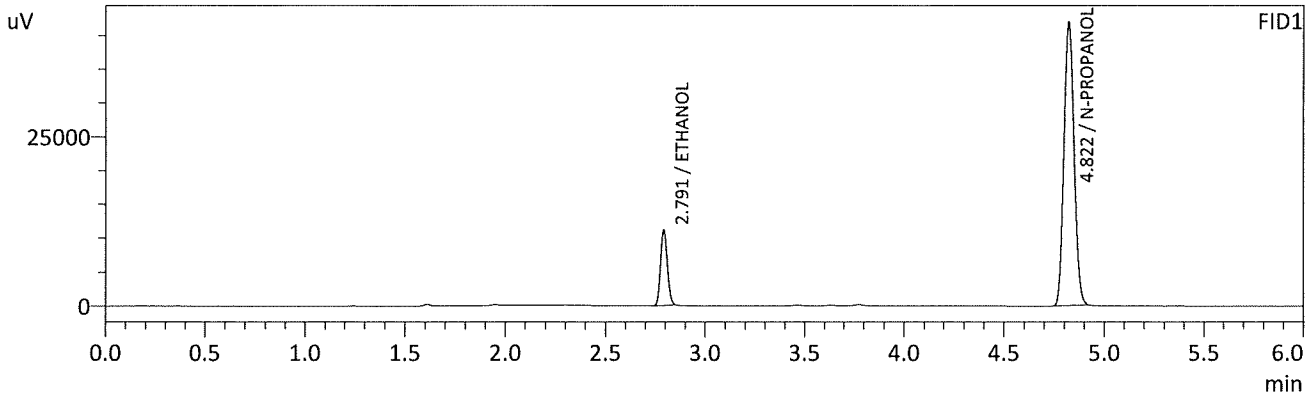
Calibration and control data are stored centrally.

Revision: 1

Issue Date: 12/29/2021

TS

Sample Name : QC1-2-A
 Vial # : 48
 Data Filename : QC1-2-A_2152022_048.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 7:48:56 PM
 Date Processed : 2/16/2022 7:31:56 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

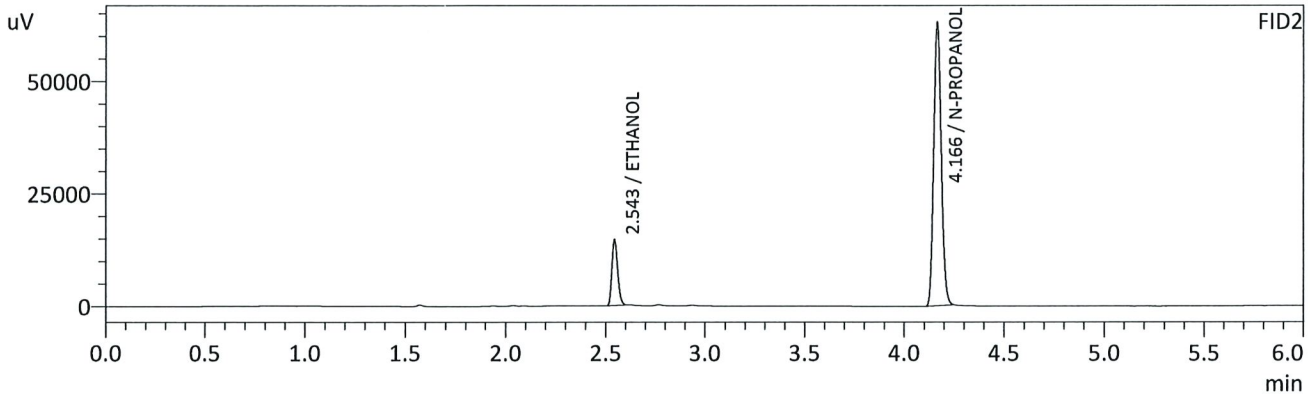
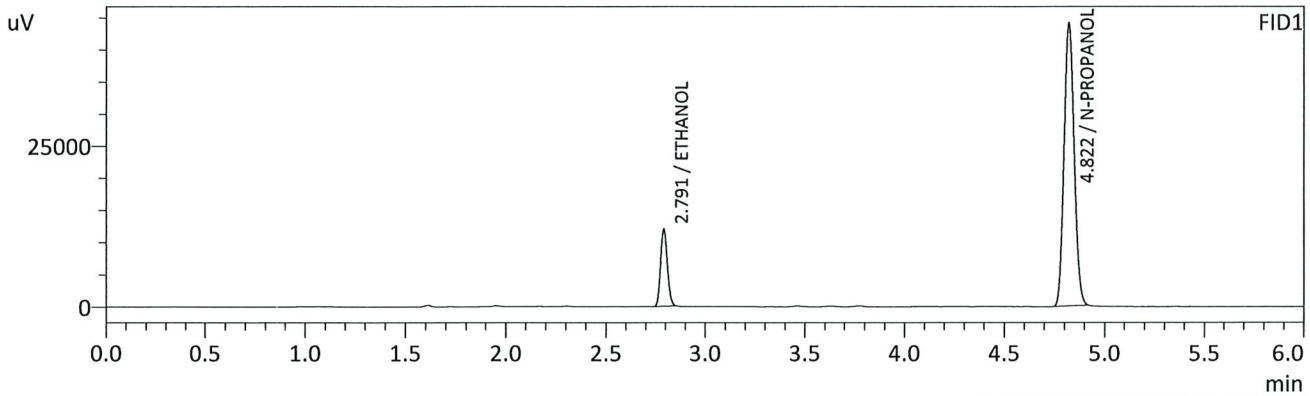
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0786	g/100cc	26070	11005
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	147098	41809
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0782	g/100cc	27166	13487
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	157083	59265
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

15

Sample Name : QC1-2-B
 Vial # : 49
 Data Filename : QC1-2-B_2152022_049.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 7:58:45 PM
 Date Processed : 2/16/2022 7:31:57 AM
 C:\LabSolutions\Data\2022\2-15-22 TS\ALCOHOL.gcm



FID1

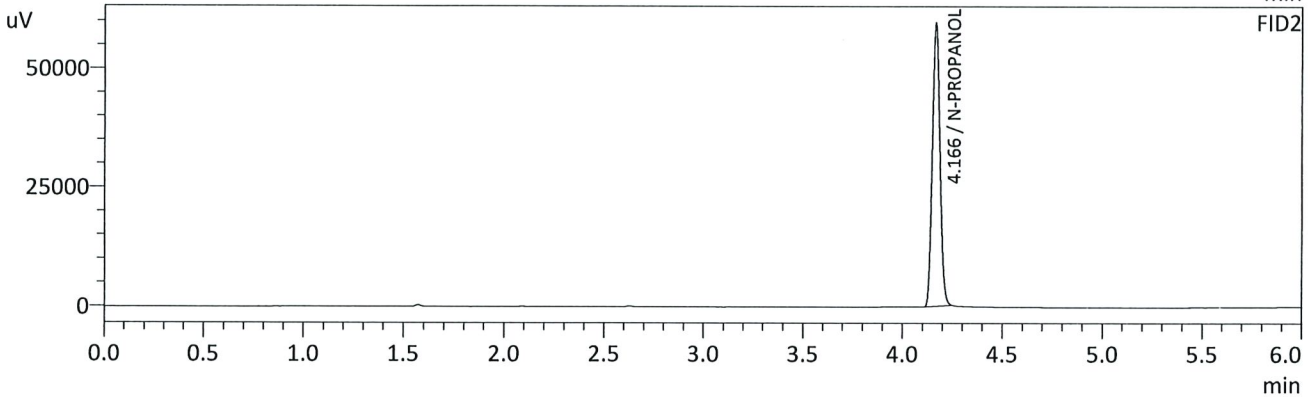
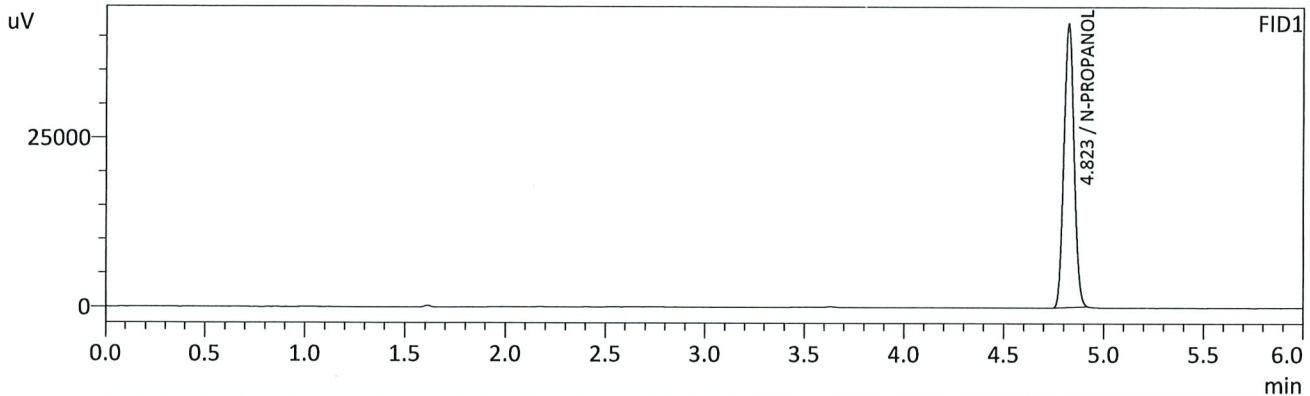
Name	Conc.	Unit	Area	Height
METHANOL	--	g/100cc	--	--
ACETALDEHYDE	--	g/100cc	--	--
ETHANOL	0.0807	g/100cc	28148	11887
ISOPROPYL ALCOHOL	--	g/100cc	--	--
ACETONE	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	154682	43979
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

FID2

Name	Conc.	Unit	Area	Height
ACETALDEHYDE	--	g/100cc	--	--
METHANOL	--	g/100cc	--	--
ETHANOL	0.0804	g/100cc	29386	14472
ACETONE	--	g/100cc	--	--
ISOPROPYL ALCOHOL	--	g/100cc	--	--
N-PROPANOL	0.0000	g/100cc	165164	62903
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

TS

Sample Name : INT STD BLK 3
 Vial # : 50
 Data Filename : INT STD BLK 3_2152022_050.gcd
 Method Filename : ALCOHOL.gcm
 Batch Filename : 02-15-22 TS.gcb
 Date Acquired : 2/15/2022 8:08:11 PM
 Date Processed : 2/16/2022 7:31:59 AM
 C:\LabSolutions\Data\2022\2-15-22 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	146948	41890
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	157094	59501
DFE	--	g/100cc	--	--
TFE	--	g/100cc	--	--

AS

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

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Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_2152022_001.gcd	0
2	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm	MULTI-COMP MIX_2152022_002.gcd	1
3	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2_2152022_003.gcd	0
4	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A_2152022_004.gcd	0
5	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_2152022_005.gcd	0
6	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A_2152022_006.gcd	0
7	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_2152022_007.gcd	0
8	P2022-0265-1-A	0:Unknown	ALCOHOL.gcm	P2022-0265-1-A_2152022_008.gcd	0
9	P2022-0265-1-B	0:Unknown	ALCOHOL.gcm	P2022-0265-1-B_2152022_009.gcd	0
10	P2022-0388-1-A	0:Unknown	ALCOHOL.gcm	P2022-0388-1-A_2152022_010.gcd	0
11	P2022-0388-1-B	0:Unknown	ALCOHOL.gcm	P2022-0388-1-B_2152022_011.gcd	0
12	P2022-0391-1-A	0:Unknown	ALCOHOL.gcm	P2022-0391-1-A_2152022_012.gcd	0
13	P2022-0391-1-B	0:Unknown	ALCOHOL.gcm	P2022-0391-1-B_2152022_013.gcd	0
14	P2022-0392-1-A	0:Unknown	ALCOHOL.gcm	P2022-0392-1-A_2152022_014.gcd	0
15	P2022-0392-1-B	0:Unknown	ALCOHOL.gcm	P2022-0392-1-B_2152022_015.gcd	0
16	P2022-0400-1-A	0:Unknown	ALCOHOL.gcm	P2022-0400-1-A_2152022_016.gcd	0
17	P2022-0400-1-B	0:Unknown	ALCOHOL.gcm	P2022-0400-1-B_2152022_017.gcd	0
18	P2022-0416-1-A	0:Unknown	ALCOHOL.gcm	P2022-0416-1-A_2152022_018.gcd	0
19	P2022-0416-1-B	0:Unknown	ALCOHOL.gcm	P2022-0416-1-B_2152022_019.gcd	0
20	P2022-0417-1-A	0:Unknown	ALCOHOL.gcm	P2022-0417-1-A_2152022_020.gcd	0
21	P2022-0417-1-B	0:Unknown	ALCOHOL.gcm	P2022-0417-1-B_2152022_021.gcd	0
22	P2022-0418-1-A	0:Unknown	ALCOHOL.gcm	P2022-0418-1-A_2152022_022.gcd	0
23	P2022-0418-1-B	0:Unknown	ALCOHOL.gcm	P2022-0418-1-B_2152022_023.gcd	0
24	P2022-0419-1-A	0:Unknown	ALCOHOL.gcm	P2022-0419-1-A_2152022_024.gcd	0
25	P2022-0419-1-B	0:Unknown	ALCOHOL.gcm	P2022-0419-1-B_2152022_025.gcd	0
26	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A_2152022_026.gcd	0
27	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_2152022_027.gcd	0
28	P2022-0420-1-A	0:Unknown	ALCOHOL.gcm	P2022-0420-1-A_2152022_028.gcd	0
29	P2022-0420-1-B	0:Unknown	ALCOHOL.gcm	P2022-0420-1-B_2152022_029.gcd	0
30	P2022-0421-1-A	0:Unknown	ALCOHOL.gcm	P2022-0421-1-A_2152022_030.gcd	0
31	P2022-0421-1-B	0:Unknown	ALCOHOL.gcm	P2022-0421-1-B_2152022_031.gcd	0
32	P2022-0422-1-A	0:Unknown	ALCOHOL.gcm	P2022-0422-1-A_2152022_032.gcd	0
33	P2022-0422-1-B	0:Unknown	ALCOHOL.gcm	P2022-0422-1-B_2152022_033.gcd	0
34	P2022-0423-1-A	0:Unknown	ALCOHOL.gcm	P2022-0423-1-A_2152022_034.gcd	0
35	P2022-0423-1-B	0:Unknown	ALCOHOL.gcm	P2022-0423-1-B_2152022_035.gcd	0
36	P2022-0434-1-A	0:Unknown	ALCOHOL.gcm	P2022-0434-1-A_2152022_036.gcd	0
37	P2022-0434-1-B	0:Unknown	ALCOHOL.gcm	P2022-0434-1-B_2152022_037.gcd	0
38	P2022-0458-1-A	0:Unknown	ALCOHOL.gcm	P2022-0458-1-A_2152022_038.gcd	0
39	P2022-0458-1-B	0:Unknown	ALCOHOL.gcm	P2022-0458-1-B_2152022_039.gcd	0
40	P2022-0459-1-A	0:Unknown	ALCOHOL.gcm	P2022-0459-1-A_2152022_040.gcd	0
41	P2022-0459-1-B	0:Unknown	ALCOHOL.gcm	P2022-0459-1-B_2152022_041.gcd	0
42	P2022-0460-1-A	0:Unknown	ALCOHOL.gcm	P2022-0460-1-A_2152022_042.gcd	0
43	P2022-0460-1-B	0:Unknown	ALCOHOL.gcm	P2022-0460-1-B_2152022_043.gcd	0
44	P2022-0461-1-A	0:Unknown	ALCOHOL.gcm	P2022-0461-1-A_2152022_044.gcd	0
45	P2022-0461-1-B	0:Unknown	ALCOHOL.gcm	P2022-0461-1-B_2152022_045.gcd	0
46	P2022-0463-1-A	0:Unknown	ALCOHOL.gcm	P2022-0463-1-A_2152022_046.gcd	0
47	P2022-0463-1-B	0:Unknown	ALCOHOL.gcm	P2022-0463-1-B_2152022_047.gcd	0
48	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_2152022_048.gcd	0
49	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_2152022_049.gcd	0
50	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_2152022_050.gcd	0

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

