

REVIEWED

By Galina Giso at 12:40 pm, Apr 22, 2022

4/21/2022

Worklist: 5801

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2022-0594	1	BCK	Alcohol Analysis	
C2022-0597	2	BCK	Alcohol Analysis	
C2022-0606	1	BCK	Alcohol Analysis	
C2022-0608	1	BCK	Alcohol Analysis	
C2022-0612	1	BCK	Alcohol Analysis	
C2022-0617	1	BCK	Alcohol Analysis	
C2022-0620	1	BCK	Alcohol Analysis	
C2022-0632	1	BCK	Alcohol Analysis	
C2022-0649	1	BCK	Alcohol Analysis	
C2022-0658	1	BCK	Alcohol Analysis	
C2022-0705	1	BCK	Alcohol Analysis	
C2022-0707	1	BCK	Alcohol Analysis	
C2022-0722	1	BCK	Alcohol Analysis	
C2022-0727	1	BCK	Alcohol Analysis	
C2022-0728	1	BCK	Alcohol Analysis	
C2022-0760	1	BCK	Alcohol Analysis	
C2022-0773	1	BCK	Alcohol Analysis	
C2022-0802	1	BCK	Alcohol Analysis	
C2022-0805	1	BCK	Alcohol Analysis	
C2022-0835	1	BCK	Alcohol Analysis	
C2022-0836	1	BCK	Alcohol Analysis	



Worklist: 5801

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
C2022-0856	1	BCK	Alcohol Analysis



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Region 1 CDA Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255850700
 Shimadzu HS-20 Serial #C12595700181
 Lab Solutions Software Ver. 5.99
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Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL (short).GCM
2	0.050	1:Standard:(R)	1	ALCOHOL (short).GCM
3	0.100	1:Standard:(R)	2	ALCOHOL (short).GCM
4	0.200	1:Standard:(R)	3	ALCOHOL (short).GCM
5	0.300	1:Standard:(R)	4	ALCOHOL (short).GCM
6	0.500	1:Standard:(R)	5	ALCOHOL (short).GCM
7	INT STD BLK 2	0:Unknown	0	ALCOHOL (short).GCM
8	MULTI-COMP MIX	1:Standard:(R)	6	ALCOHOL (short).GCM
9	INT STD BLK 3	0:Unknown	0	ALCOHOL (short).GCM
10	QC-1-1-A	0:Unknown	0	ALCOHOL (short).GCM
11	QC-1-1-B	0:Unknown	0	ALCOHOL (short).GCM
12	0.08 QA - A	0:Unknown	0	ALCOHOL (short).GCM
13	0.08 QA - B	0:Unknown	0	ALCOHOL (short).GCM
14	C2022-0594-1-A	0:Unknown	0	ALCOHOL (short).GCM
15	C2022-0594-1-B	0:Unknown	0	ALCOHOL (short).GCM
16	C2022-0597-2-A	0:Unknown	0	ALCOHOL (short).GCM
17	C2022-0597-2-B	0:Unknown	0	ALCOHOL (short).GCM
18	C2022-0606-1-A	0:Unknown	0	ALCOHOL (short).GCM
19	C2022-0606-1-B	0:Unknown	0	ALCOHOL (short).GCM
20	C2022-0608-1-A	0:Unknown	0	ALCOHOL (short).GCM
21	C2022-0608-1-B	0:Unknown	0	ALCOHOL (short).GCM
22	C2022-0612-1-A	0:Unknown	0	ALCOHOL (short).GCM
23	C2022-0612-1-B	0:Unknown	0	ALCOHOL (short).GCM
24	C2022-0617-1-A	0:Unknown	0	ALCOHOL (short).GCM
25	C2022-0617-1-B	0:Unknown	0	ALCOHOL (short).GCM
26	C2022-0620-1-A	0:Unknown	0	ALCOHOL (short).GCM
27	C2022-0620-1-B	0:Unknown	0	ALCOHOL (short).GCM
28	C2022-0632-1-A	0:Unknown	0	ALCOHOL (short).GCM
29	C2022-0632-1-B	0:Unknown	0	ALCOHOL (short).GCM
30	C2022-0649-1-A	0:Unknown	0	ALCOHOL (short).GCM
31	C2022-0649-1-B	0:Unknown	0	ALCOHOL (short).GCM
32	QC-1-2-A	0:Unknown	0	ALCOHOL (short).GCM
33	QC-1-2-B	0:Unknown	0	ALCOHOL (short).GCM
34	C2022-0658-1-A	0:Unknown	0	ALCOHOL (short).GCM
35	C2022-0658-1-B	0:Unknown	0	ALCOHOL (short).GCM
36	C2022-0705-1-A	0:Unknown	0	ALCOHOL (short).GCM
37	C2022-0705-1-B	0:Unknown	0	ALCOHOL (short).GCM
38	C2022-0707-1-A	0:Unknown	0	ALCOHOL (short).GCM
39	C2022-0707-1-B	0:Unknown	0	ALCOHOL (short).GCM
40	C2022-0722-1-A	0:Unknown	0	ALCOHOL (short).GCM
41	C2022-0722-1-B	0:Unknown	0	ALCOHOL (short).GCM
42	C2022-0727-1-A	0:Unknown	0	ALCOHOL (short).GCM
43	C2022-0727-1-B	0:Unknown	0	ALCOHOL (short).GCM
44	C2022-0728-1-A	0:Unknown	0	ALCOHOL (short).GCM
45	C2022-0728-1-B	0:Unknown	0	ALCOHOL (short).GCM
46	C2022-0760-1-A	0:Unknown	0	ALCOHOL (short).GCM
47	C2022-0760-1-B	0:Unknown	0	ALCOHOL (short).GCM
48	C2022-0773-1-A	0:Unknown	0	ALCOHOL (short).GCM
49	C2022-0773-1-B	0:Unknown	0	ALCOHOL (short).GCM
50	C2022-0802-1-A	0:Unknown	0	ALCOHOL (short).GCM
51	C2022-0802-1-B	0:Unknown	0	ALCOHOL (short).GCM
52	C2022-0805-1-A	0:Unknown	0	ALCOHOL (short).GCM
53	C2022-0805-1-B	0:Unknown	0	ALCOHOL (short).GCM
54	QC-1-3-A	0:Unknown	0	ALCOHOL (short).GCM
55	QC-1-3-B	0:Unknown	0	ALCOHOL (short).GCM
56	C2022-0835-1-A	0:Unknown	0	ALCOHOL (short).GCM
57	C2022-0835-1-B	0:Unknown	0	ALCOHOL (short).GCM
58	C2022-0836-1-A	0:Unknown	0	ALCOHOL (short).GCM
59	C2022-0836-1-B	0:Unknown	0	ALCOHOL (short).GCM

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Vial#	Sample Name	Sample Type	Level#	Method File
60	C2022-0856-1-A	0:Unknown	0	ALCOHOL (short).GCM
61	C2022-0856-1-B	0:Unknown	0	ALCOHOL (short).GCM
62	QC-1-4-A	0:Unknown	0	ALCOHOL (short).GCM
63	QC-1-4-B	0:Unknown	0	ALCOHOL (short).GCM
64	INT STD BLK 4	0:Unknown	0	ALCOHOL (short).GCM

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Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls

Run Date(s):

4-20-2022

Calibration Date: (if different)

Worklist #:

5801

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0717 g/100cc	
					0.0744 g/100cc	
					0.0765 g/100cc	
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0762 g/100cc	
					g/100cc	
					g/100cc	
Multi-Component mixture:		Exp:	22-Jul	Lot #	FN07101701	OK
Curve Fit:			Column 1	0.99991	Column2	0.99977

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0473	0.0456	0.0017	0.0464
100	0.100	0.090 - 0.110	0.0945	0.0926	0.0019	0.0935
200	0.200	0.180 - 0.220	0.1957	0.1928	0.0029	0.1942
300	0.300	0.270 - 0.330	0.2994	0.2976	0.0018	0.2985
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5033	0.5062	0.0029	0.5047
Internal Standard	Average	(-) 20%	(+) 20%			
N-Propanol:	204620.1	163696.0	245544.1			

Aqueous Controls

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

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Internal Standard Monitoring Worksheet

Worklist #:	5801	Run Date(s):	4-20-2022
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Internal Standard Solution: AO14463901/192886	Prep Date: 1/24/22	Exp Date: 7/24/22
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Sample Name	Column 1 Value	Column 2 Value	Average
0.080	179498	195307	187402.5
0.080	179039	195004	187021.5
QC1	178717	194532	186624.5
QC1	176875	192402	184638.5
QC1	195618	212830	204224
QC1	193395	210910	202152.5
QC1	208954	227810	218382
QC1	210464	229303	219883.5
QC1	219119	238818	228968.5
QC1	217234	236572	226903
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

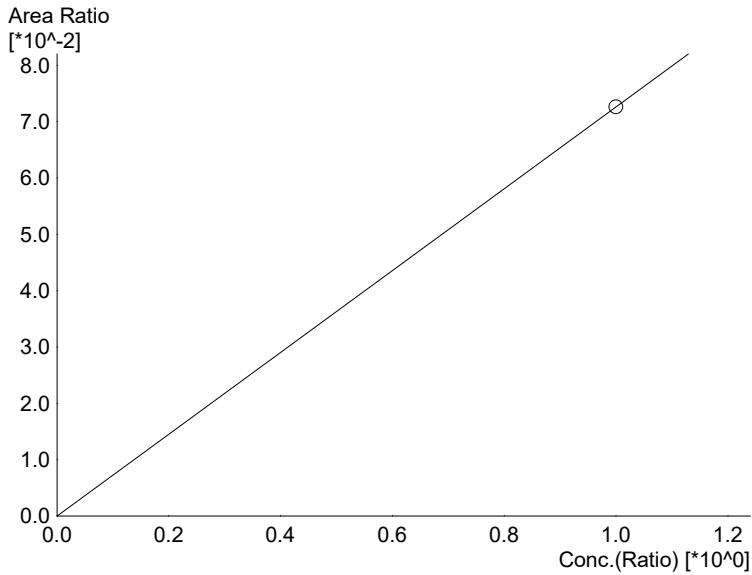
Combined Average	(-)20%	(+)20%
204620.1	163696.0	245544.1

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Calibration Table

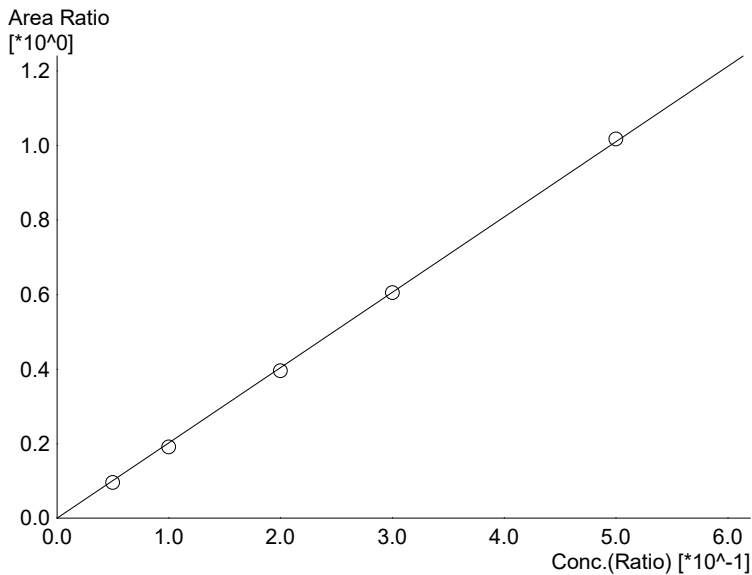
Laboratory : Coeur d' Alene
 Instrument Name : Nexis GC2030
 Instrument Serial # : C12255850700 / C12595700181

<<Data File>>
 Method File :C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Batch File :C:\LabSolutions\Data\4-20-22\4-20-22.gcb
 Date Acquired :4/20/2022 3:45:25 PM
 Date Created :4/20/2022 3:42:30 PM
 Date Modified :4/21/2022 10:35:39 AM



Name : Methanol
 Detector Name: FID1
 Function : $f(x)=0.0725935*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

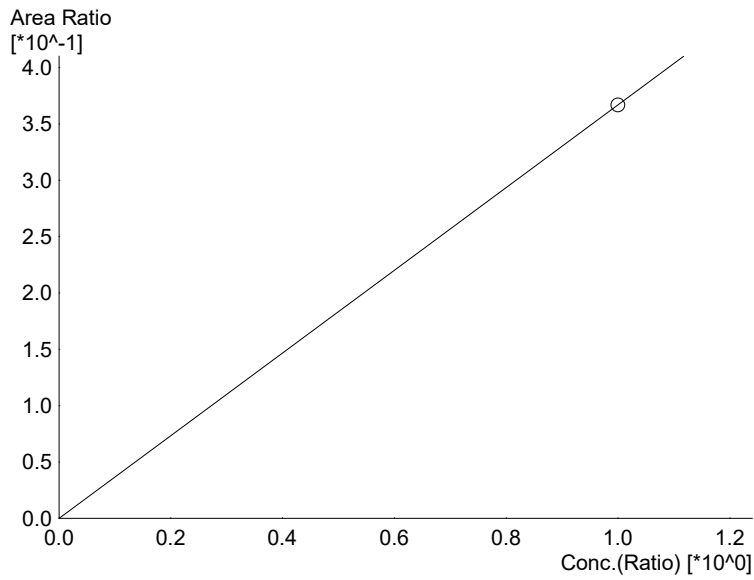
#	Conc.	Area	Std. Conc.
6	1.000	8710	1.0000



Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.02024*x+0$
 R² value= 0.9999172
 FitType: Linear
 ZeroThrough: Through

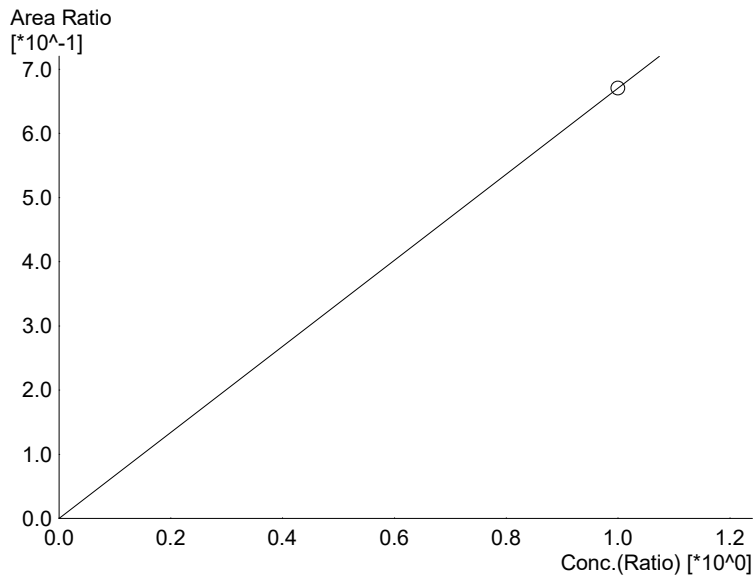
#	Conc.	Area	Std. Conc.
1	0.050	18226	0.0473
2	0.100	35126	0.0945
3	0.200	71986	0.1957
4	0.300	110983	0.2994
5	0.500	187354	0.5033

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Name : Isopropyl Alcohol
 Detector Name: FID1
 Function : $f(x)=0.366711*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	43999	1.0000



Name : Acetone
 Detector Name: FID1
 Function : $f(x)=0.670393*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

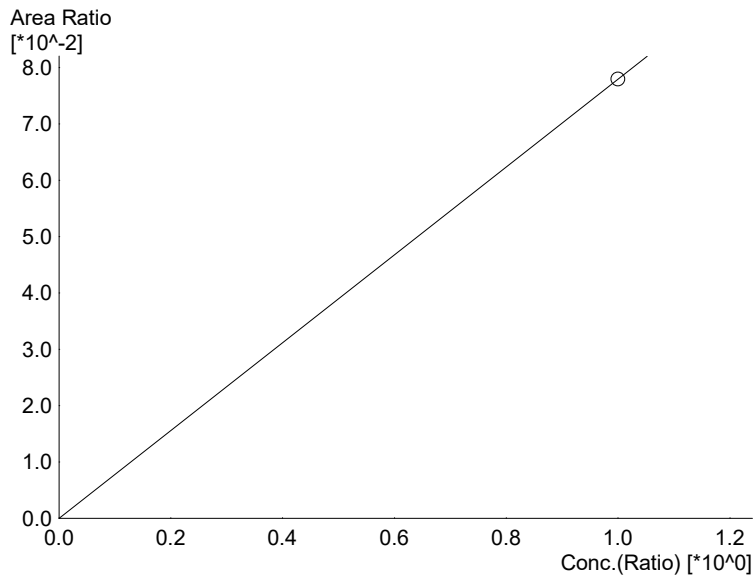
#	Conc.	Area	Std. Conc.
6	1.000	80437	1.0000



Name : Fluor. Hydrocarbon(s)
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Through

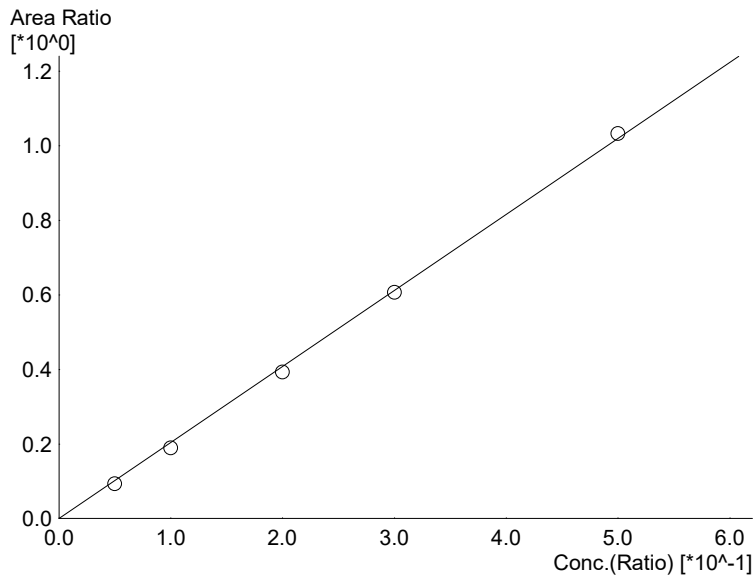
#	Conc.	Area	Std. Conc.
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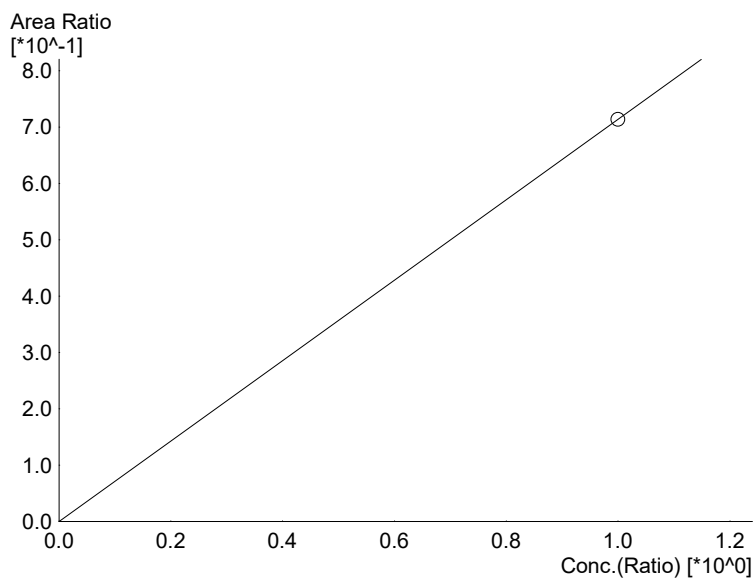
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0.0779236*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	9941	1.0000



Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.03934*x+0$
 R² value= 0.9997777
 FitType: Linear
 ZeroThrough: Through

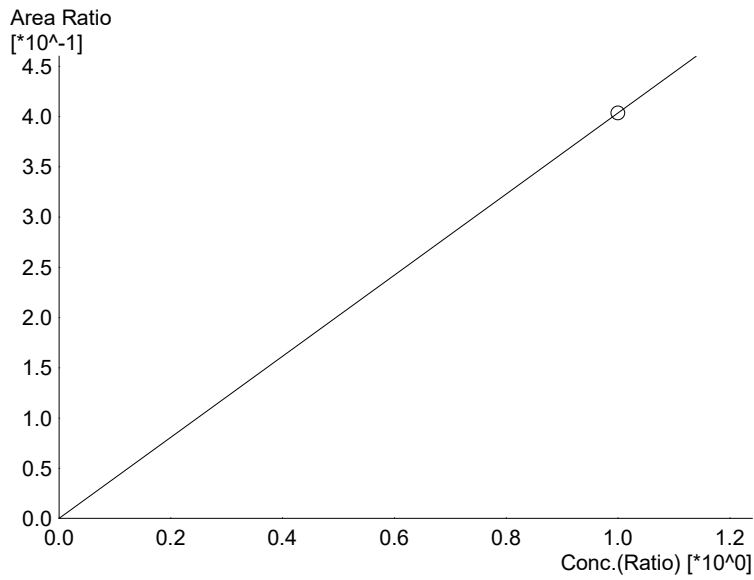
#	Conc.	Area	Std. Conc.
1	0.050	19153	0.0456
2	0.100	37342	0.0926
3	0.200	77028	0.1928
4	0.300	119904	0.2976
5	0.500	204936	0.5062



Name : Acetone
 Detector Name: FID2
 Function : $f(x)=0.713486*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	91024	1.0000

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Name : Isopropyl Alcohol
 Detector Name: FID2
 Function : $f(x)=0.403507*x+0$
 R² value= 1.000000
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	51478	1.0000

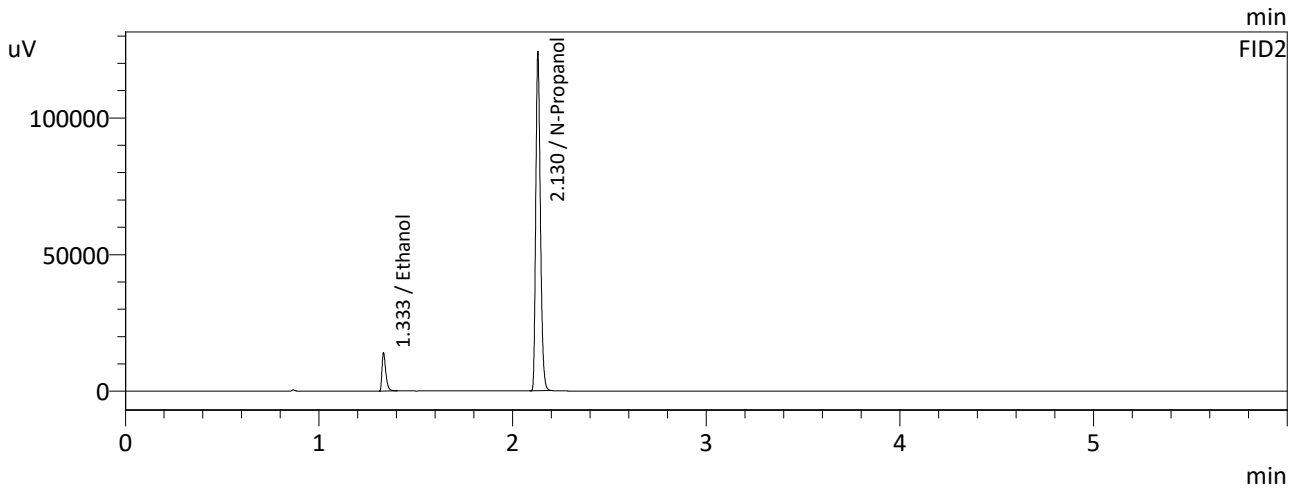
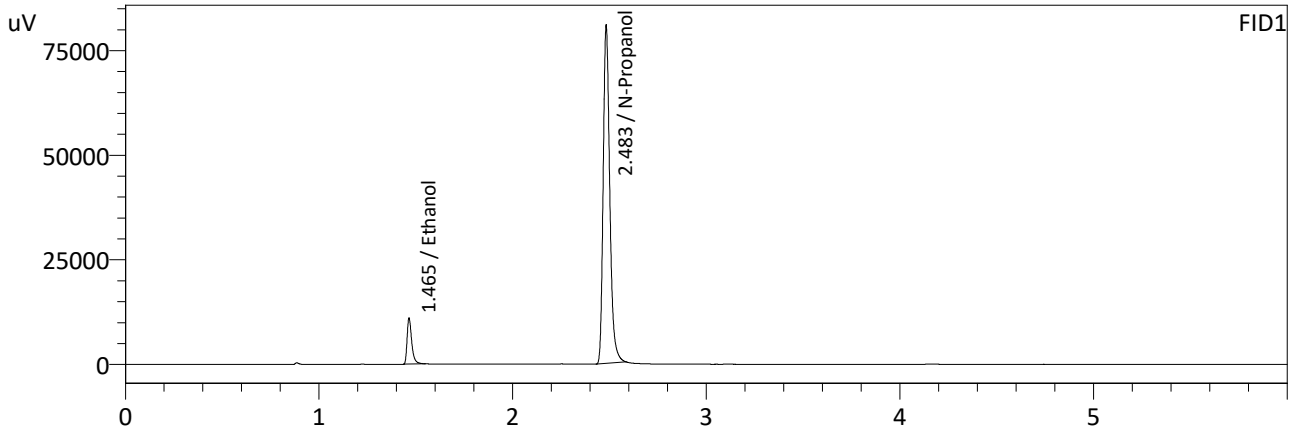


Name : Fluor. Hydrocarbon(s)
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Through

#	Conc.	Area	Std. Conc.
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Sample Name : 0.050
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:09:13 PM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



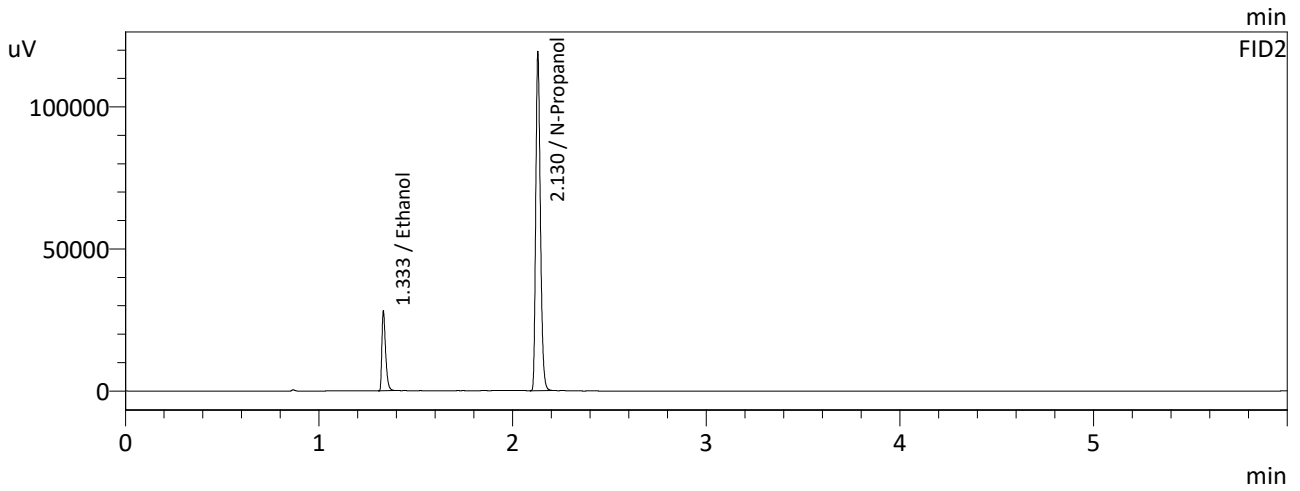
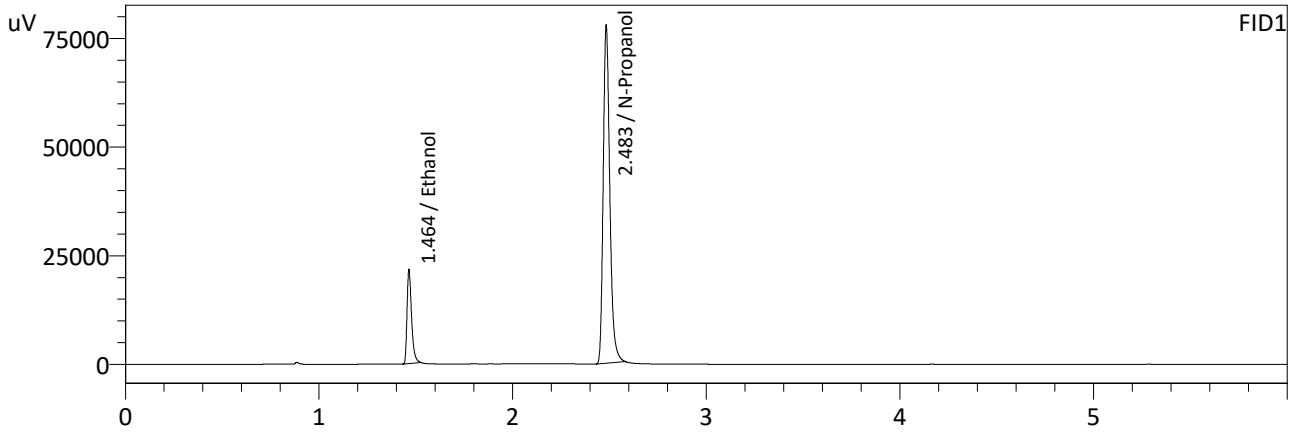
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0473	18226	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	190624	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0456	19153	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	205534	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.100
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:18:16 PM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



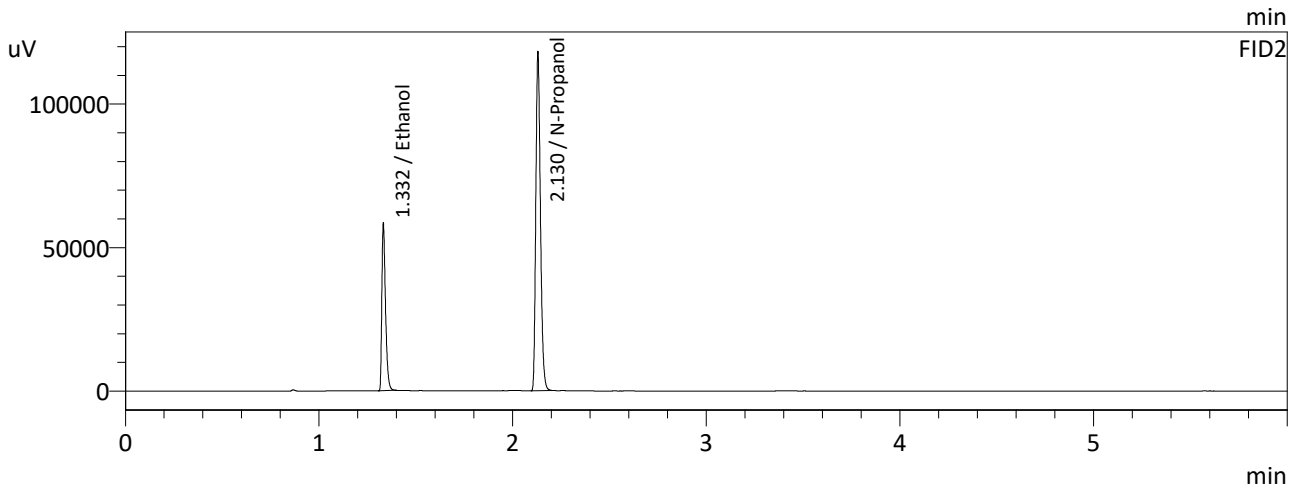
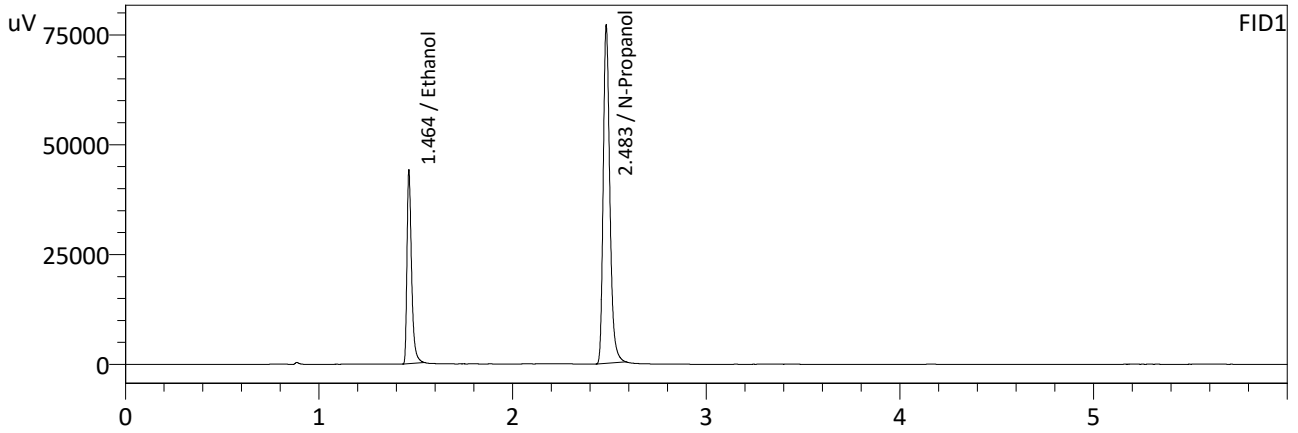
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0945	35126	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183943	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0926	37342	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197577	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.200
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:27:18 PM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



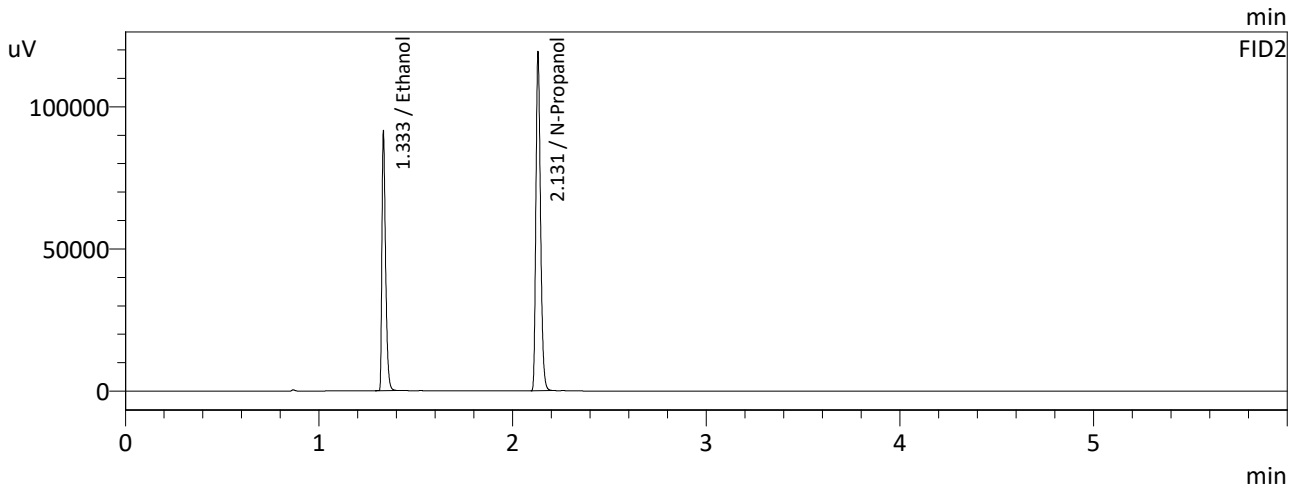
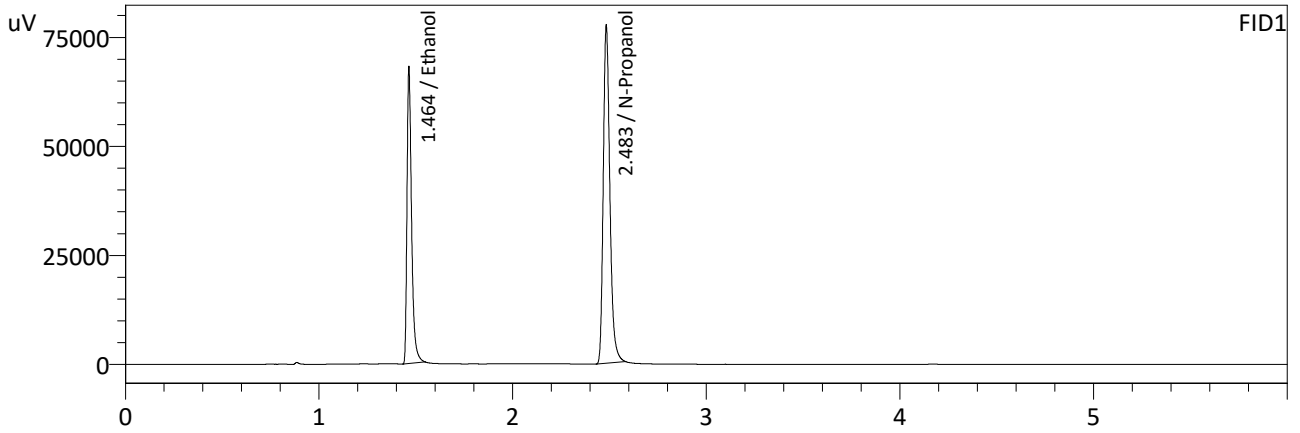
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1957	71986	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	182020	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1928	77028	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195901	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.300
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:36:22 PM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



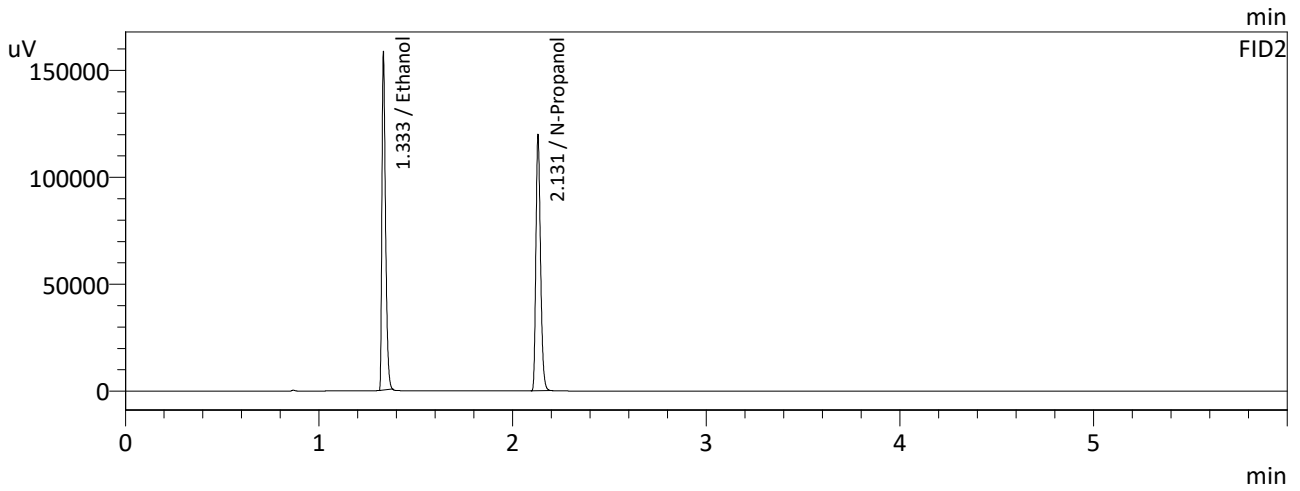
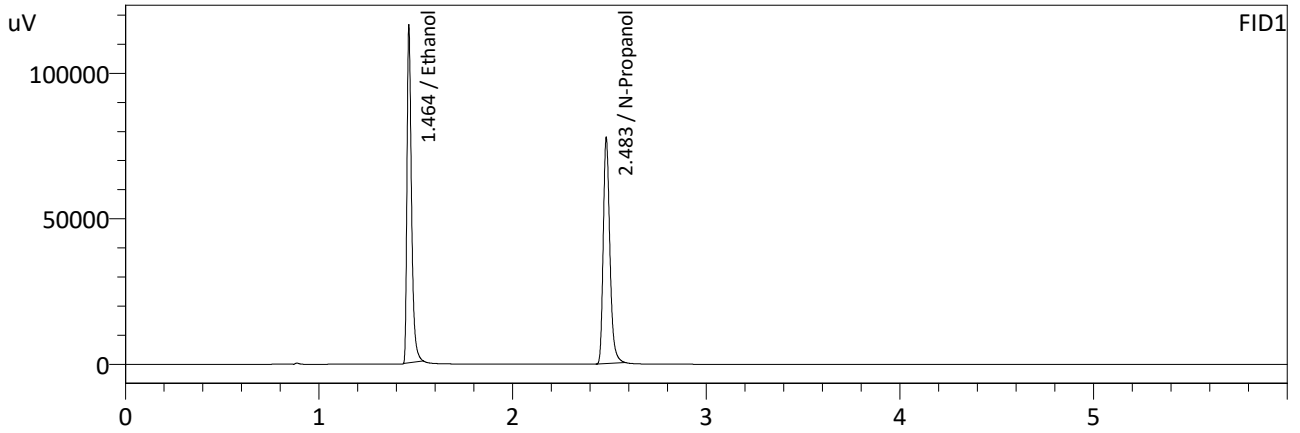
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2994	110983	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183454	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2976	119904	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	197552	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:45:25 PM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



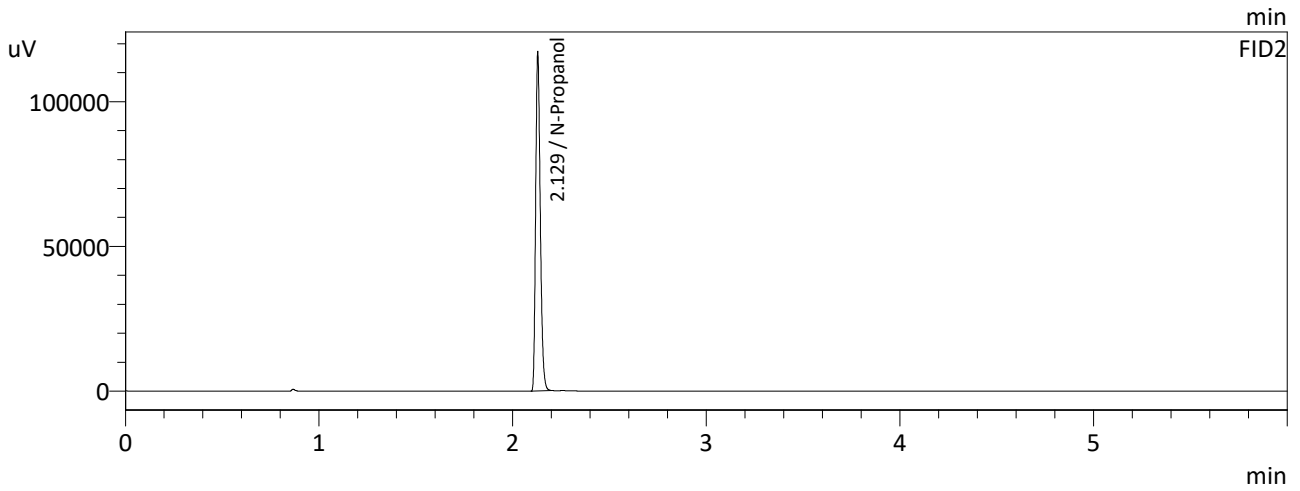
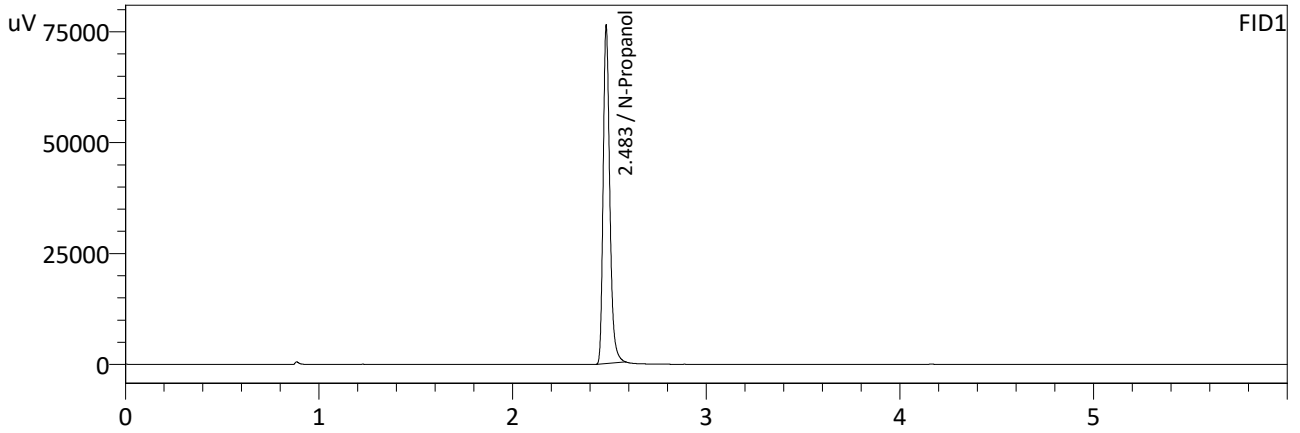
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5033	187354	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184229	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5062	204936	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198520	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK 1
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:00:10 PM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



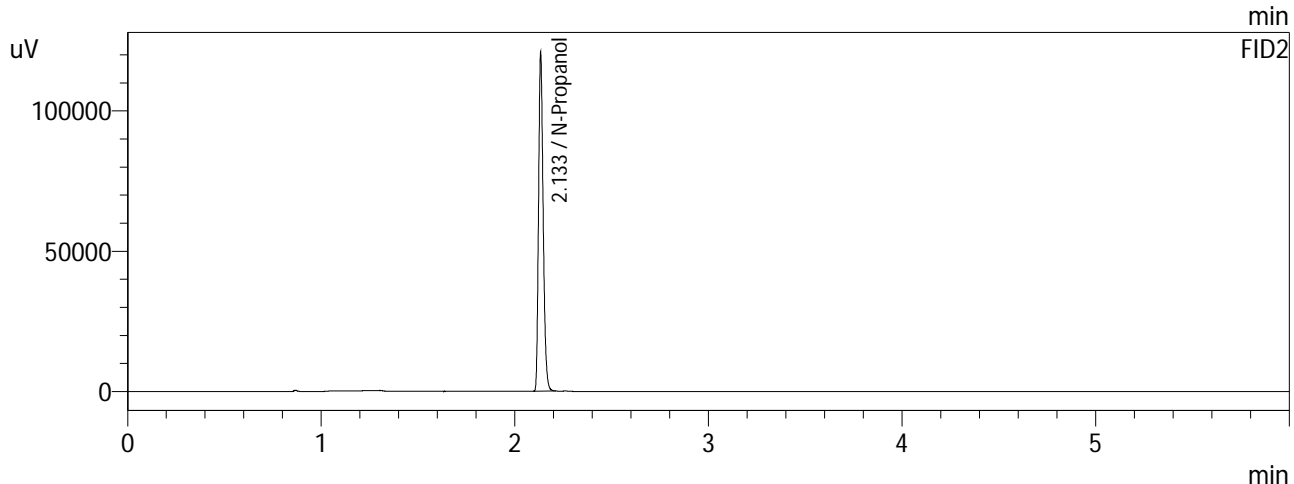
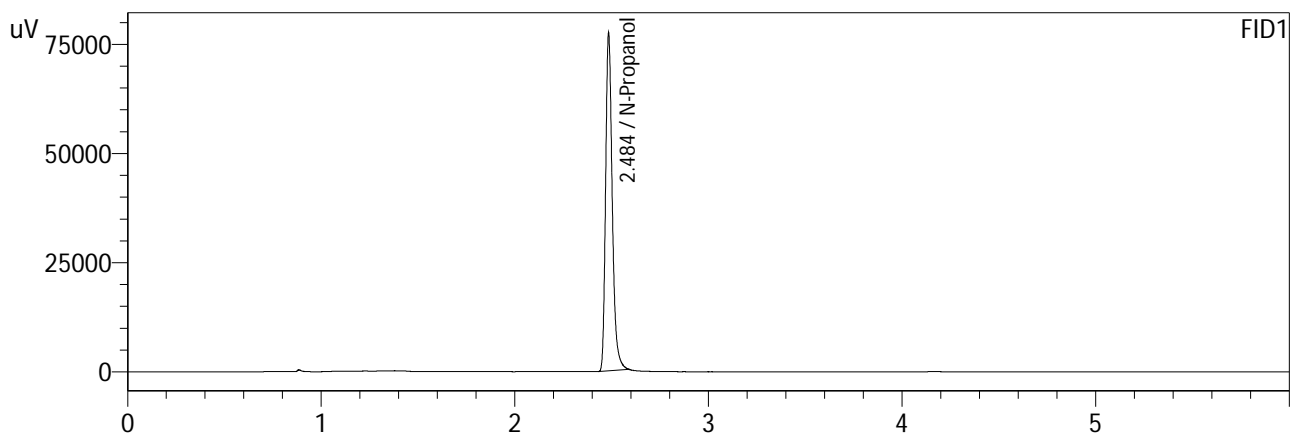
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	180310	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	194116	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : INT STD BLK 2
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 3:54:27 PM
 Vial # : 7
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

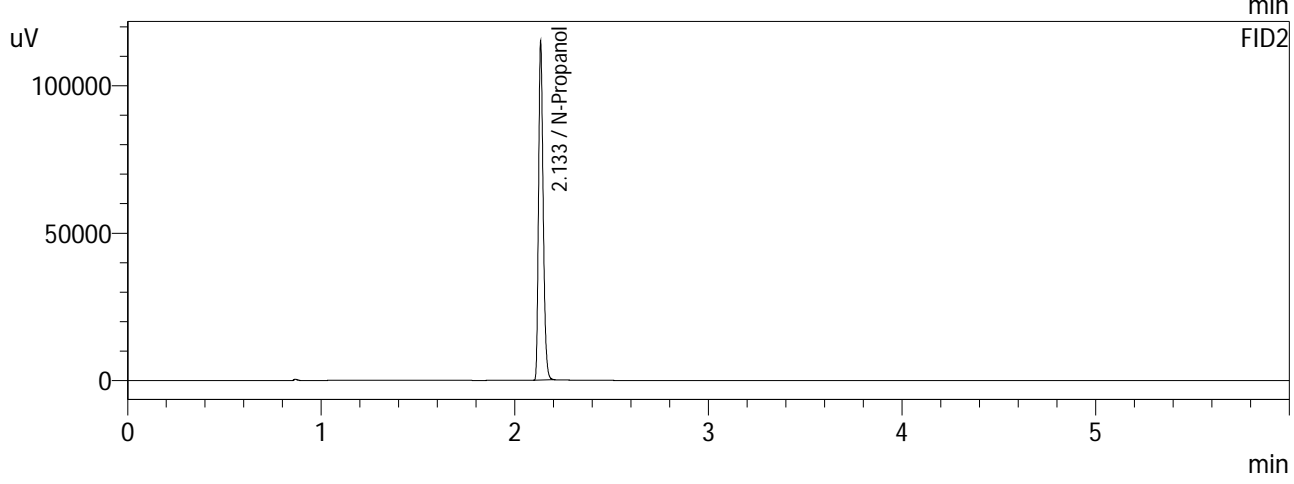
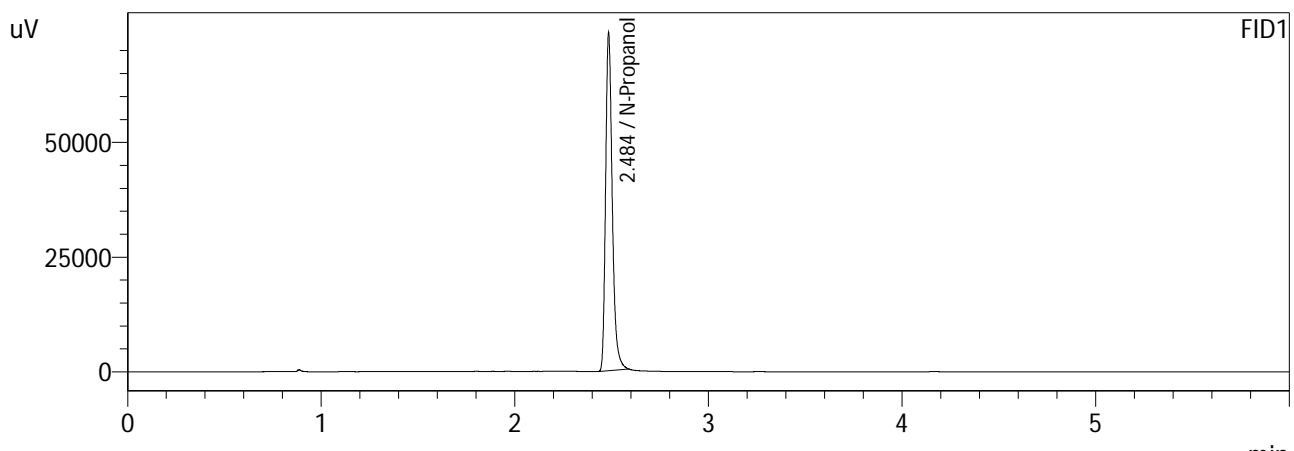
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184453	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200568	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 3
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:12:33 PM
 Vial # : 9
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

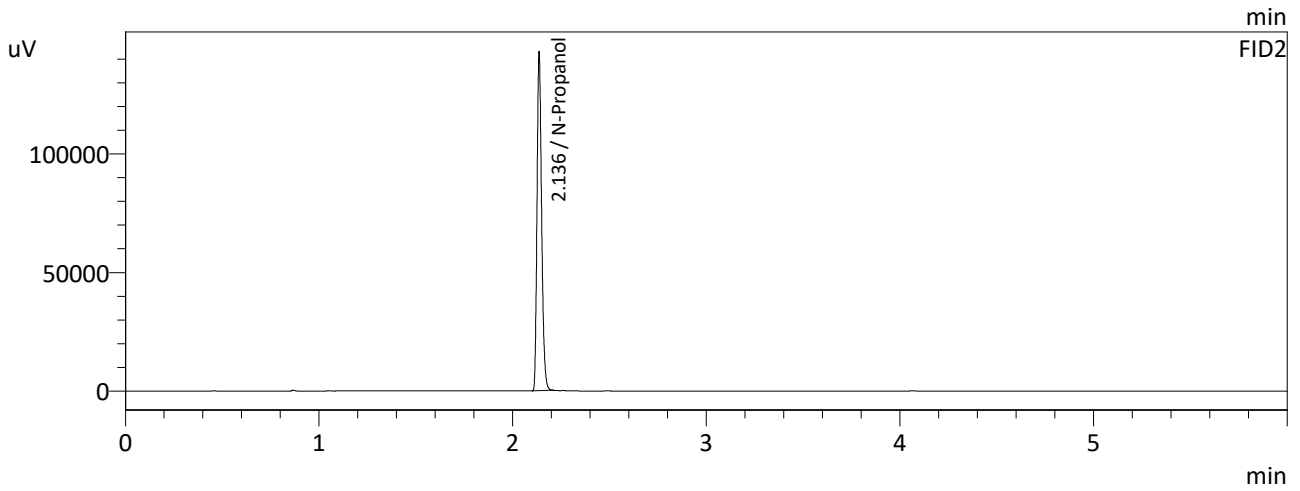
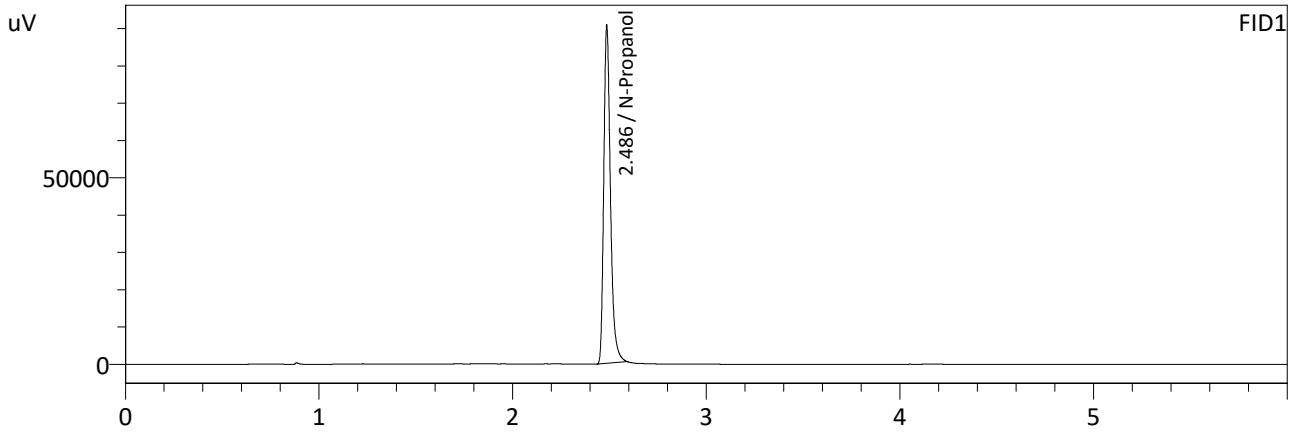
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	175663	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	190910	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 4
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/21/2022 12:31:34 AM
 Vial # : 64
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



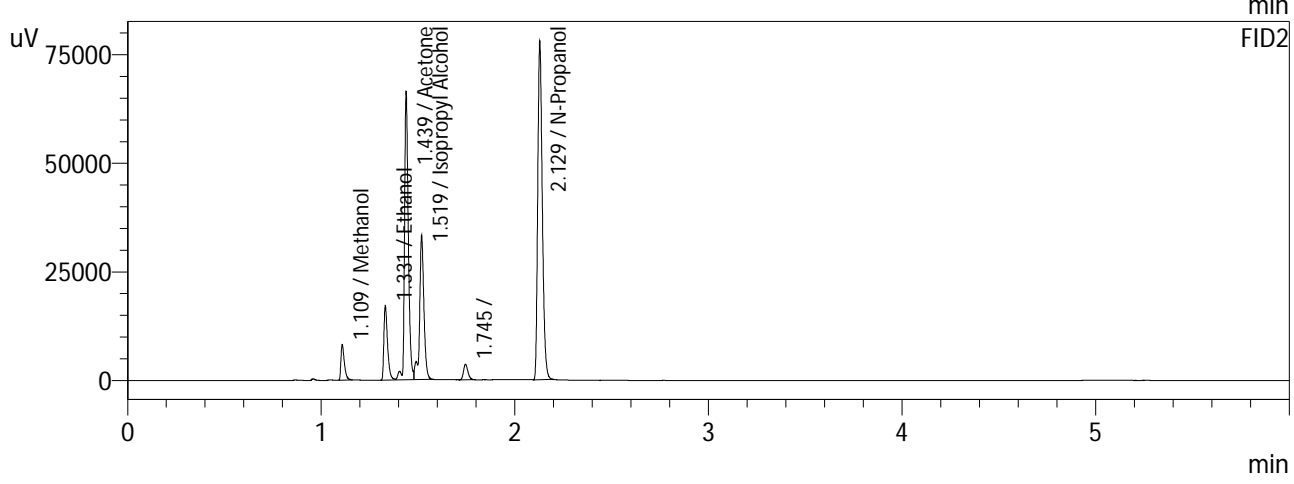
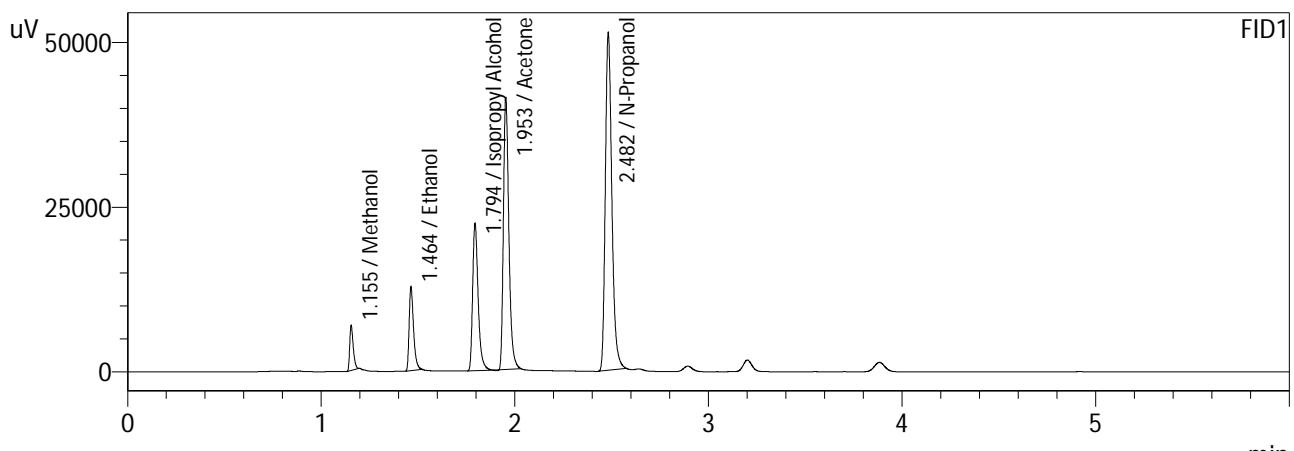
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217567	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	237259	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : MULTI-COMP MIX
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:03:30 PM
 Vial # : 8
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	1.0000	8710	g/100cc
Ethanol	0.0819	20040	g/100cc
Isopropyl Alcohol	1.0000	43999	g/100cc
Acetone	1.0000	80437	g/100cc
N-Propanol	0.0000	119984	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	1.0000	9941	g/100cc
Ethanol	0.0863	22606	g/100cc
Acetone	1.0000	91024	g/100cc
Isopropyl Alcohol	1.0000	51478	g/100cc
N-Propanol	0.0000	127576	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080

Item #1

Analysis Date(s): 4/20/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0808	0.0802	0.0006	0.0805	0.0021	0.0794
(g/100cc)	0.0788	0.0781	0.0007	0.0784		

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%

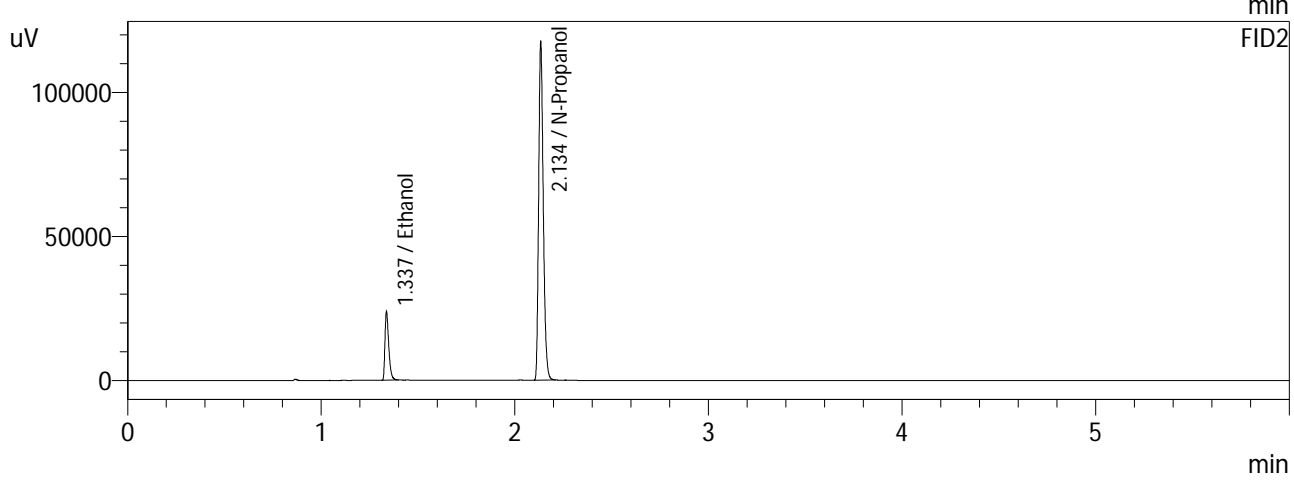
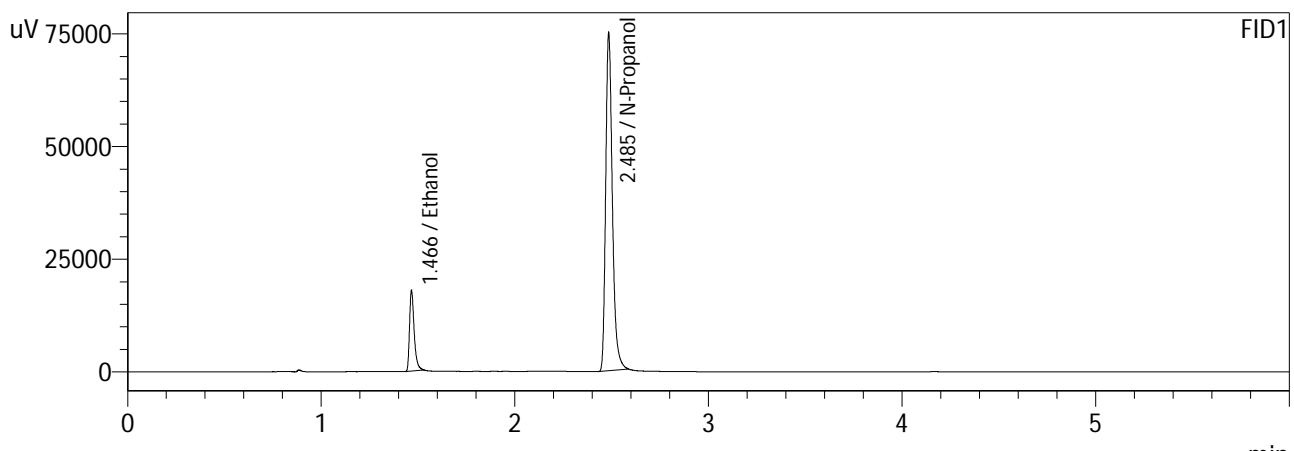
Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

Reported Result	
0.079	

Calibration and control data are stored centrally.



Sample Name : 0.08 QA - A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:39:42 PM
 Vial # : 12
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

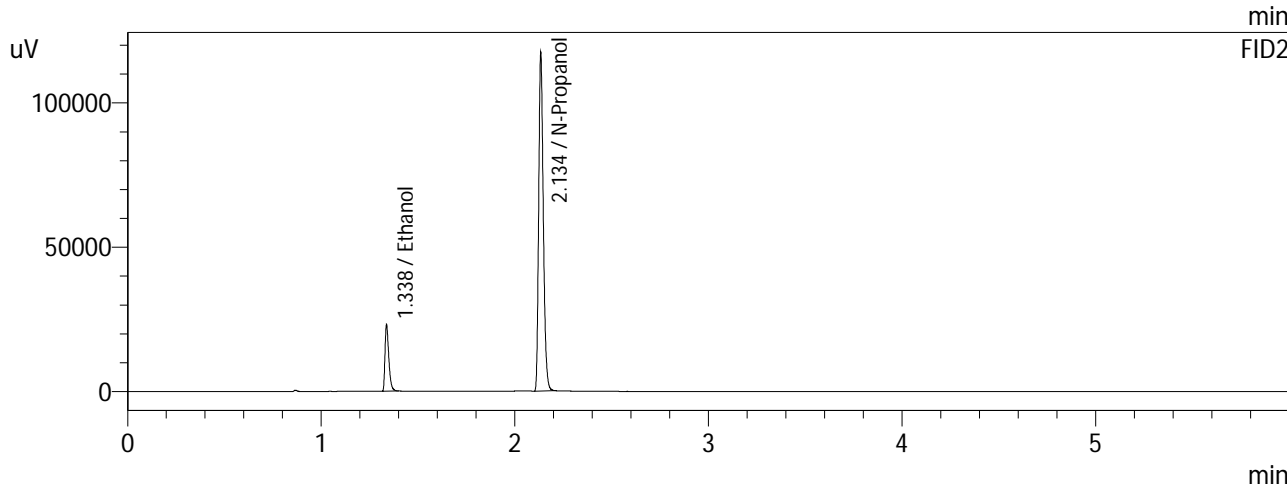
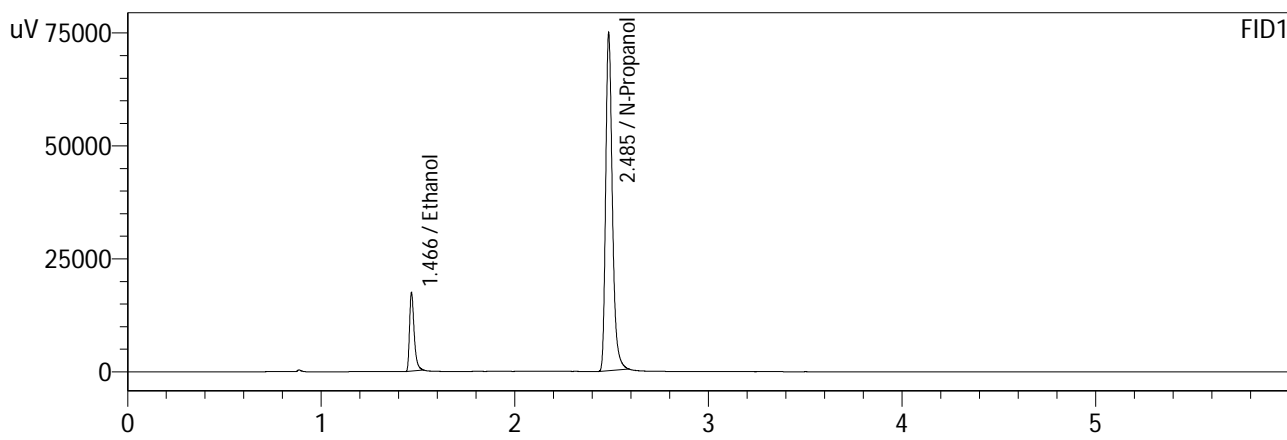
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0808	29568	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	179498	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0802	32164	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195307	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.08 QA - B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:48:45 PM
 Vial # : 13
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0788	28766	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	179039	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0781	31265	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	195004	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1

Item #1

Analysis Date(s): 4/20/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0719	0.0712	0.0007	0.0715	0.0004	0.0717
(g/100cc)	0.0722	0.0716	0.0006	0.0719		

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%

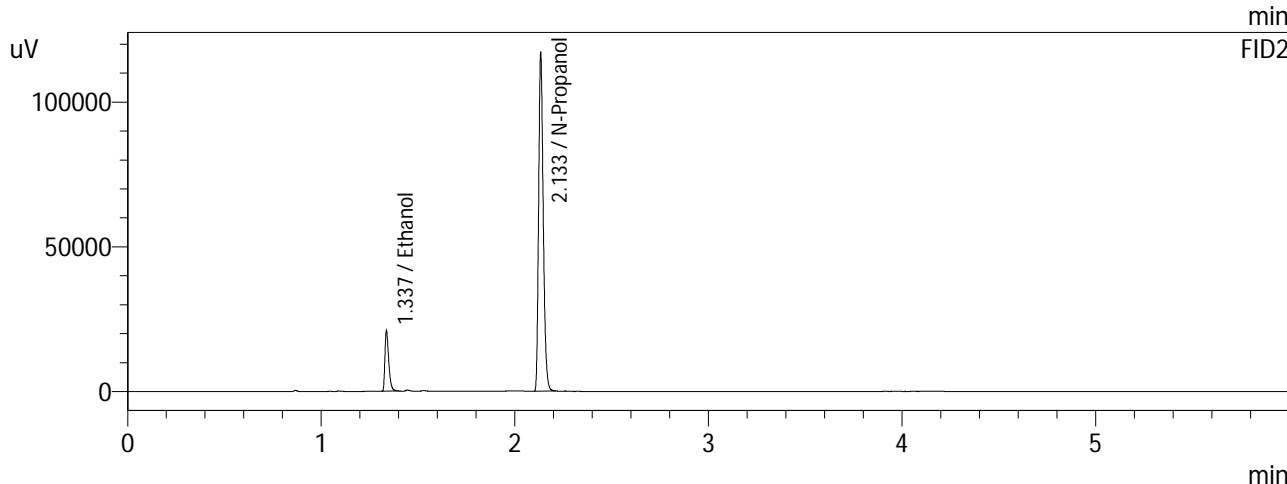
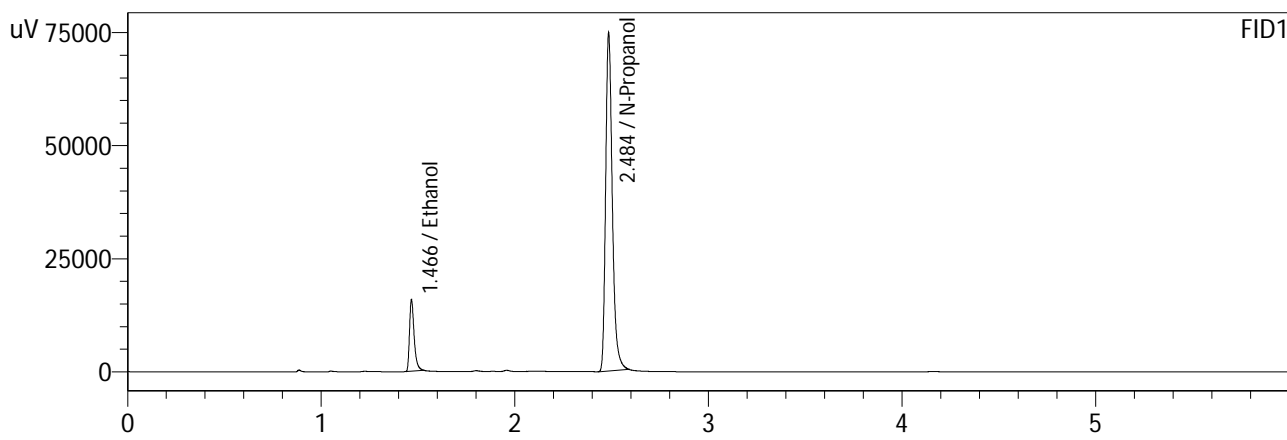
Overall Mean (g/100cc)	Low	High	5% of Mean
0.071	0.067	0.075	0.004

Reported Result	
0.071	

Calibration and control data are stored centrally.



Sample Name : QC-1-1-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:21:37 PM
 Vial # : 10
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

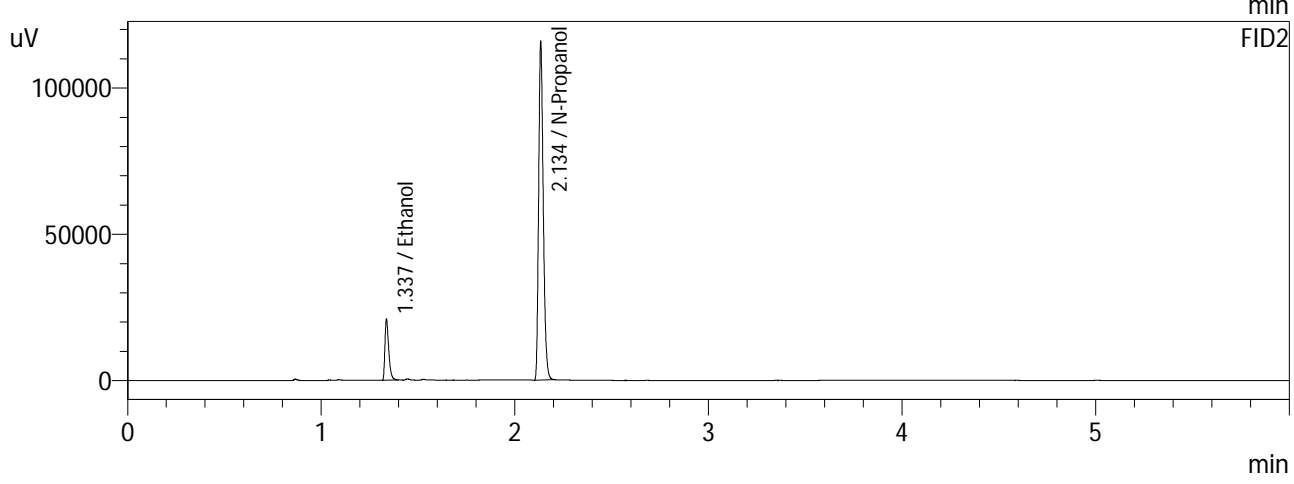
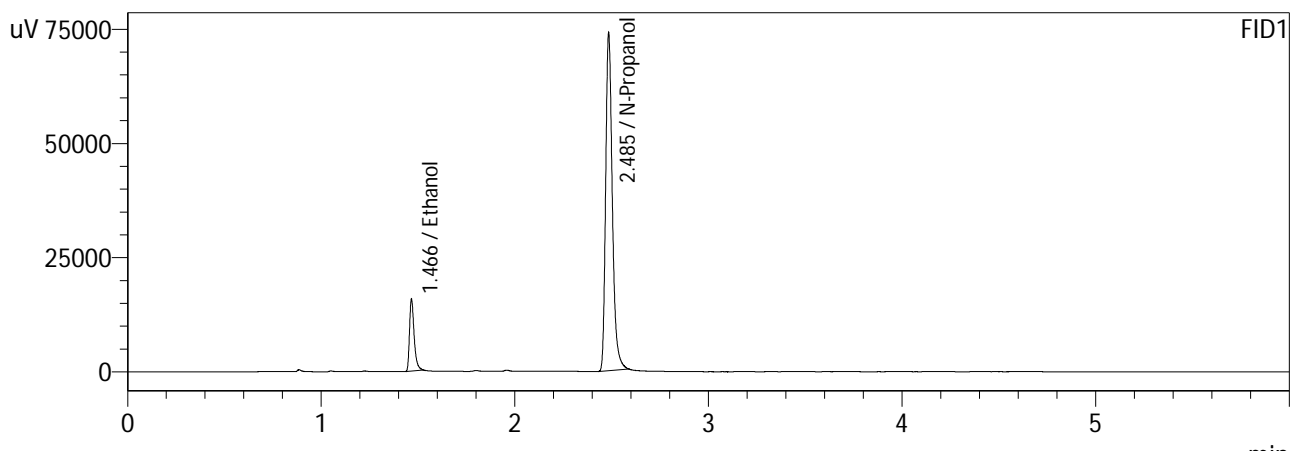
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0719	26190	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	178717	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0712	28442	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	194532	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-1-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 4:30:39 PM
 Vial # : 11
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0722	26029	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	176875	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0716	28263	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	192402	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1

Item # 2

Analysis Date(s): 4/20/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0750	0.0740	0.0010	0.0745	0.0002	0.0744
(g/100cc)	0.0746	0.0741	0.0005	0.0743		

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%

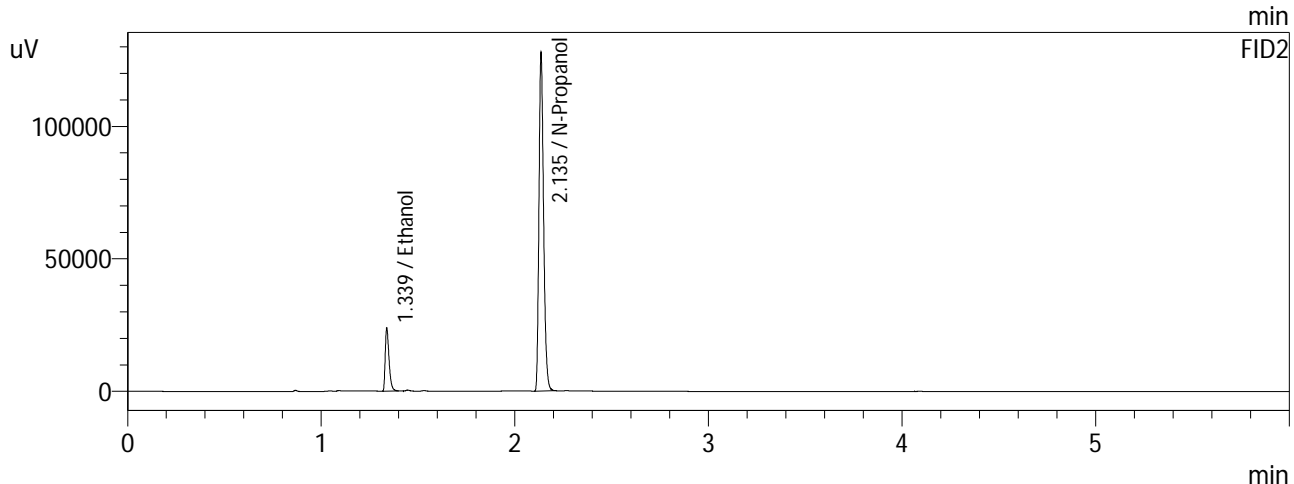
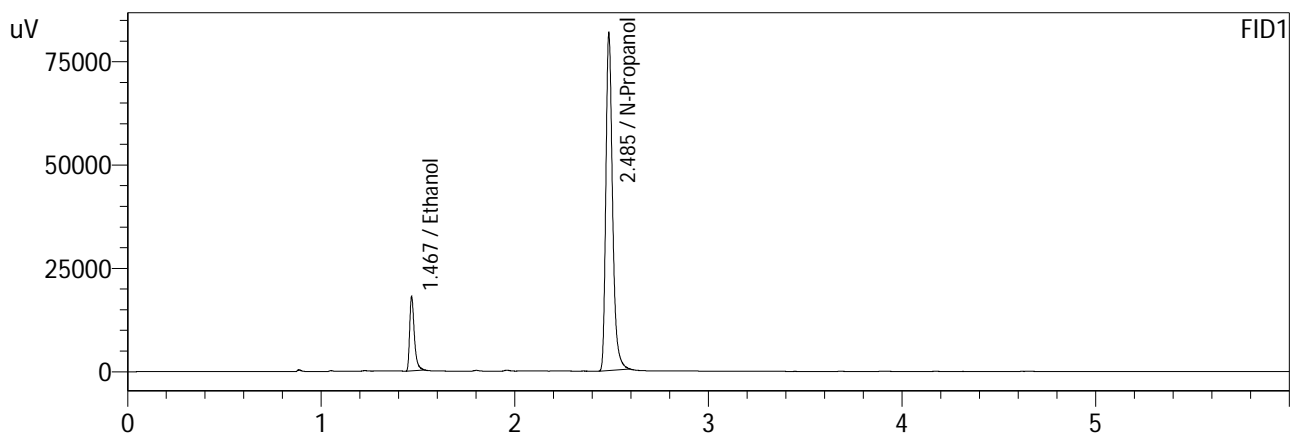
Overall Mean (g/100cc)	Low	High	5% of Mean
0.074	0.070	0.078	0.004

Reported Result	
0.074	

Calibration and control data are stored centrally.



Sample Name : QC-1-2-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 7:40:40 PM
 Vial # : 32
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

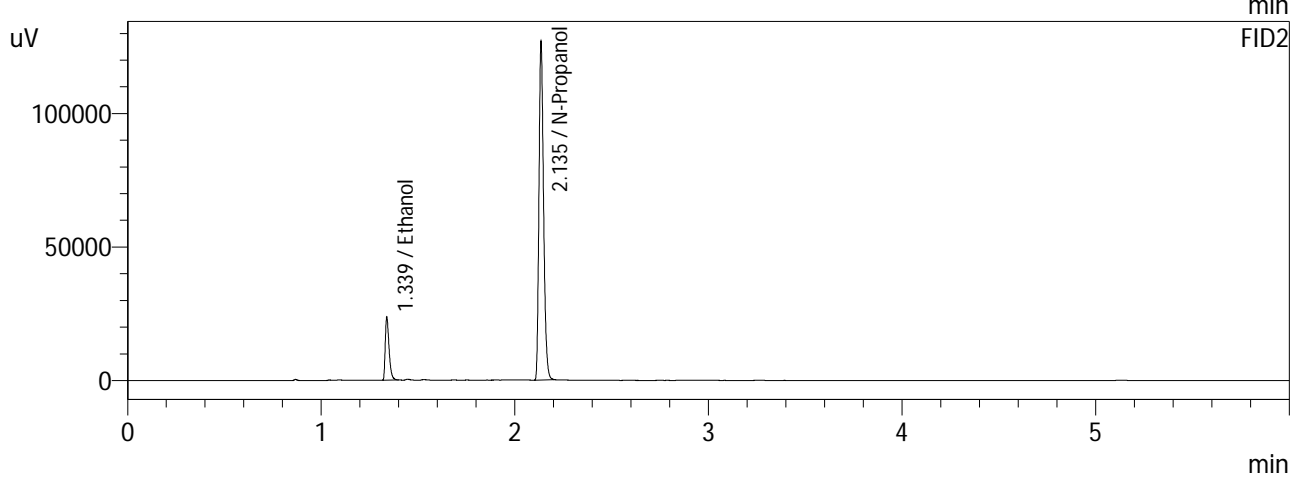
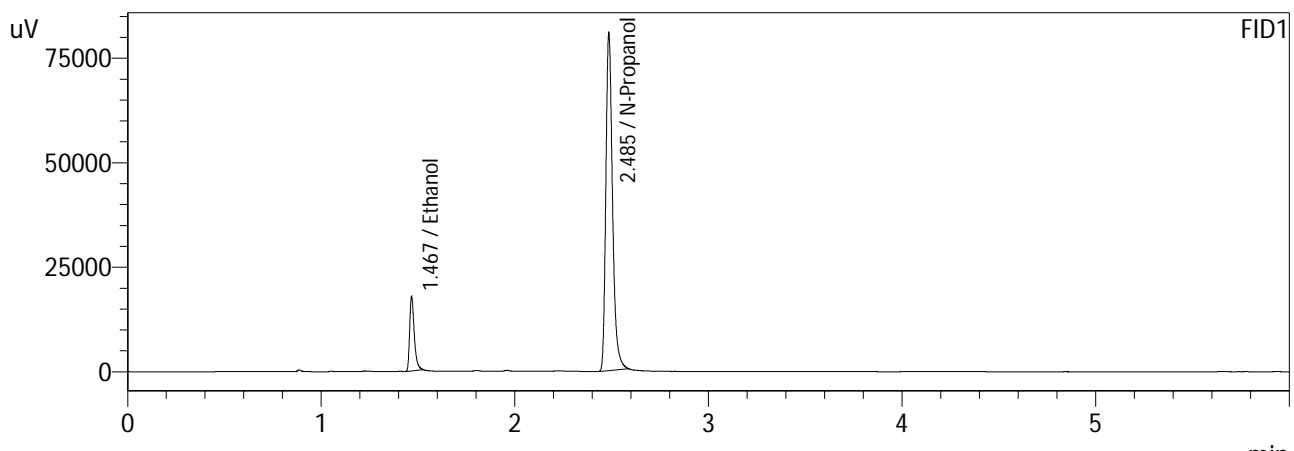
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0750	29923	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	195618	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0740	32310	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212830	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-2-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 7:49:44 PM
 Vial # : 33
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0746	29437	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	193395	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0741	32088	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	210910	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1

Item #3

Analysis Date(s): 4/20/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0771	0.0763	0.0008	0.0767	0.0004	0.0765
(g/100cc)	0.0767	0.0760	0.0007	0.0763		

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%

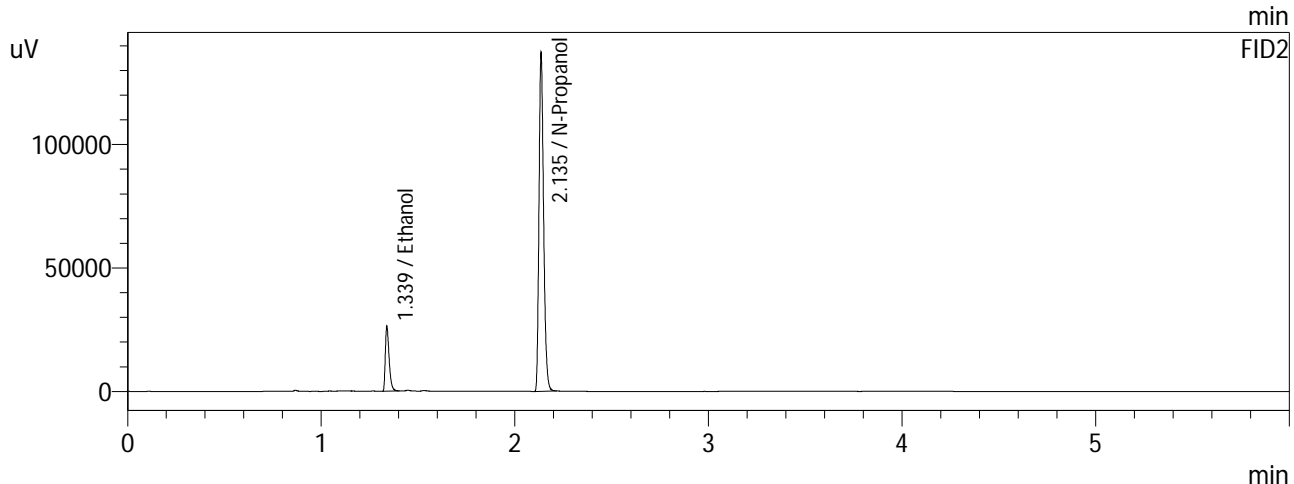
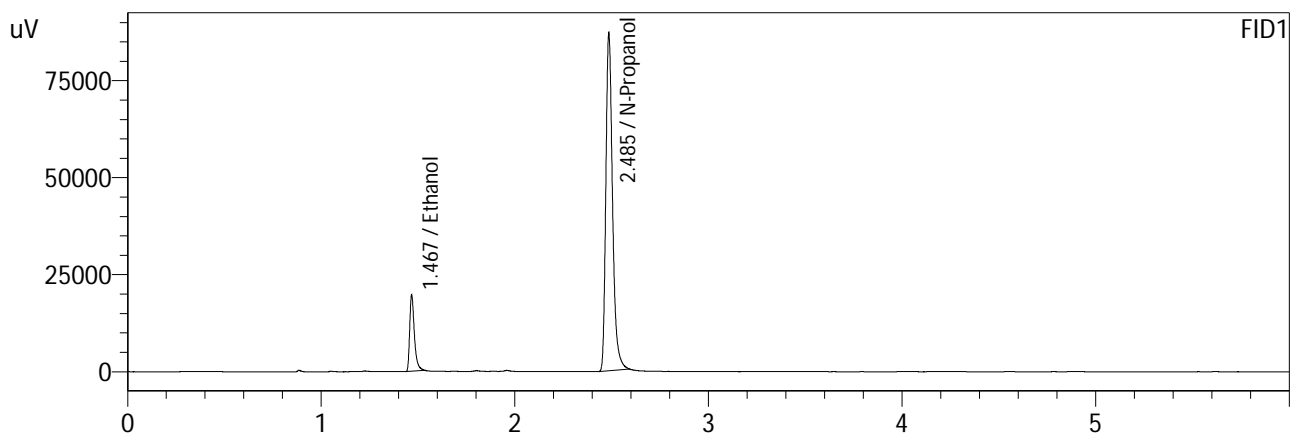
Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

Reported Result	
0.076	

Calibration and control data are stored centrally.



Sample Name : QC-1-3-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 11:00:38 PM
 Vial # : 54
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

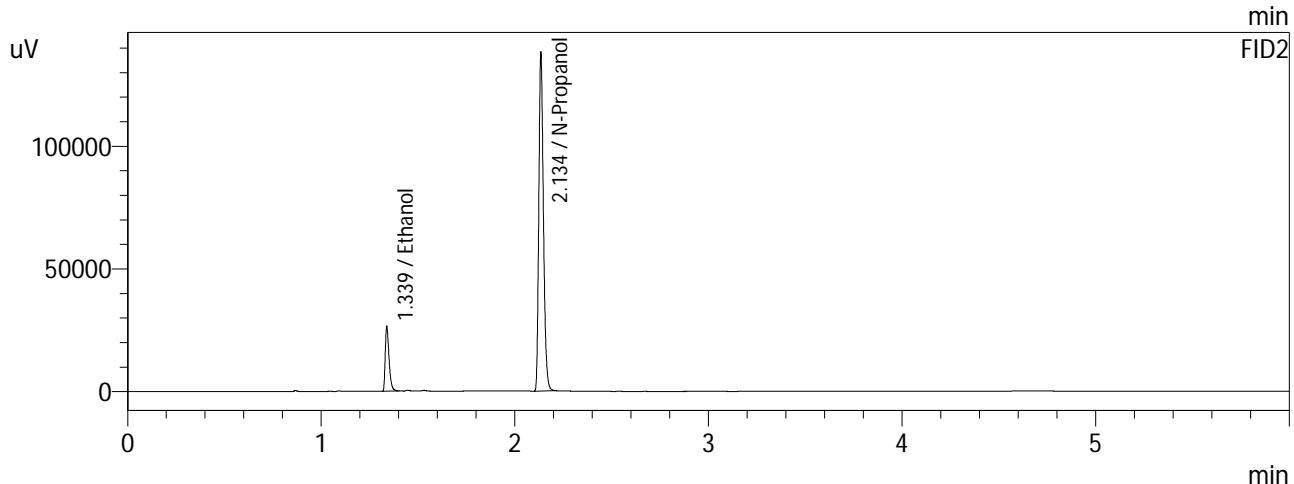
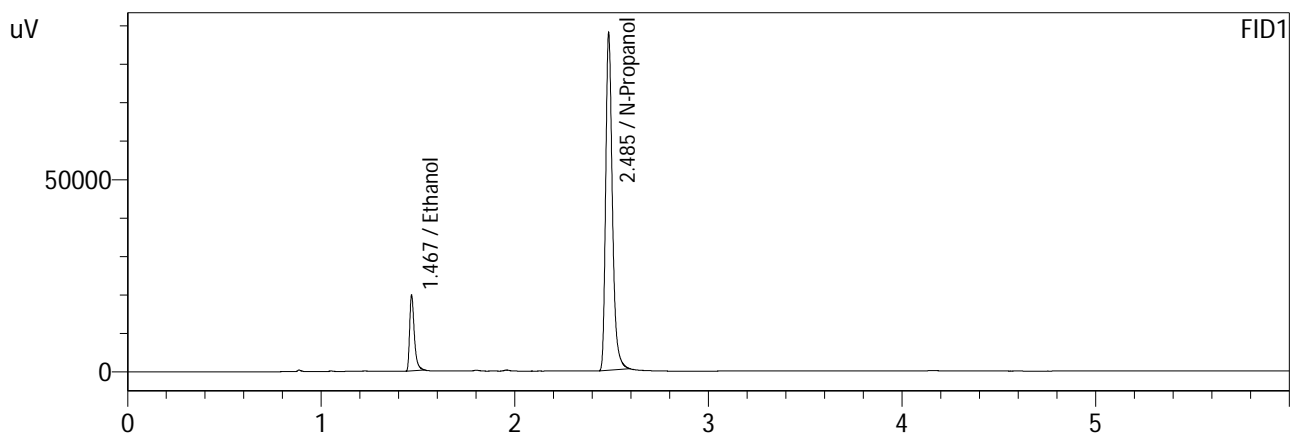
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0771	32874	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	208954	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0763	35674	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	227810	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-3-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/20/2022 11:09:43 PM
 Vial # : 55
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0767	32939	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210464	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0760	35753	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	229303	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1

Item #4

Analysis Date(s): 4/20/22

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0770	0.0763	0.0007	0.0766	0.0007	0.0762
(g/100cc)	0.0762	0.0756	0.0006	0.0759		

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%

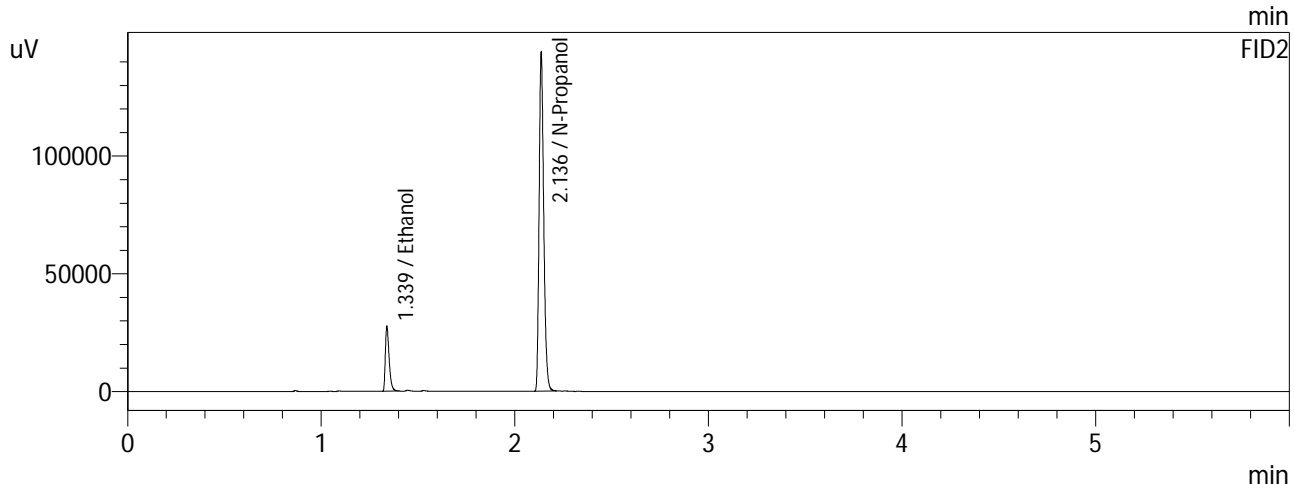
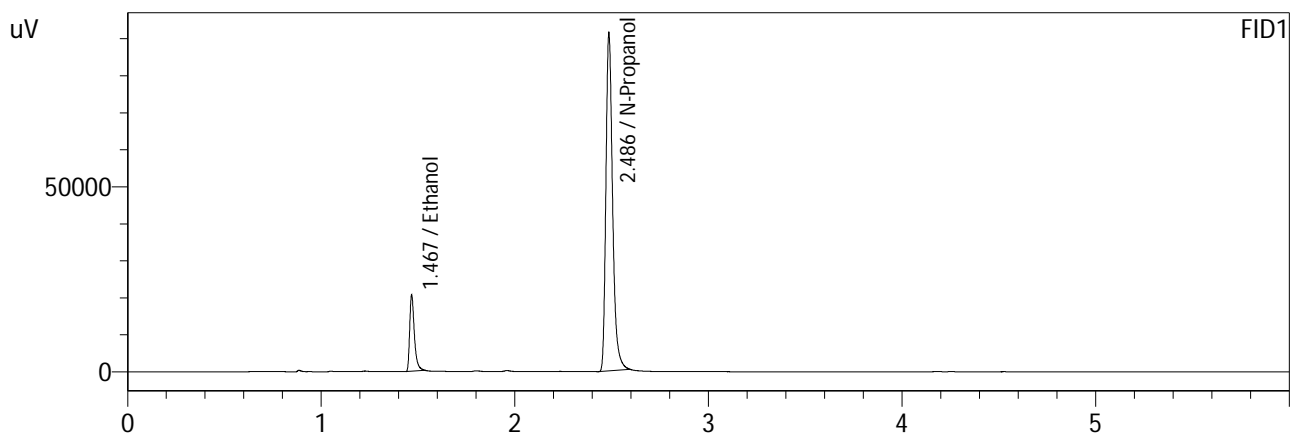
Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

Reported Result	
0.076	

Calibration and control data are stored centrally.



Sample Name : QC-1-4-A
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/21/2022 12:13:23 AM
 Vial # : 62
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

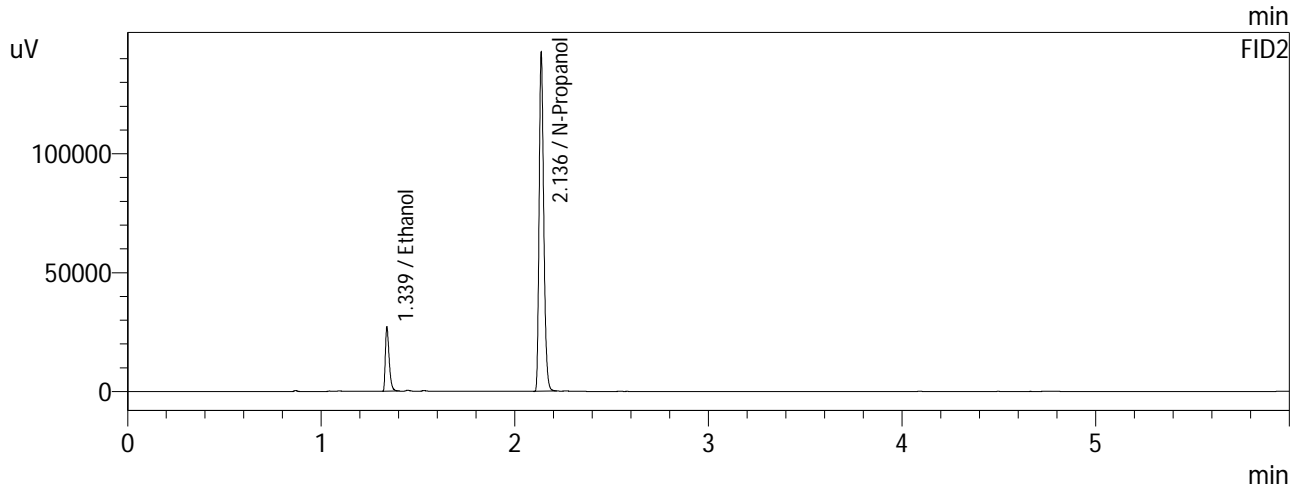
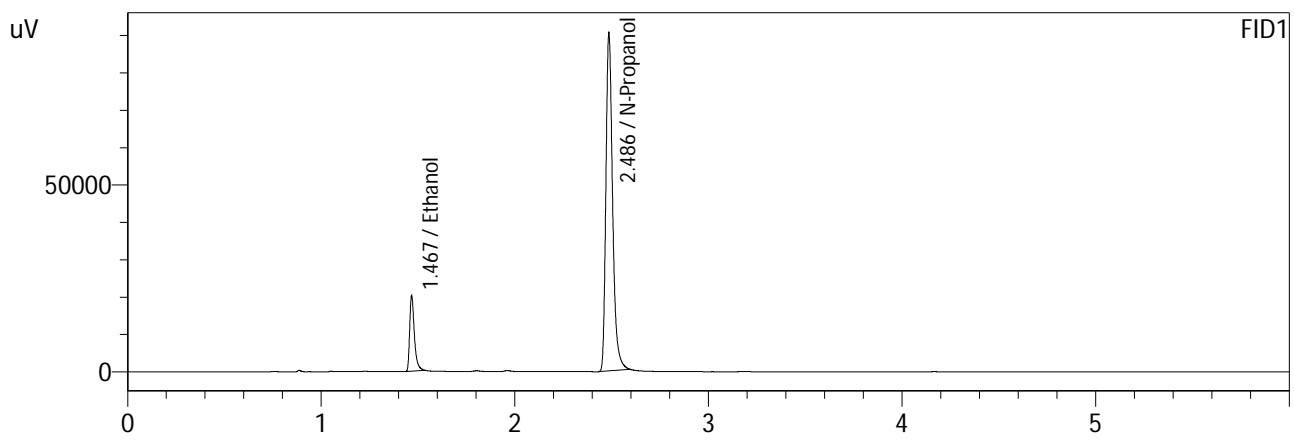
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0770	34429	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	219119	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0763	37406	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	238818	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-4-B
 Laboratory : Coeur d' Alene Lab
 Injection Date : 4/21/2022 12:22:28 AM
 Vial # : 63
 Method Filename : C:\LabSolutions\Data\4-20-22\ALCOHOL (short).GCM
 Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0762	33780	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	217234	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0756	36687	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	236572	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

**Idaho State Police
Forensic Services**

Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

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: 
Title: Discipline Lead

Date: 1/21/22

Quality Review

Quality Approver:

Title:

Date:

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls

Run Date(s):

4-20-2022

Calibration Date: (if different)

Worklist #:

5801

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul- 22 JQ 4/22/22	1907006	0.0764	0.0688-0.0840	0.0717 g/100cc	
	0.0744 g/100cc					
	0.0765 g/100cc					
Level 2	Mar 22	1803028	0.2035	0.1832-0.2238 JQ 4/22/22	0.0762 g/100cc	
					g/100cc	
					g/100cc	
Multi Component mixtures		Expt	22 Jul	Lot #	FN07101701	OK
Curve Fit:			Column 1	0.99991	Column2	0.99977

REVISED

10:54 am, Apr 22, 2022

Calibrator	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0473	0.0456	0.0017	0.0464
100	0.100	0.090 - 0.110	0.0945	0.0926	0.0019	0.0935
200	0.200	0.180 - 0.220	0.1957	0.1928	0.2971	0.2442
300	0.300	0.270 - 0.330	0.2994	0.2976	0.0018	0.2985
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5033	0.5062	0.0029	0.5047

JQ 4/22/22

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	204620.1	163696.0	245544.1

Aqueous Controls

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

JQ

Internal Standard Monitoring Worksheet

Worklist #:	5801	Run Date(s):	4-20-2022
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Internal Standard Solution: AO14463901/192886	Prep Date: 1/24/22	Exp Date: 7/24/22
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Sample Name	Column 1 Value	Column 2 Value	Average
0.080	179498	195307	187402.5
0.080	179039	195004	187021.5
QC1	178717	194532	186624.5
QC1	176875	192402	184638.5
QC1	195618	212830	204224
QC1	193395	210910	202152.5
QC1	208954	227810	218382
QC1	210464	229303	219883.5
QC1	219119	238818	228968.5
QC1	217234	236572	226903
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
204620.1	163696.0	245544.1

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