REVIEWED
By Galina Giso at 9:04 am, May 18, 2022

5/17/2022

Worklist: 5888

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2022-0891	1	BCK	Alcohol Analysis
C2022-0899	1	BCK	Alcohol Analysis
C2022-0910	1	BCK	Alcohol Analysis
C2022-0928	1	BCK	Alcohol Analysis
C2022-0931	1	BCK	Alcohol Analysis
C2022-0967	1	BCK	Alcohol Analysis
C2022-0967	2	BCK	Alcohol Analysis
C2022-0968	1	BCK	Alcohol Analysis
C2022-0986	1	BCK	Alcohol Analysis
C2022-1003	1	BCK	Alcohol Analysis
C2022-1020	1	BCK	Alcohol Analysis
C2022-1028	1	BCK	Alcohol Analysis
C2022-1037	1	BCK	Alcohol Analysis
C2022-1048	1	BCK	Alcohol Analysis
C2022-1055	1	BCK	Alcohol Analysis
C2022-1083	1	BCK	Alcohol Analysis
C2022-1085	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

Vial#	Sample Name	Sample Type	Level#	Method File
1	INT STD BLK 1	0:Unknown	0	ALCOHOL.GCM
2	0.050	1:Standard:(R)	1	ALCOHOL.GCM
3	0.100	1:Standard:(R)	2	ALCOHOL.GCM
4	0.200	1:Standard:(R)	3	ALCOHOL.GCM
5	0.300	1:Standard:(R)	4	ALCOHOL.GCM
6	0.500	1:Standard:(R)	5	ALCOHOL.GCM
7	INT STD BLK 2	0:Unknown	0	ALCOHOL.GCM
8	MULTI-COMP MIX	1:Standard:(R)	6	ALCOHOL.GCM
9	INT STD BLK 3	0:Unknown	0	ALCOHOL.GCM
10	QC-1-1-A	0:Unknown	0	ALCOHOL.GCM
11	QC-1-1-B	0:Unknown	0	ALCOHOL.GCM
12	0.08 QA - A	0:Unknown	0	ALCOHOL.GCM
13	0.08 QA - B	0:Unknown	0	ALCOHOL.GCM
14	C2022-0891-1-A	0:Unknown	0	ALCOHOL.GCM
15	C2022-0891-1-B	0:Unknown	0	ALCOHOL.GCM
16	C2022-0899-1-A	0:Unknown	0	ALCOHOL.GCM
17	C2022-0899-1-B	0:Unknown	0	ALCOHOL.GCM
18	C2022-0910-1-A	0:Unknown	0	ALCOHOL.GCM
19	C2022-0910-1-B	0:Unknown	0	ALCOHOL.GCM
20	C2022-0928-1-A	0:Unknown	0	ALCOHOL.GCM
21	C2022-0928-1-B	0:Unknown	0	ALCOHOL.GCM
22	C2022-0931-1-A	0:Unknown	0	ALCOHOL.GCM
23	C2022-0931-1-B	0:Unknown	0	ALCOHOL.GCM
24	C2022-0967-1-A	0:Unknown	0	ALCOHOL.GCM
25	C2022-0967-1-B	0:Unknown	0	ALCOHOL.GCM
26	C2022-0967-2-A	0:Unknown	0	ALCOHOL.GCM
27	C2022-0967-2-B	0:Unknown	0	ALCOHOL.GCM
28	C2022-0968-1-A	0:Unknown	0	ALCOHOL.GCM
29	C2022-0968-1-B	0:Unknown	0	ALCOHOL.GCM
30	C2022-0986-1-A	0:Unknown	0	ALCOHOL.GCM
31	C2022-0986-1-B	0:Unknown	0	ALCOHOL.GCM
32	QC-2-1-A	0:Unknown	0	ALCOHOL.GCM
33	QC-2-1-B	0:Unknown	0	ALCOHOL.GCM
34	C2022-1003-1-A	0:Unknown	0	ALCOHOL.GCM
35	C2022-1003-1-B	0:Unknown	0	ALCOHOL.GCM
36	C2022-1020-1-A	0:Unknown	0	ALCOHOL.GCM
37	C2022-1020-1-B	0:Unknown	0	ALCOHOL.GCM
38	C2022-0128-1-A	0:Unknown	0	ALCOHOL.GCM
39	C2022-1028-1-B	0:Unknown	0	ALCOHOL.GCM
40	C2022-1037-1-A	0:Unknown	0	ALCOHOL.GCM
41	C2022-1037-1-B	0:Unknown	0	ALCOHOL.GCM
42	C2022-1048-1-A	0:Unknown	0	ALCOHOL.GCM
43	C2022-1048-1-B	0:Unknown	0	ALCOHOL.GCM
44	C2022-1055-1-A	0:Unknown	0	ALCOHOL.GCM
45	C2022-1055-1-B	0:Unknown	0	ALCOHOL.GCM
46	C2022-1083-1-A	0:Unknown	0	ALCOHOL.GCM
47	C2022-1083-1-B	0:Unknown	0	ALCOHOL.GCM
48	C2022-1085-1-A	0:Unknown	0	ALCOHOL.GCM
49	C2022-1085-1-B	0:Unknown	0	ALCOHOL.GCM
50	QC-2-2-A	0:Unknown	0	ALCOHOL.GCM
51	QC-2-2-B	0:Unknown	0	ALCOHOL.GCM
52	INT STD BLK 4	0:Unknown	0	ALCOHOL.GCM

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): 5-15-2022**

Calibration Date: *(if different)*

Worklist #: 5888

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	19070006	0.0764	0.0688-0.0840	0.0710 g/100cc
					g/100cc
					g/100cc
Level 2	Jul-23	19070007	0.2170	0.1953-0.2387	0.2090 g/100cc
					0.2123 g/100cc
					g/100cc

Multi-Component mixture:	**Exp:**	**22-Jul**	**Lot #**	FN07101701		OK
Curve Fit:			**Column 1**	0.99965	**Column2**	0.99957

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0463	0.0459	0.0004	0.0461
100	0.100	0.090 - 0.110	0.0946	0.0939	0.0007	0.0942
200	0.200	0.180 - 0.220	0.1933	0.1927	0.0006	0.193
300	0.300	0.270 - 0.330	0.2951	0.2945	0.0006	0.2948
400	0.400	0.360 - 0.440			0	#DIV/0!
500	0.500	0.450 - 0.550	0.5069	0.5077	0.0008	0.5073

Internal Standard	Average	(-) 20%	(+) 20%
N-Propanol:	255689.3	204551.4	306827.1

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.078 g/100cc

Internal Standard Monitoring Worksheet

Worklist #:	5888	Run Date(s):	5-15-2022

5/18/22

Internal Standard Solution: Lot# A014463901	Prep Date: 4/28/22	Exp Date: 10/28/22

Sample Name	Column 1 Value	Column 2 Value	Average
0.080	227367	249846	238606.5
0.080	227257	250323	238790
QC1	235673	257666	246669.5
QC1	228706	250671	239688.5
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC1			#DIV/0!
QC2	252772	279209	265990.5
QC2	246771	272602	259686.5
QC2	261752	287480	274616
QC2	267783	295150	281466.5
QC2			#DIV/0!
QC2			#DIV/0!

Combined Average	(-)20%	(+)20%
255689.3	204551.4	306827.1

Calibration Table

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

<<Data File>>
Method File :C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Batch File :C:\LabSolutions\Data\5-15-22\5-15-22.gcb
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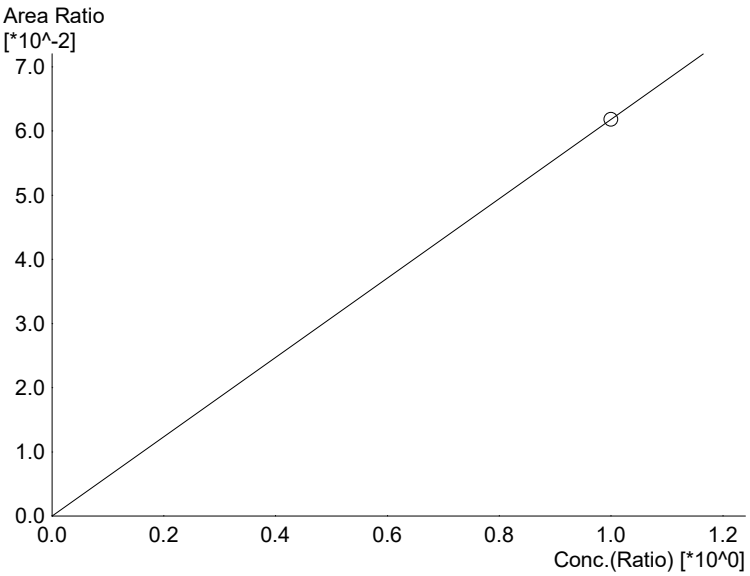
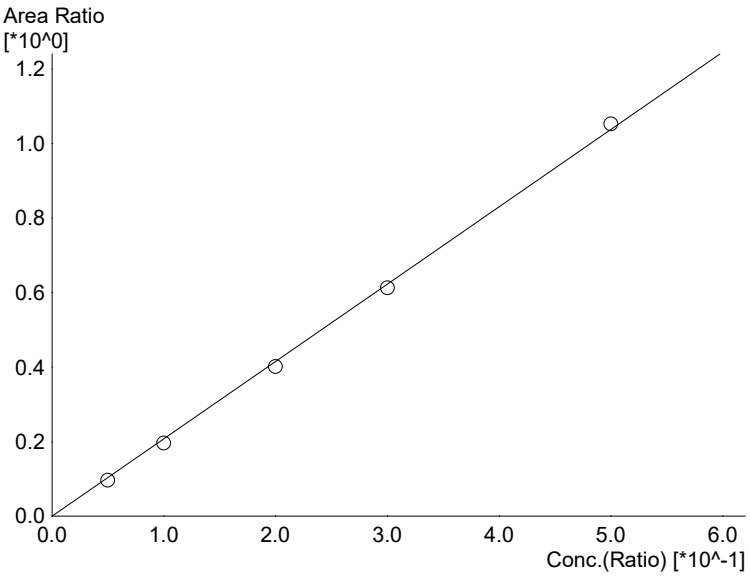
Date Created :5/15/2022 12:44:51 PM
Date Modified :5/16/2022 9:55:59 AM



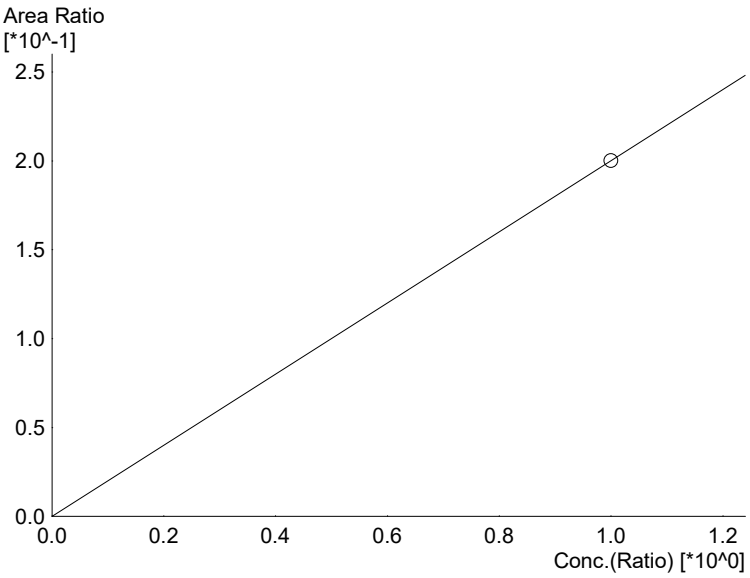
Name : Methanol
Detector Name: FID1
Function : f(x)=0.0618016*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	14145	1.0000



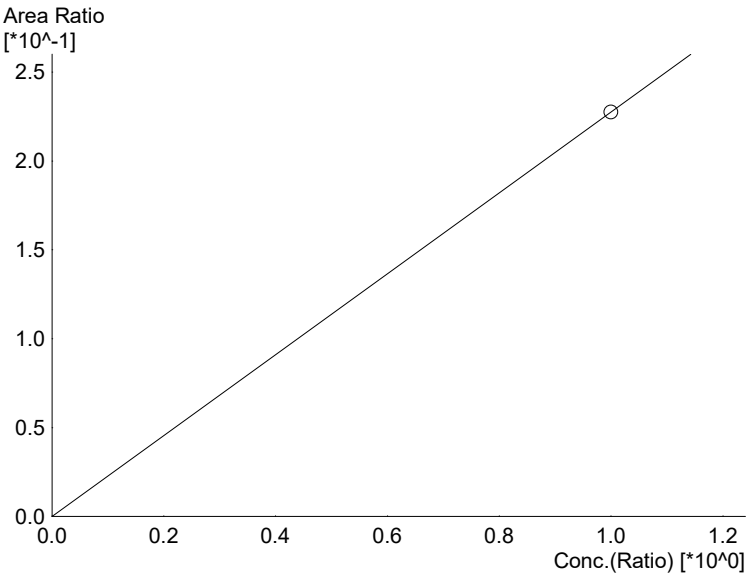
Name : Ethanol
Detector Name: FID1
Function : f(x)=2.07528*x+0
R^2 value= 0.9996529
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
1	0.050	22606	0.0463
2	0.100	46242	0.0946
3	0.200	94986	0.1933
4	0.300	145630	0.2951
5	0.500	250531	0.5069



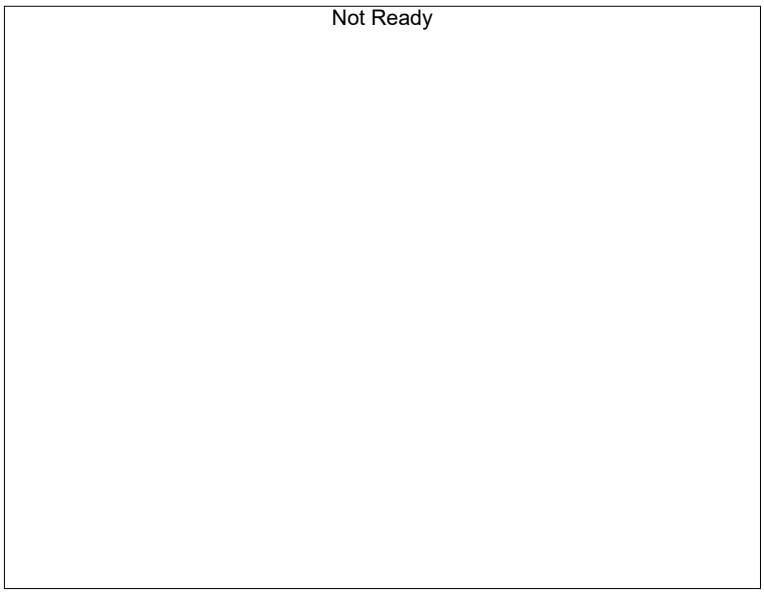
Name : Isopropyl Alcohol
Detector Name: FID1
Function : f(x)=0.200156*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	45812	1.0000



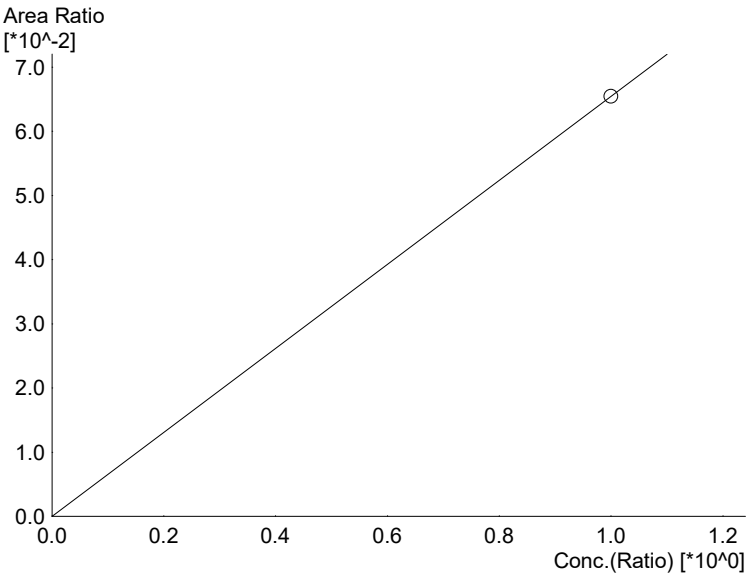
Name : Acetone
Detector Name: FID1
Function : f(x)=0.227517*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	52075	1.0000



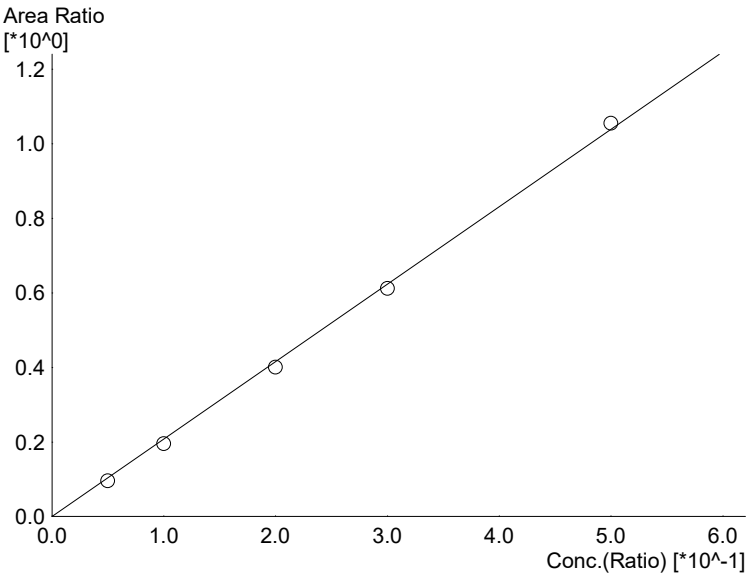
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.



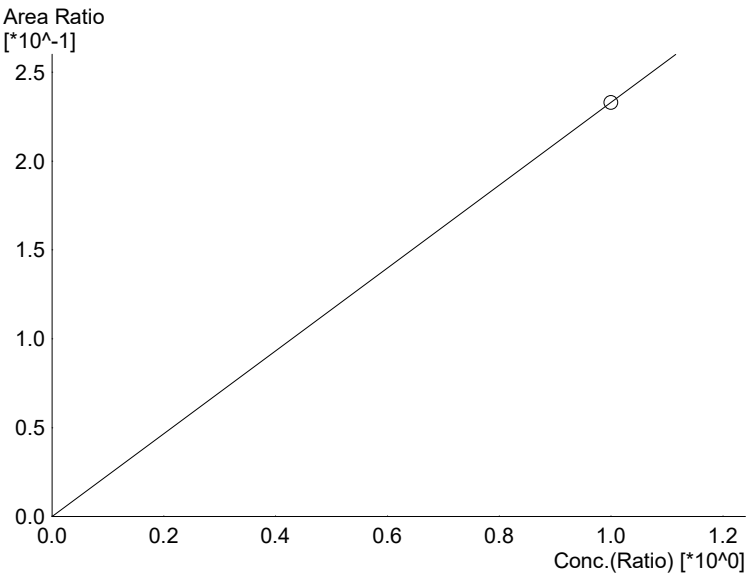
Name : Methanol
Detector Name: FID2
Function : f(x)=0.0654287*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	16530	1.0000



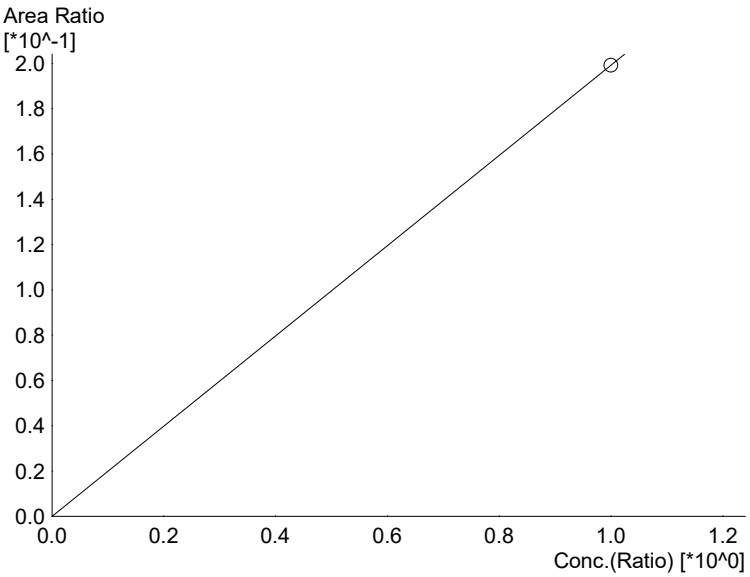
Name : Ethanol
Detector Name: FID2
Function : f(x)=2.07682*x+0
R^2 value= 0.9995736
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
1	0.050	24350	0.0459
2	0.100	50039	0.0939
3	0.200	103001	0.1927
4	0.300	158061	0.2945
5	0.500	273799	0.5077



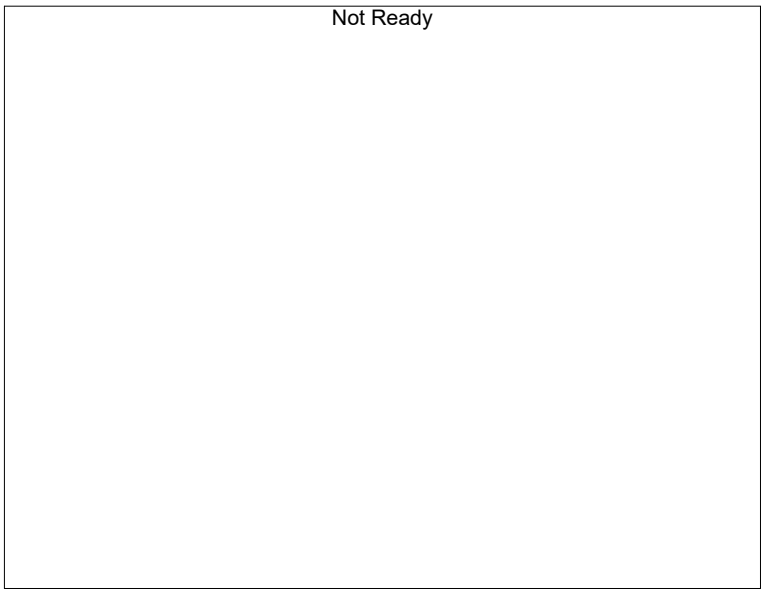
Name : Acetone
Detector Name: FID2
Function : f(x)=0.232987*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.
6	1.000	58863	1.0000



Name : Isopropyl Alcohol
Detector Name: FID2
Function : f(x)=0.199134*x+0
R^2 value= 1.000000
FitType: Linear
ZeroThrough: Through

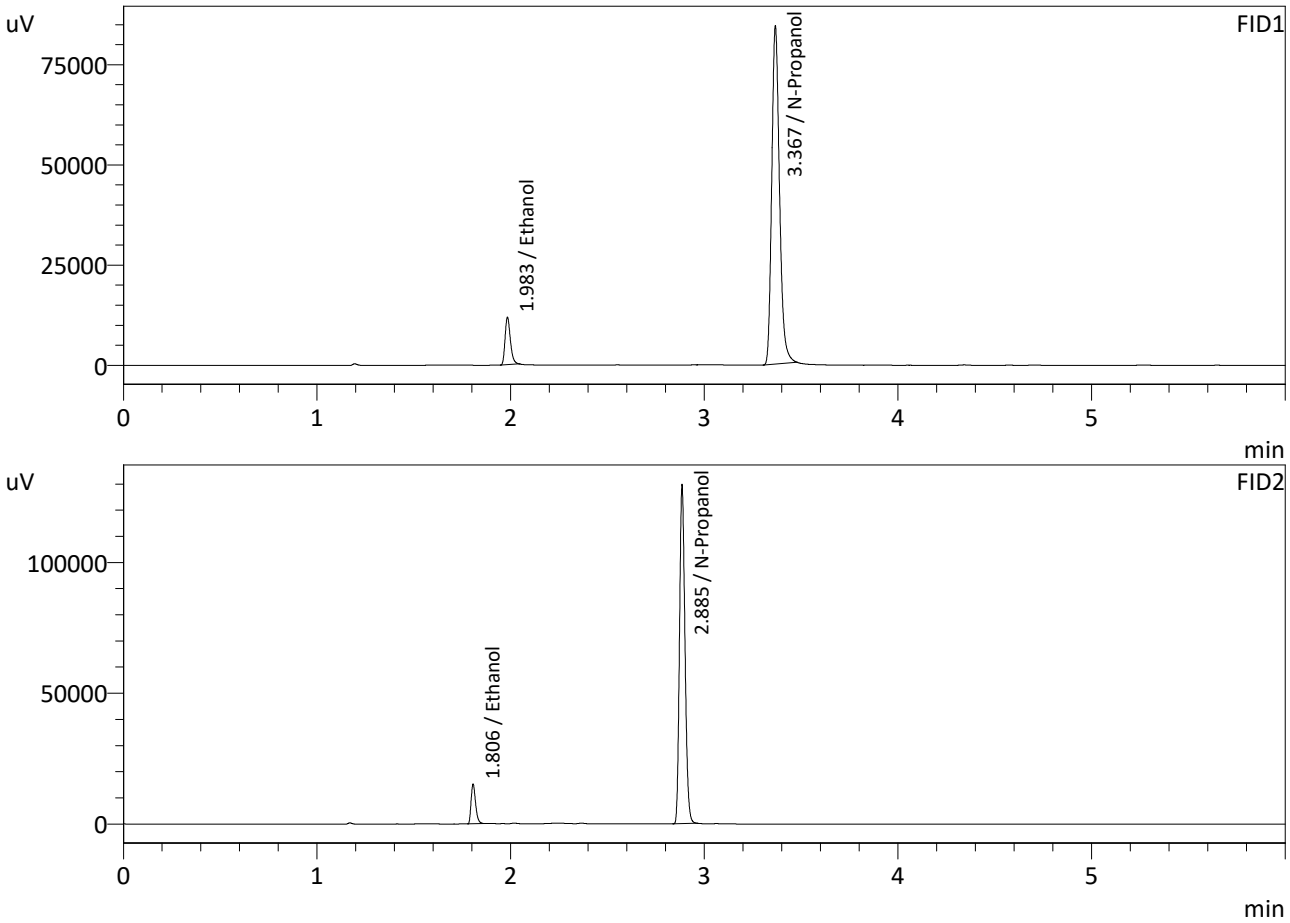
#	Conc.	Area	Std. Conc.
6	1.000	50311	1.0000



Name : Fluor. Hydrocarbon(s)
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0
FitType: Linear
ZeroThrough: Through

#	Conc.	Area	Std. Conc.

Sample Name : 0.050
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:10:45 PM
Vial # : 2
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

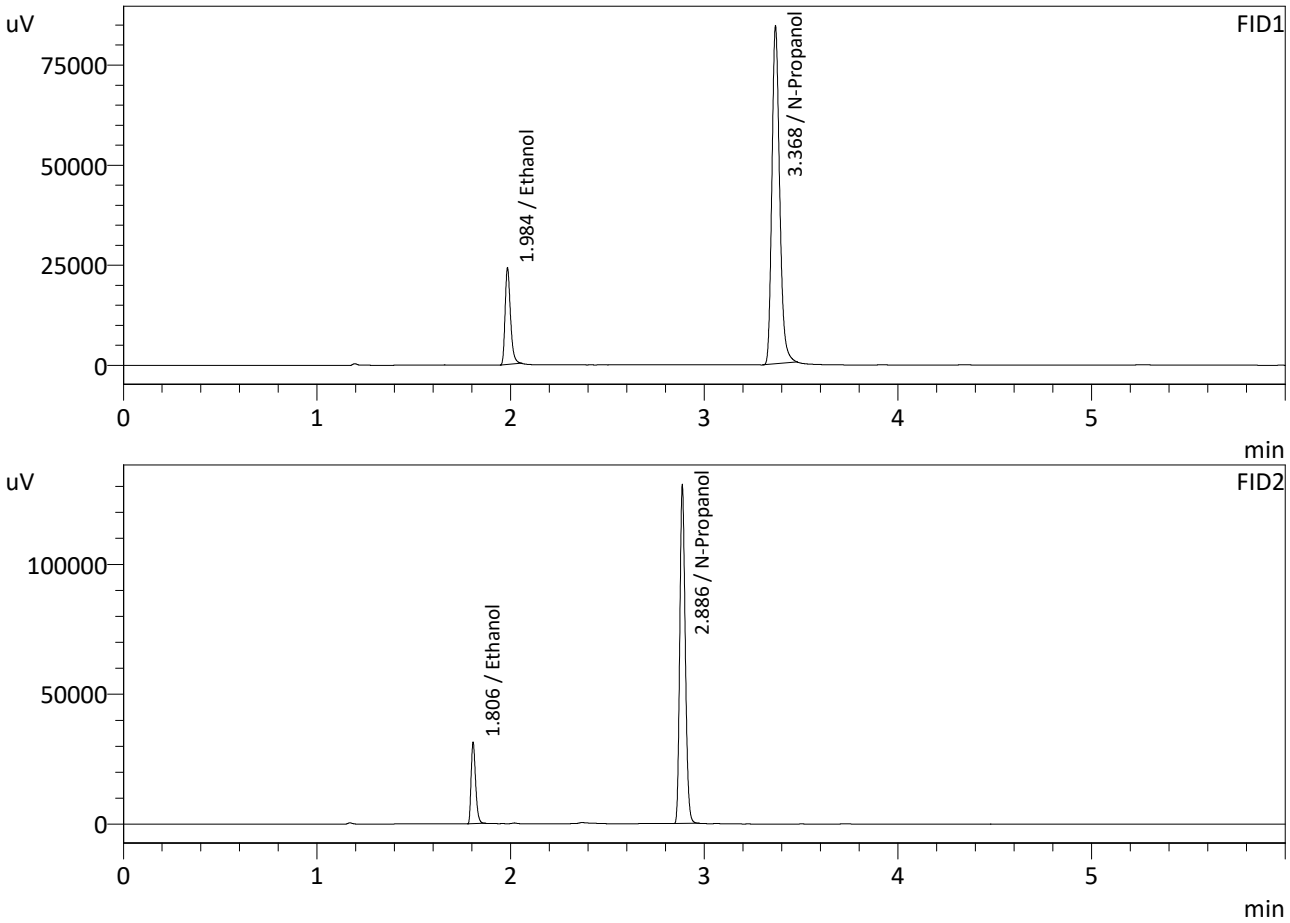
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0463	22606	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	234938	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0459	24350	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	254957	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.100
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:19:53 PM
Vial # : 3
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

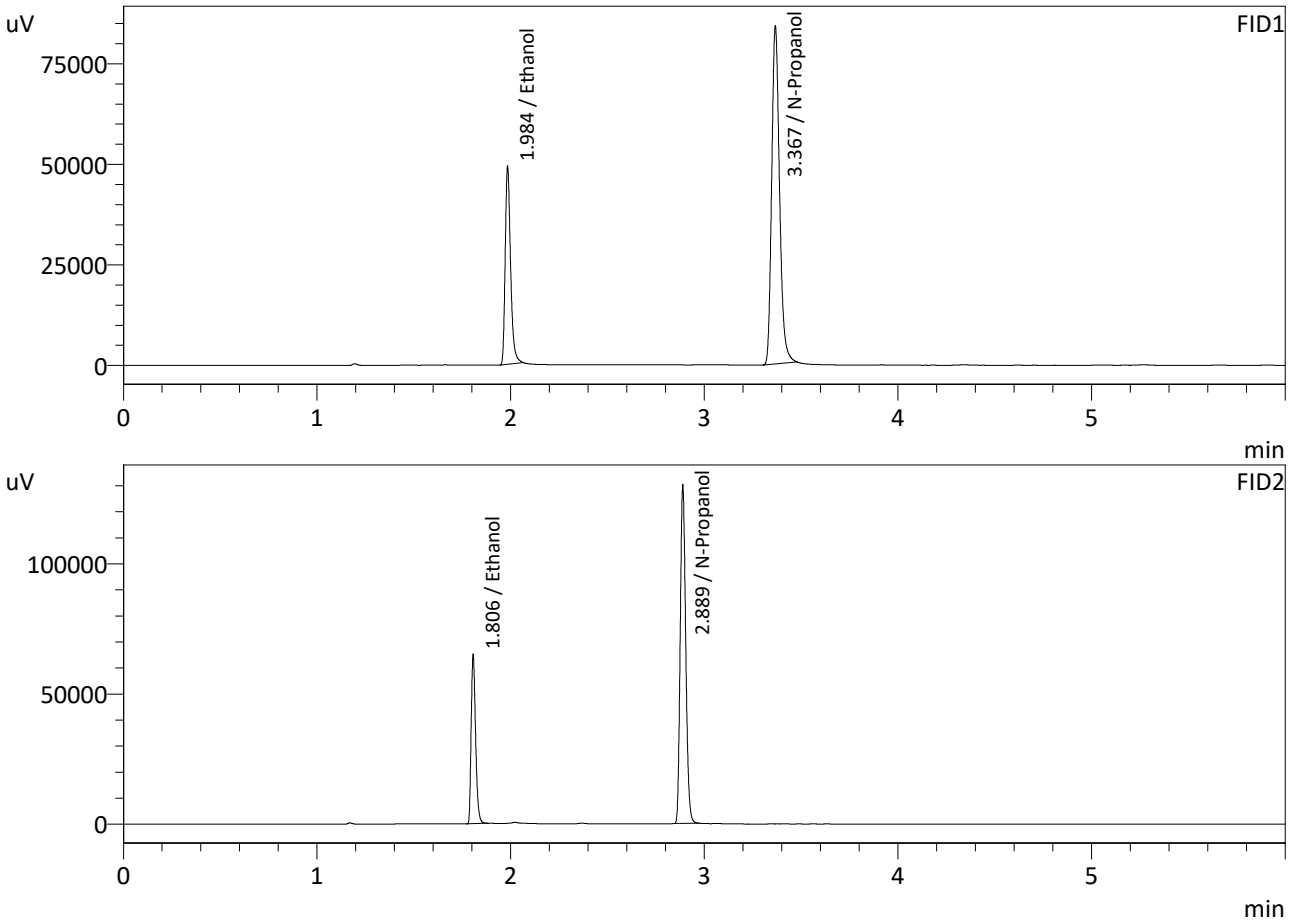
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0946	46242	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	235372	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0939	50039	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	256373	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.200
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:29:23 PM
Vial # : 4
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1933	94986	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	236685	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1927	103001	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	257291	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

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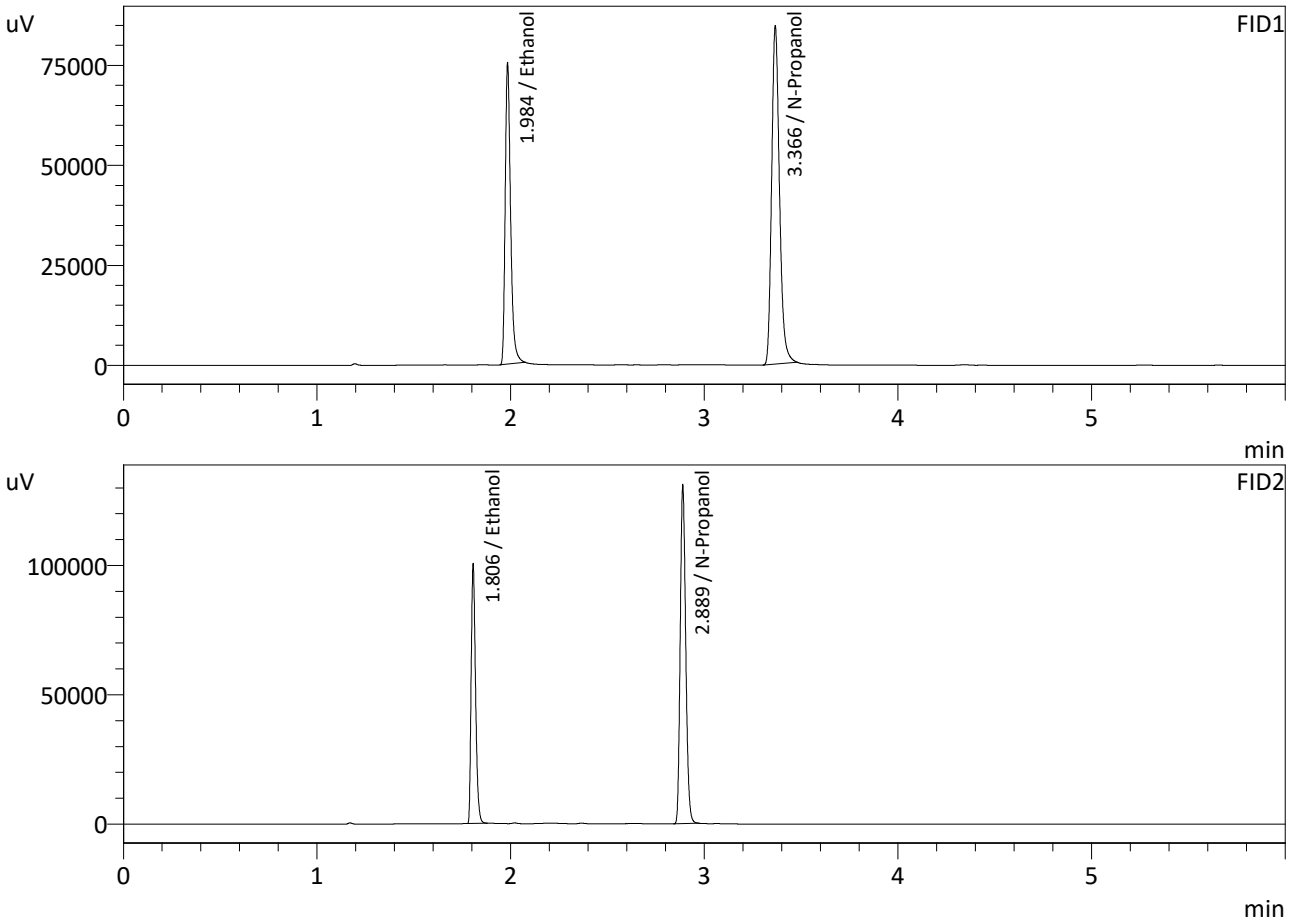
Sample Name : 0.300
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:38:43 PM
Vial # : 5
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



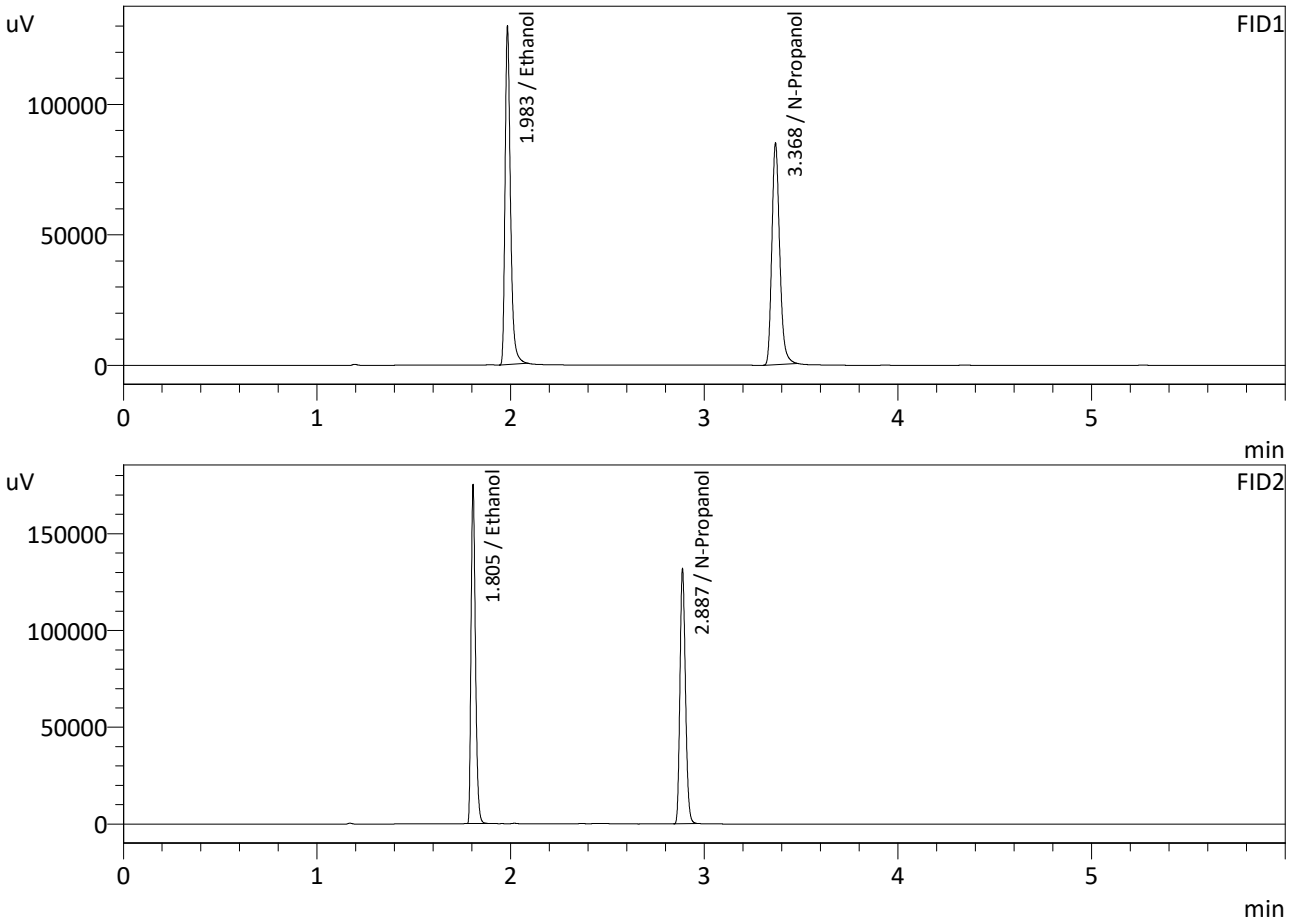
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2951	145630	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	237736	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2945	158061	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	258374	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:47:48 PM
Vial # : 6
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

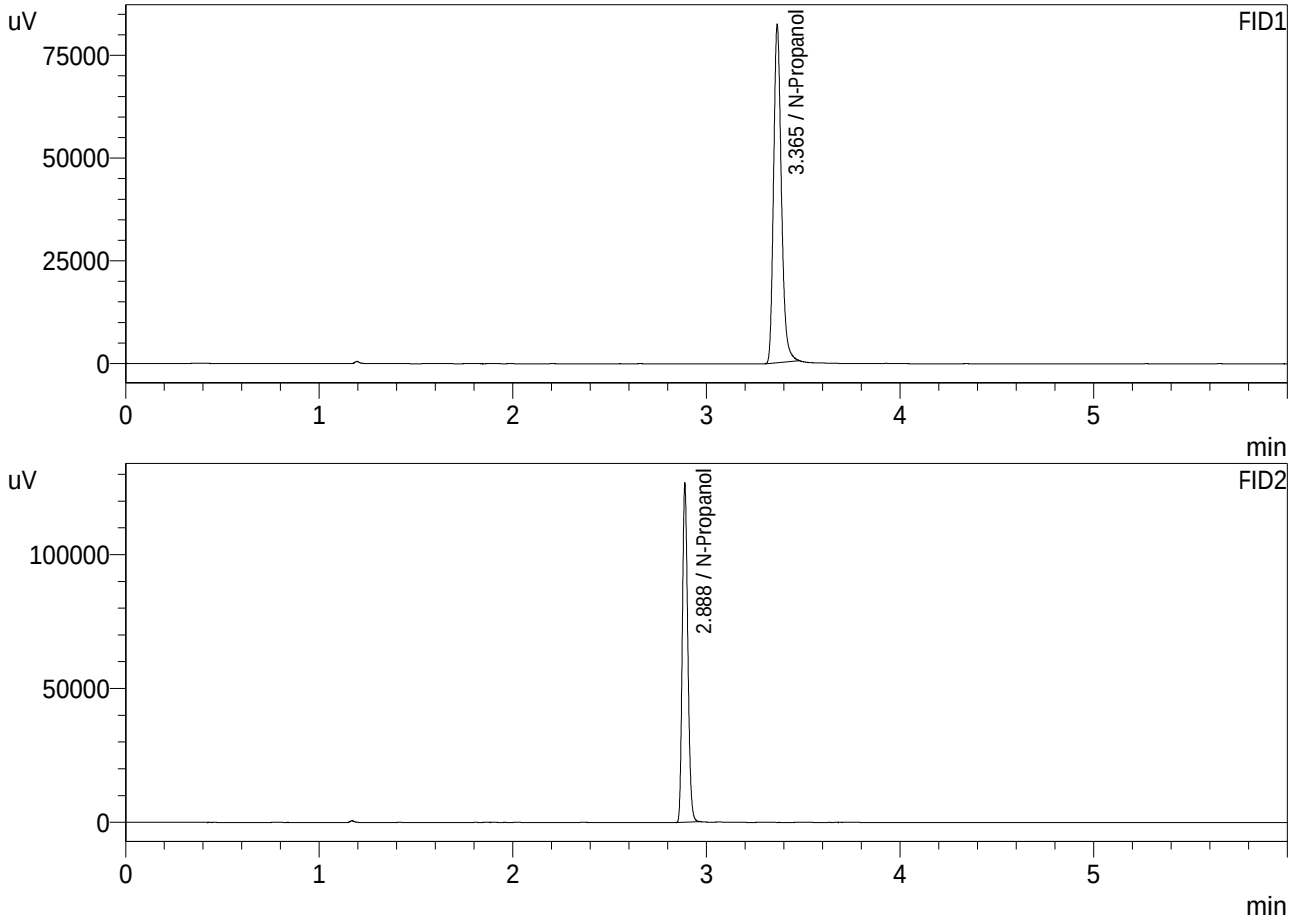
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5069	250531	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	238122	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5077	273799	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	259641	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 1
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:01:28 PM
Vial # : 1
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

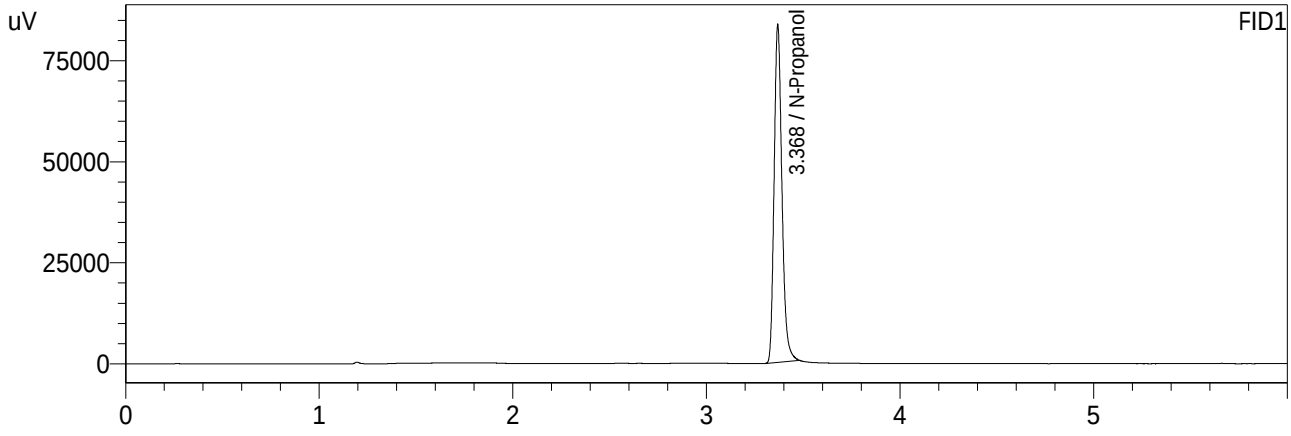
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	229953	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

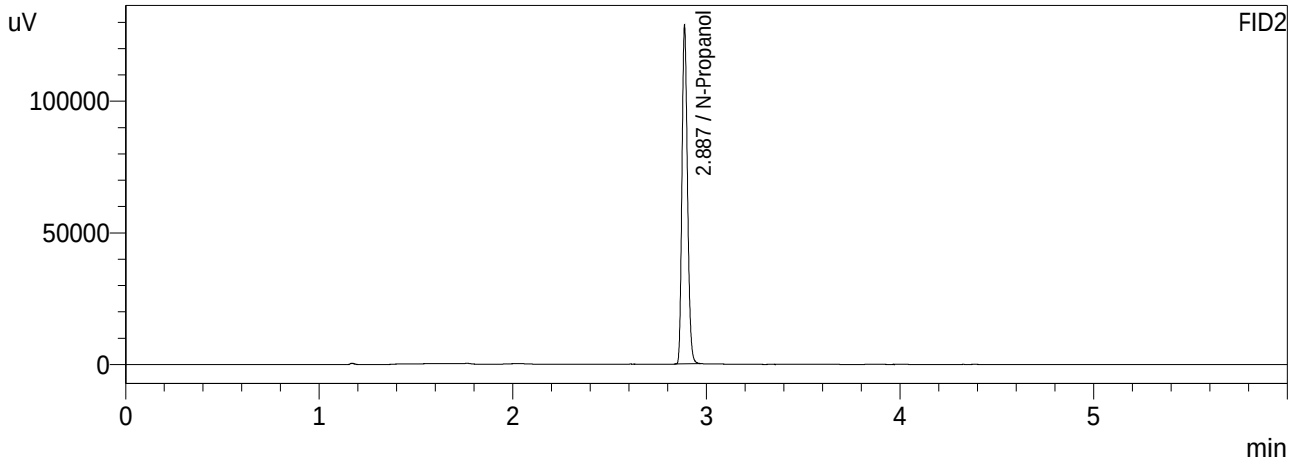
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	249599	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 2
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 12:57:19 PM
Vial # : 7
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

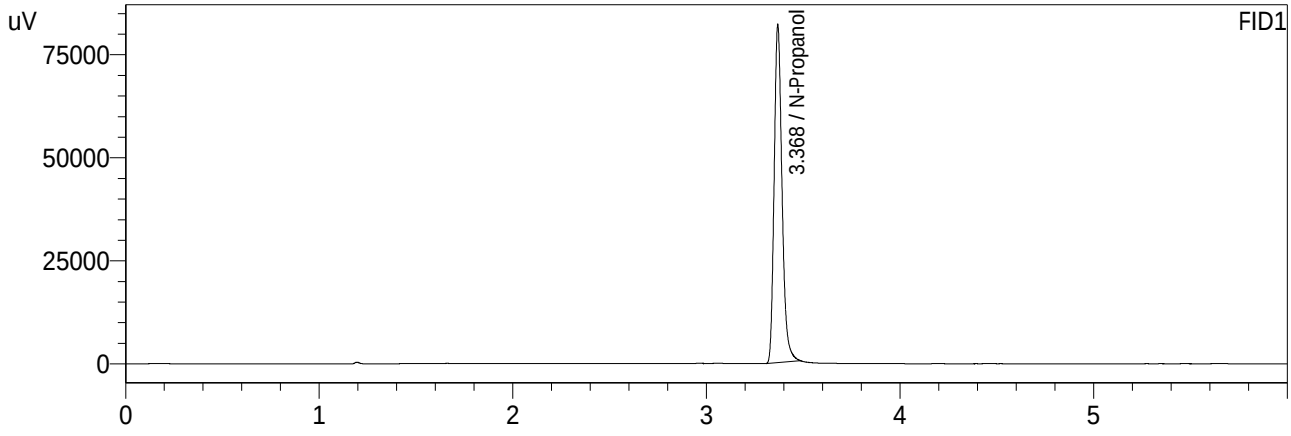
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	233847	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

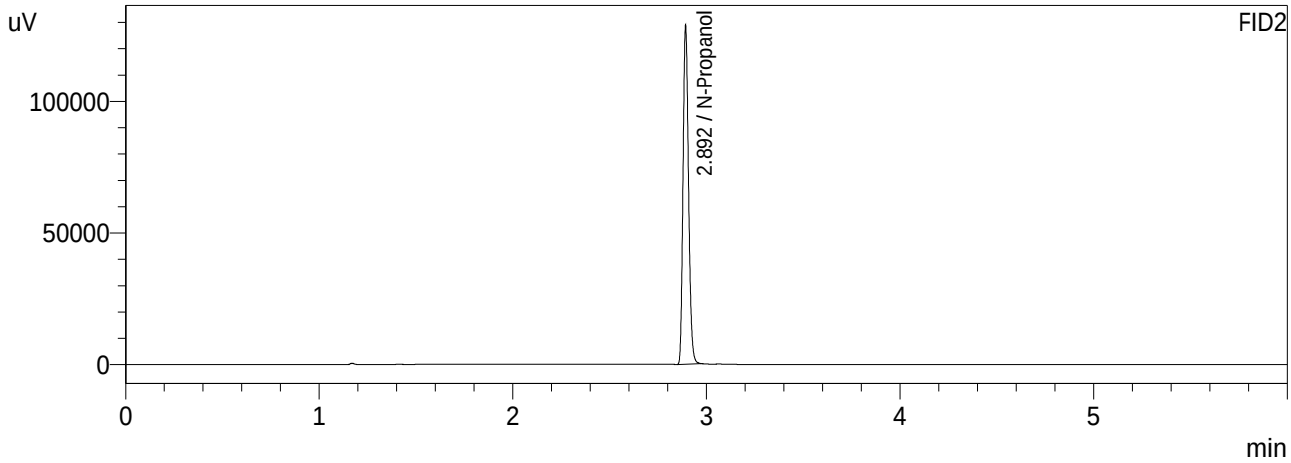
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	255025	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 3
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:15:43 PM
Vial # : 9
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

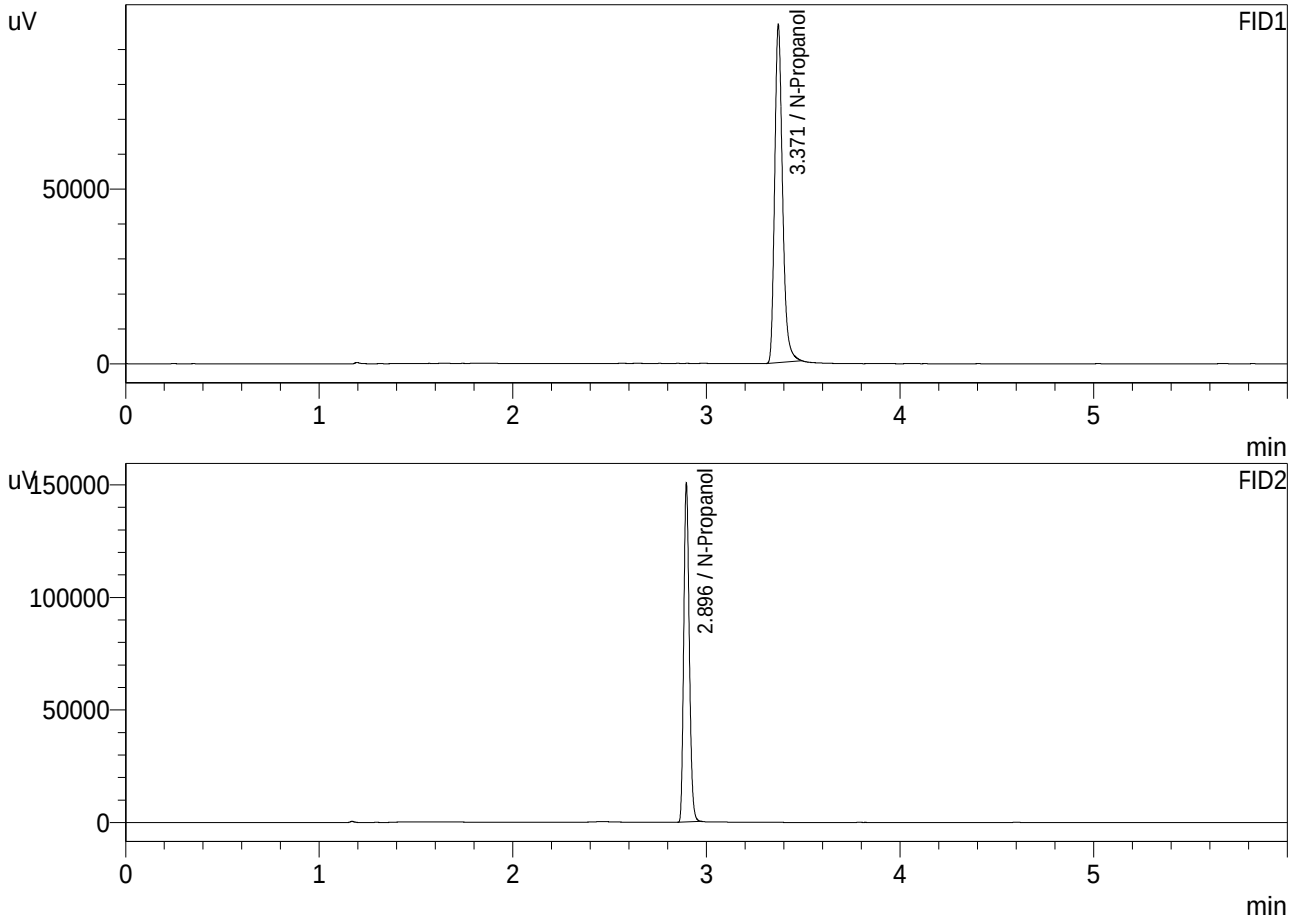
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	231799	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	254029	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : INT STD BLK 4
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 7:55:53 PM
Vial # : 52
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

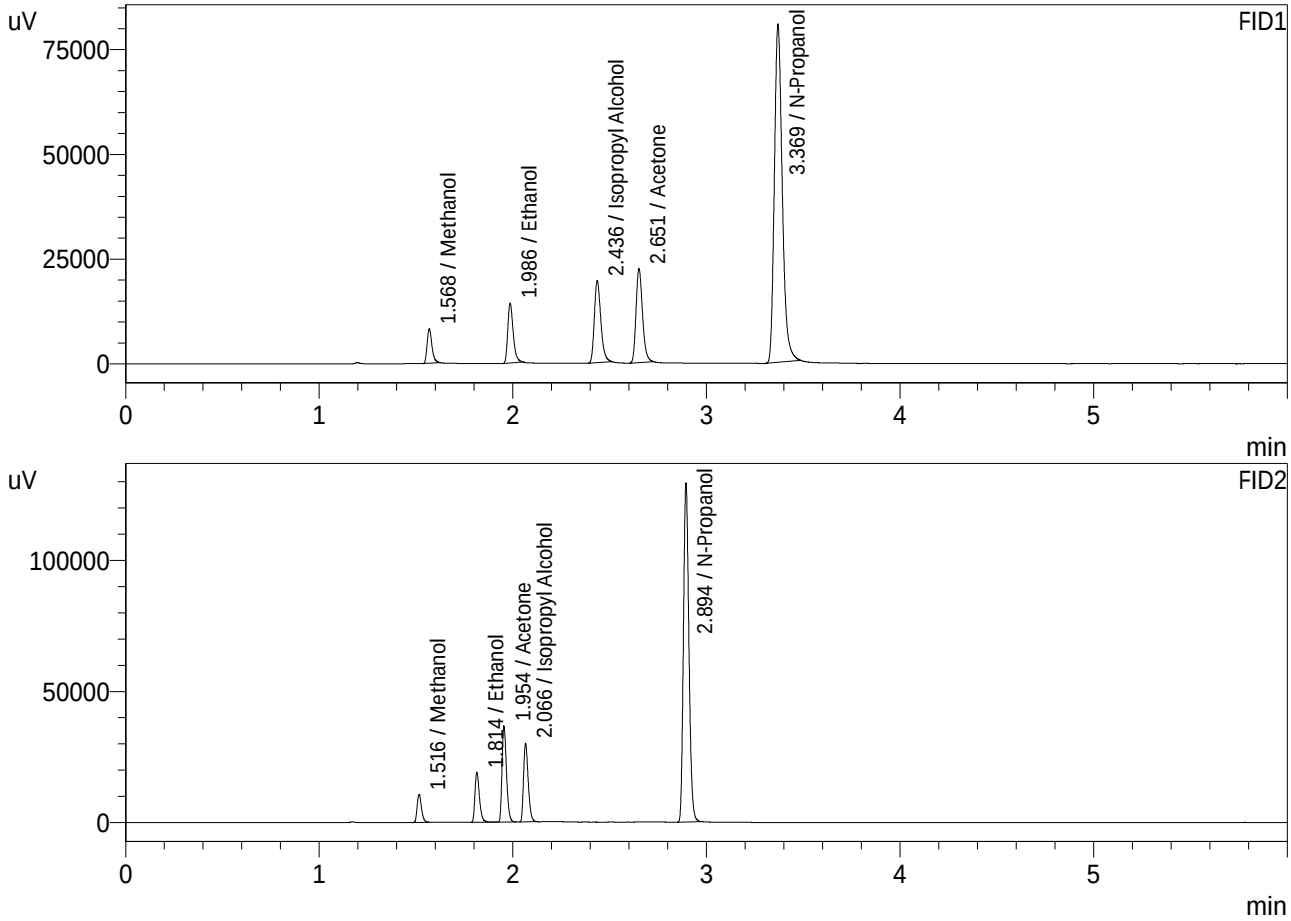
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	272997	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	299090	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : MULTI-COMP MIX
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:06:38 PM
Vial # : 8
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	1.0000	14145	g/100cc
Ethanol	0.0584	27770	g/100cc
Isopropyl Alcohol	1.0000	45812	g/100cc
Acetone	1.0000	52075	g/100cc
N-Propanol	0.0000	228882	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	1.0000	16530	g/100cc
Ethanol	0.0588	30898	g/100cc
Acetone	1.0000	58863	g/100cc
Isopropyl Alcohol	1.0000	50311	g/100cc
N-Propanol	0.0000	252647	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC1 **Item #1** **Analysis Date(s): 5/15/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0707	0.0704	0.0003	0.0705	0.0010	0.0710
(g/100cc)	0.0716	0.0714	0.0002	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%**

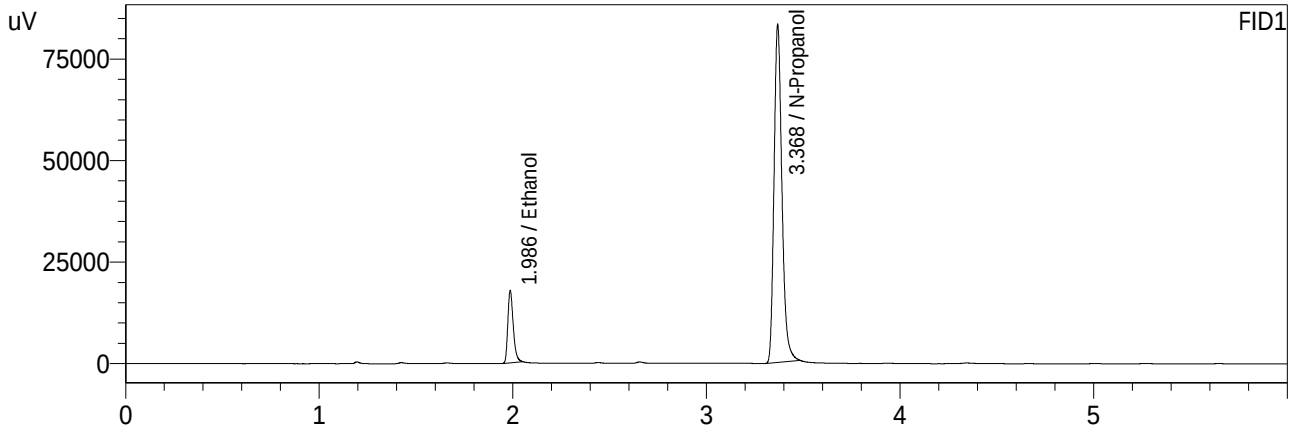
Overall Mean (g/100cc)	Low	High	5% of Mean
0.071	**0.067**	**0.075**	**0.004**

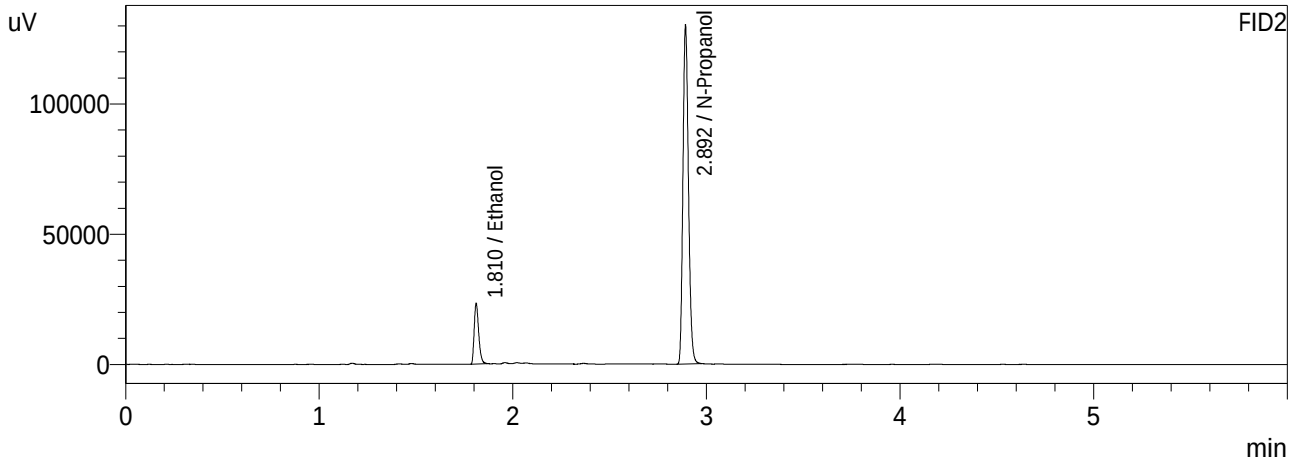
Reported Result

0.071

Calibration and control data are stored centrally.

Sample Name : QC-1-1-A
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:25:14 PM
Vial # : 10
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

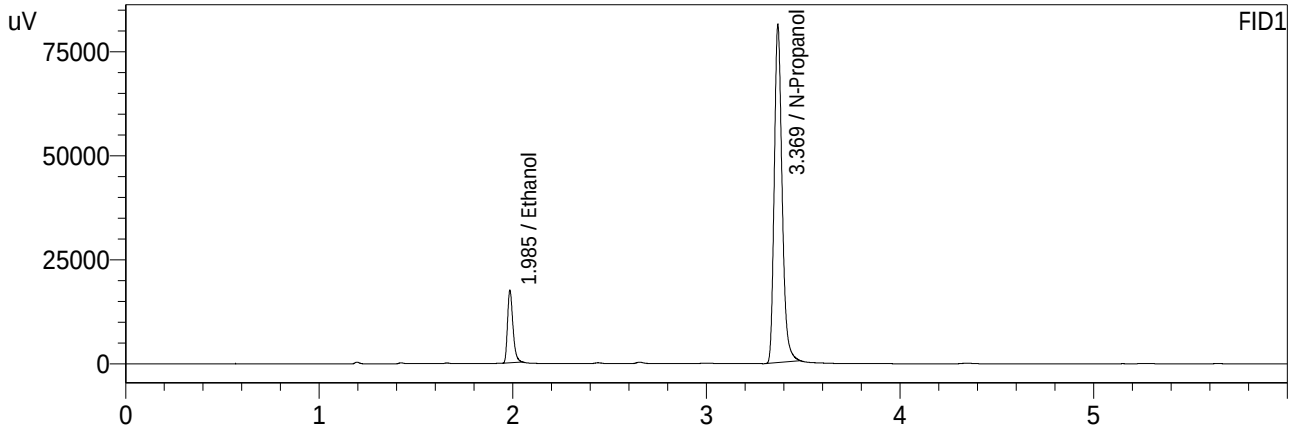
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0707	34609	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	235673	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

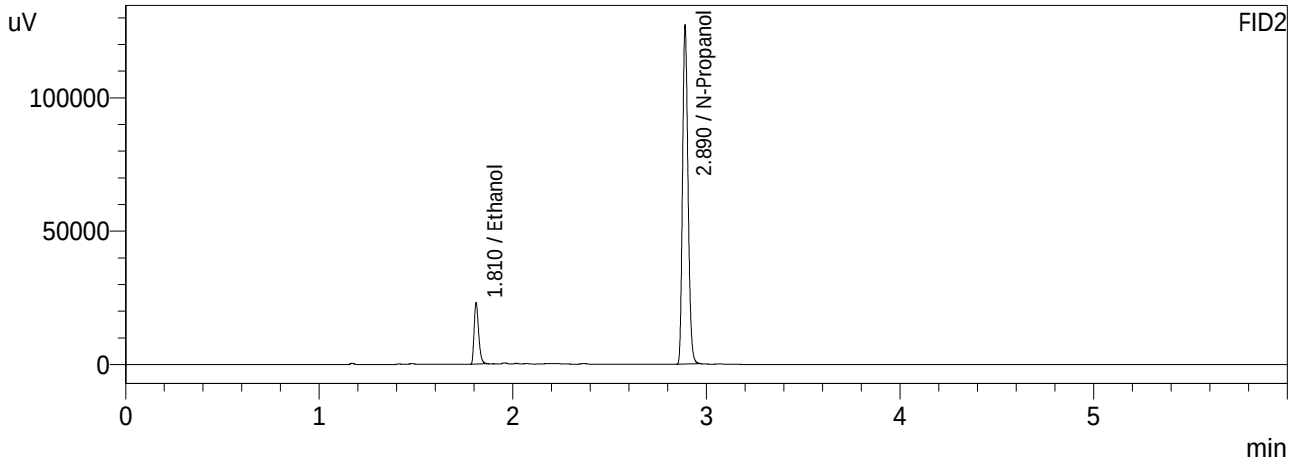
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0704	37684	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	257666	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-1-1-B
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:34:33 PM
Vial # : 11
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0716	33997	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	228706	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0714	37209	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	250671	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2 **Item #1** **Analysis Date(s): 5/15/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2091	0.2085	0.0006	0.2088	0.0004	0.2090
(g/100cc)	0.2094	0.2090	0.0004	0.2092		

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%**

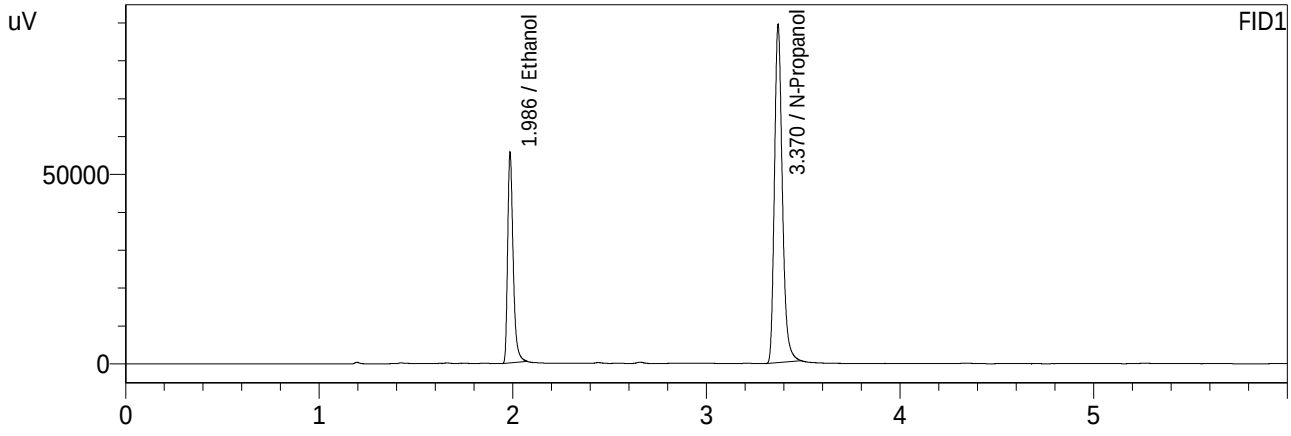
Overall Mean (g/100cc)	Low	High	5% of Mean
0.209	**0.198**	**0.220**	**0.011**

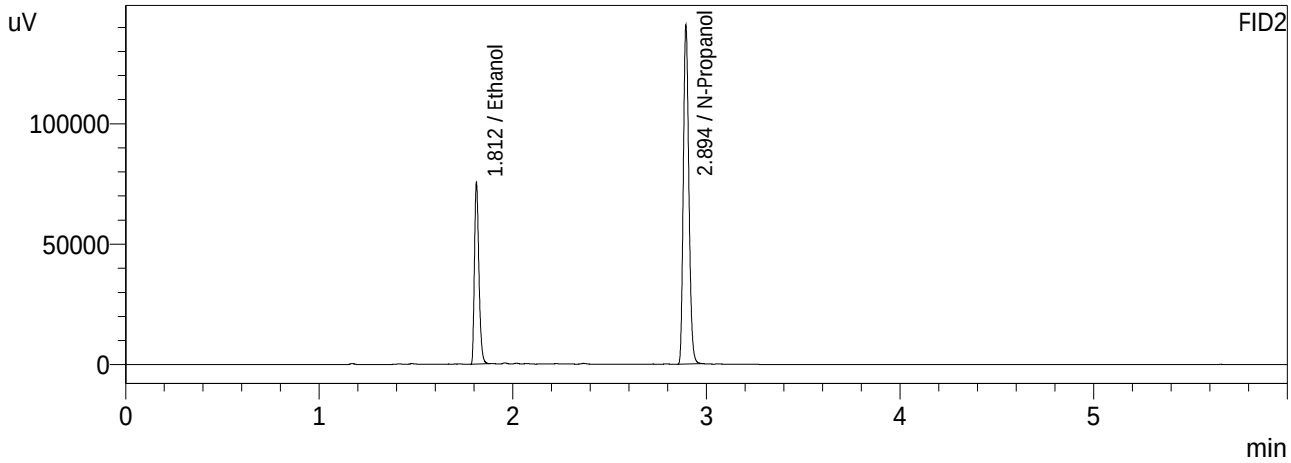
Reported Result

0.209

Calibration and control data are stored centrally.

Sample Name : QC-2-1-A
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 4:49:59 PM
Vial # : 32
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

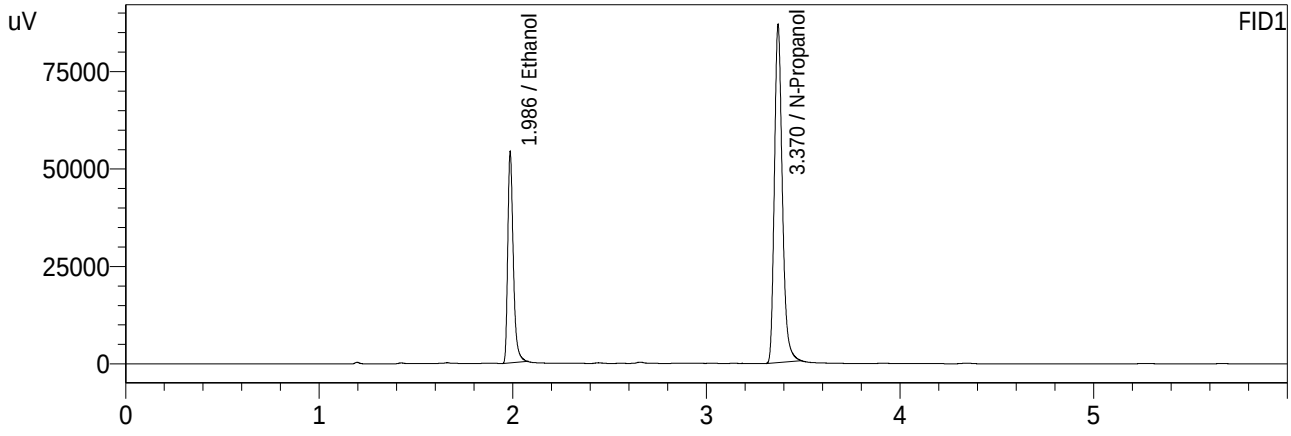
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2091	109689	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	252772	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

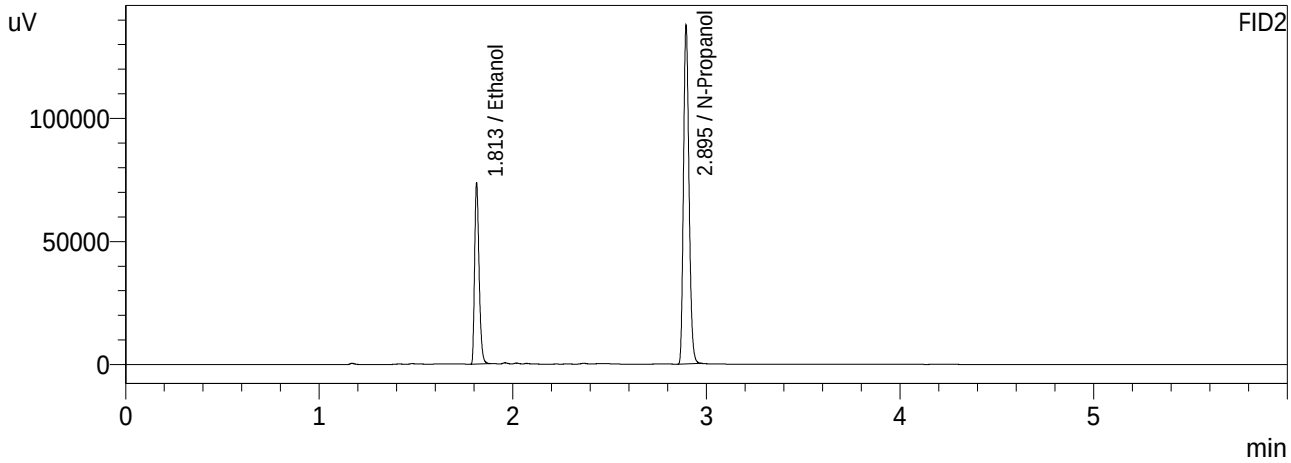
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2085	120939	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	279209	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-2-1-B
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 4:59:03 PM
Vial # : 33
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2094	107279	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	246771	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2090	118380	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	272602	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: QC2 **Item #2** **Analysis Date(s): 5/15/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2111	0.2114	0.0003	0.2112	0.0022	0.2123
(g/100cc)	0.2135	0.2134	0.0001	0.2134		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument information is stored centrally.*

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

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

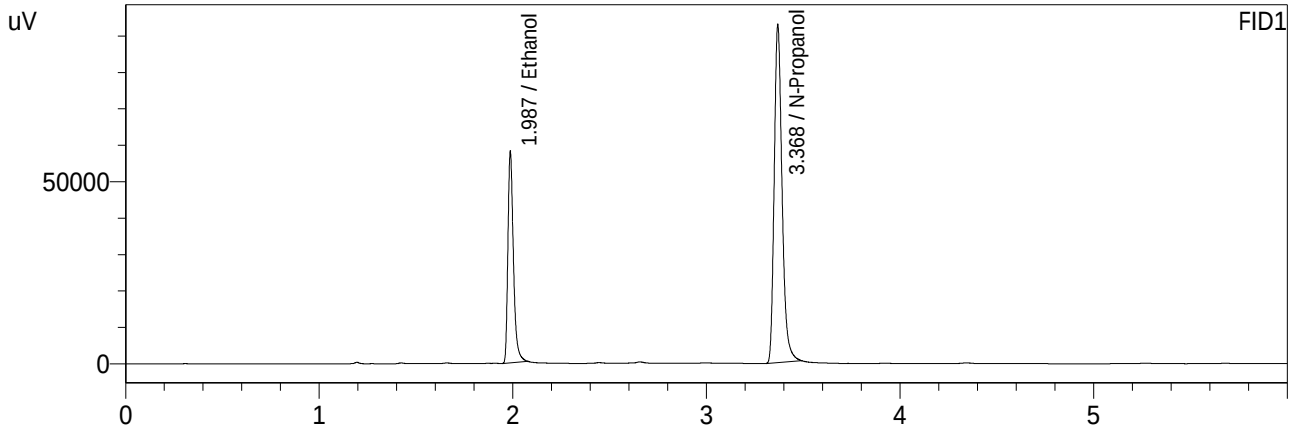
Overall Mean (g/100cc)	Low	High	5% of Mean
0.212	**0.201**	**0.223**	**0.011**

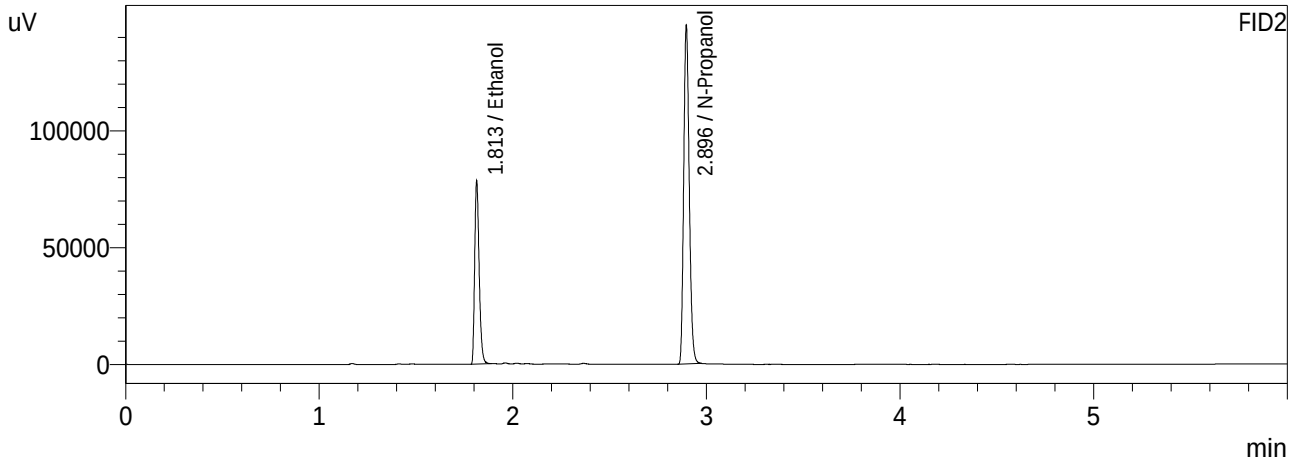
Reported Result

0.212

Calibration and control data are stored centrally.

Sample Name : QC-2-2-A
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 7:37:27 PM
Vial # : 50
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

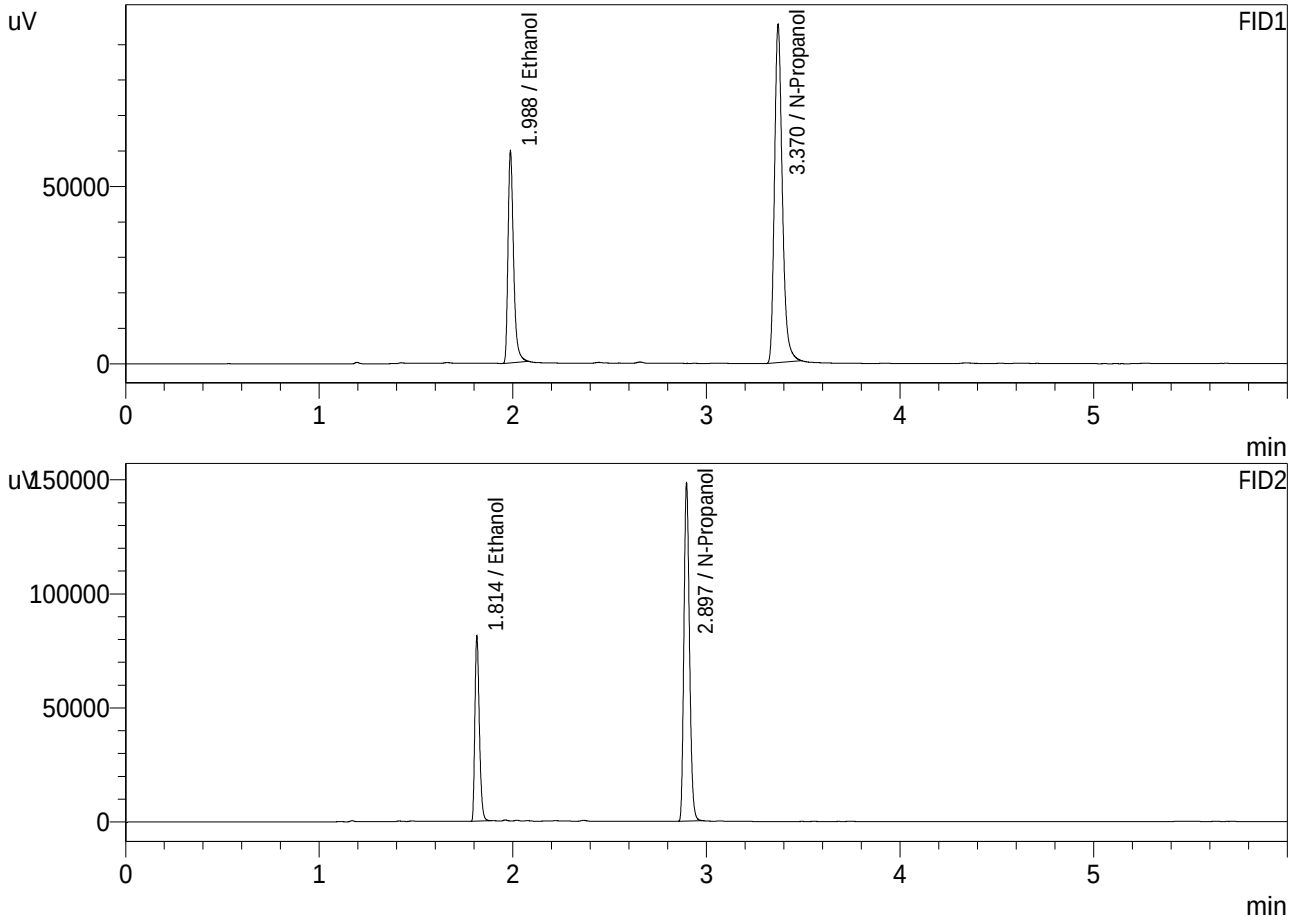
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2111	114683	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	261752	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2114	126251	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	287480	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : QC-2-2-B
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 7:46:47 PM
Vial # : 51
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2135	118686	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	267783	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2134	130844	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	295150	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

VOLATILES BAC CASEFILE WORKSHEET

Laboratory No.: 0.080 **Item #1** **Analysis Date(s): 5/15/22**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0777	0.0776	0.0001	0.0776	0.0013	0.0782
(g/100cc)	0.0790	0.0788	0.0002	0.0789		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

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

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

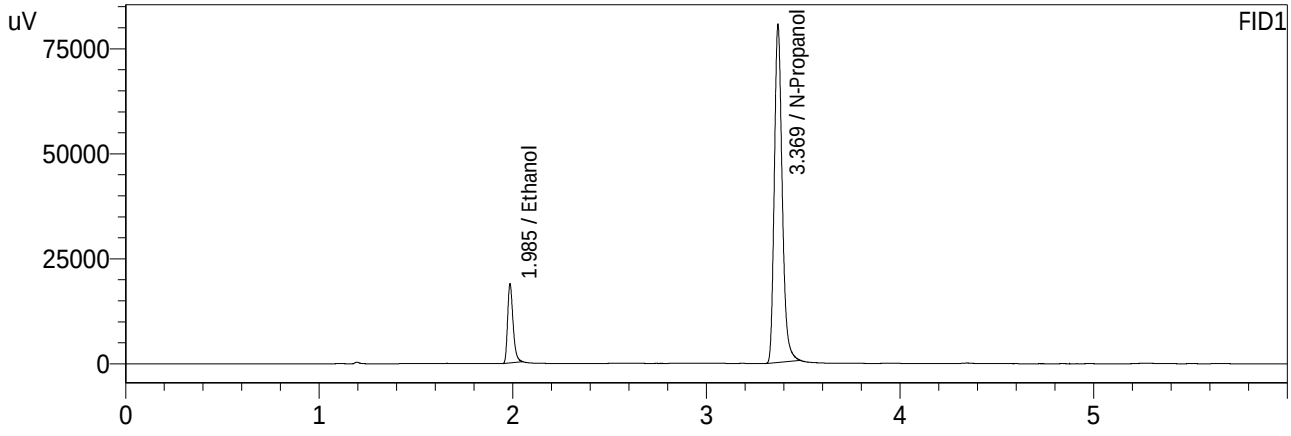
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	**0.074**	**0.082**	**0.004**

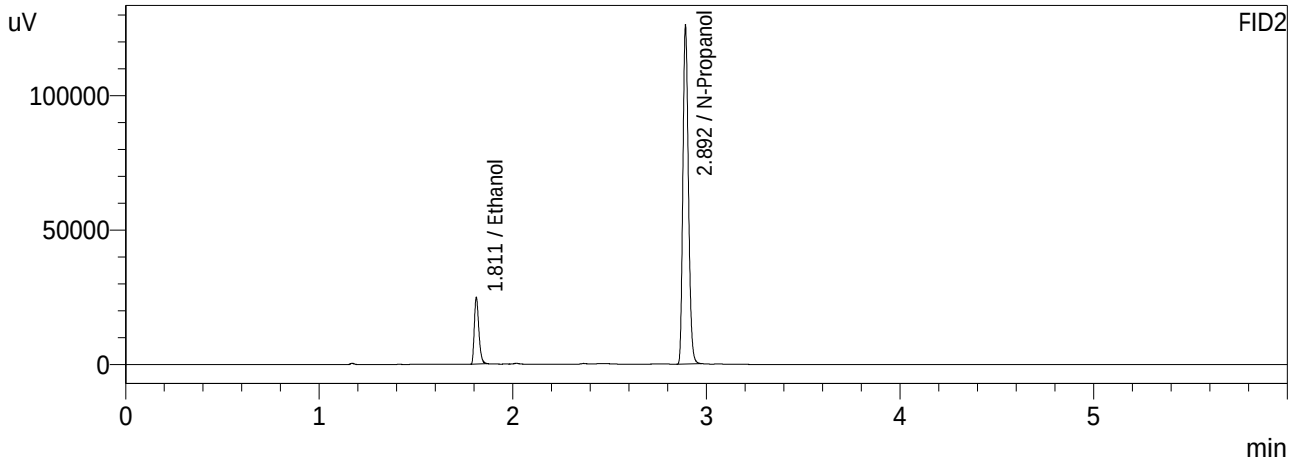
Reported Result

0.078

Calibration and control data are stored centrally.

Sample Name : 0.08 QA - A
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:43:38 PM
Vial # : 12
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

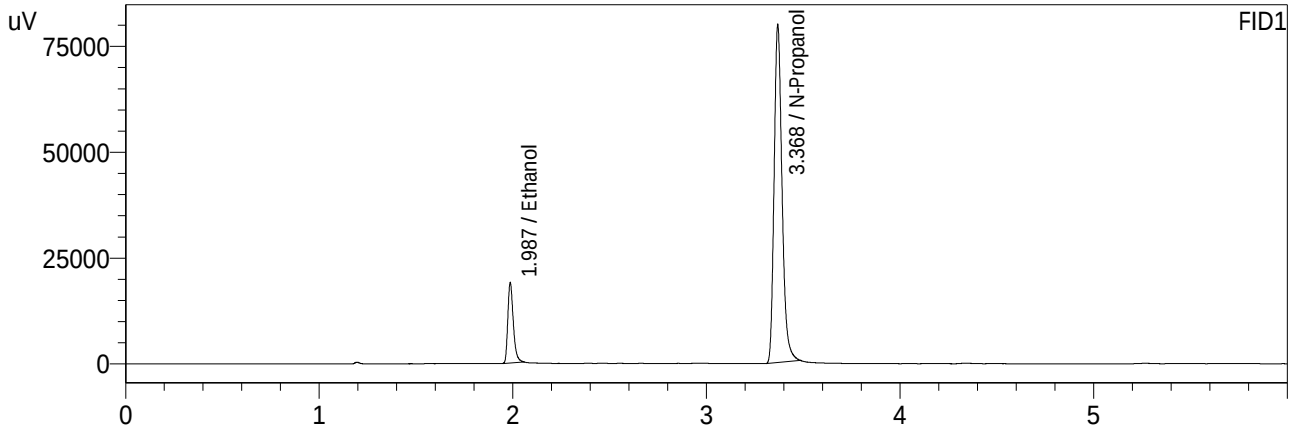
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0777	36708	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227367	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

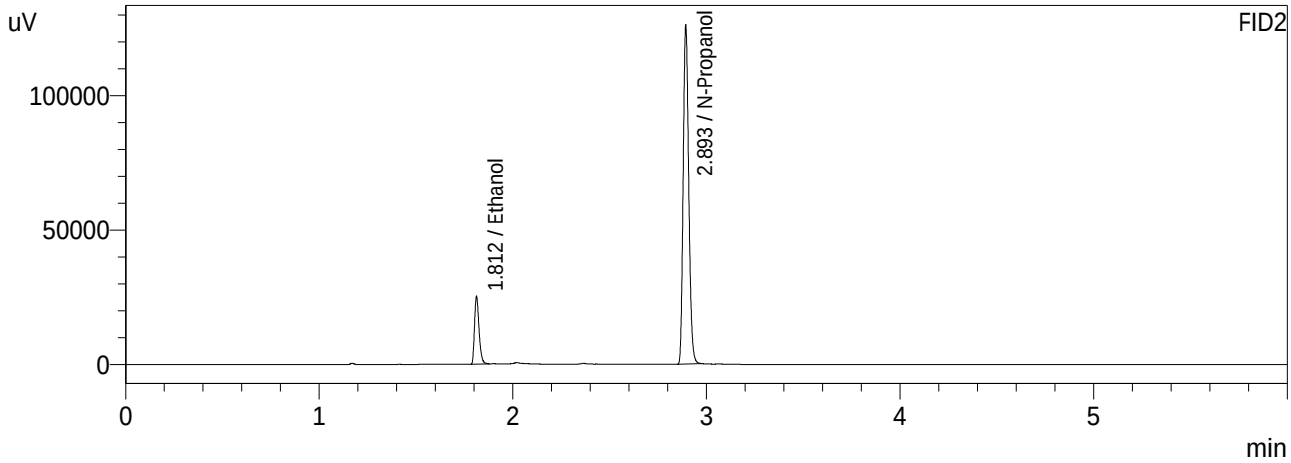
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0776	40292	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	249846	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

99

Sample Name : 0.08 QA - B
Laboratory : Coeur d' Alene Lab
Injection Date : 5/15/2022 1:53:08 PM
Vial # : 13
Method Filename : C:\LabSolutions\Data\5-15-22\ALCOHOL.GCM
Instrument #GC/HS : C12255850700 / C12595700181





FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0790	37274	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227257	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0788	40968	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	250323	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:  Date: 1/21/22
Title: Discipline Lead

Quality Review

Quality Approver:
Title:
Date: