REVIEWED

By Melissa (Nikka) Bradley at 11:19 am, Nov 23, 2018

11/21/2018

Worklist: 2794

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2018-2236	1	131209	Alcohol Analysis
C2018-2248	1	131283	Alcohol Analysis
C2018-2249	1	131289	Alcohol Analysis
C2018-2251	1	131387	Alcohol Analysis
C2018-2256	1	131394	Alcohol Analysis
C2018-2277	1	131445	Alcohol Analysis
C2018-2289	1	131648	Alcohol Analysis
C2018-2290	1	131651	Alcohol Analysis
C2018-2297	1	131724	Alcohol Analysis
C2018-2298	1	131727	Alcohol Analysis
C2018-2311	1	131825	Alcohol Analysis
C2018-2322	1	131978	Alcohol Analysis
C2018-2331	1	132137	Alcohol Analysis

c2018-2167 was re-run with this set of cases from worklist #2758

99

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 600 Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls **Run Date(s):11/19/2018**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0774 g/100cc
					0.0789 g/100cc
					g/100cc
Level 2	Jan-22	1803028	0.2035	0.1832-0.2238	0.1984 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		**Sep-20**	**Lot #**	FN06041502	OK
Curve Fit:			**Column 1**	0.99999 **Column2**	0.99999

Ethanol Calibration Reference Material								
Calibrator level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Column 1**	**Column 2**	**Precision**	**Mean**
0.050	Jun-21	FN04271601	0.050	0.045 - 0.055	0.0498	0.0490	0.0008	0.0494
0.080							0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0999	0.0984	0.0015	0.0991
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.2004	0.1988	0.0016	0.1996
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3020	0.3019	1E-04	0.3019
0.400							0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4987	0.4998	0.0011	0.4992

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	May-22	FN04171701	0.08000	0.076 - 0.084	0.079 g/100cc

~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_19.11.2018_02.58.01\11-19-2018.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_19.11.2018_02.58.01\11-19-2018.S
Data directory path: C:\Chem32\1\Data\11-19-2018-JJ
Logbook: C:\Chem32\1\Data\11-19-2018-JJ\11-19-2018.LOG
Sequence start: 11/19/2018 3:11:46 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	water	-	1.0000	001F0101.D		0
2	2	1	VOL MIX FN-06041	-	1.0000	002F0201.D		10
3	3	1	ISTD BLANK	-	1.0000	003F0301.D		2
4	4	1	QC-1-A	-	1.0000	004F0401.D		4
5	5	1	QC-1-B	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN04171701-	-	1.0000	007F0701.D		4
8	8	1	C2018-2236-1-A	-	1.0000	008F0801.D		4
9	9	1	C2018-2236-1-B	-	1.0000	009F0901.D		4
10	10	1	C2018-2248-1-A	-	1.0000	010F1001.D		6
11	11	1	C2018-2248-1-B	-	1.0000	011F1101.D		6
12	12	1	C2018-2249-1-A	-	1.0000	012F1201.D		4
13	13	1	C2018-2249-1-B	-	1.0000	013F1301.D		4
14	14	1	C2018-2251-1-A	-	1.0000	014F1401.D		4
15	15	1	C2018-2251-1-B	-	1.0000	015F1501.D		4
16	16	1	C2018-2256-1-A	-	1.0000	016F1601.D		4
17	17	1	C2018-2256-1-B	-	1.0000	017F1701.D		4
18	18	1	C2018-2277-1-A	-	1.0000	018F1801.D		2
19	19	1	C2018-2277-1-B	-	1.0000	019F1901.D		2
20	20	1	C2018-2289-1-A	-	1.0000	020F2001.D		4
21	21	1	C2018-2289-1-B	-	1.0000	021F2101.D		4
22	22	1	C2018-2290-1-A	-	1.0000	022F2201.D		2
23	23	1	C2018-2290-1-B	-	1.0000	023F2301.D		2
24	24	1	C2018-2297-1-A	-	1.0000	024F2401.D		4
25	25	1	C2018-2297-1-B	-	1.0000	025F2501.D		4
26	26	1	QC-2-A	-	1.0000	026F2601.D		4
27	27	1	QC-2-B	-	1.0000	027F2701.D		4
28	28	1	C2018-2298-1-A	-	1.0000	028F2801.D		4
29	29	1	C2018-2298-1-B	-	1.0000	029F2901.D		4
30	30	1	C2018-2311-1-A	-	1.0000	030F3001.D		4
31	31	1	C2018-2311-1-B	-	1.0000	031F3101.D		4
32	32	1	C2018-2322-1-A	-	1.0000	032F3201.D		4
33	33	1	C2018-2322-1-B	-	1.0000	033F3301.D		4
34	34	1	C2018-2331-1-A	-	1.0000	034F3401.D		4
35	35	1	C2018-2331-1-B	-	1.0000	035F3501.D		4
36	36	1	C2018-2167-1-A	-	1.0000	036F3601.D		4
37	37	1	C2018-2167-1-B	-	1.0000	037F3701.D		4
38	38	1	QC-1-A	-	1.0000	038F3801.D		4
39	39	1	QC-1-B	-	1.0000	039F3901.D		4
40	40	1	ISTD BLANK	-	1.0000	040F4001.D		2
41	41	1	water	-	1.0000	041F4101.D		0

99

Calibration Table

General Calibration Setting

Calib. Data Modified : Monday, November 19, 2018 2:48:55 PM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Forced
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100cc]	Name
1	1.00000	n-Propanol
2	1.00000	n-Propanol

Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

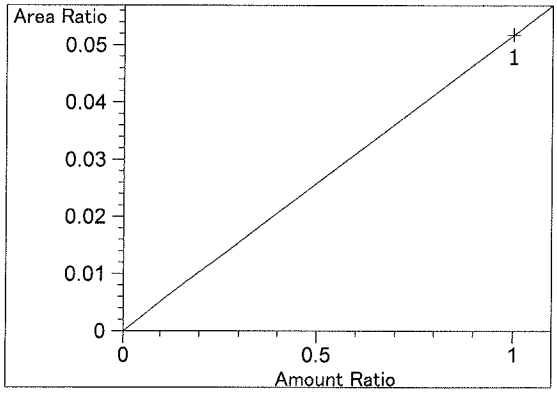
Overview Table

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No	2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No	1	Difluoroethane
2.494	1	1	1.00000	3.69669	2.70512e-1	No	No	1	Methanol
2.772	1	1	1.00000	3.19311	3.13174e-1	No	No	1	Acetaldehyde
2.797	2	1	1.00000	3.10575	3.21983e-1	No	No	2	Acetaldehyde
3.105	1	1	5.00000e-2	9.19494	5.43777e-3	No	No	1	Ethanol
		2	1.00000e-1	17.99894	5.55588e-3				
		3	2.00000e-1	35.79288	5.58770e-3				
		4	3.00000e-1	55.85429	5.37112e-3				
		5	5.00000e-1	90.90498	5.50025e-3				
3.211	2	1	1.00000	4.26062	2.34707e-1	No	No	2	Methanol
3.715	1	1	1.00000	9.73055	1.02769e-1	No	No	1	Isopropyl alcohol
4.176	2	1	5.00000e-2	8.99198	5.56051e-3	No	No	2	Ethanol
		2	1.00000e-1	17.66781	5.66001e-3				
		3	2.00000e-1	35.23597	5.67602e-3				
		4	3.00000e-1	55.47562	5.40778e-3				
		5	5.00000e-1	90.34902	5.53409e-3				
4.530	1	1	1.00000	6.49940	1.53860e-1	No	No	1	Acetone
4.549	2	1	1.00000	6.89301	1.45075e-1	No	No	2	Acetone
4.870	2	1	1.00000	10.70642	9.34019e-2	No	No	2	Isopropyl alcohol
4.938	1	1	1.00000	98.97179	1.01039e-2	No	Yes	1	n-Propanol
		2	1.00000	96.65092	1.03465e-2				
		3	1.00000	95.83787	1.04343e-2				
		4	1.00000	99.21509	1.00791e-2				
		5	1.00000	97.79926	1.02250e-2				
7.614	2	1	1.00000	96.61105	1.03508e-2	No	Yes	2	n-Propanol
		2	1.00000	94.51627	1.05802e-2				
		3	1.00000	93.31995	1.07158e-2				
		4	1.00000	96.75680	1.03352e-2				
		5	1.00000	95.18872	1.05054e-2				

Peak Sum Table

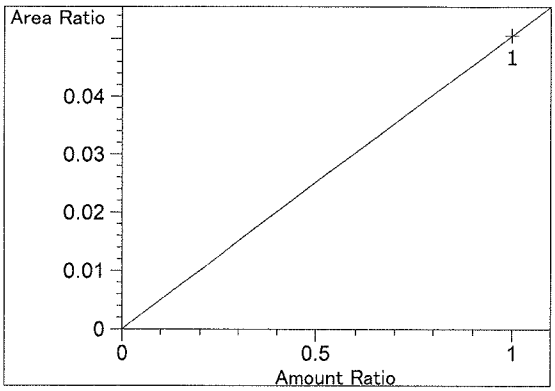
No Entries in table

Calibration Curves

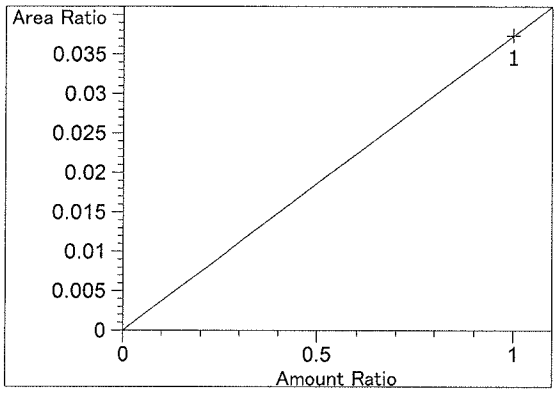


Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.17539e-2
x: Amount Ratio
y: Area Ratio

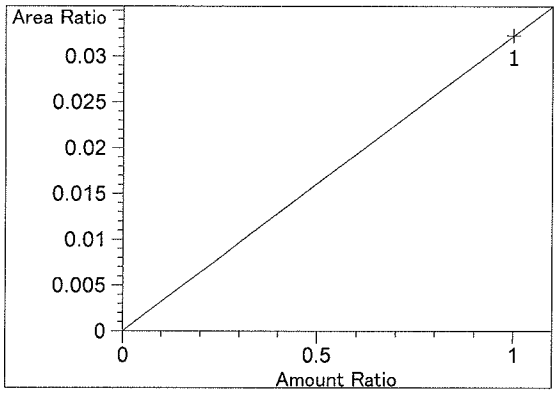
49



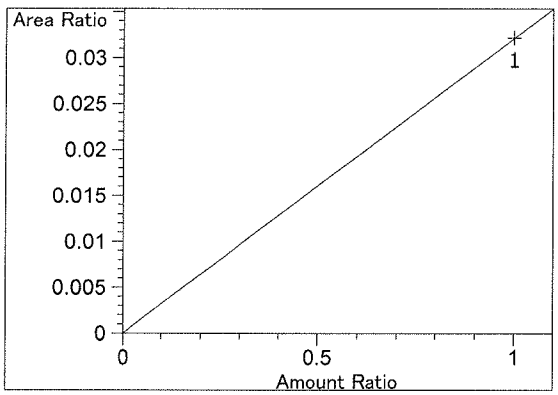
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.05194e-2
x: Amount Ratio
y: Area Ratio



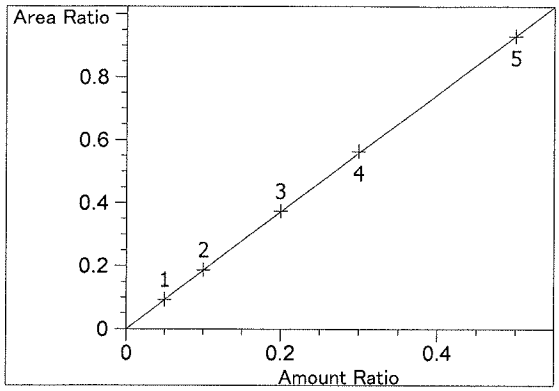
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.73510e-2
x: Amount Ratio
y: Area Ratio



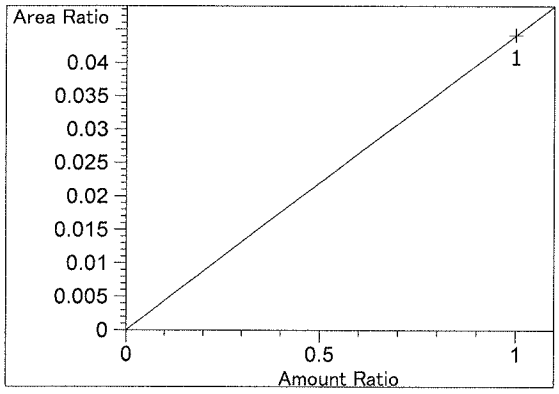
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.22628e-2
x: Amount Ratio
y: Area Ratio



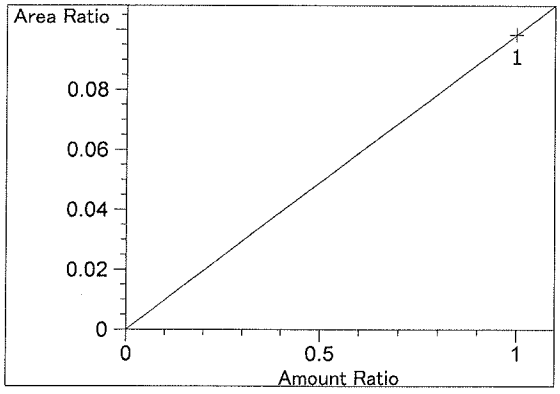
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.21469e-2
x: Amount Ratio
y: Area Ratio



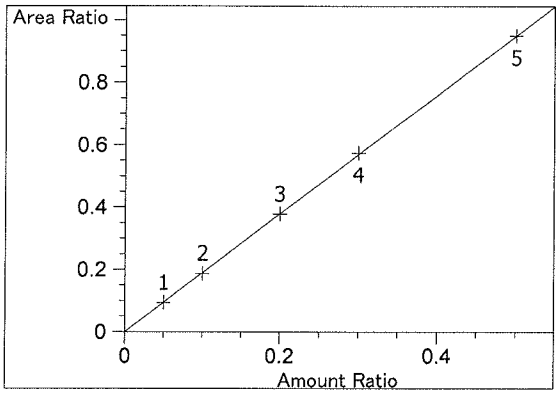
Ethanol at exp. RT: 3.105
FID1 A, Front Signal
Correlation: 0.99999 ✓
Residual Std. Dev.: 0.00229
Formula: y = mx
m: 1.86396
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.41008e-2
x: Amount Ratio
y: Area Ratio

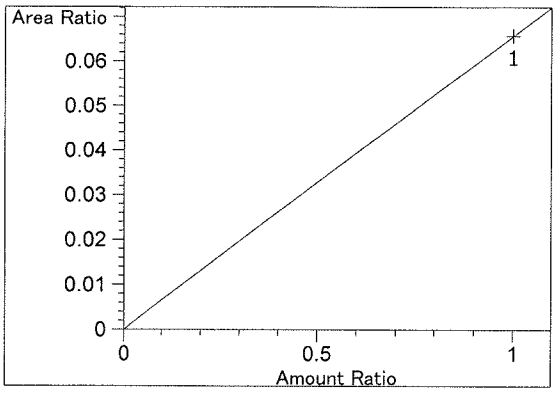


Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.83164e-2
x: Amount Ratio
y: Area Ratio

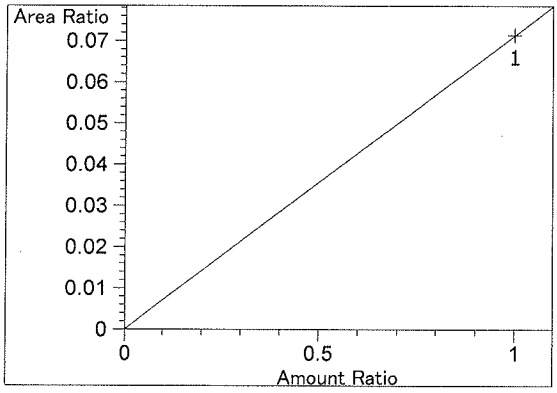


Ethanol at exp. RT: 4.176
FID2 B, Back Signal
Correlation: 0.99999 ✓
Residual Std. Dev.: 0.00277
Formula: y = mx
m: 1.89923
x: Amount Ratio
y: Area Ratio

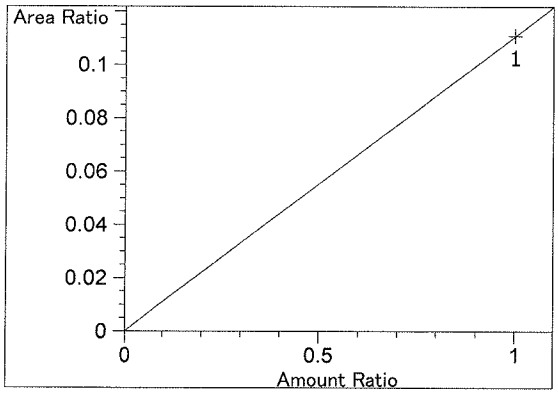
89



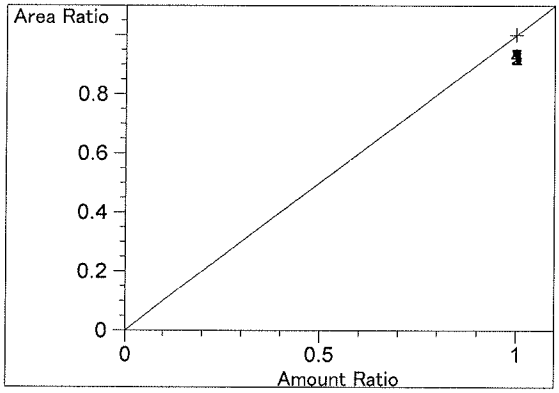
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.56692e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.13480e-2
x: Amount Ratio
y: Area Ratio

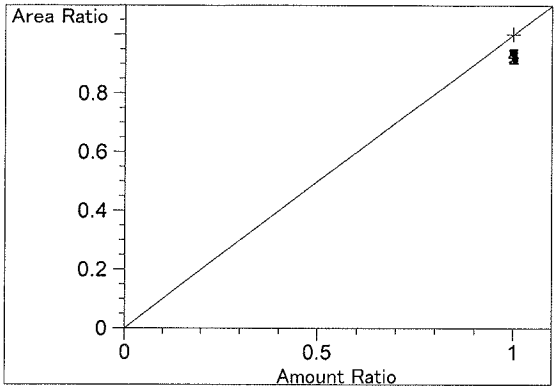


Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.10820e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.938
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

99



n-Propanol at exp. RT: 7.614
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_19.11.2018_01.14.28\11-19-18cal.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_19.11.2018_01.14.28\11-19-18cal.S
Data directory path: C:\Chem32\1\Data\11-19-18calJJ
Logbook: C:\Chem32\1\Data\11-19-18calJJ\11-19-18cal.LOG
Sequence start: 11/19/2018 1:28:09 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

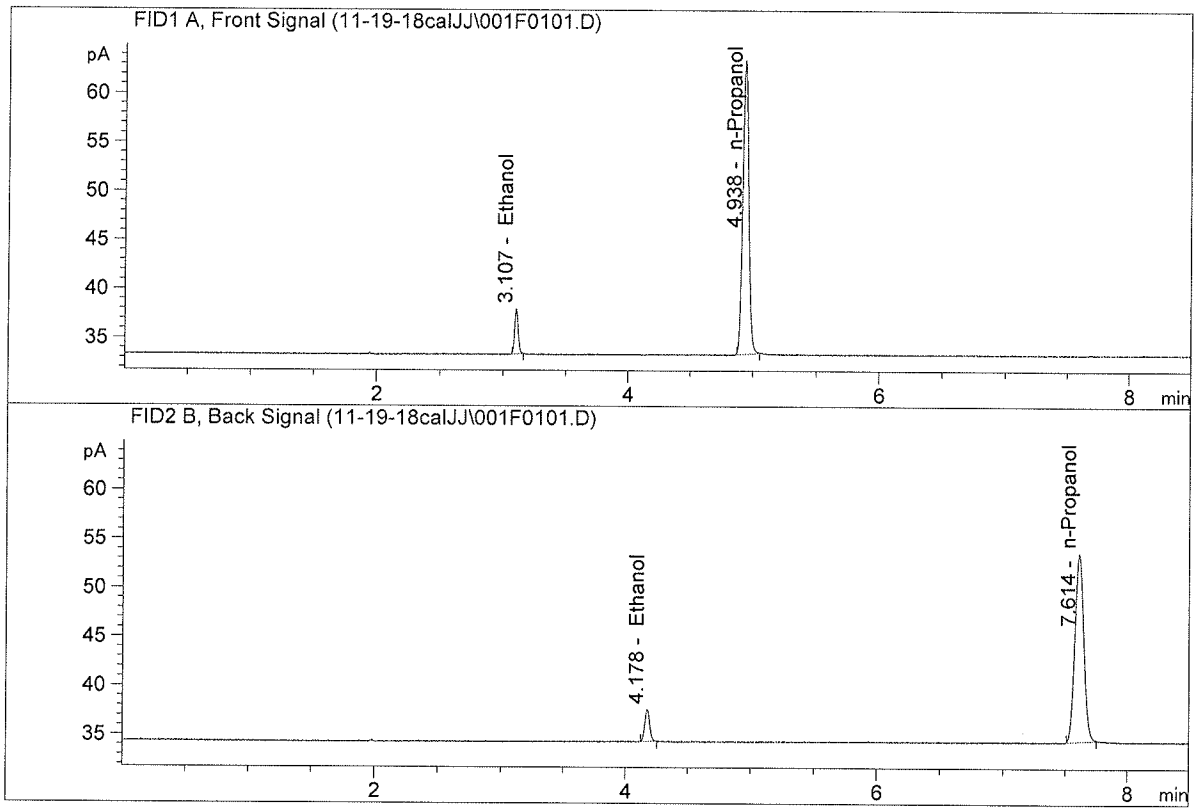
Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
1	1	1	0.05	-	1.0000	001F0101.D	*	4
2	2	1	0.100	-	1.0000	002F0201.D	*	4
3	3	1	0.200	-	1.0000	003F0301.D	*	4
4	4	1	0.300	-	1.0000	004F0401.D	*	4
5	5	1	0.500	-	1.0000	005F0501.D	*	4
6	6	1	blank	-	1.0000	006F0601.D		2

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

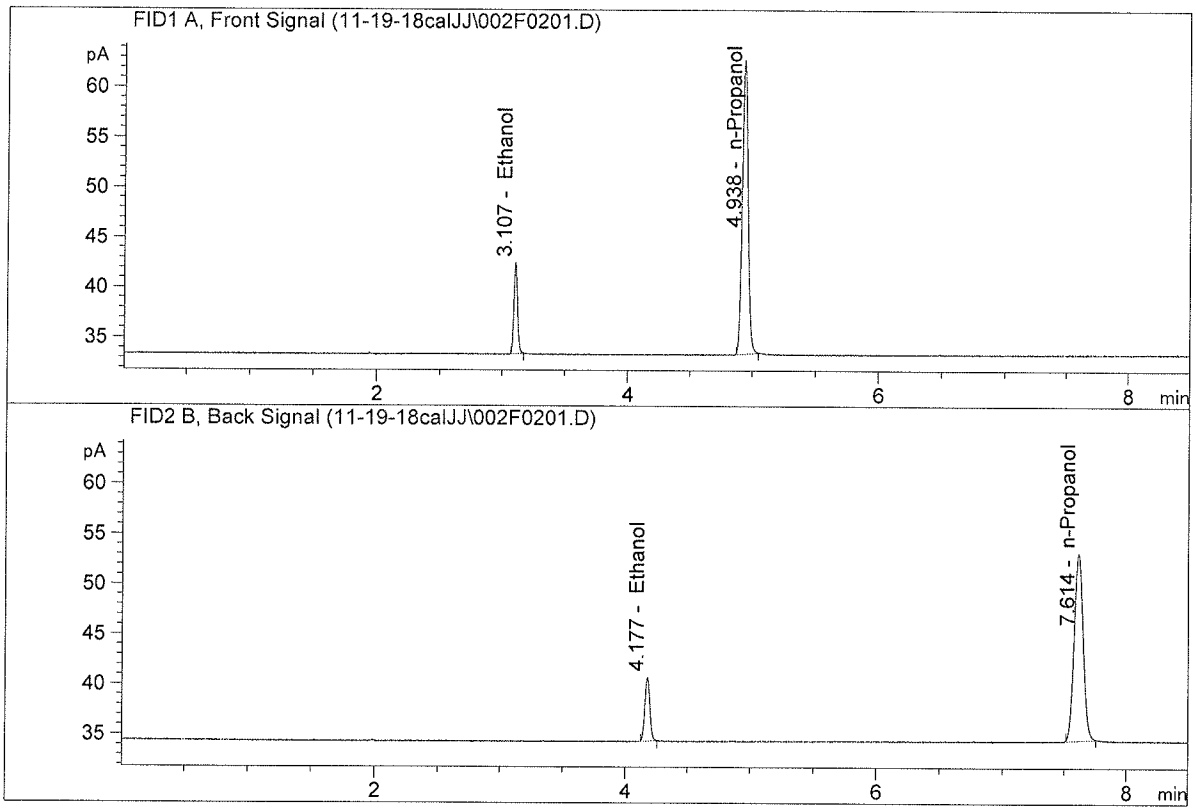


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.19494	0.0498	g/100cc
2.	Ethanol	Column 2:	8.99198	0.0490	g/100cc
3.	n-Propanol	Column 1:	98.97179	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.61105	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

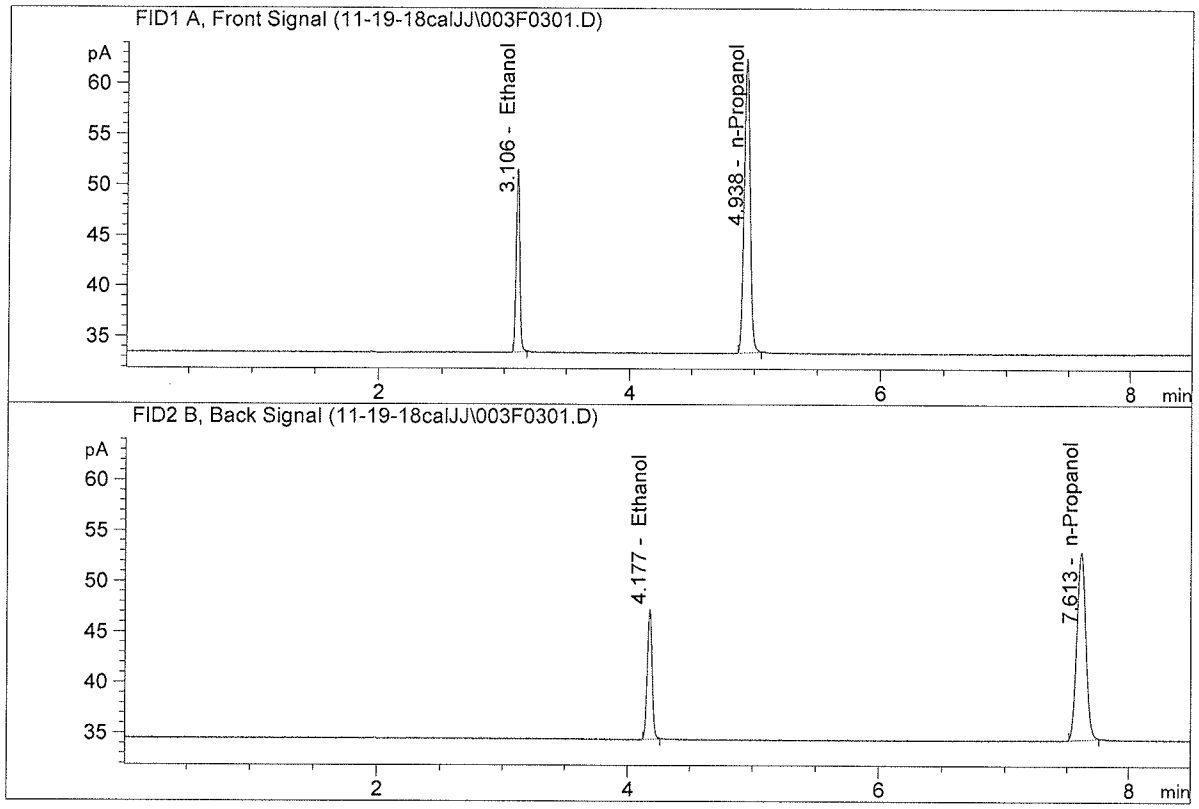
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.99894	0.0999	g/100cc
2.	Ethanol	Column 2:	17.66781	0.0984	g/100cc
3.	n-Propanol	Column 1:	96.65092	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.51627	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

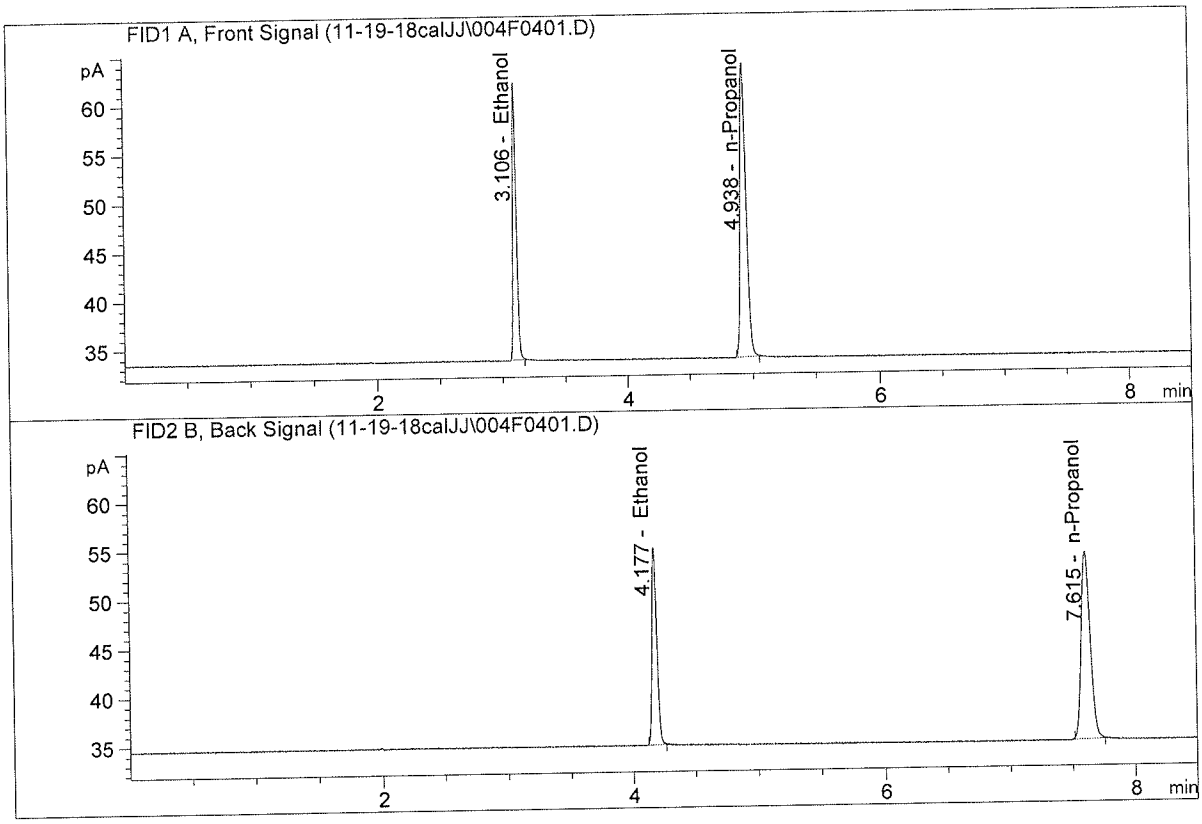


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.79288	0.2004	g/100cc
2.	Ethanol	Column 2:	35.23597	0.1988	g/100cc
3.	n-Propanol	Column 1:	95.83787	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.31995	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

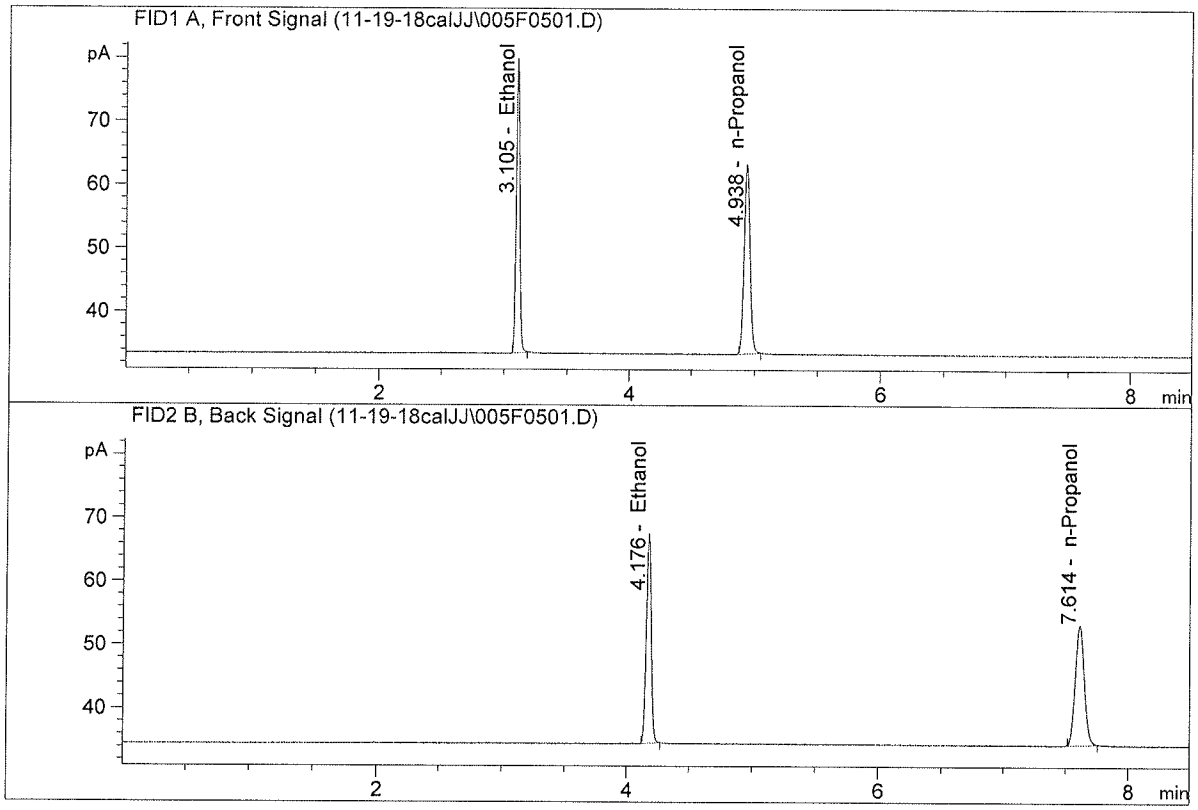


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	55.85429	0.3020	g/100cc
2.	Ethanol	Column 2:	55.47562	0.3019	g/100cc
3.	n-Propanol	Column 1:	99.21509	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.75680	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

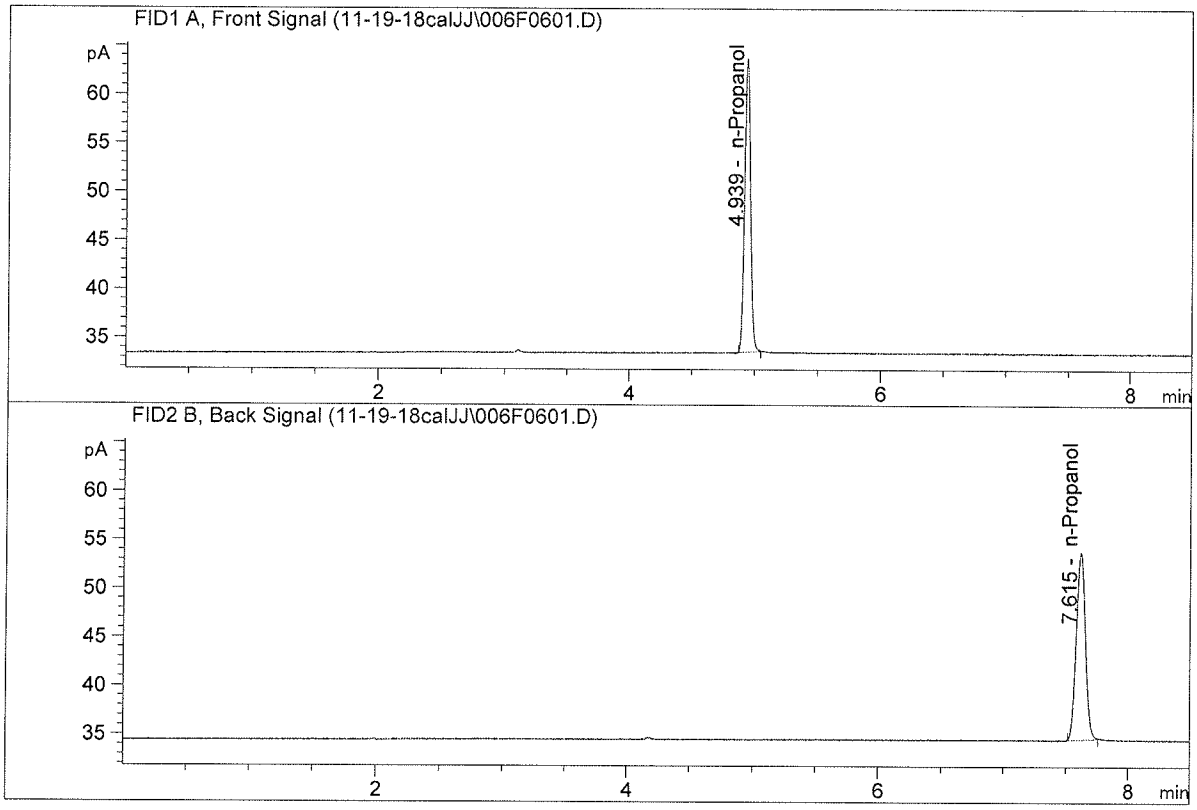
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	90.90498	0.4987	g/100cc
2.	Ethanol	Column 2:	90.34902	0.4998	g/100cc
3.	n-Propanol	Column 1:	97.79926	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.18872	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

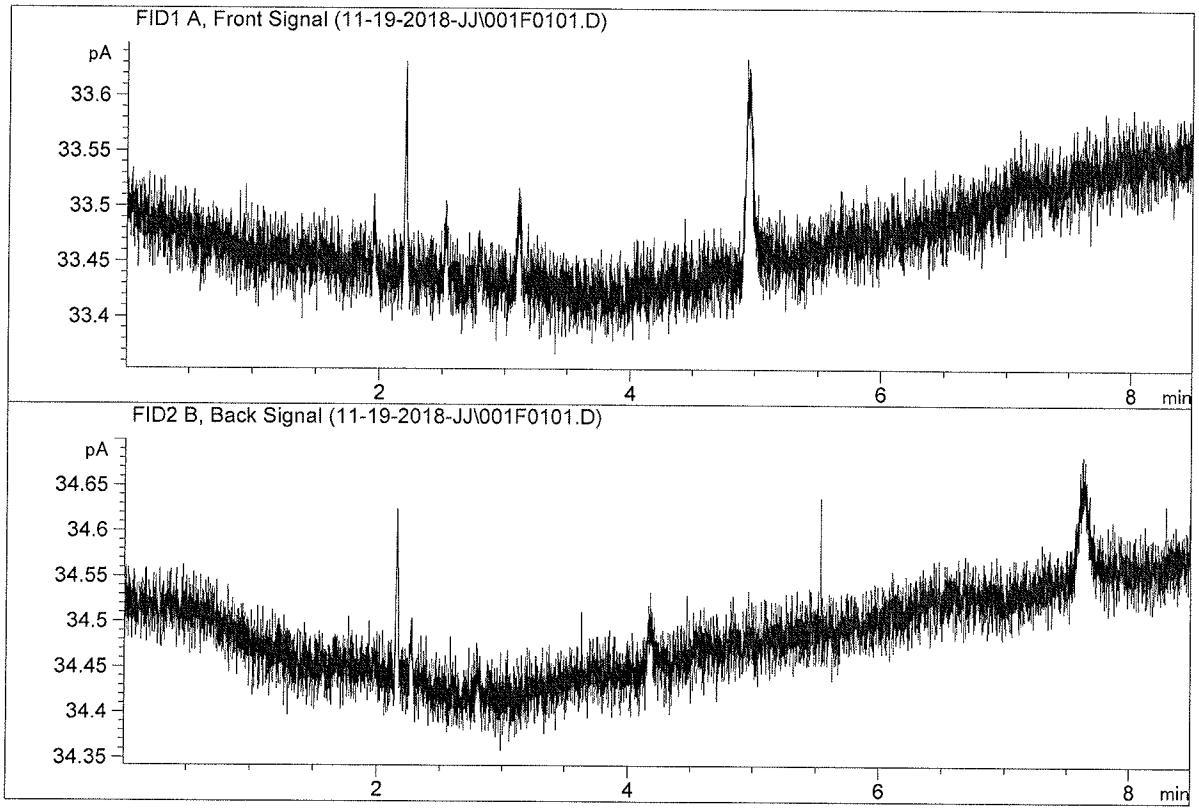


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	98.91236	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.85460	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

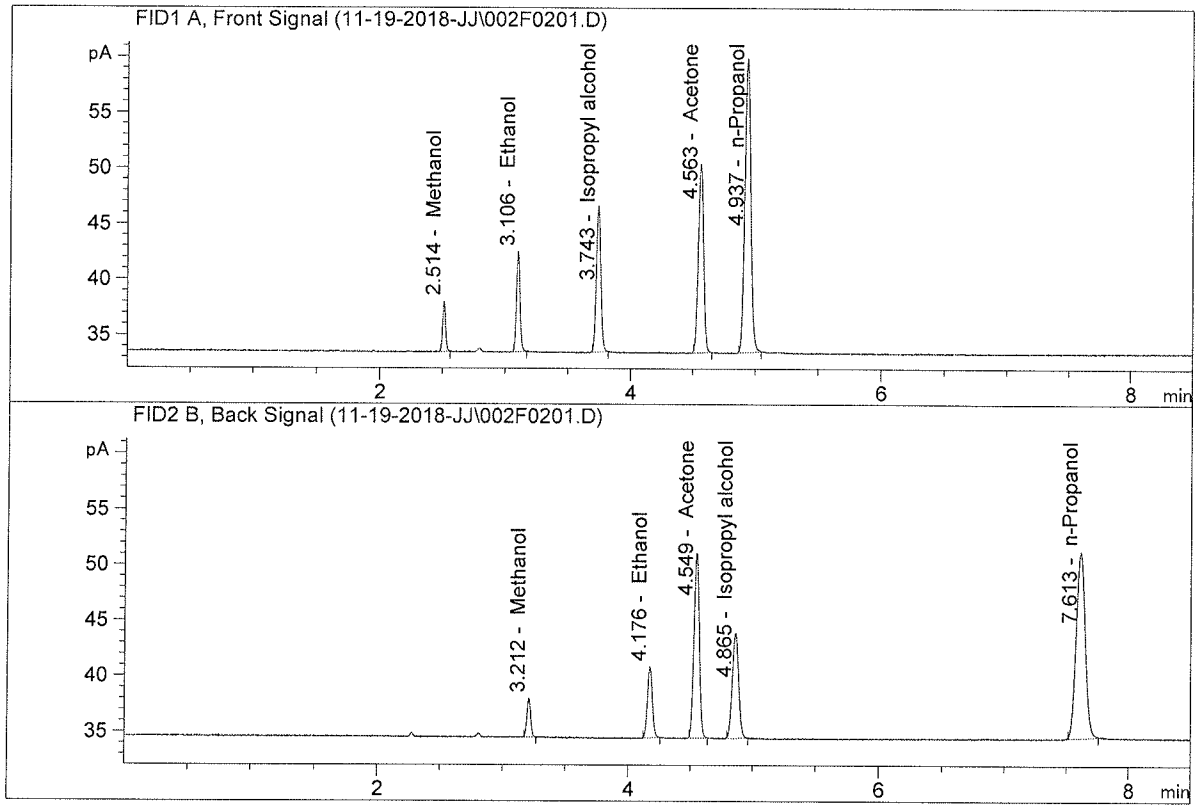


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

JJ

ISP Forensic Services Blood Alcohol Report

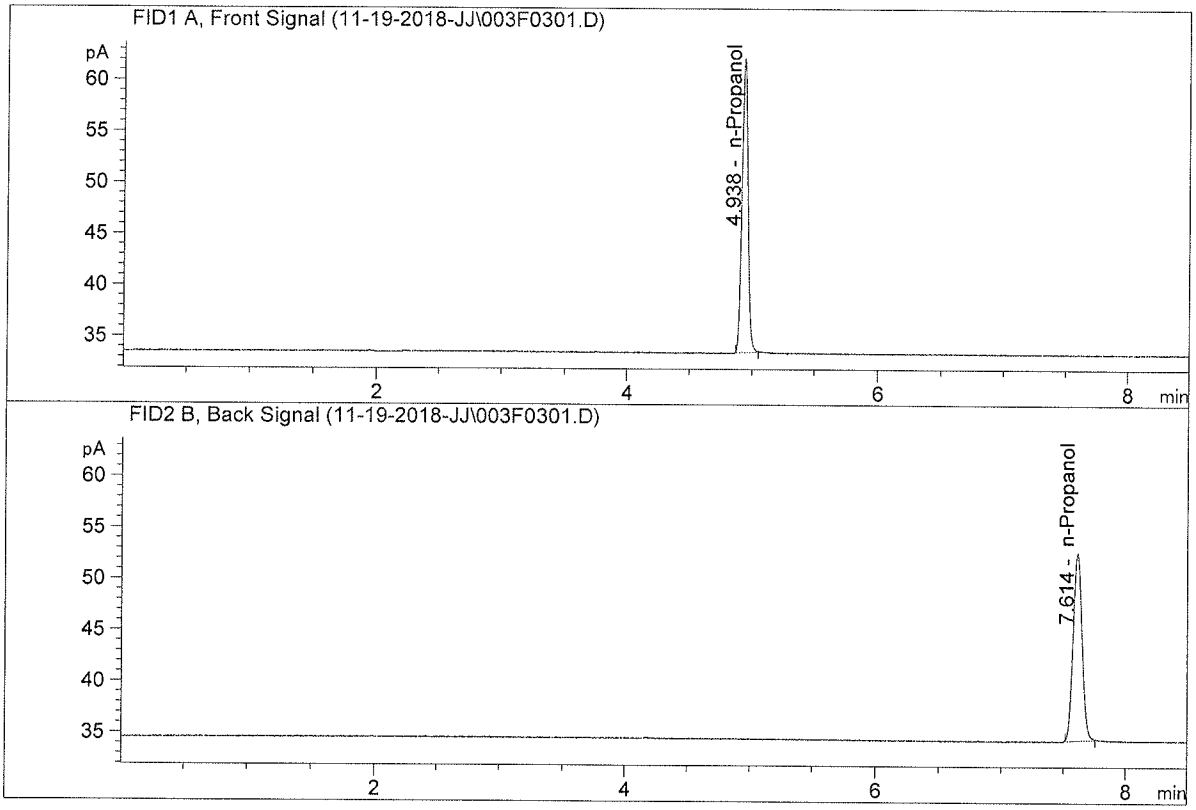
Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.85704	0.1103	g/100cc
2.	Ethanol	Column 2:	17.59645	0.1096	g/100cc
3.	n-Propanol	Column 1:	86.85658	1.0000	g/100cc
4.	n-Propanol	Column 2:	84.54942	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	94.21945	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.21643	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 19 Nov 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0777	0.0770	0.0007	0.0773	0.0774	
(g/100cc)	0.0780	0.0772	0.0008	0.0776		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	**0.073**	**0.081**	**0.004**

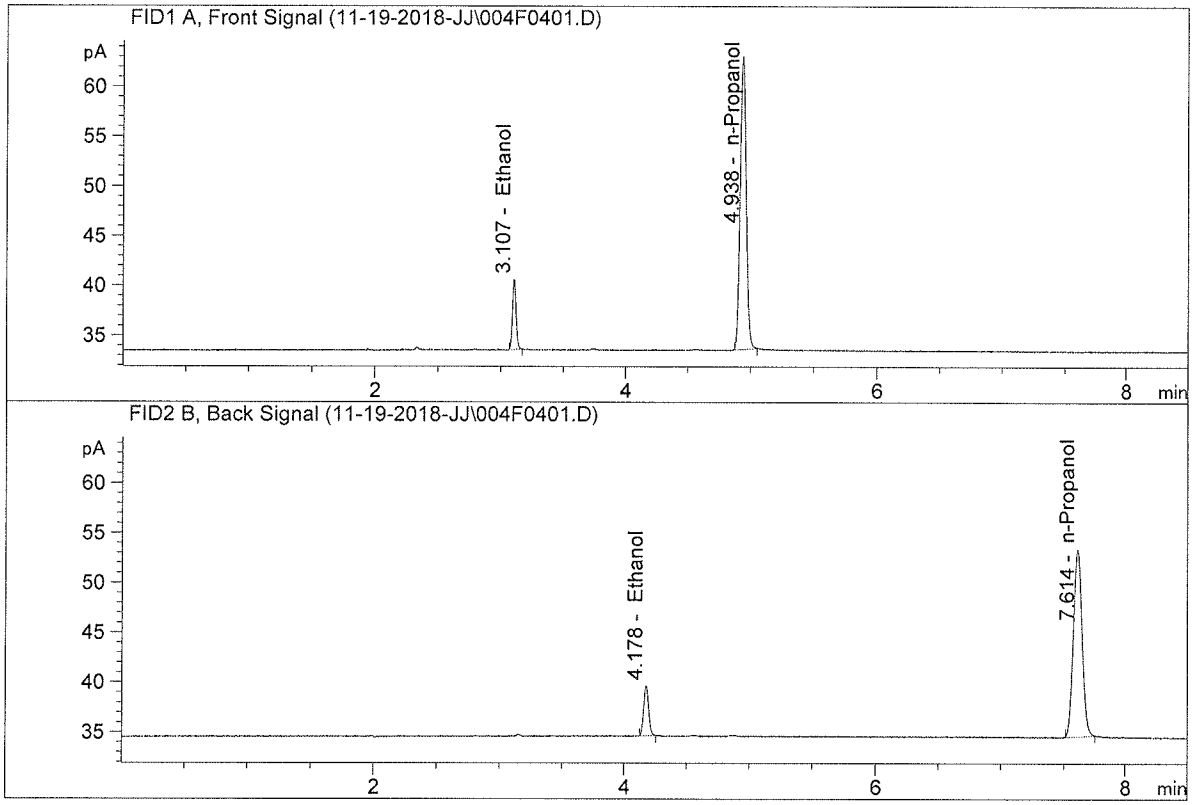
Reported Result

0.077

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

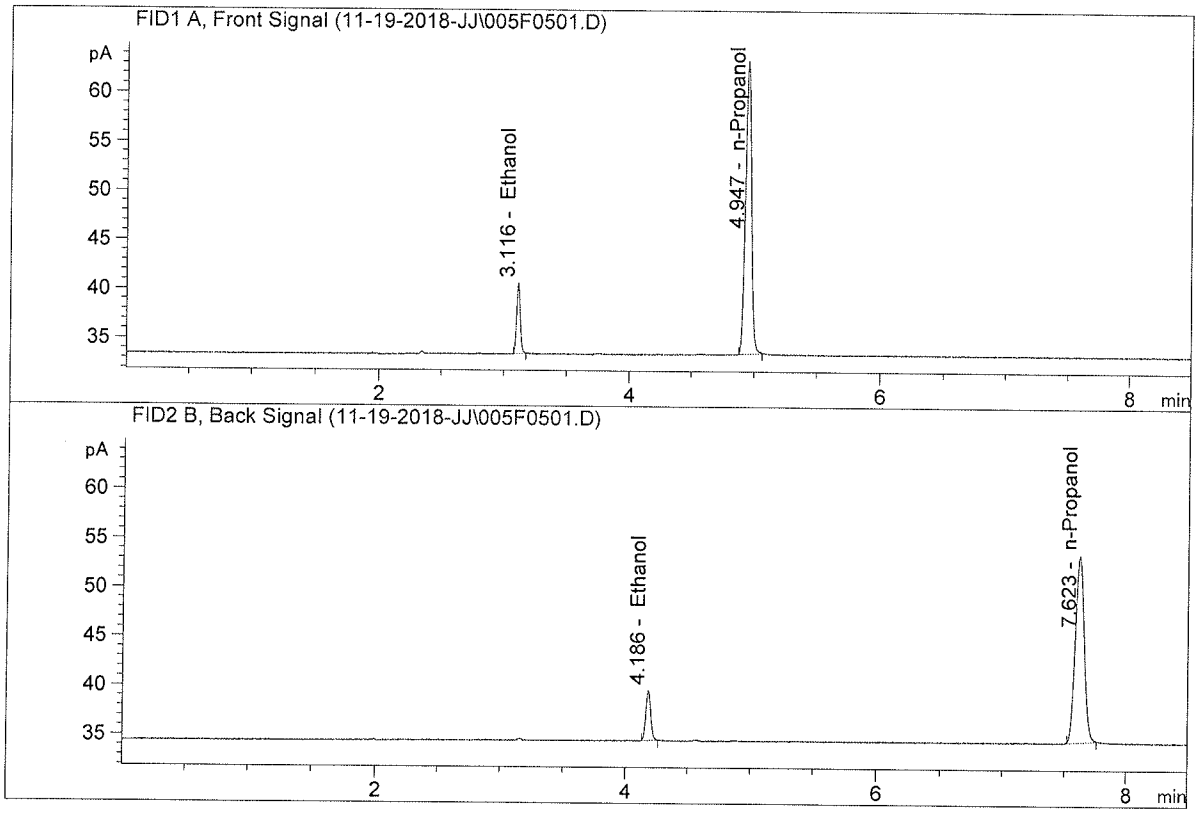
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.99940	0.0777	g/100cc
2.	Ethanol	Column 2:	13.83442	0.0770	g/100cc
3.	n-Propanol	Column 1:	96.63365	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.60855	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.23115	0.0780	g/100cc
2.	Ethanol	Column 2:	14.00280	0.0772	g/100cc
3.	n-Propanol	Column 1:	97.91689	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.50465	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 19 Nov 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0797	0.0793	0.0004	0.0795	0.0795	
(g/100cc)	0.0797	0.0794	0.0003	0.0795		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

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**

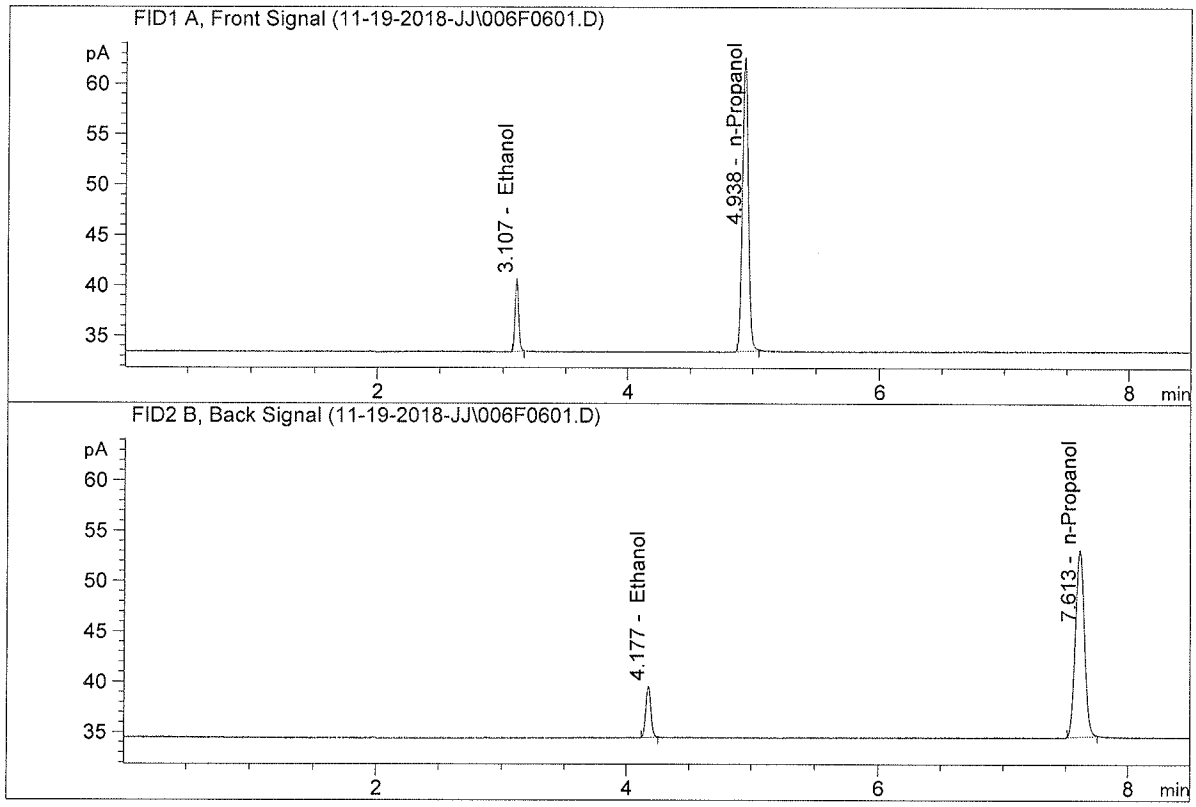
Reported Result

0.079

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

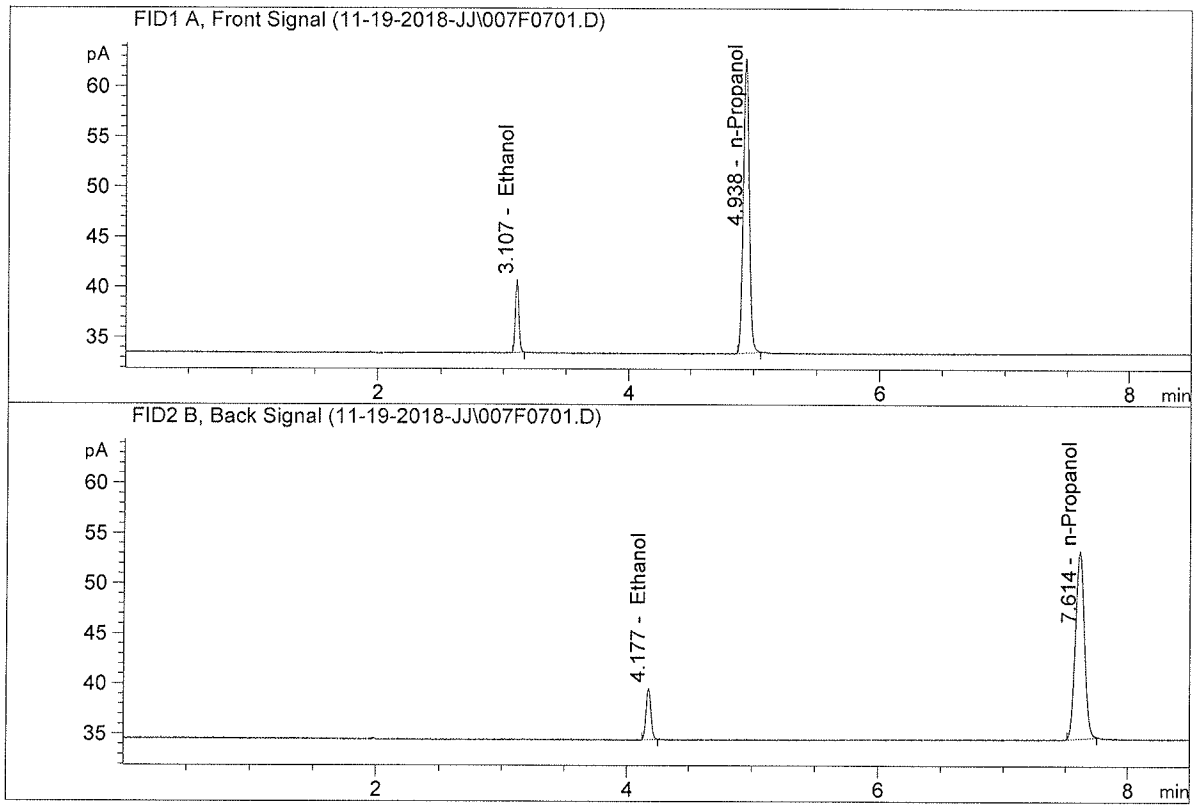
Sample Name : 0.08 FN04171701-A
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.24504	0.0797	g/100cc
2.	Ethanol	Column 2:	14.09416	0.0793	g/100cc
3.	n-Propanol	Column 1:	95.83113	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.62964	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.32488	0.0797	g/100cc
2.	Ethanol	Column 2:	14.18538	0.0794	g/100cc
3.	n-Propanol	Column 1:	96.42765	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.05569	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 19 Nov 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1990	0.1987	0.0003	0.1988	0.1984	
(g/100cc)	0.1982	0.1978	0.0004	0.1980		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.198	**0.188**	**0.208**	**0.010**

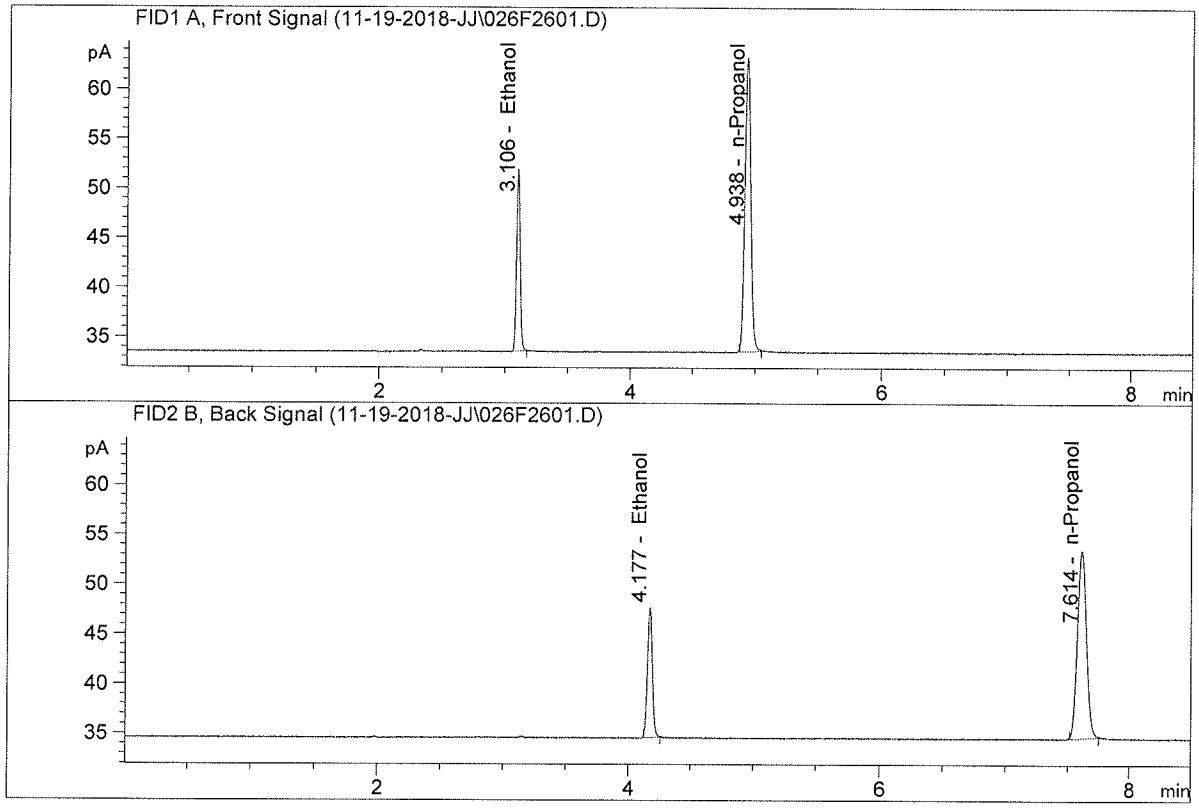
Reported Result

0.198

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

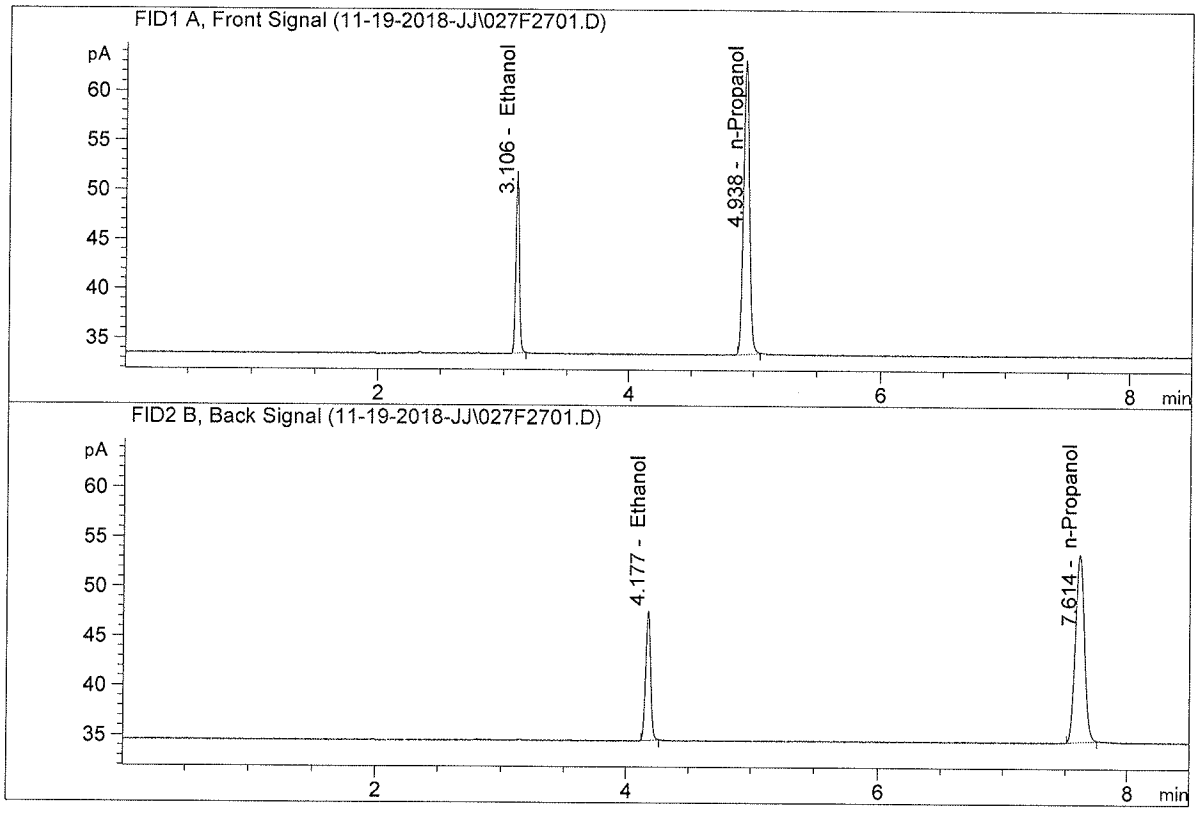


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.23424	0.1990	g/100cc
2.	Ethanol	Column 2:	35.93163	0.1987	g/100cc
3.	n-Propanol	Column 1:	97.66624	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.19752	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.17957	0.1982	g/100cc
2.	Ethanol	Column 2:	35.92391	0.1978	g/100cc
3.	n-Propanol	Column 1:	97.91210	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.65005	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 19 Nov 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0796	0.0789	0.0007	0.0792	0.0789	
(g/100cc)	0.0790	0.0783	0.0007	0.0786		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: ML600HC11379

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

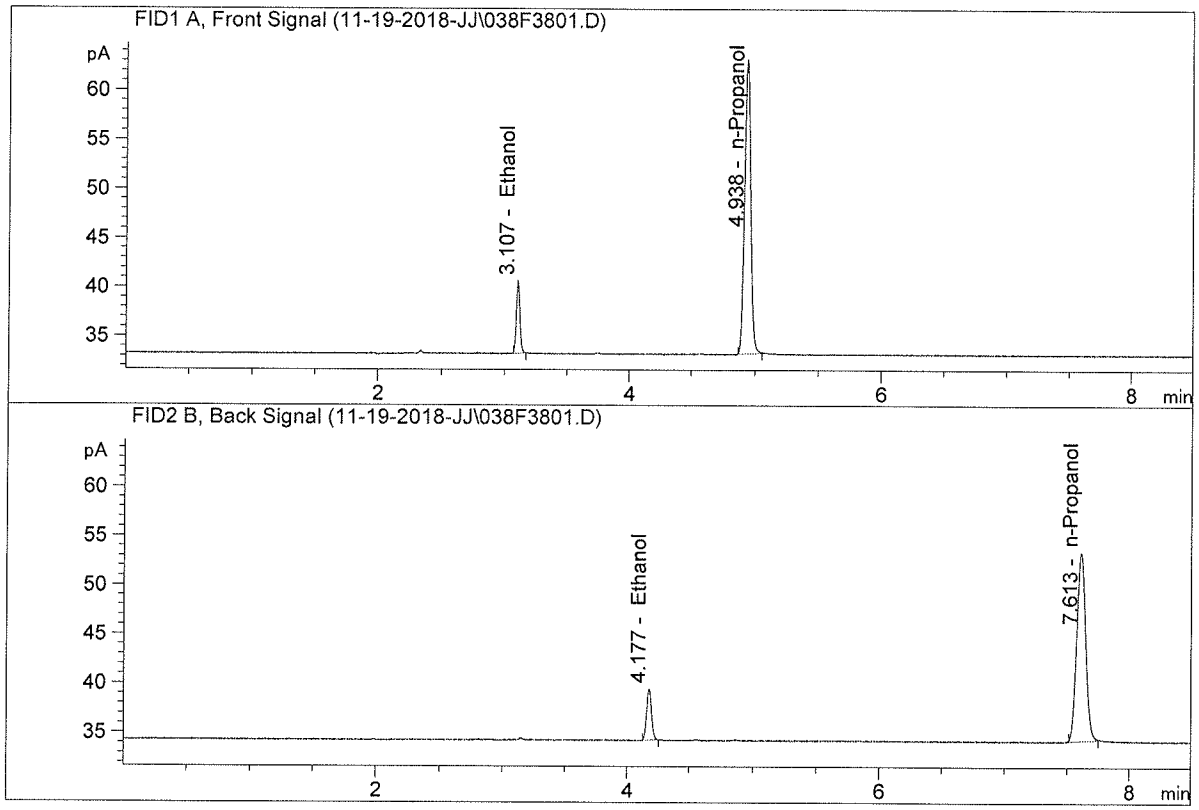
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	**0.074**	**0.082**	**0.004**

	Reported Result	
	0.078	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

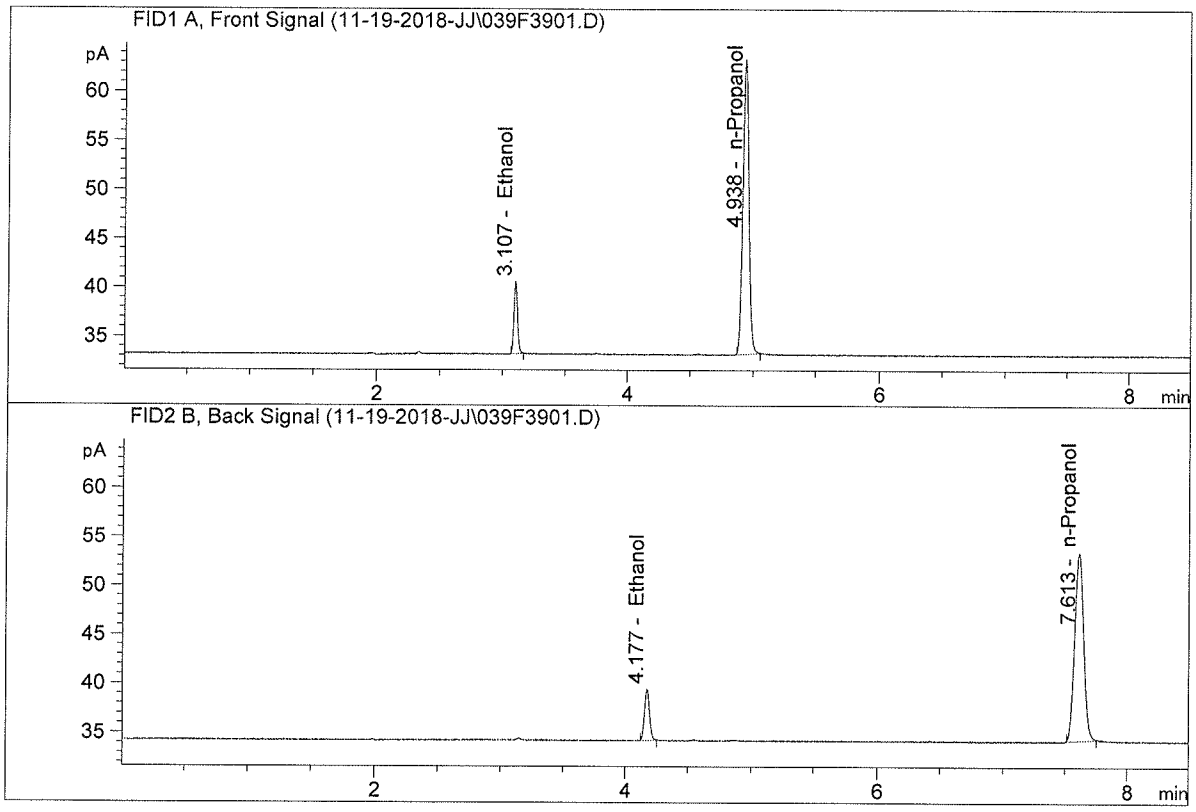
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.62992	0.0796	g/100cc
2.	Ethanol	Column 2:	14.42080	0.0789	g/100cc
3.	n-Propanol	Column 1:	98.58360	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.29472	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

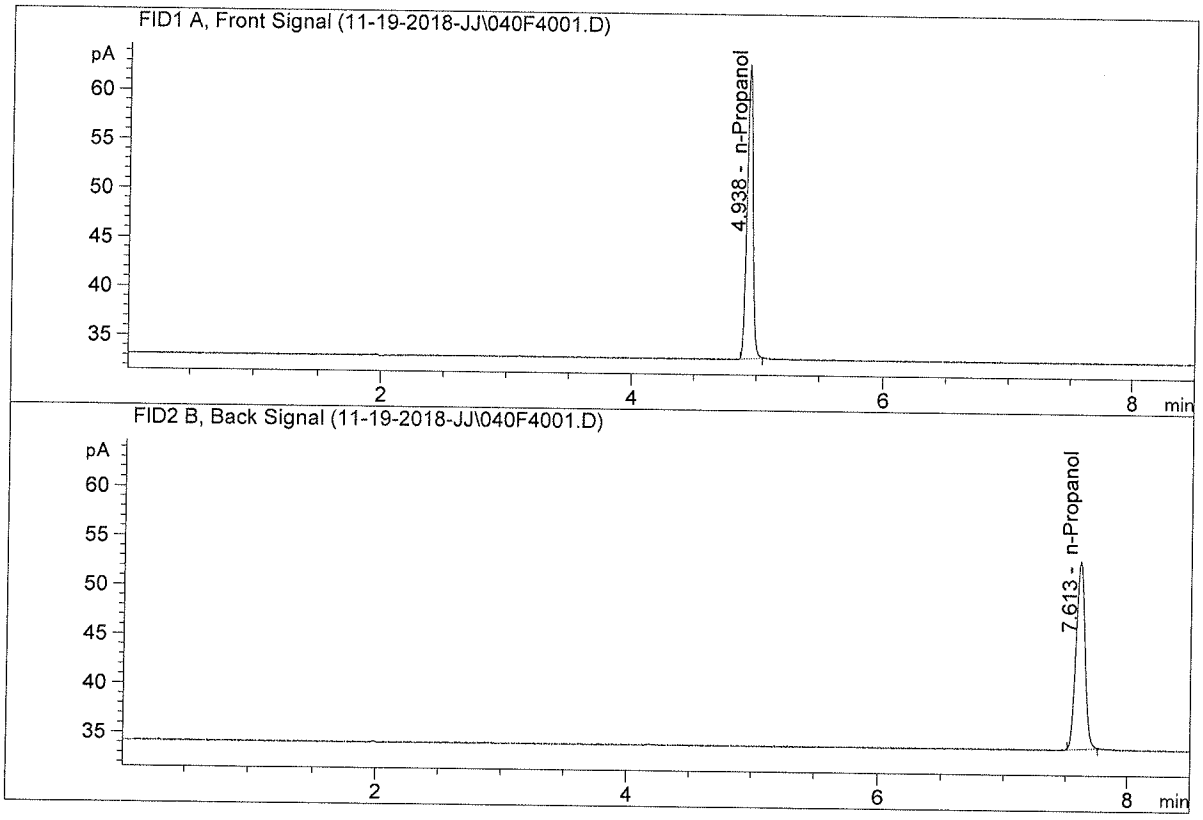
Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.57323	0.0790	g/100cc
2.	Ethanol	Column 2:	14.37392	0.0783	g/100cc
3.	n-Propanol	Column 1:	99.02860	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.64127	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

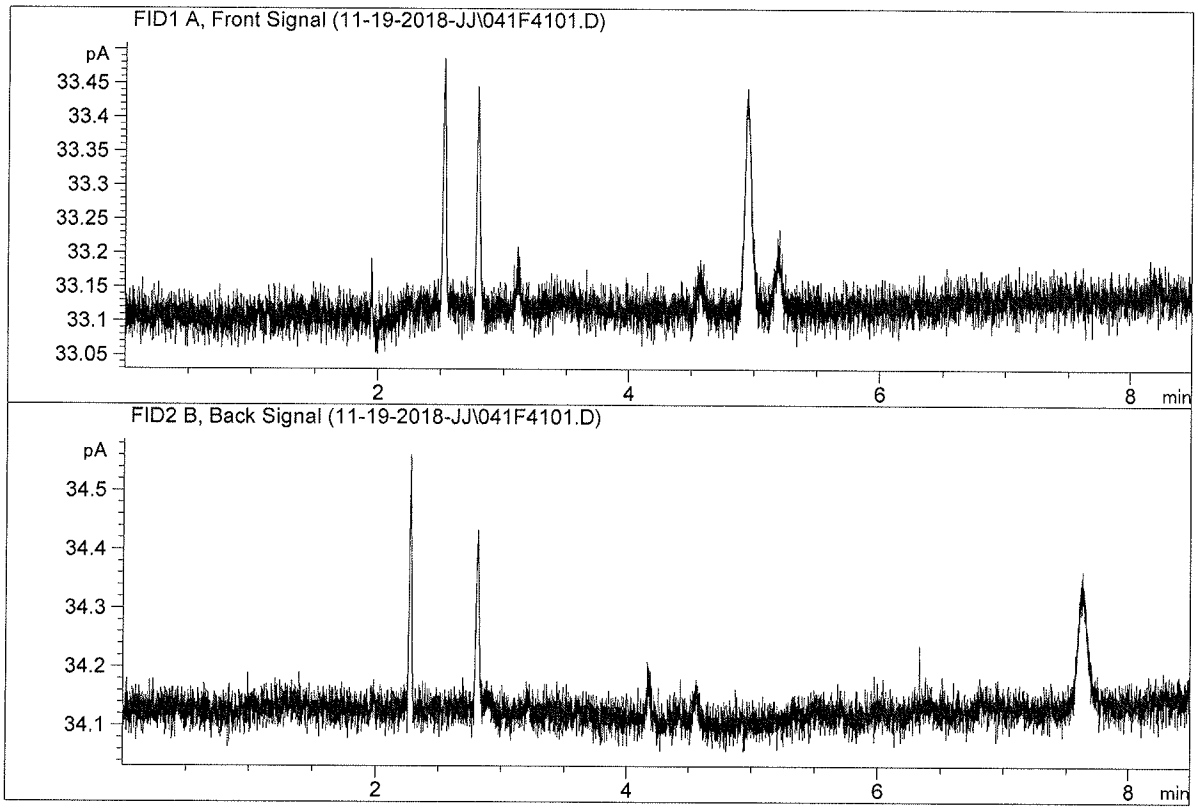
Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	98.48891	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.67902	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Nov 19, 2018
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc