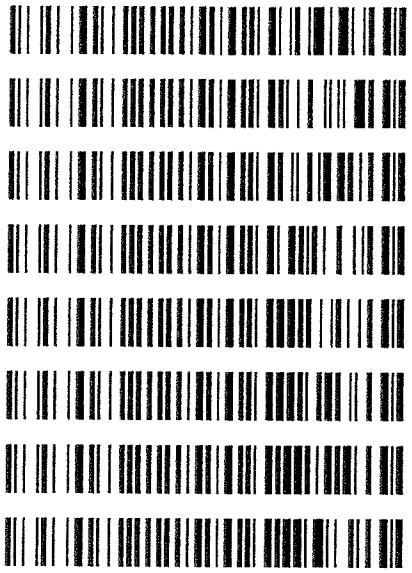
REVIEWED
By Rachel Cutler at 4:28 pm, Aug 14, 2019

8/12/2019

Worklist: 3608

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2019-1463	1	158176	Alcohol Analysis
C2019-1485	1	158836	Alcohol Analysis
C2019-1489	1	158865	Alcohol Analysis
C2019-1521	1	159337	Alcohol Analysis
C2019-1531	1	159377	Alcohol Analysis
C2019-1532	1	159382	Alcohol Analysis
C2019-1556	1	159703	Alcohol Analysis
C2019-1557	1	159850	Alcohol Analysis



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8/13/2019

Worklist: 3609

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2019-1512	1	159209	Alcohol Analysis

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Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

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

Volatiles Quality Assurance Controls **Run Date(s): 8/12/19**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0793 g/100cc
					0.0799 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1999 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	Sep-20	Lot #	FN06041502	OK
Curve Fit:	Column 1	1.00000	Column2	0.99999

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0501	0.0505	0.0004	0.0503
100	0.100	0.090 - 0.110	0.0993	0.0991	0.0002	0.0992
200	0.200	0.180 - 0.220	0.2000	0.1995	0.0005	0.1997
300	0.300	0.270 - 0.330	0.3002	0.3006	0.0004	0.3004
500	0.500	0.450 - 0.550			0.0000	#DIV/0!

Aqueous Controls

Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.081 g/100cc

Revision: 1
Issue Date: 01/03/2019
Issuing Authority: Quality Manager

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_12.08.2019_02.34.44\8-12-2019.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_12.08.2019_02.34.44\8-12-2019.S
Data directory path: C:\Chem32\1\Data\8-12-2019-JJ
Logbook: C:\Chem32\1\Data\8-12-2019-JJ\8-12-2019.LOG
Sequence start: 8/12/2019 2:48:28 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	19803-180-A	-	1.0000	008F0801.D	4
9	9	1	19803-180-B	-	1.0000	009F0901.D	4
10	10	1	19803-022-A	-	1.0000	010F1001.D	4
11	11	1	19803-022-B	-	1.0000	011F1101.D	4
12	12	1	C2019-1463-1-A	-	1.0000	012F1201.D	4
13	13	1	C2019-1463-1-B	-	1.0000	013F1301.D	4
14	14	1	C2019-1485-1-A	-	1.0000	014F1401.D	2
15	15	1	C2019-1485-1-B	-	1.0000	015F1501.D	2
16	16	1	C2019-1489-1-A	-	1.0000	016F1601.D	4
17	17	1	C2019-1489-1-B	-	1.0000	017F1701.D	4
18	18	1	C2019-1512-1-A	-	1.0000	018F1801.D	2
19	19	1	C2019-1512-1-B	-	1.0000	019F1901.D	2
20	20	1	C2019-1521-1-A	-	1.0000	020F2001.D	4
21	21	1	C2019-1521-1-B	-	1.0000	021F2101.D	4
22	22	1	C2019-1531-1-A	-	1.0000	022F2201.D	2
23	23	1	C2019-1531-1-B	-	1.0000	023F2301.D	2
24	24	1	C2019-1532-1-A	-	1.0000	024F2401.D	4
25	25	1	C2019-1532-1-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	C2019-1556-1-A	-	1.0000	028F2801.D	2
29	29	1	C2019-1556-1-B	-	1.0000	029F2901.D	2
30	30	1	C2019-1557-1-A	-	1.0000	030F3001.D	4
31	31	1	C2019-1557-1-B	-	1.0000	031F3101.D	4
32	32	1	QC-1-A	-	1.0000	032F3201.D	4
33	33	1	QC-1-B	-	1.0000	033F3301.D	4
34	34	1	ISTD BLANK	-	1.0000	034F3401.D	2
35	35	1	water	-	1.0000	035F3501.D	0

0.500 calibrator was found to be expired after running the sequence and processing the data. Calibration curve was reprocessed after the removal of the expired calibrator and all of the data was reprocessed. None of the reported results changed in value. The data was reprocessed on 8/13/2019.

Jeremy Foshee

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Calibration Table

General Calibration Setting

Calib. Data Modified : Tuesday, August 13, 2019 1:31:41 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

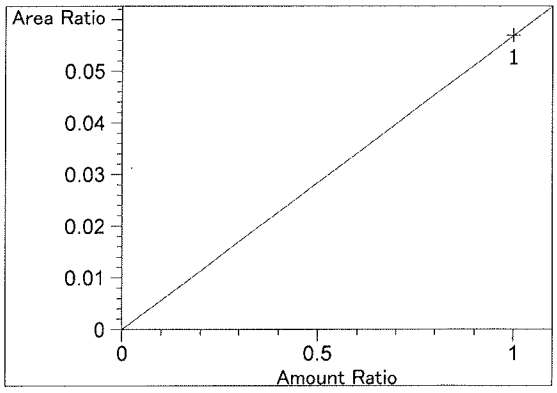
Overview Table

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
3.109	1	1	5.00000e-2	8.90005	5.61794e-3	No	No	1	Ethanol
		2	1.00000e-1	17.97227	5.56413e-3				
		3	2.00000e-1	35.37431	5.65382e-3				
		4	3.00000e-1	54.59329	5.49518e-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
4.181	2	1	5.00000e-2	9.07075	5.51223e-3	No	No	2	Ethanol
		2	1.00000e-1	18.25399	5.47825e-3				
		3	2.00000e-1	35.69363	5.60324e-3				
		4	3.00000e-1	54.75084	5.47937e-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
4.944	1	1	1.00000	87.61784	1.14132e-2	No	Yes	1	n-Propanol
		2	1.00000	89.28069	1.12006e-2				
		3	1.00000	87.26619	1.14592e-2				
		4	1.00000	89.72559	1.11451e-2				
		5	1.00000	90.23061	1.10827e-2				
7.624	2	1	1.00000	87.80907	1.13883e-2	No	Yes	2	n-Propanol
		2	1.00000	90.06332	1.11033e-2				
		3	1.00000	87.50938	1.14273e-2				
		4	1.00000	89.09099	1.12245e-2				
		5	1.00000	89.18039	1.12132e-2				

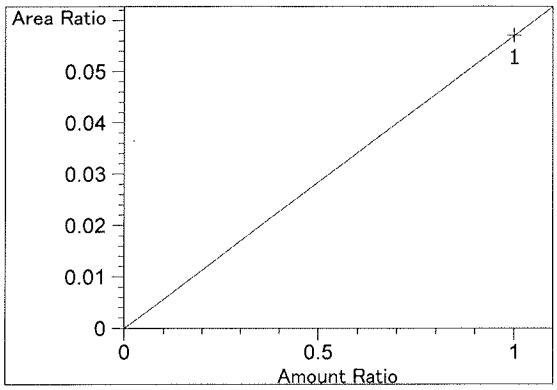
Peak Sum Table

No Entries in table

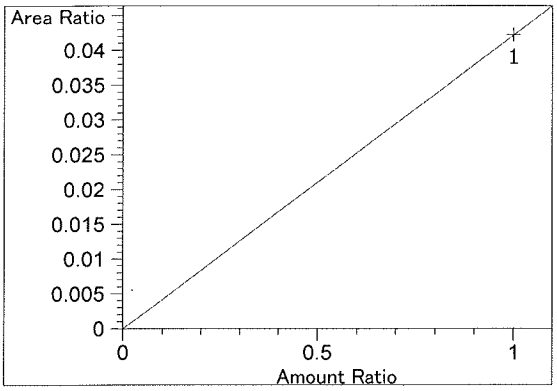
Calibration Curves



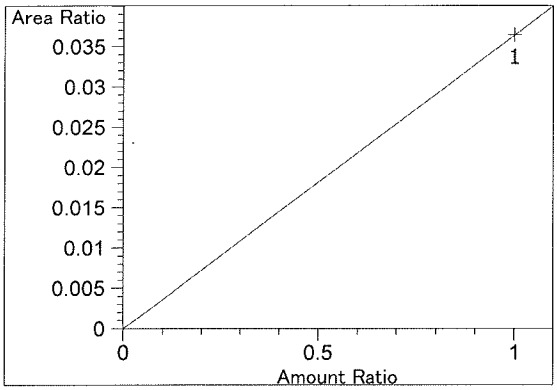
Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.69417e-2
x: Amount Ratio
y: Area Ratio



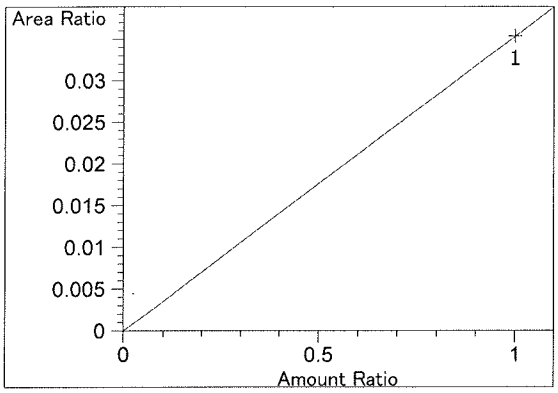
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.70660e-2
x: Amount Ratio
y: Area Ratio



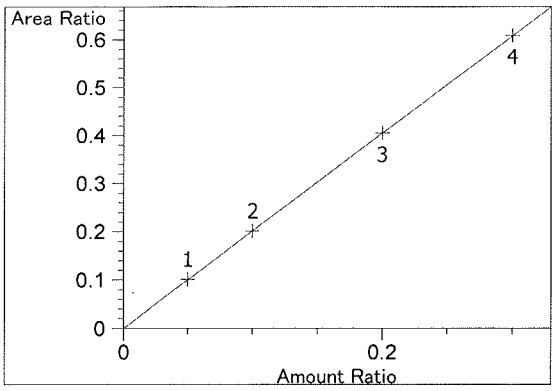
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.21911e-2
x: Amount Ratio
y: Area Ratio



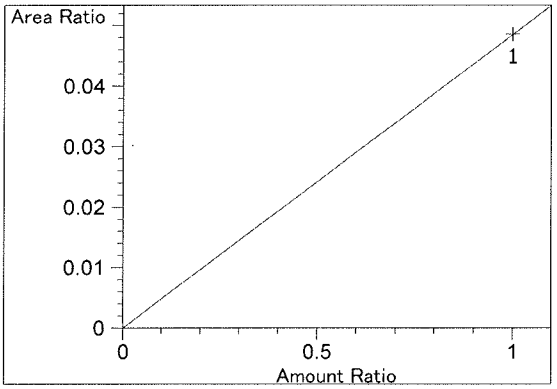
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.64436e-2
x: Amount Ratio
y: Area Ratio



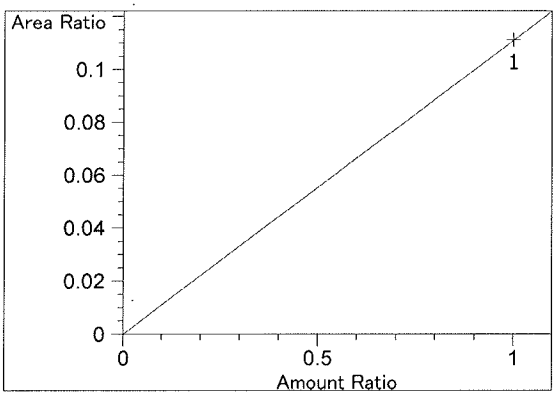
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.53694e-2
x: Amount Ratio
y: Area Ratio



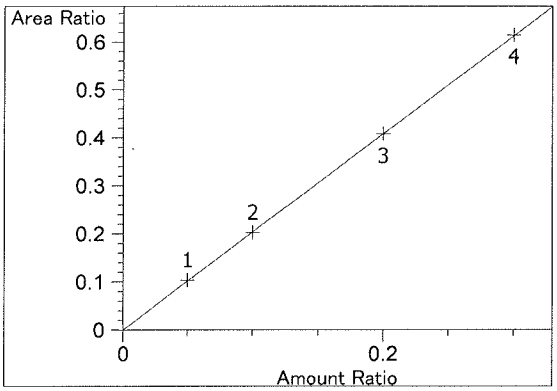
Ethanol at exp. RT: 3.109
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00084
Formula: y = mx
m: 2.02677
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.85215e-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: 1.11057e-1
x: Amount Ratio
y: Area Ratio



Ethanol at exp. RT: 4.181
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00150
Formula: y = mx
m: 2.04473
x: Amount Ratio
y: Area Ratio

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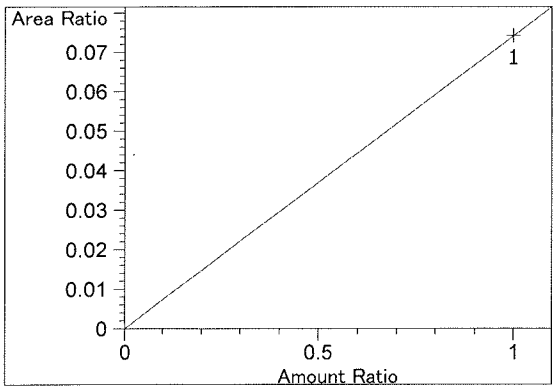
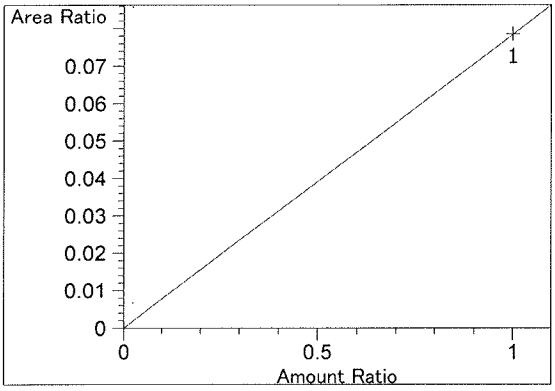
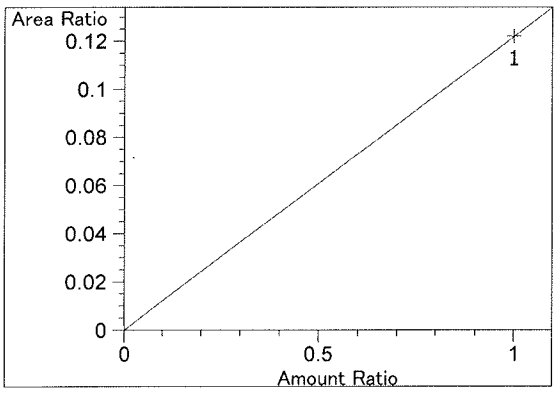


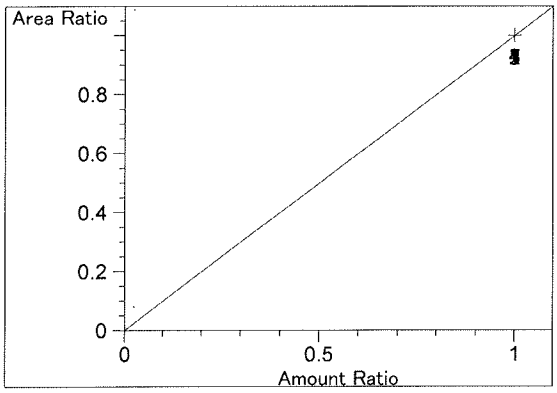
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.41790e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.85000e-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: 1.21928e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.944
FID1 A, Front 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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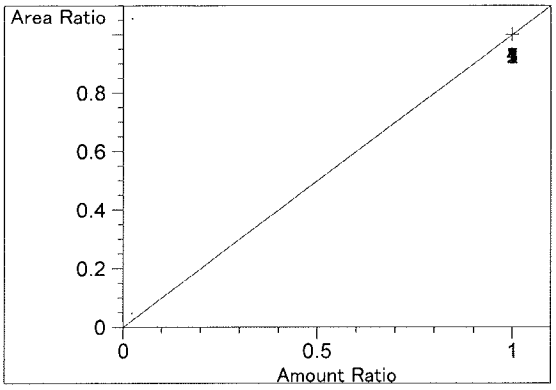

n-Propanol at exp. RT: 7.624
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_12.08.2019_12.46.31\8-12-19cal.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_12.08.2019_12.46.31\8-12-19cal.S
Data directory path: C:\Chem32\1\Data\8-12-19calJJ
Logbook: C:\Chem32\1\Data\8-12-19calJJ\8-12-19cal.LOG
Sequence start: 8/12/2019 1:00:14 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

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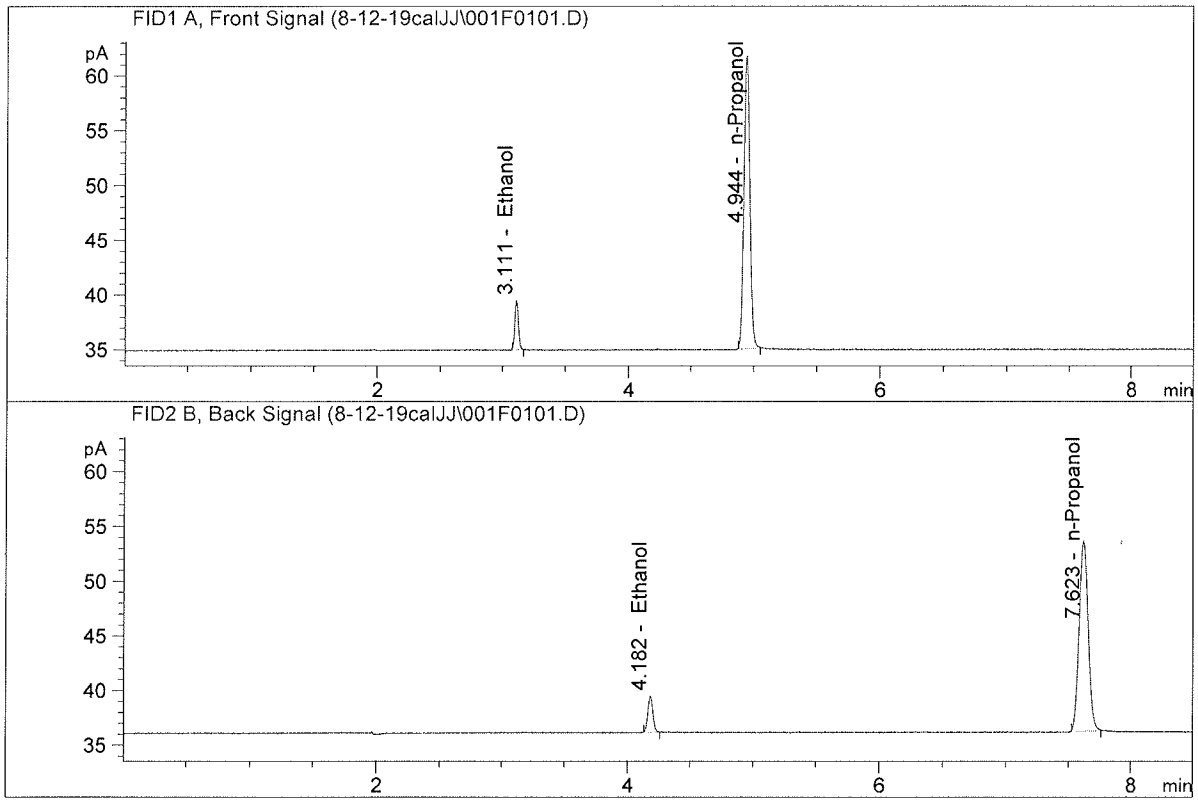
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.90005	0.0501	g/100cc
2.	Ethanol	Column 2:	9.07075	0.0505	g/100cc
3.	n-Propanol	Column 1:	87.61784	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.80907	1.0000	g/100cc

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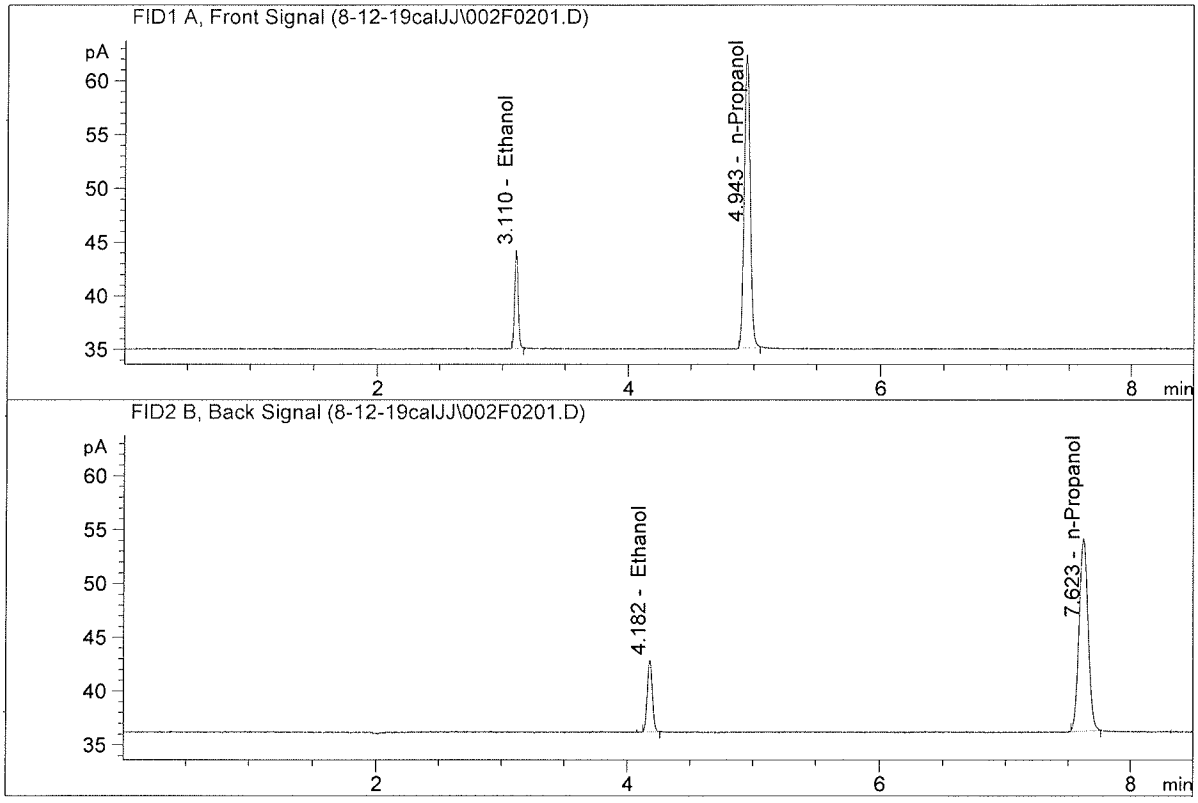
ISP Forensic Services Blood Alcohol Report

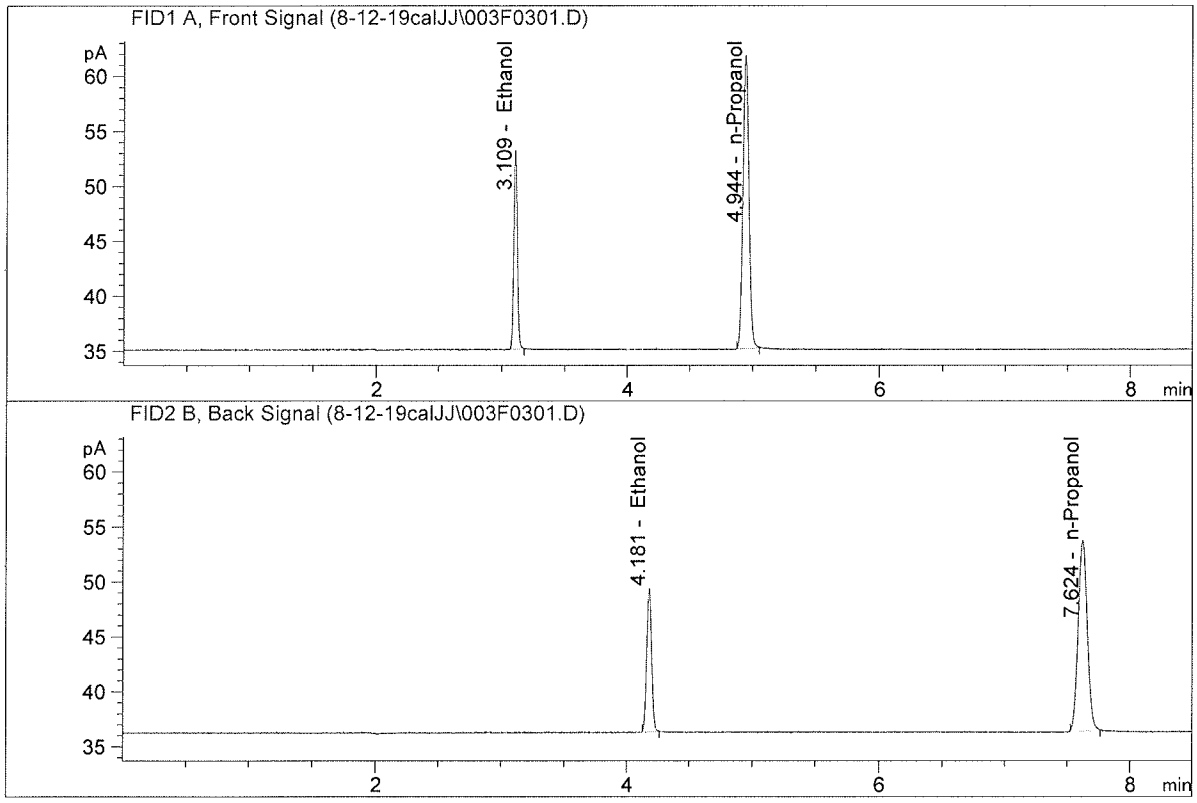
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.97227	0.0993	g/100cc
2.	Ethanol	Column 2:	18.25399	0.0991	g/100cc
3.	n-Propanol	Column 1:	89.28069	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.06332	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

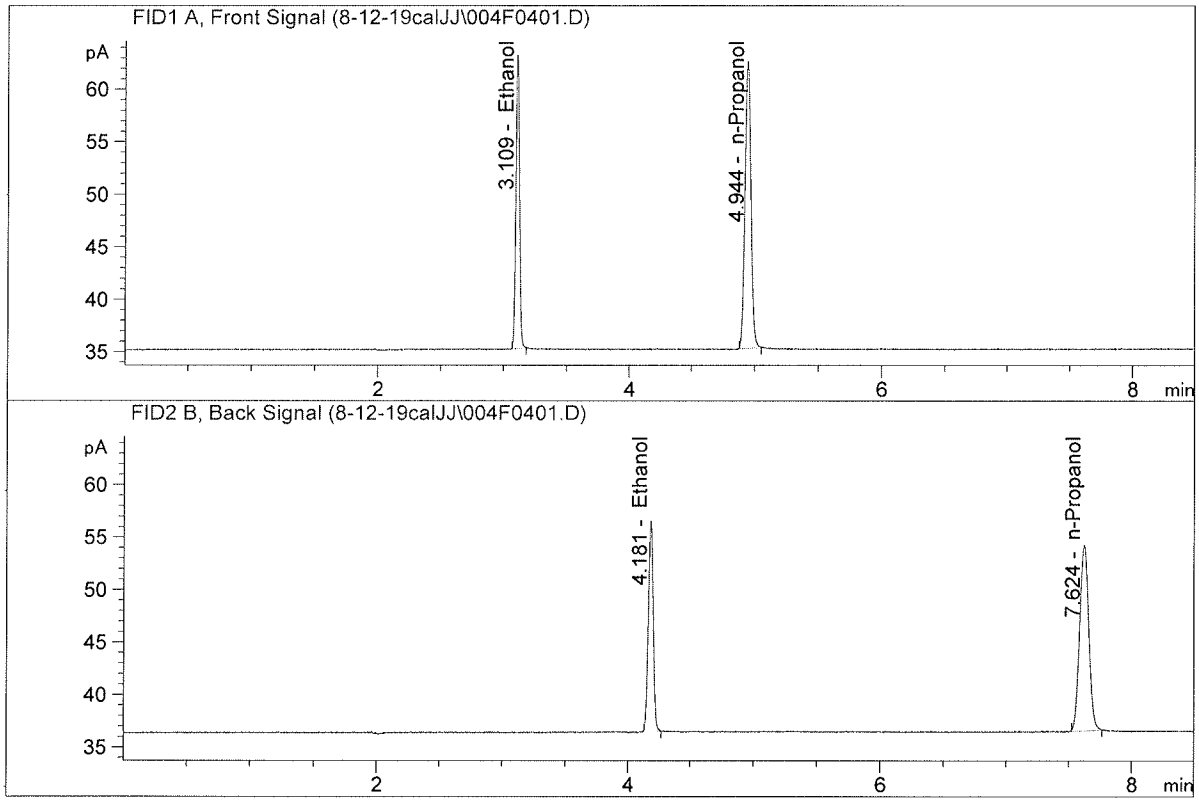
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.37431	0.2000	g/100cc
2.	Ethanol	Column 2:	35.69363	0.1995	g/100cc
3.	n-Propanol	Column 1:	87.26619	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.50938	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

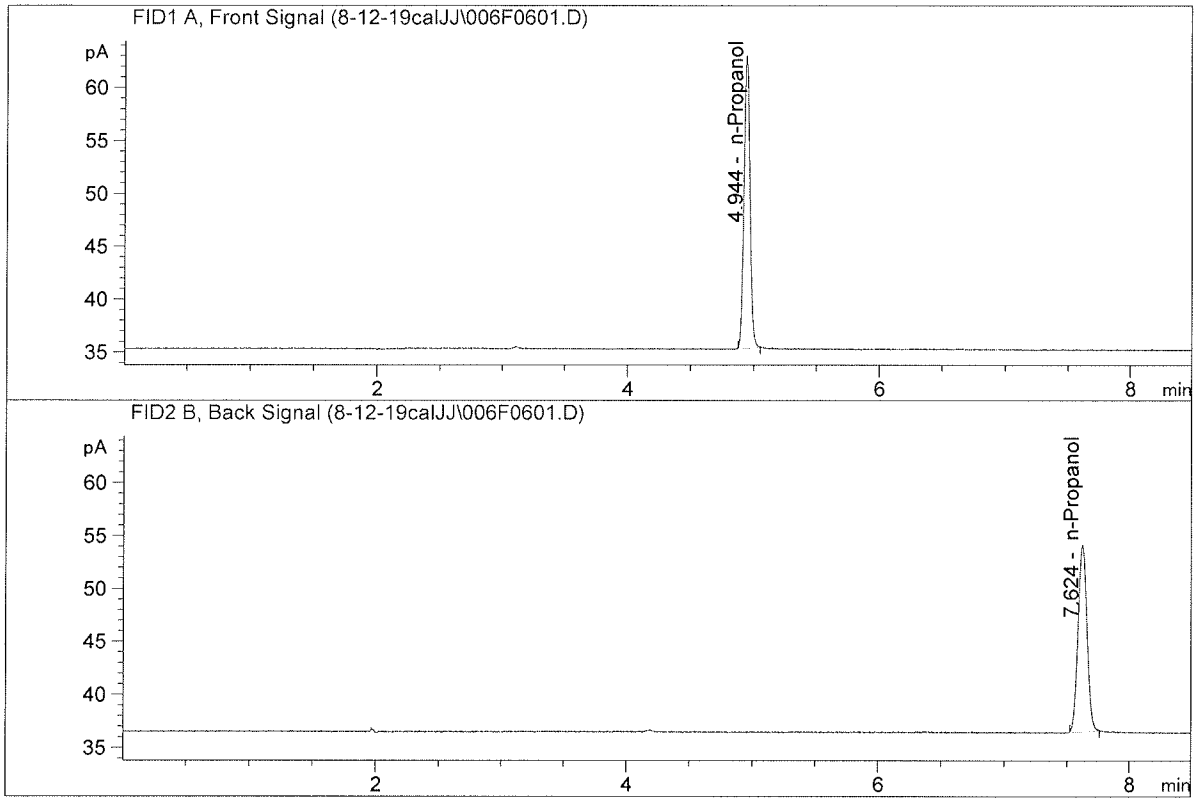
Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	54.59329	0.3002	g/100cc
2.	Ethanol	Column 2:	54.75084	0.3006	g/100cc
3.	n-Propanol	Column 1:	89.72559	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.09099	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

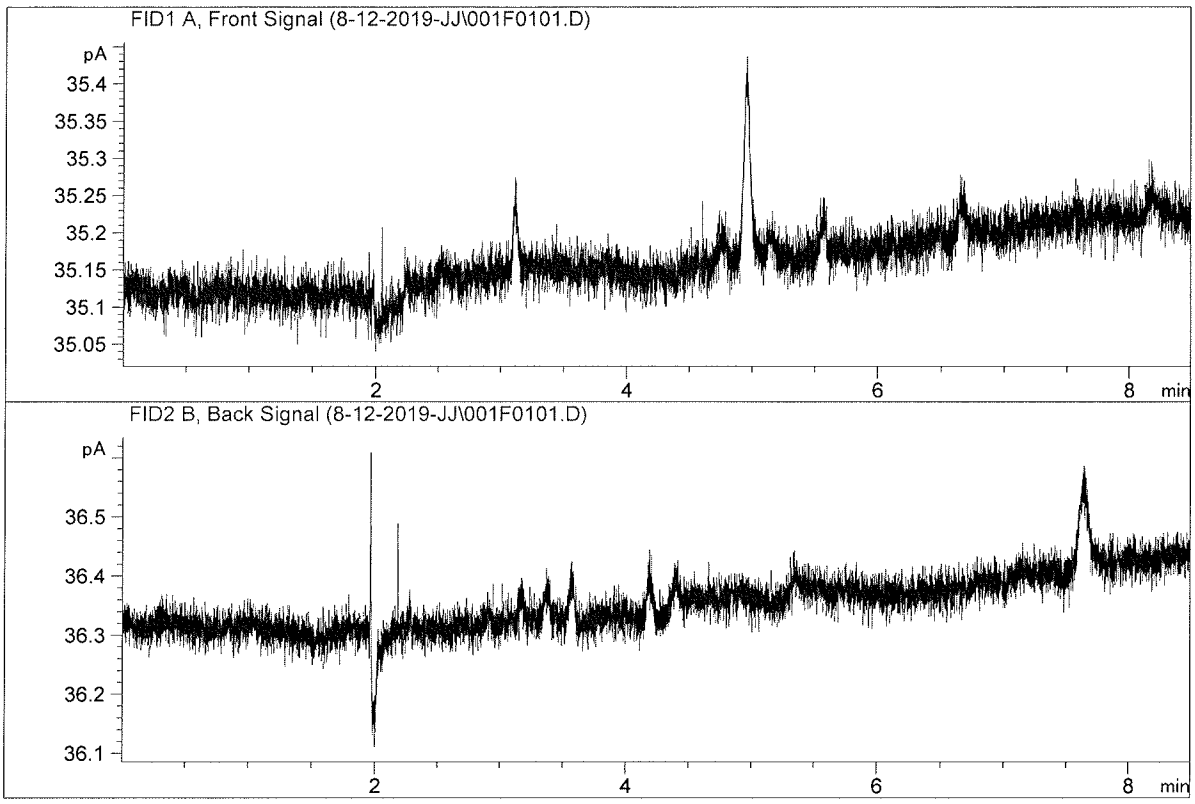
Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	90.61393	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.14573	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

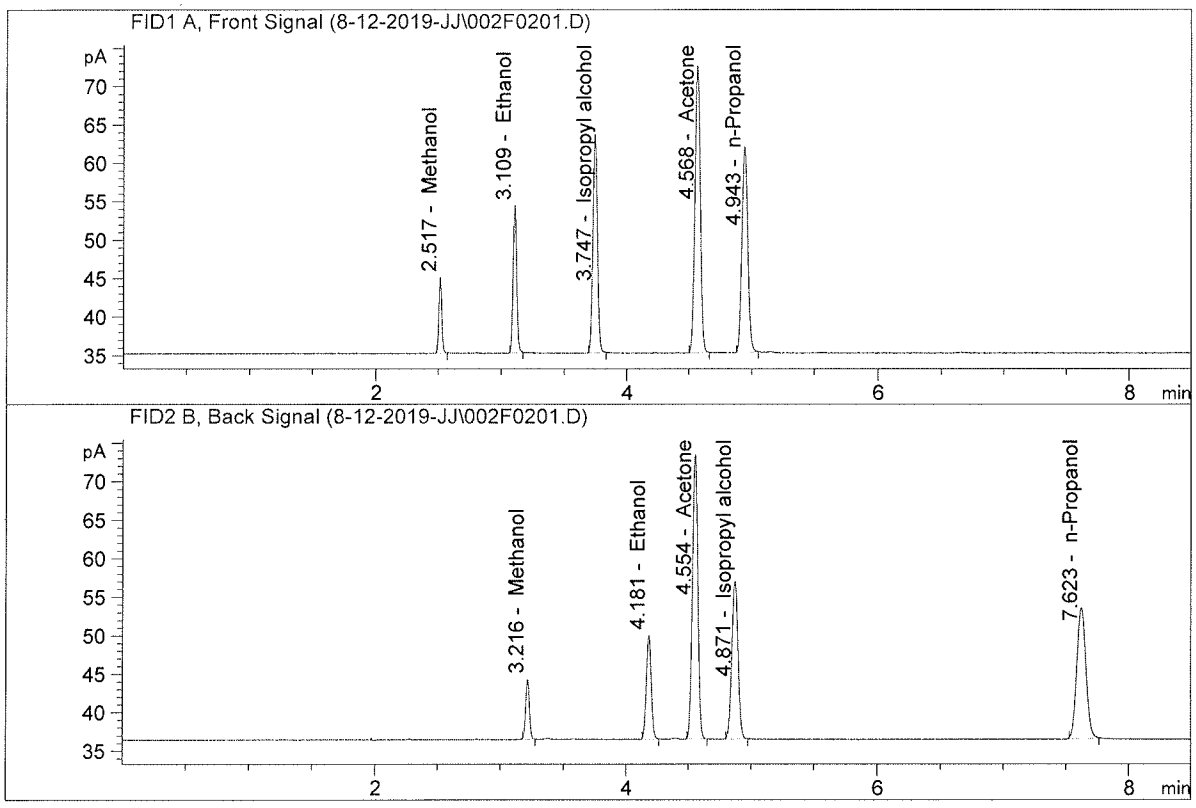
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

ISP Forensic Services Blood Alcohol Report

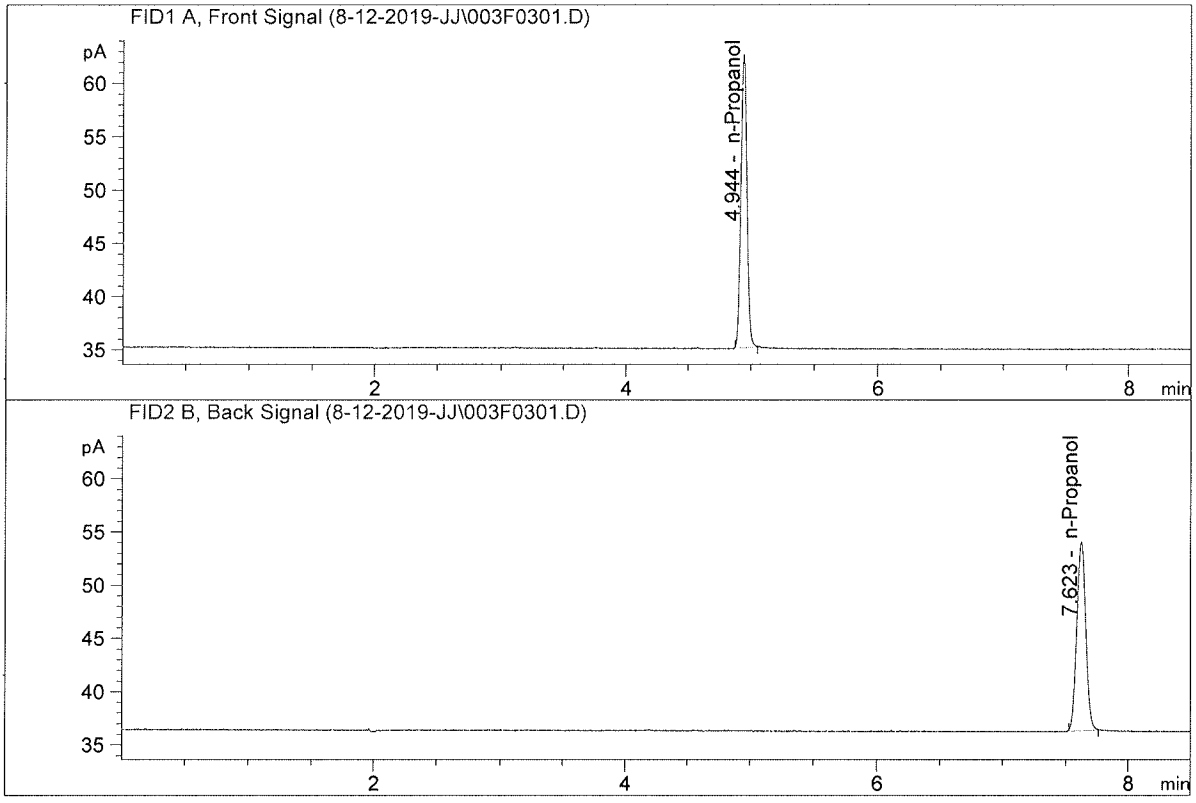
Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	37.41499	0.2113	g/100cc
2.	Ethanol	Column 2:	37.00815	0.2110	g/100cc
3.	n-Propanol	Column 1:	87.36483	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.77782	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
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:	90.23061	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.18039	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1-A **Analysis Date(s): 12 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0794	0.0791	0.0003	0.0792	0.0793	
(g/100cc)	0.0794	0.0795	0.0001	0.0794		

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%**

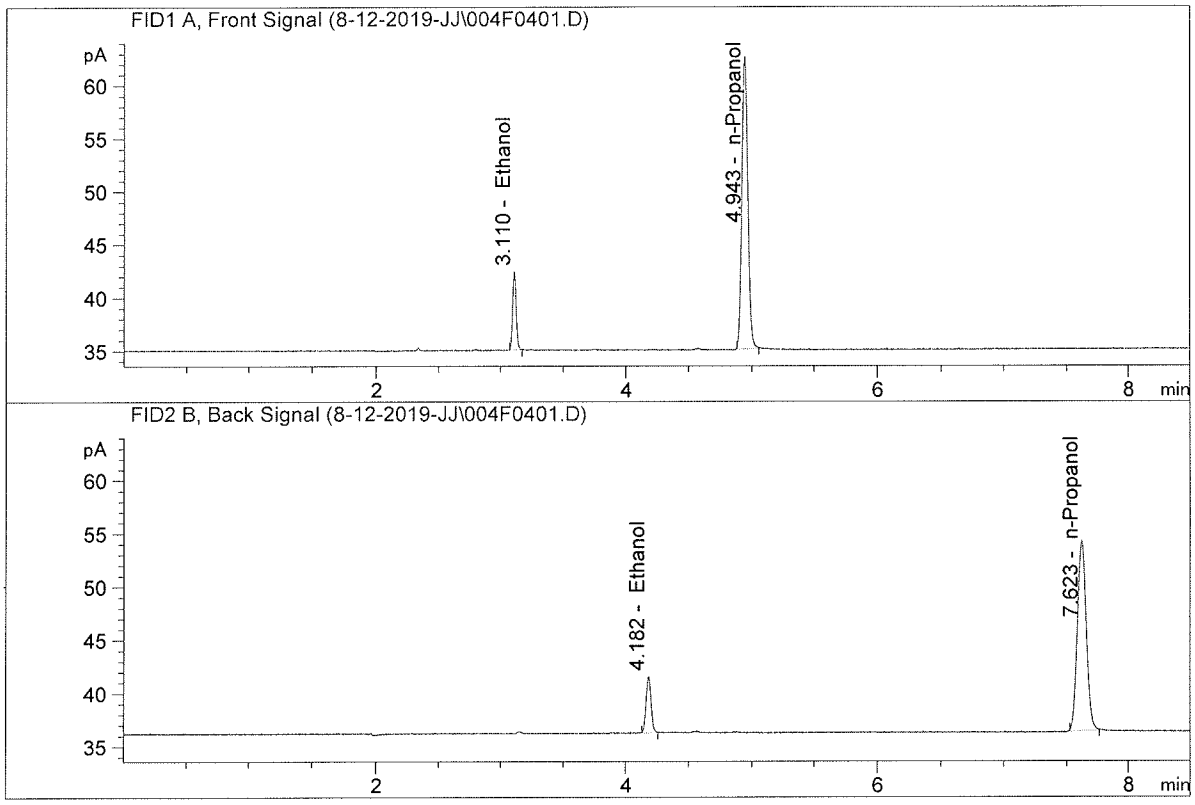
Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	**0.075**	**0.083**	**0.004**

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

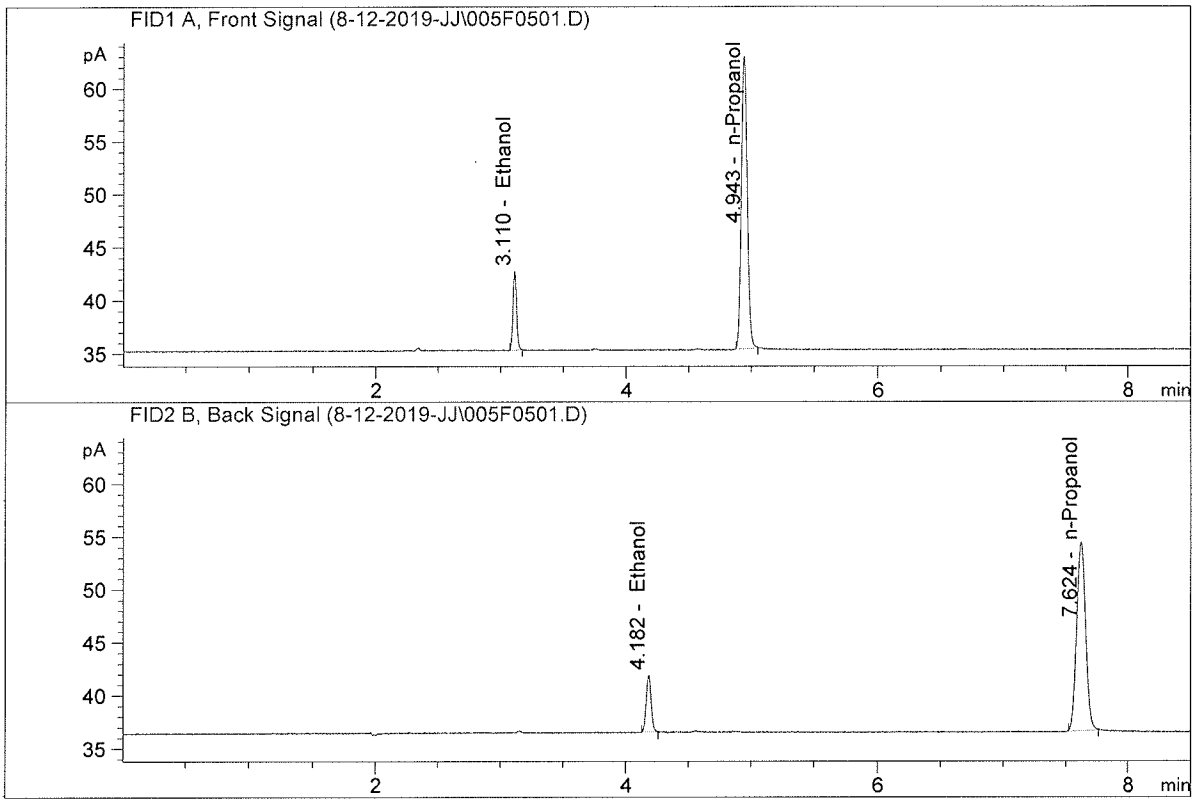
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.55525	0.0794	g/100cc
2.	Ethanol	Column 2:	14.49028	0.0791	g/100cc
3.	n-Propanol	Column 1:	90.46012	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.61170	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.58807	0.0794	g/100cc
2.	Ethanol	Column 2:	14.60417	0.0795	g/100cc
3.	n-Propanol	Column 1:	90.62993	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.82311	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701-B **Analysis Date(s): 12 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0810	0.0810	0.0000	0.0810	0.0810	
(g/100cc)	0.0810	0.0810	0.0000	0.0810		

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%**

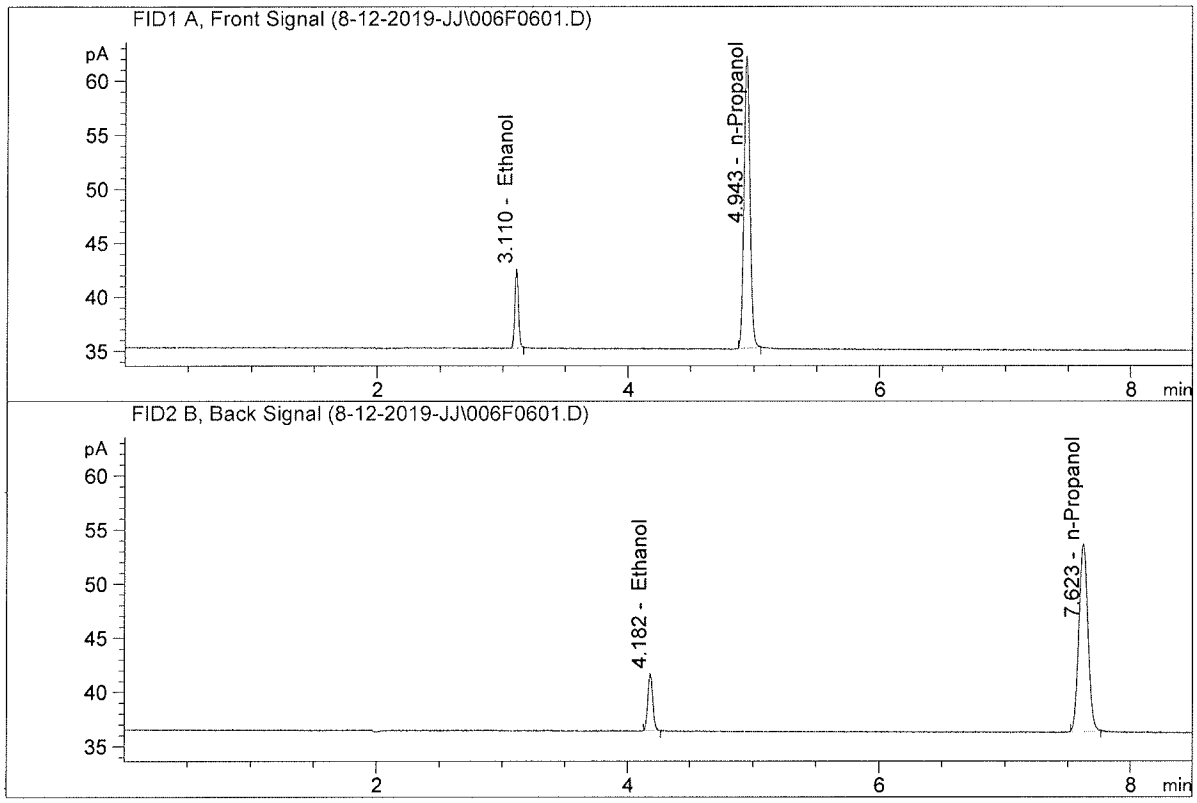
Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	**0.076**	**0.086**	**0.005**

	Reported Result	
	0.081	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

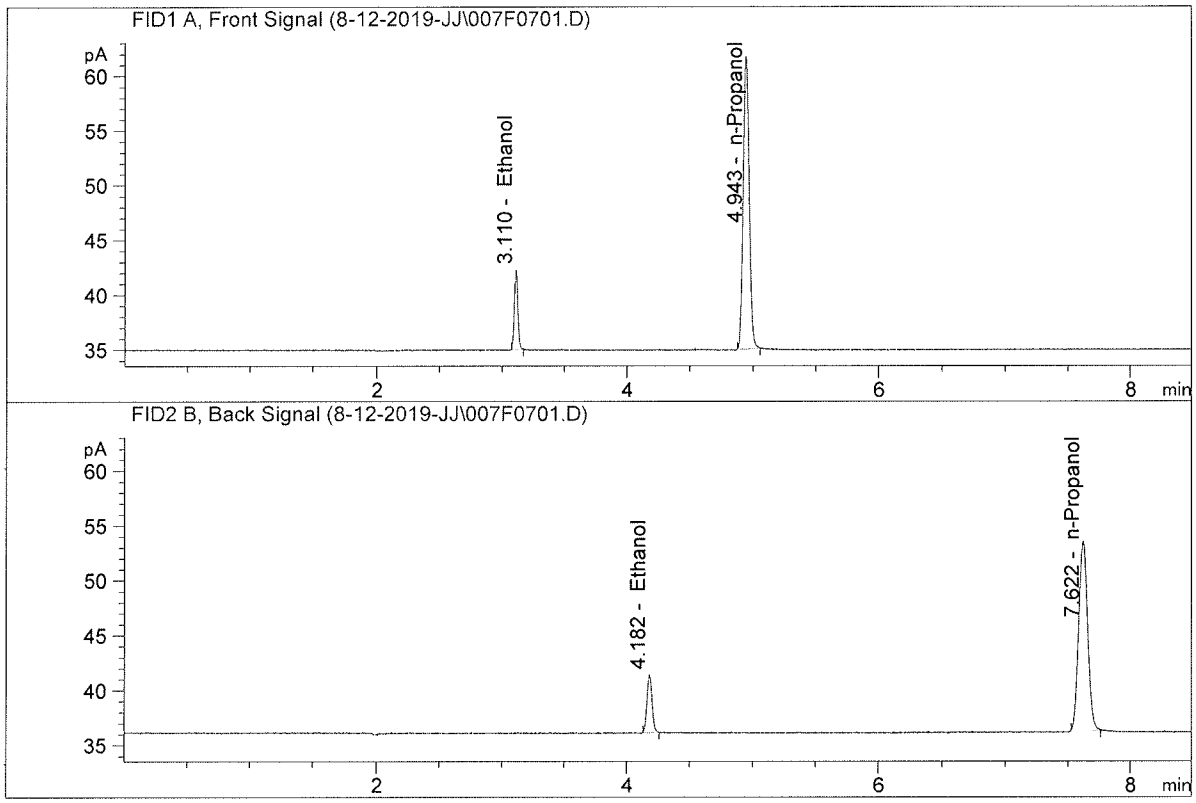
Sample Name : 0.08 FN04171701-A
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.39749	0.0802	g/100cc
2.	Ethanol	Column 2:	14.43176	0.0806	g/100cc
3.	n-Propanol	Column 1:	88.58889	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.53783	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.42969	0.0810	g/100cc
2.	Ethanol	Column 2:	14.42987	0.0810	g/100cc
3.	n-Propanol	Column 1:	87.91169	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.12988	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2-A **Analysis Date(s): 12 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2000	0.2014	0.0014	0.2007	0.1999	
(g/100cc)	0.1984	0.1999	0.0015	0.1991		

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%**

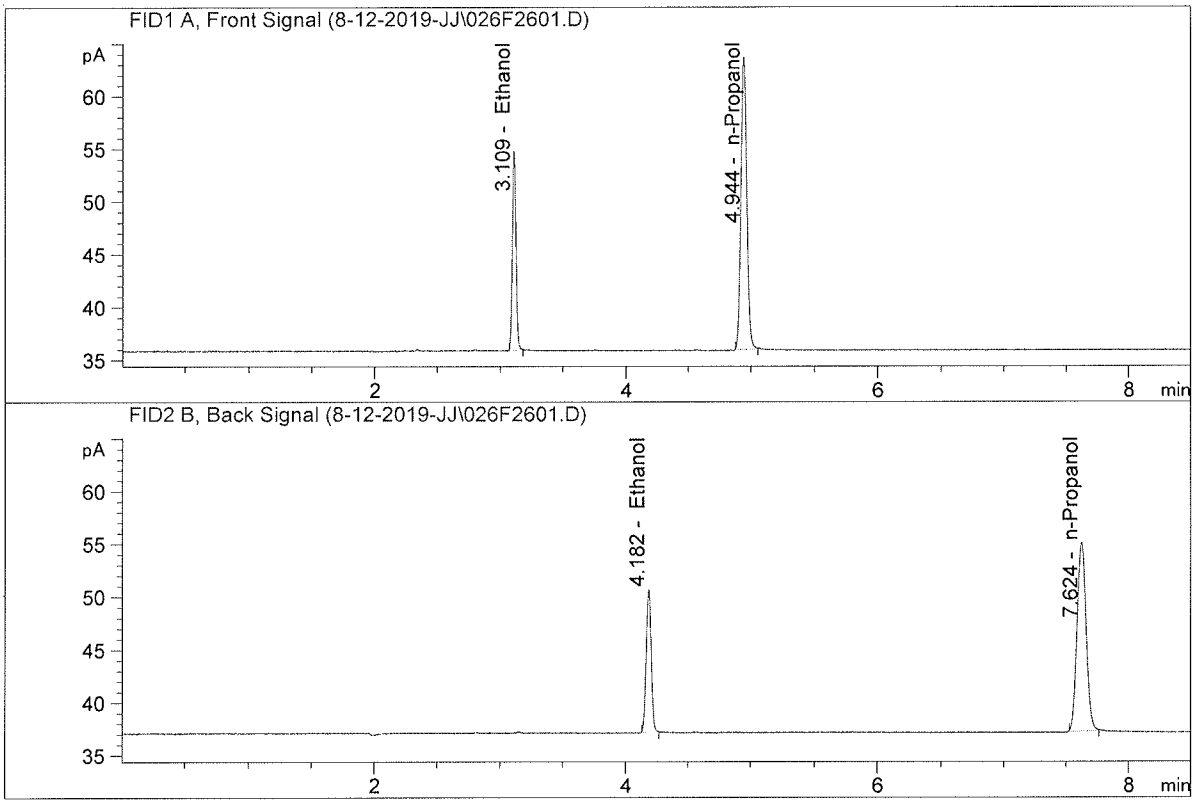
Overall Mean (g/100cc)	Low	High	5% of Mean
0.199	**0.189**	**0.209**	**0.010**

	Reported Result	
	0.199	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

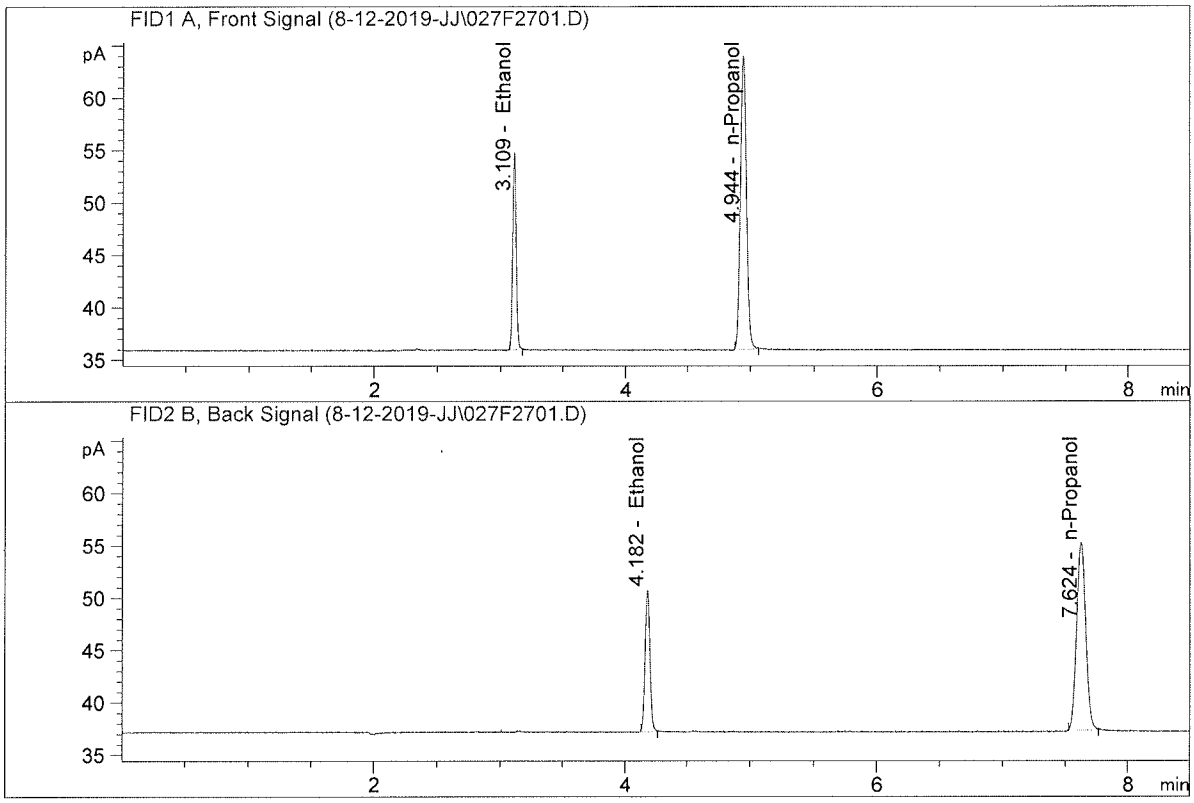
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.84611	0.2000	g/100cc
2.	Ethanol	Column 2:	37.06873	0.2014	g/100cc
3.	n-Propanol	Column 1:	90.88922	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.03351	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	36.87164	0.1984	g/100cc
2.	Ethanol	Column 2:	37.03089	0.1999	g/100cc
3.	n-Propanol	Column 1:	91.68819	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.59061	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1-A **Analysis Date(s): 12 Aug 2019**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0798	0.0804	0.0006	0.0801	0.0799	
(g/100cc)	0.0795	0.0802	0.0007	0.0798		

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%**

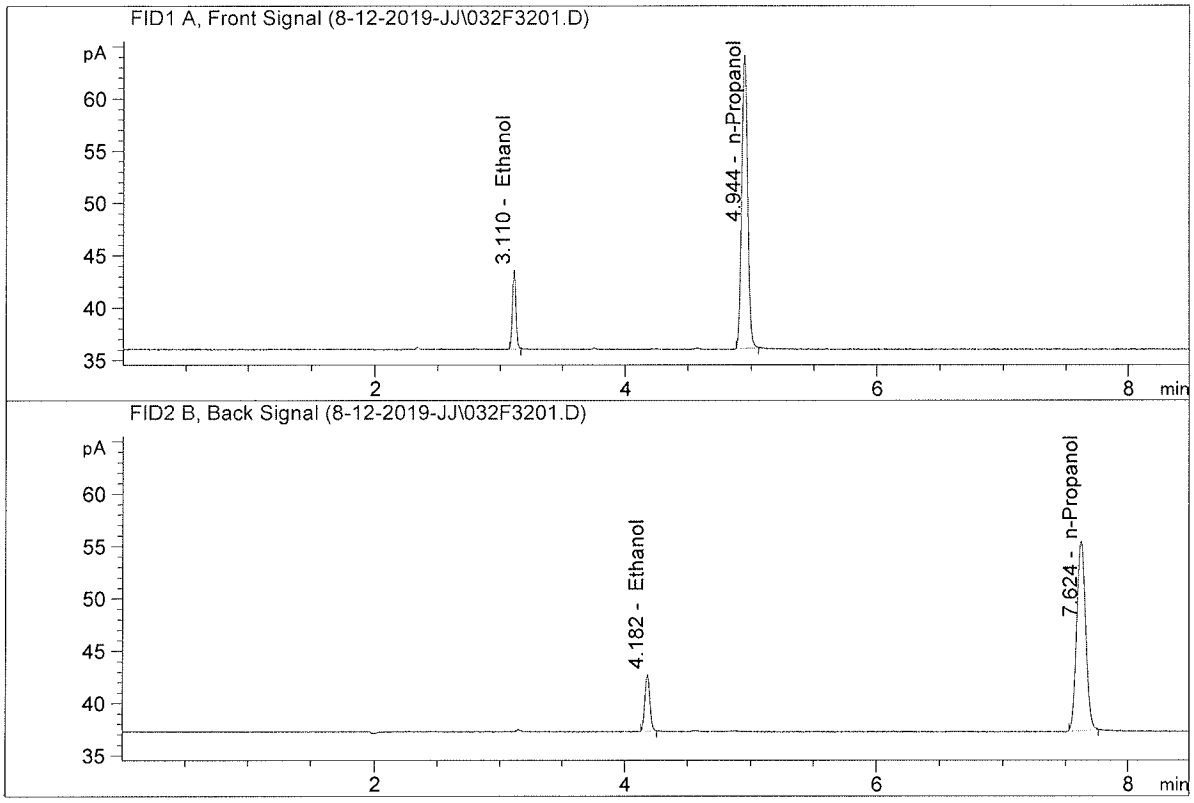
Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	**0.075**	**0.083**	**0.004**

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

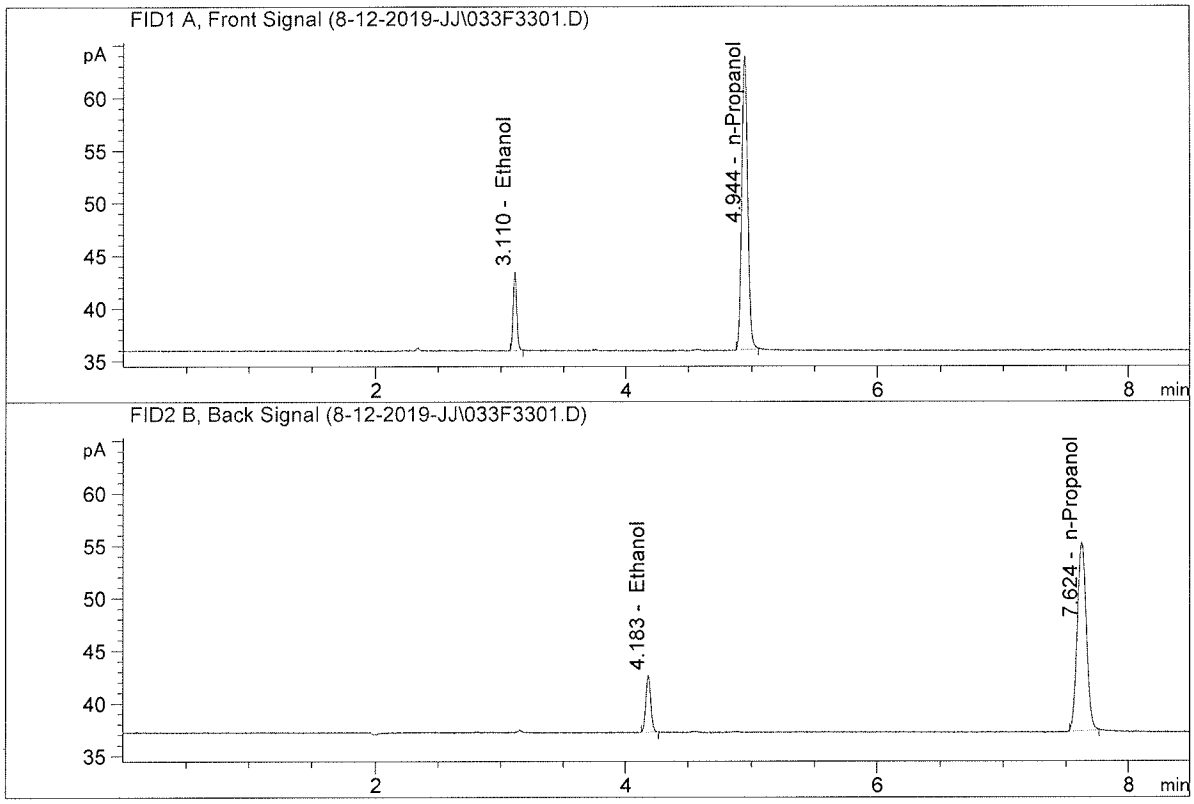
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.89281	0.0798	g/100cc
2.	Ethanol	Column 2:	14.97219	0.0804	g/100cc
3.	n-Propanol	Column 1:	92.07324	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.03889	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.72321	0.0795	g/100cc
2.	Ethanol	Column 2:	14.81103	0.0802	g/100cc
3.	n-Propanol	Column 1:	91.33966	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.36684	1.0000	g/100cc

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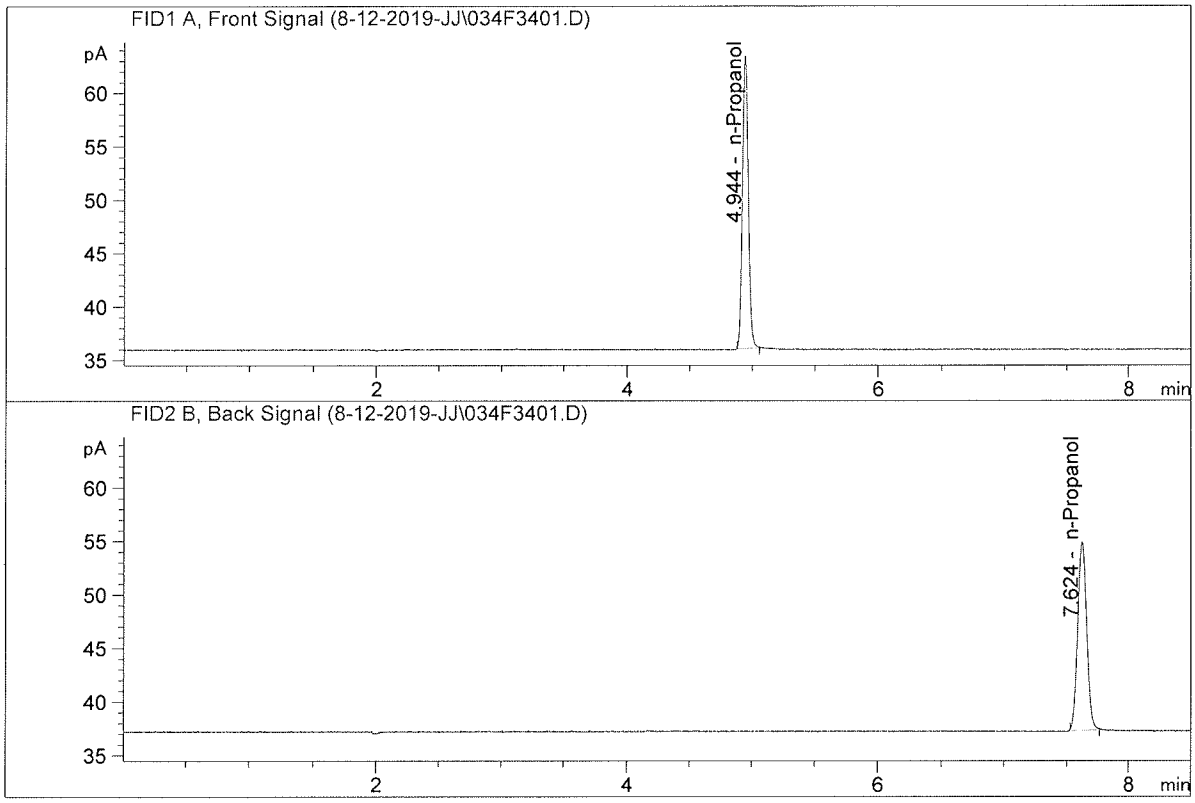
ISP Forensic Services Blood Alcohol Report

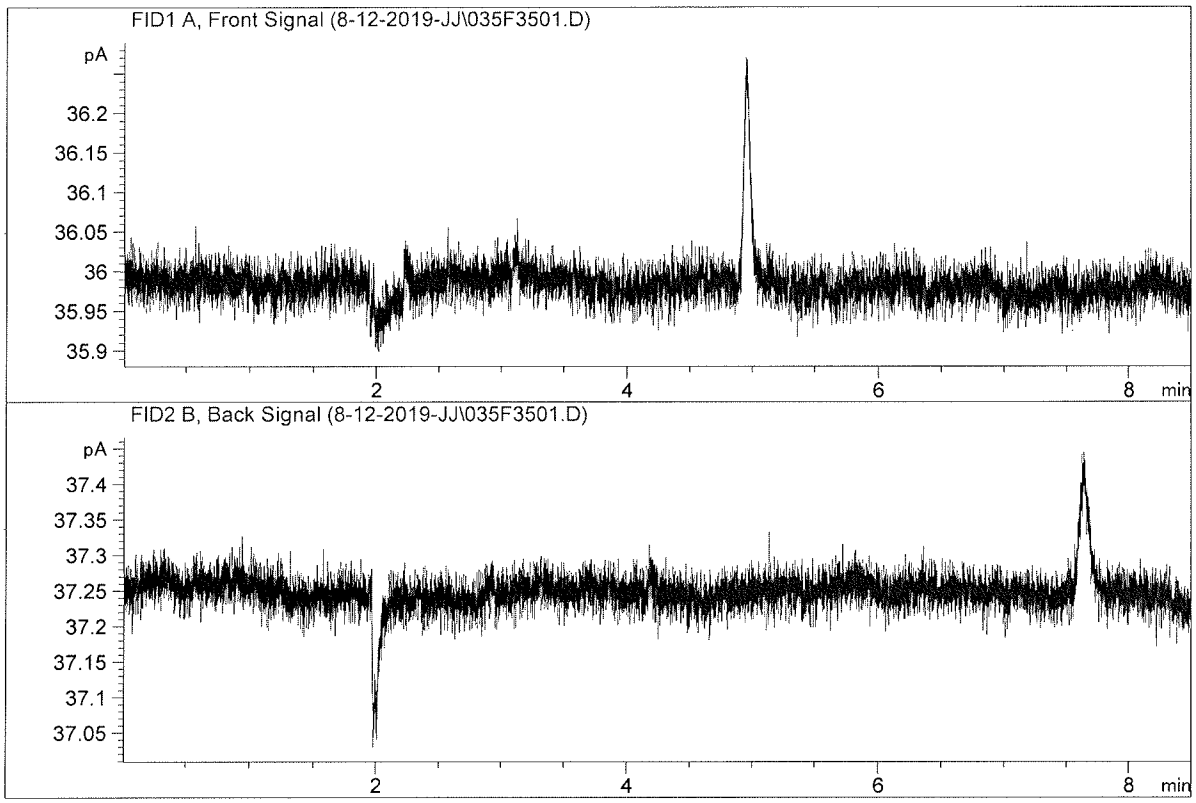
Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	89.71379	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.96717	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Aug 12, 2019
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

99