















**Worklist: 1793**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1154	1	86856	Alcohol Analysis	
C2017-1174	1	87004	Alcohol Analysis	
C2017-1176	1	87035	Alcohol Analysis	
C2017-1178	1	87038	Alcohol Analysis	
C2017-1186	1	87052	Alcohol Analysis	
C2017-1223	1	87411	Alcohol Analysis	
C2017-1227	1	87468	Alcohol Analysis	
C2017-1231	1	87484	Alcohol Analysis	
C2017-1233	1	87486	Alcohol Analysis	
C2017-1280	1	88267	Alcohol Analysis	
C2017-1282	1	88278	Alcohol Analysis	
C2017-1296	1	88418	Alcohol Analysis	
C2017-1310	1	88644	Alcohol Analysis	
C2017-1311	1	88846	Alcohol Analysis	



**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): 7/4/2017**

Calibration 6-30-2017

Control Level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0776 g/100cc
					0.0774 g/100cc
					0.2077 g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	0.2077 g/100cc g/100cc g/100cc
Multi-Component mixture:		Sep-20	Lot #	FN06041502	OK
Curve Fit:		Column 1	1.00000	Column2	1.00000

Ethanol Calibration Reference Material								
Calibrator level	Expiration	Ceriliant Lot #	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0505	0.0501	0.0004	0.0503
0.080							0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.1004	0.0995	0.0009	0.0999
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.2002	0.1994	0.0008	0.1998
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2997	0.2988	0.0009	0.2992
0.400							0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5000	0.5010	0.001	0.5005

Aqueous Controls					
Control level	Expiration	Ceriliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Oct-18	FN09051304	0.08000	0.076 - 0.084	0.080 g/100cc

Issued: 4/22/2015

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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

»Location	»Sample_Name	»Method_Na	»Injector	»InjectionS	»InjVolume	»Inj_Vial
1	water	ALCOHOL	Front	As Method		1
2	VOL MIX FN-06041502	ALCOHOL	Front	As Method		1
3	ISTD BLANK	ALCOHOL	Front	As Method		1
4	QC-2-A	ALCOHOL	Front	As Method		1
5	QC-2-B	ALCOHOL	Front	As Method		1
6	0.08 FN09051304-A	ALCOHOL	Front	As Method		1
7	0.08 FN09051304-B	ALCOHOL	Front	As Method		1
8	17106A-293-A	ALCOHOL	Front	As Method		1
9	17106A-293-B	ALCOHOL	Front	As Method		1
10	17106A-711-A	ALCOHOL	Front	As Method		1
11	17106A-711-B	ALCOHOL	Front	As Method		1
12	C2017-1154-1-A	ALCOHOL	Front	As Method		1
13	C2017-1154-1-B	ALCOHOL	Front	As Method		1
14	C2017-1174-1-A	ALCOHOL	Front	As Method		1
15	C2017-1174-1-B	ALCOHOL	Front	As Method		1
16	C2017-1176-1-A	ALCOHOL	Front	As Method		1
17	C2017-1176-1-B	ALCOHOL	Front	As Method		1
18	C2017-1178-1-A	ALCOHOL	Front	As Method		1
19	C2017-1178-1-B	ALCOHOL	Front	As Method		1
20	C2017-1186-1-A	ALCOHOL	Front	As Method		1
21	C2017-1186-1-B	ALCOHOL	Front	As Method		1
22	C2017- <sup>1223</sup> <del>1123</del> -1-A	ALCOHOL	Front	As Method		1
23	C2017- <sup>1223</sup> <del>1123</del> -1-B	ALCOHOL	Front	As Method		1
24	C2017-1227-1-A	ALCOHOL	Front	As Method		1
25	C2017-1227-1-B	ALCOHOL	Front	As Method		1
26	QC-1-A	ALCOHOL	Front	As Method		1
27	QC-1-B	ALCOHOL	Front	As Method		1
28	C2017-1231-1-A	ALCOHOL	Front	As Method		1
29	C2017-1231-1-B	ALCOHOL	Front	As Method		1
30	C2017-1233-1-A	ALCOHOL	Front	As Method		1
31	C2017-1233-1-B	ALCOHOL	Front	As Method		1
32	C2017-1280-1-A	ALCOHOL	Front	As Method		1
33	C2017-1280-1-B	ALCOHOL	Front	As Method		1
34	C2017-1282-1-A	ALCOHOL	Front	As Method		1
35	C2017-1282-1-B	ALCOHOL	Front	As Method		1
36	C2017-1296-1-A	ALCOHOL	Front	As Method		1
37	C2017-1296-1-B	ALCOHOL	Front	As Method		1
38	C2017-1310-1-A	ALCOHOL	Front	As Method		1
39	C2017-1310-1-B	ALCOHOL	Front	As Method		1
40	C2017-1311-1-A	ALCOHOL	Front	As Method		1
41	C2017-1311-1-B	ALCOHOL	Front	As Method		1
42	QC-1-A	ALCOHOL	Front	As Method		1
43	QC-1-B	ALCOHOL	Front	As Method		1
44	ISTD BLANK	ALCOHOL	Front	As Method		1
45	water	ALCOHOL	Front	As Method		1
46	SHUTDOWN	SHUTDOWN	Front	As Method		1

99

=====  
Calibration Table  
=====

-----  
General Calibration Setting  
-----

Calib. Data Modified : Friday, June 30, 2017 3:25:01 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  
-----

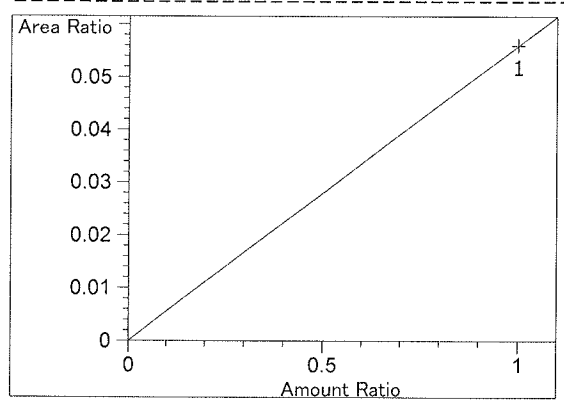
99

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
3.102	1	1	5.00000e-2	8.84499	5.65292e-3	No	No 1	Ethanol
		2	1.00000e-1	17.41182	5.74322e-3			
		3	2.00000e-1	34.78239	5.75004e-3			
		4	3.00000e-1	52.37021	5.72845e-3			
		5	5.00000e-1	86.63928	5.77105e-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
4.171	2	1	5.00000e-2	8.77410	5.69859e-3	No	No 2	Ethanol
		2	1.00000e-1	17.22033	5.80709e-3			
		3	2.00000e-1	34.51062	5.79532e-3			
		4	3.00000e-1	52.04873	5.76383e-3			
		5	5.00000e-1	86.13780	5.80465e-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
4.931	1	1	1.00000	90.64748	1.10317e-2	No	Yes 1	n-Propanol
		2	1.00000	89.84128	1.11307e-2			
		3	1.00000	89.96889	1.11150e-2			
		4	1.00000	90.48599	1.10514e-2			
		5	1.00000	89.74429	1.11428e-2			
7.603	2	1	1.00000	89.40377	1.11852e-2	No	Yes 2	n-Propanol
		2	1.00000	88.30118	1.13249e-2			
		3	1.00000	88.25456	1.13309e-2			
		4	1.00000	88.84228	1.12559e-2			
		5	1.00000	87.68532	1.14044e-2			

Peak Sum Table

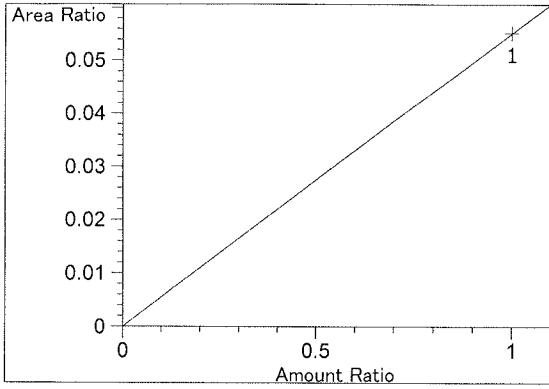
\*\*\*No Entries in table\*\*\*

Calibration Curves

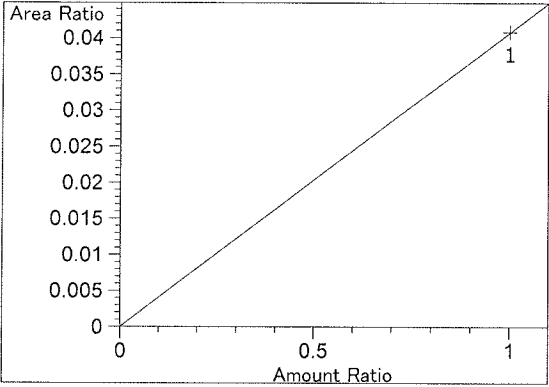


Difluoroethane at exp. RT: 2.000  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 5.59261e-2  
 x: Amount Ratio  
 y: Area Ratio

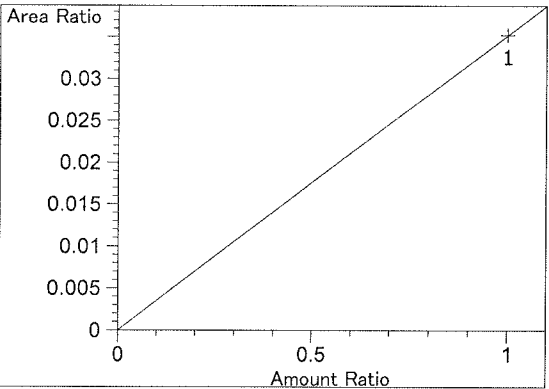
99



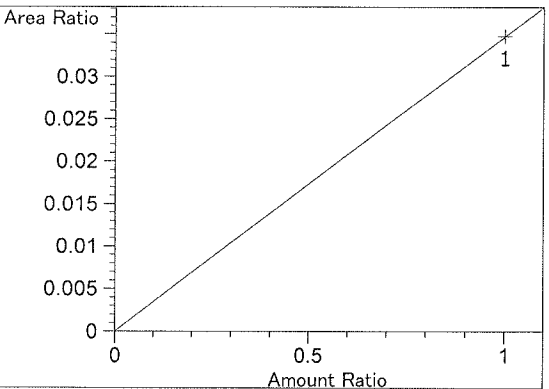
Difluoroethane at exp. RT: 2.000  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 5.51587e-2  
x: Amount Ratio  
y: Area Ratio



Methanol at exp. RT: 2.494  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 4.07810e-2  
x: Amount Ratio  
y: Area Ratio

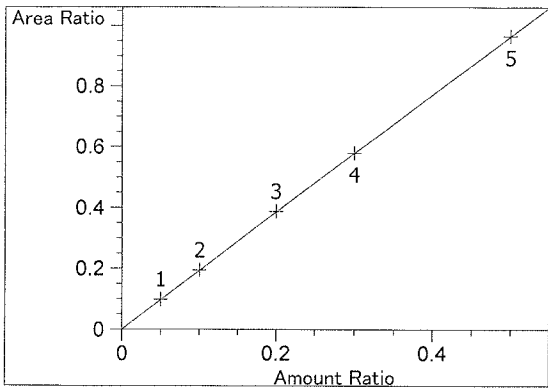


Acetaldehyde at exp. RT: 2.772  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 3.52256e-2  
x: Amount Ratio  
y: Area Ratio

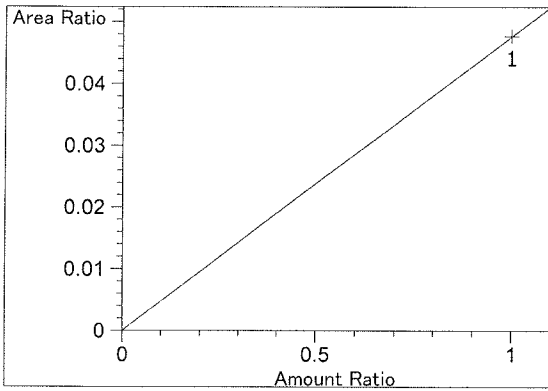


Acetaldehyde at exp. RT: 2.797  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 3.47385e-2  
x: Amount Ratio  
y: Area Ratio

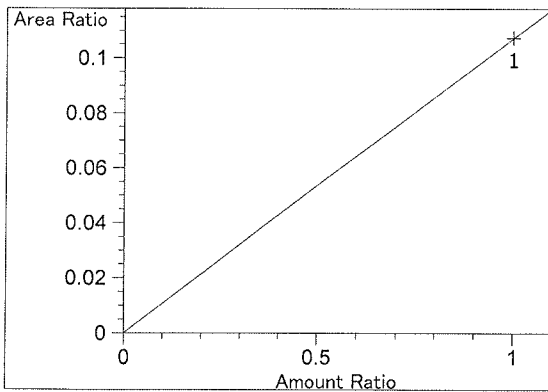
99



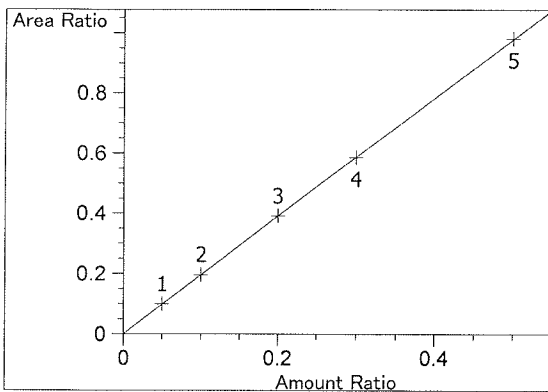
Ethanol at exp. RT: 3.102  
 FID1 A, Front Signal  
 Correlation: 1.00000 ✓  
 Residual Std. Dev.: 0.00071  
 Formula:  $y = mx$   
 m: 1.93098  
 x: Amount Ratio  
 y: Area Ratio



Methanol at exp. RT: 3.211  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 4.76560e-2  
 x: Amount Ratio  
 y: Area Ratio

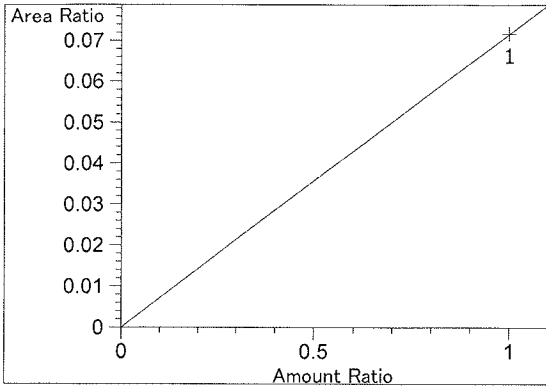


Isopropyl alcohol at exp. RT: 3.715  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.07345e-1  
 x: Amount Ratio  
 y: Area Ratio

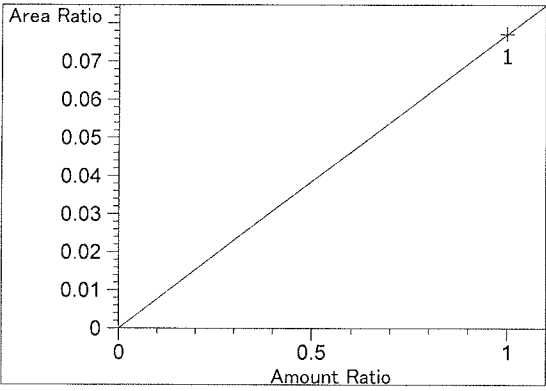


Ethanol at exp. RT: 4.171  
 FID2 B, Back Signal  
 Correlation: 1.00000 ✓  
 Residual Std. Dev.: 0.00172  
 Formula:  $y = mx$   
 m: 1.96063  
 x: Amount Ratio  
 y: Area Ratio

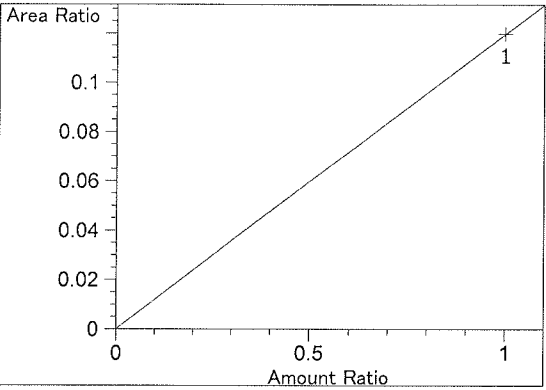
99



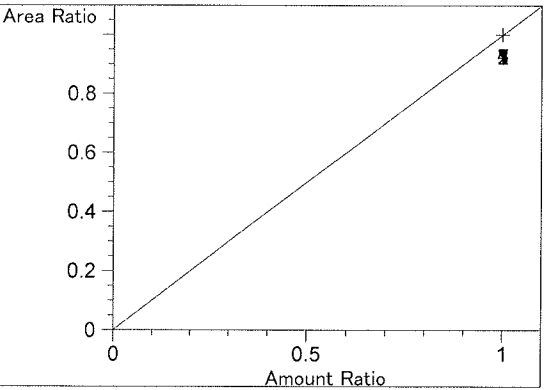
Acetone at exp. RT: 4.530  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $7.16997e-2$   
x: Amount Ratio  
y: Area Ratio



Acetone at exp. RT: 4.549  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $7.70998e-2$   
x: Amount Ratio  
y: Area Ratio



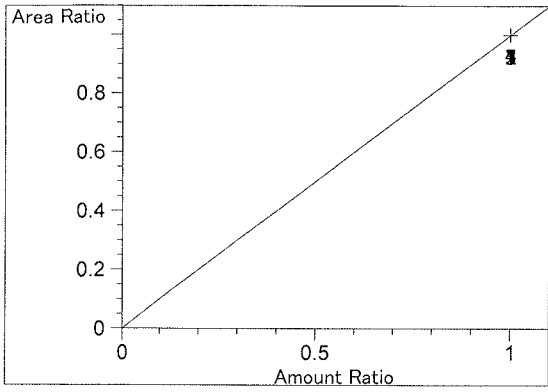
Isopropyl alcohol at exp. RT: 4.870  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $1.19754e-1$   
x: Amount Ratio  
y: Area Ratio



n-Propanol at exp. RT: 4.931  
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: 7.603  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

=====

99

S a m p l e S u m m a r y

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_30.06.2017\_01.43.25\6-30-17cal.S  
 Data directory path: C:\Chem32\1\Data\6-30-17calJJ  
 Logbook: C:\Chem32\1\Data\6-30-17calJJ\6-30-17cal.LOG  
 Sequence start: 6/30/2017 1:57:11 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM

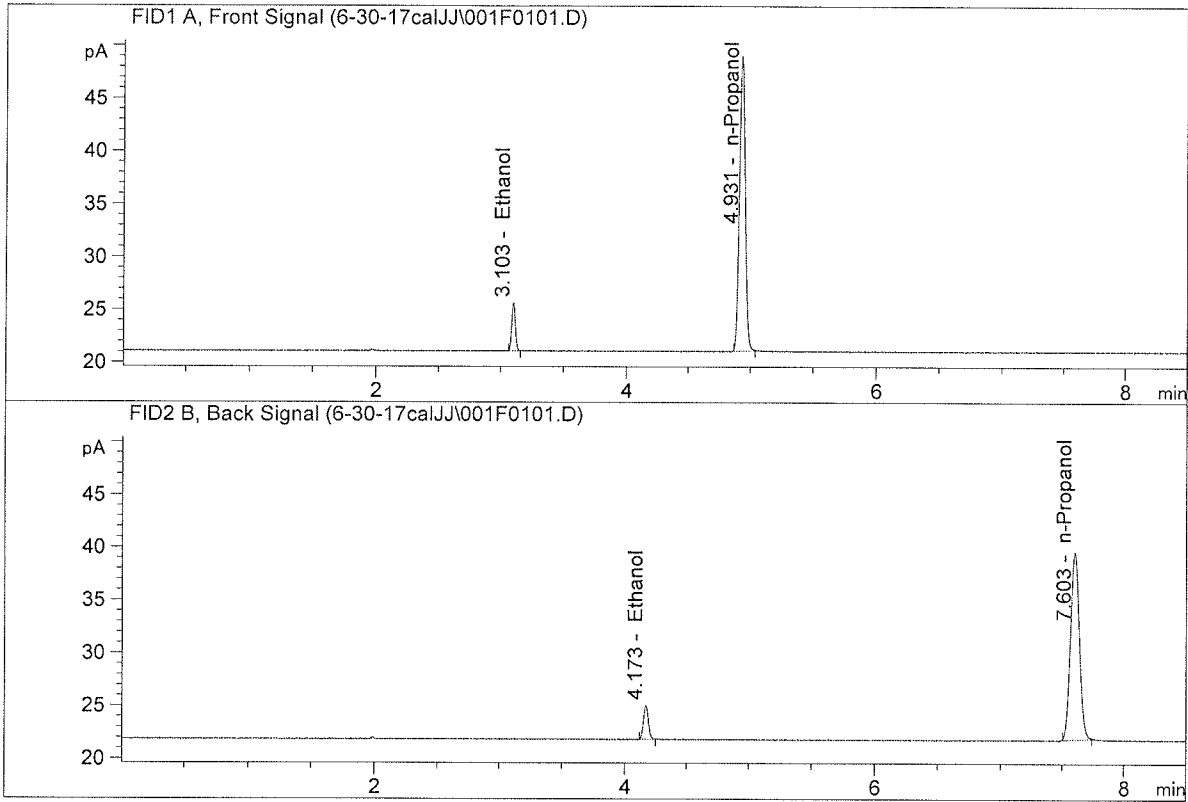
Method file name: C:\CHEM32\1\METHODS\ALCOHOL.M

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 : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

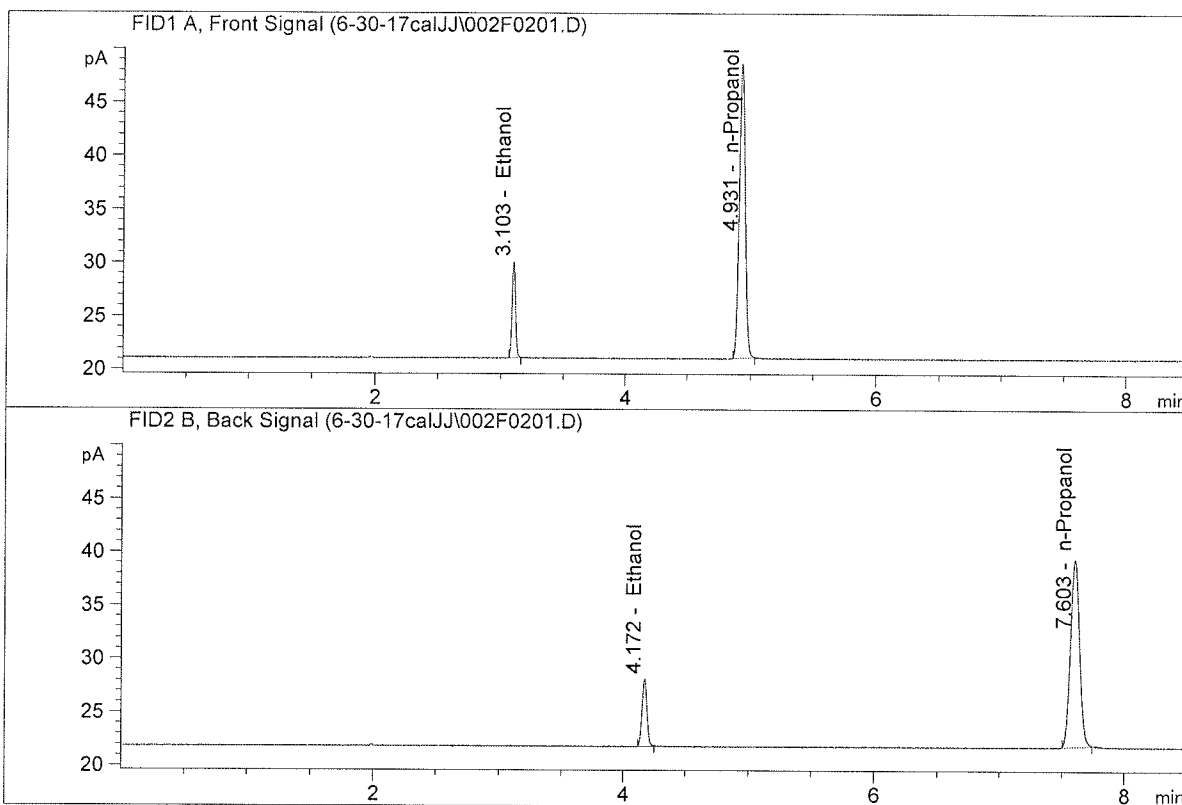


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.84499	0.0505	g/100cc
2.	Ethanol	Column 2:	8.77410	0.0501	g/100cc
3.	n-Propanol	Column 1:	90.64748	1.0000	g/100cc
4.	n-Propanol	Column 2:	89.40377	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100  
 Laboratory : Coeur d' Alene  
 Injection Date : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

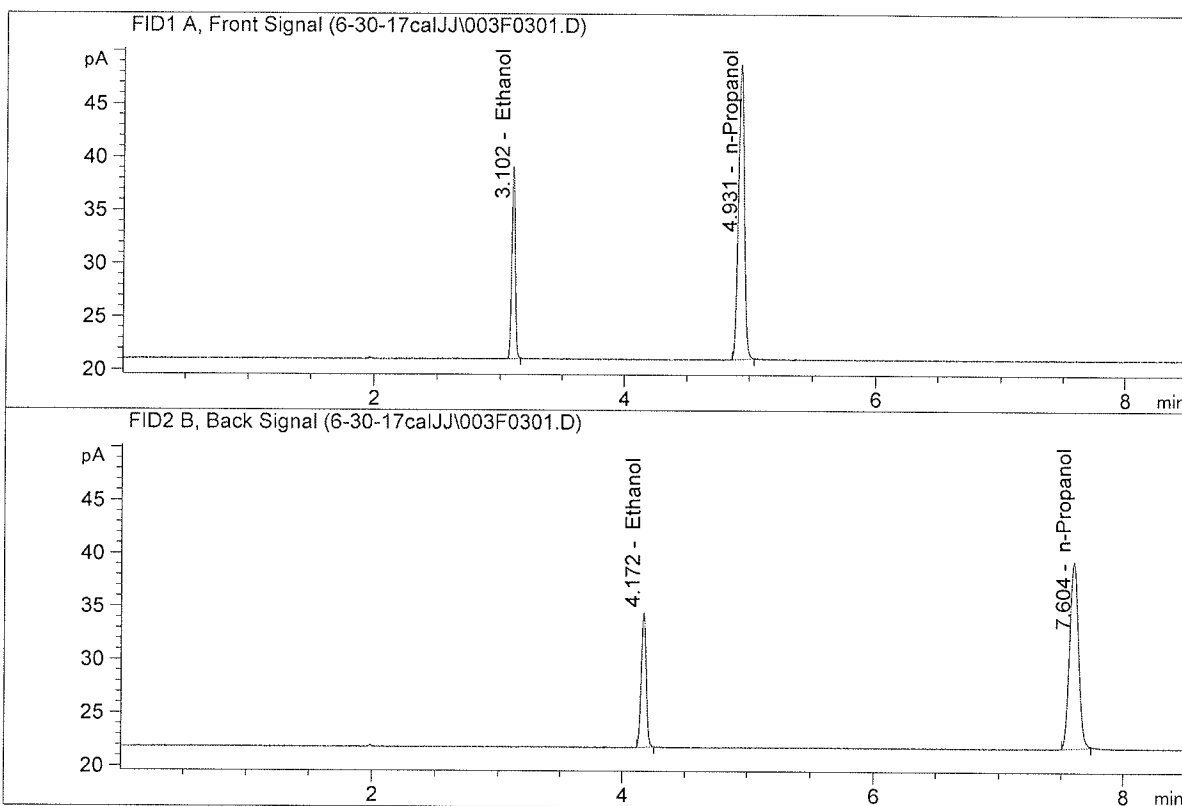


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.41182	0.1004	g/100cc
2.	Ethanol	Column 2:	17.22033	0.0995	g/100cc
3.	n-Propanol	Column 1:	89.84128	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.30118	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200  
 Laboratory : Coeur d' Alene  
 Injection Date : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

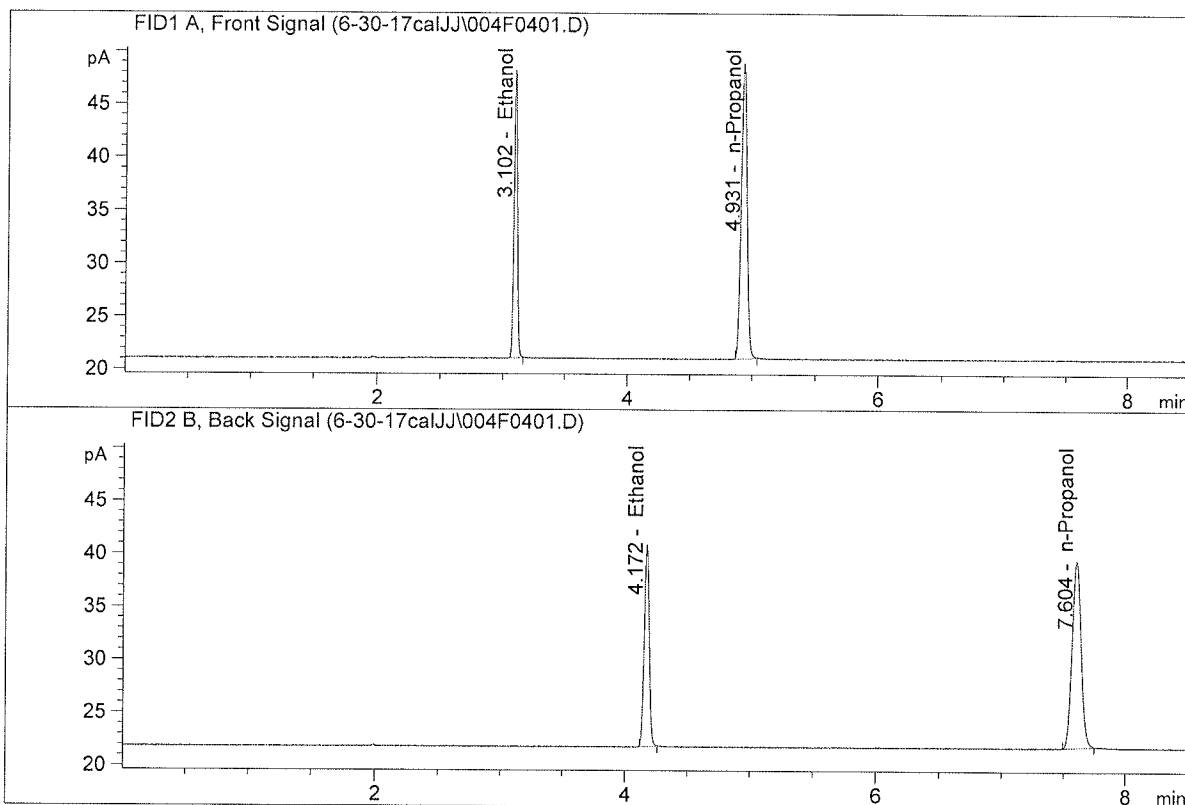


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.78239	0.2002	g/100cc
2.	Ethanol	Column 2:	34.51062	0.1994	g/100cc
3.	n-Propanol	Column 1:	89.96889	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.25456	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300  
 Laboratory : Coeur d' Alene  
 Injection Date : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

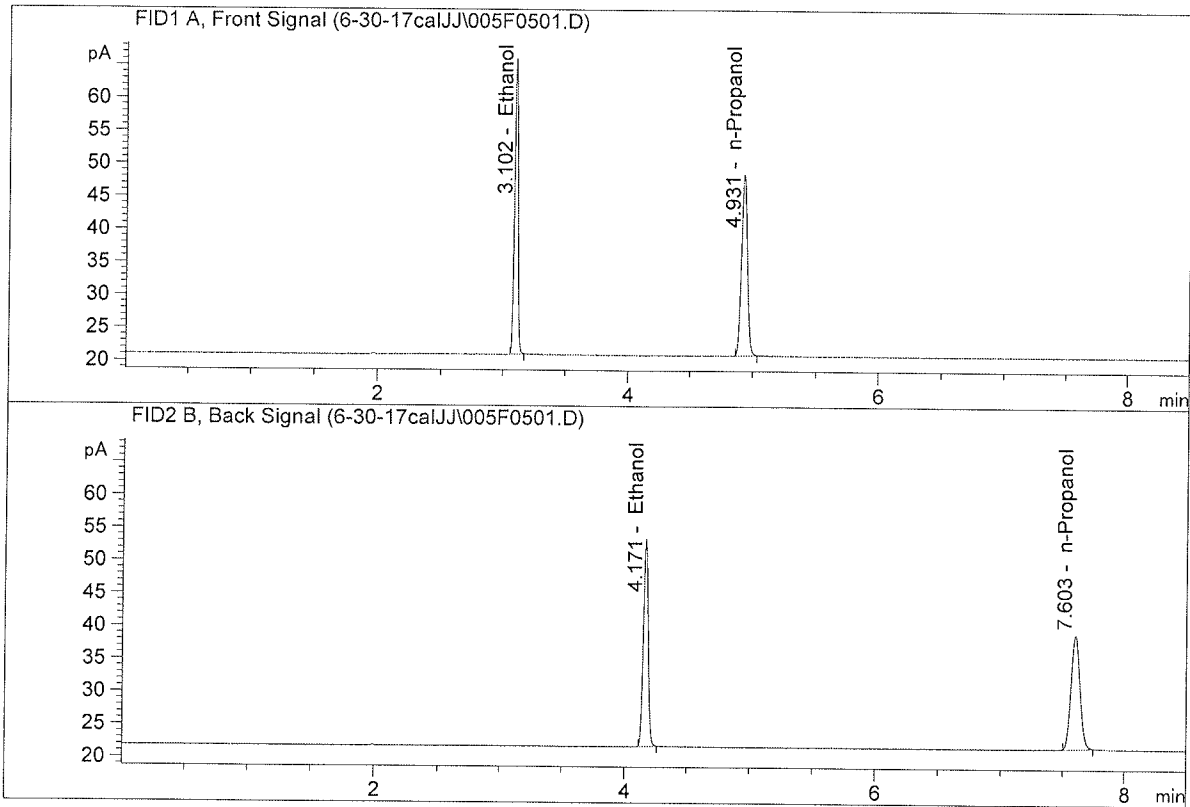


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	52.37021	0.2997	g/100cc
2.	Ethanol	Column 2:	52.04873	0.2988	g/100cc
3.	n-Propanol	Column 1:	90.48599	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.84228	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500  
 Laboratory : Coeur d' Alene  
 Injection Date : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

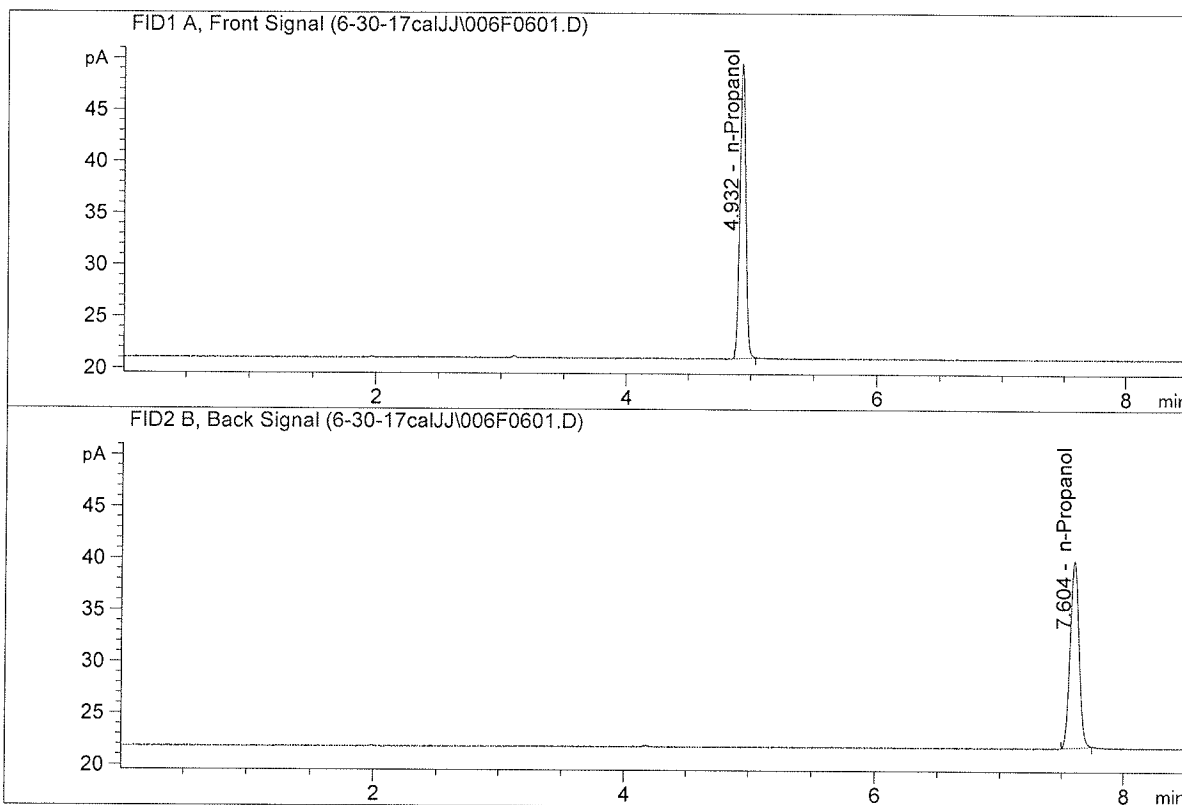


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	86.63928	0.5000	g/100cc
2.	Ethanol	Column 2:	86.13780	0.5010	g/100cc
3.	n-Propanol	Column 1:	89.74429	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.68532	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : blank  
 Laboratory : Coeur d' Alene  
 Injection Date : Jun 30, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



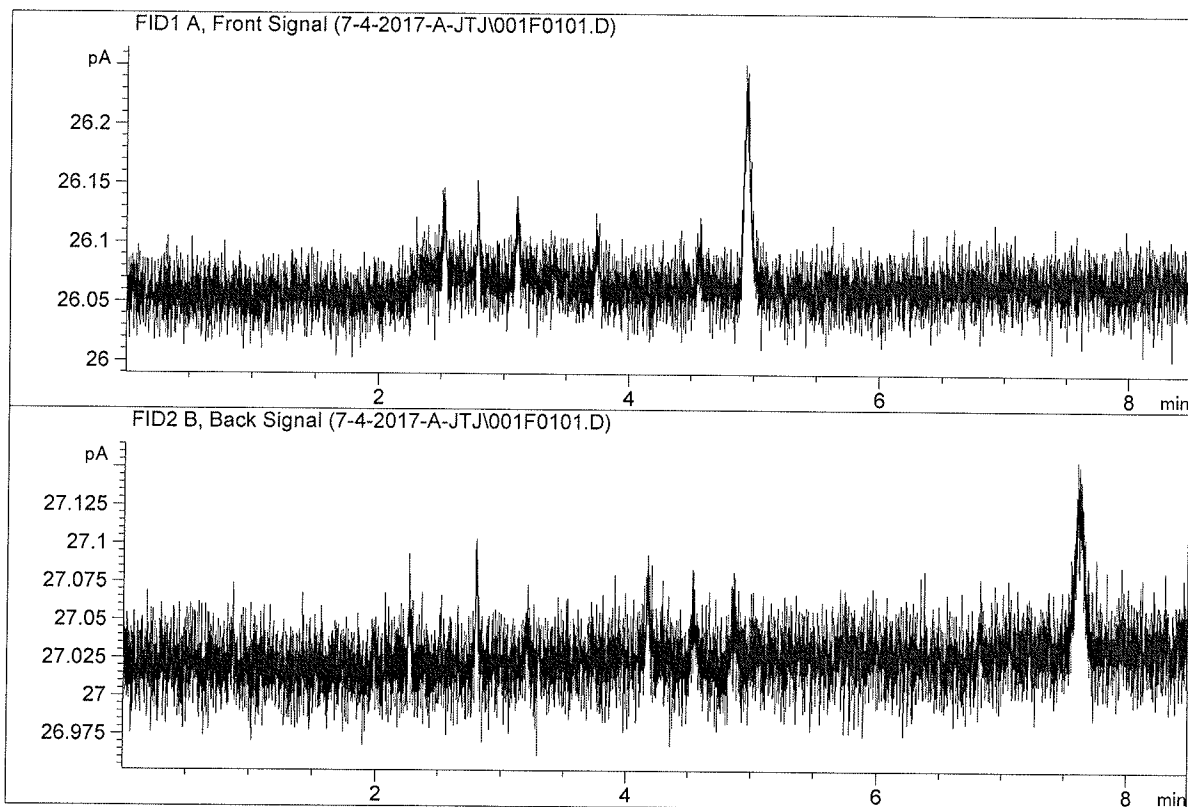
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	92.73041	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.20181	1.0000	g/100cc

99



ISP Forensic Services Blood Alcohol Report

Sample Name : water  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

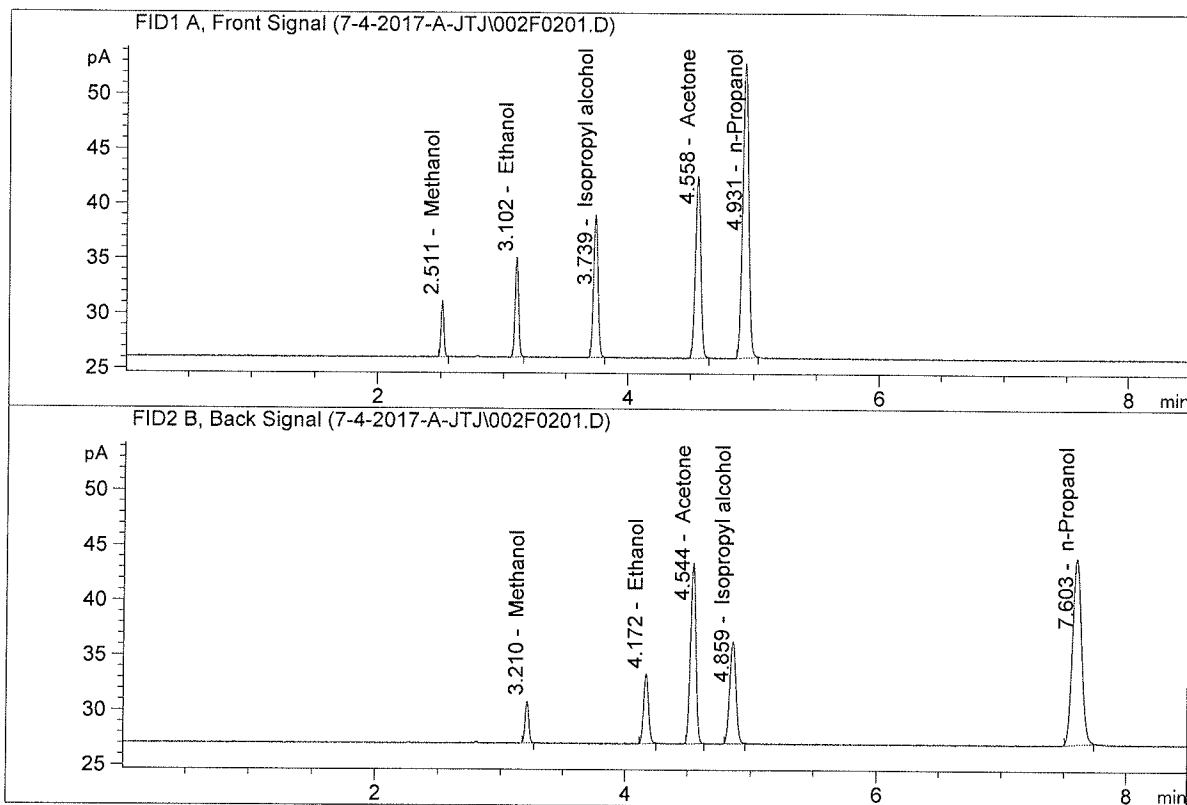


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument : CN10742044-IT00725005

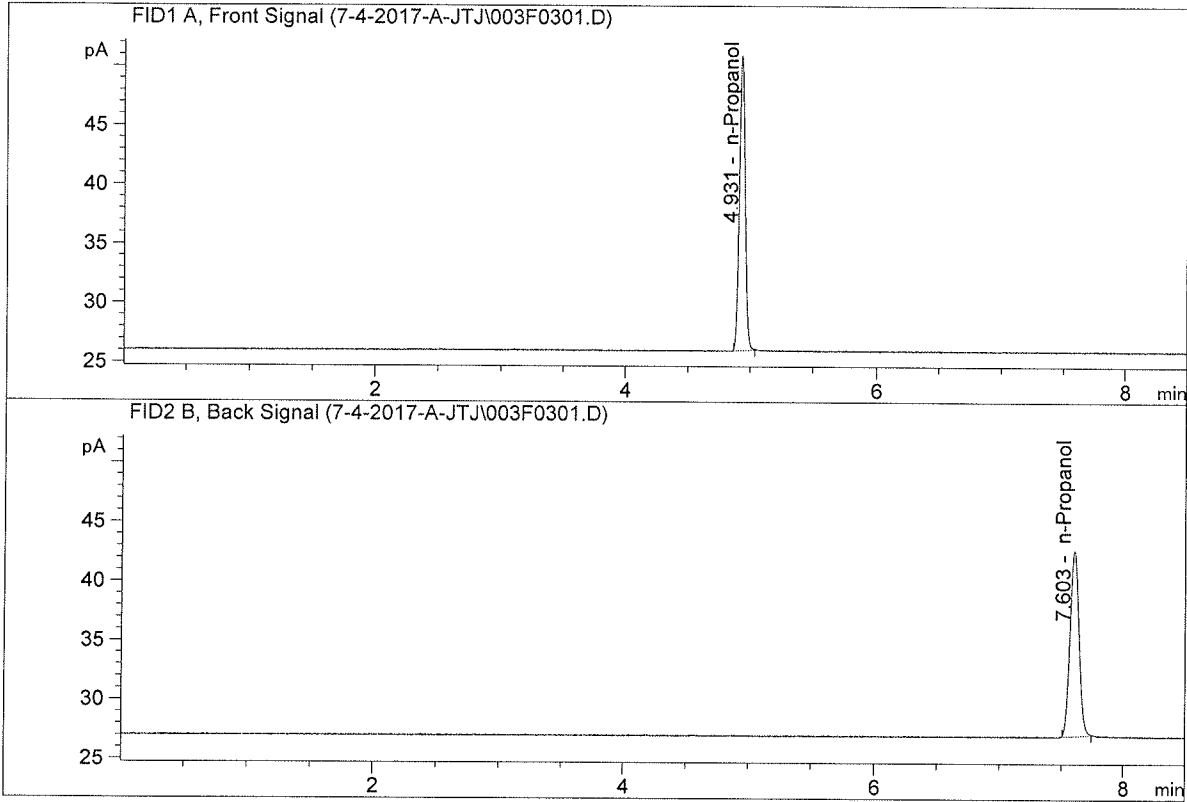


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.58071	0.1045	g/100cc
2.	Ethanol	Column 2:	17.45664	0.1044	g/100cc
3.	n-Propanol	Column 1:	87.10026	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.30170	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 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:	80.92243	1.0000	g/100cc
4.	n-Propanol	Column 2:	79.34489	1.0000	g/100cc

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2-A

Analysis Date(s): 04 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2070	0.2078	0.0008	0.2074	0.2077	
(g/100cc)	0.2079	0.2083	0.0004	0.2081		

### Analysis Method

Refer to Volatiles Analytical Method 1.0

### 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
0.207	0.196	0.218	0.011

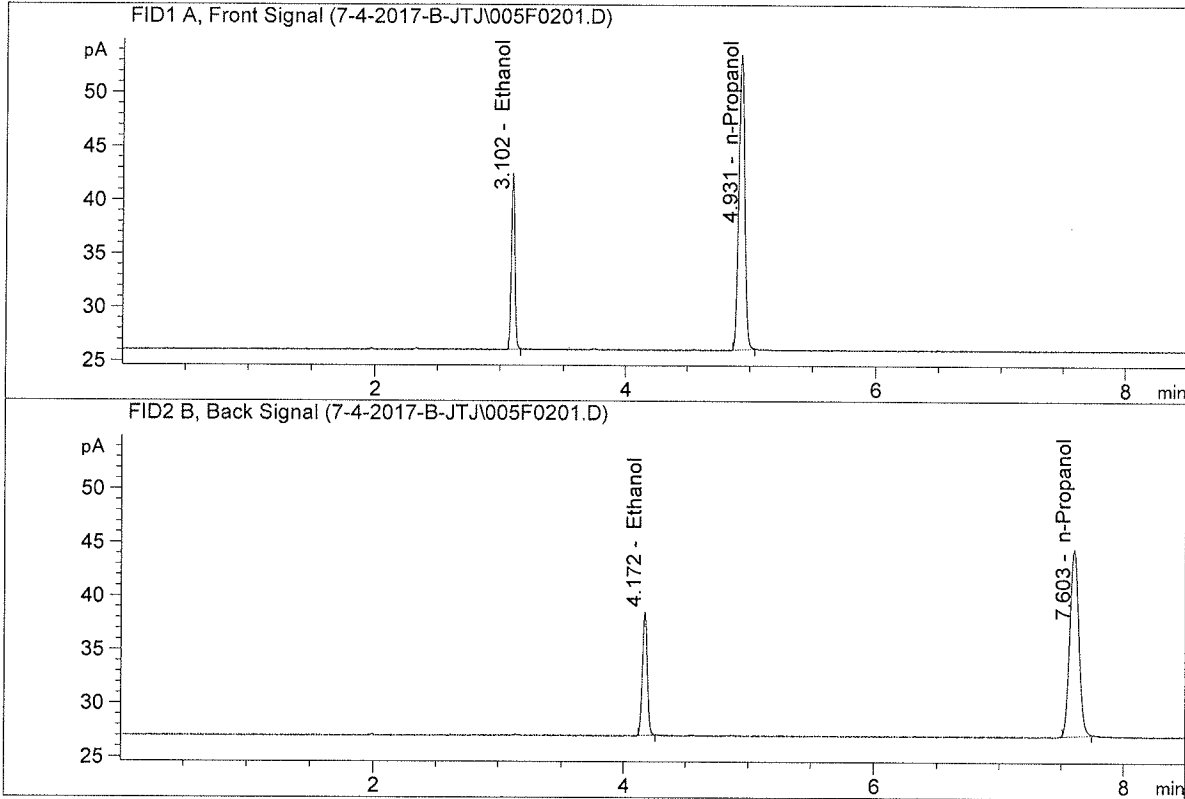
	<b>Reported Result</b>	
	0.207	

*Calibration and control data are stored centrally.*

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

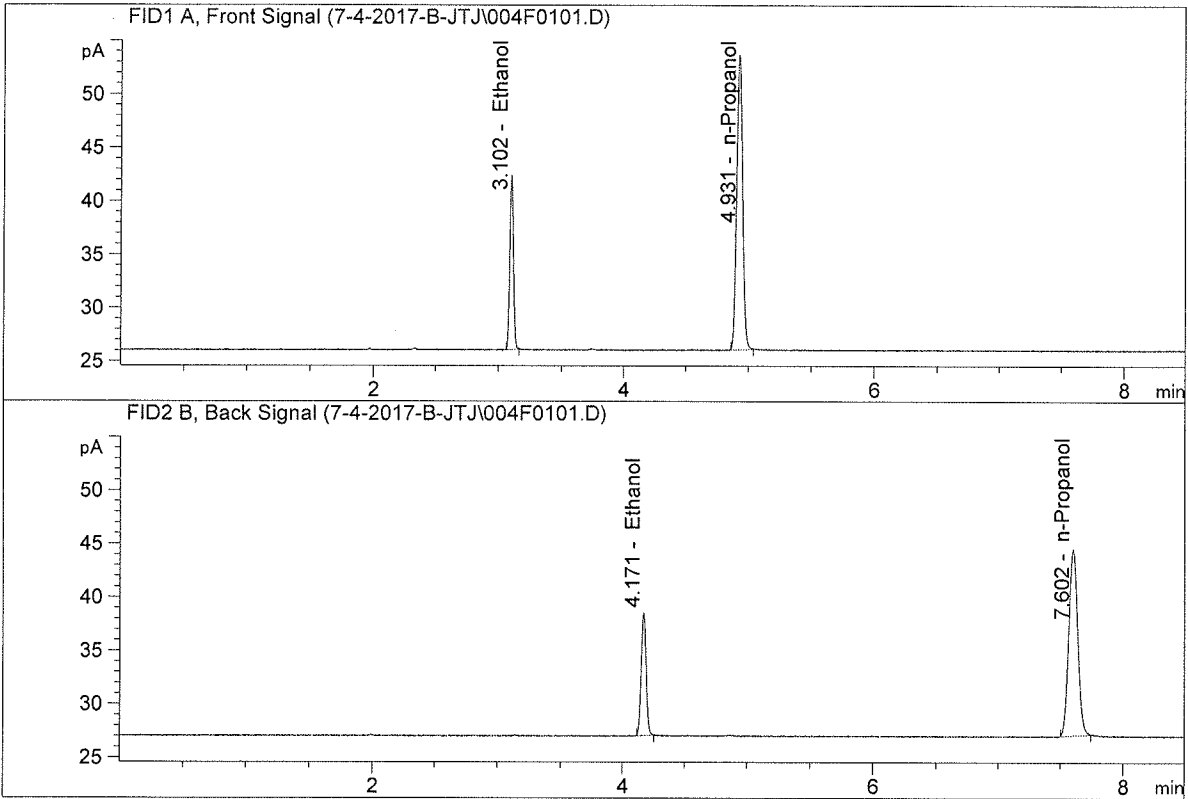


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	31.73741	0.2079	g/100cc
2.	Ethanol	Column 2:	31.40403	0.2083	g/100cc
3.	n-Propanol	Column 1:	89.46367	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.57606	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	31.67331	0.2070	g/100cc
2.	Ethanol	Column 2:	31.36539	0.2078	g/100cc
3.	n-Propanol	Column 1:	89.64182	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.67731	1.0000	g/100cc

99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304

Analysis Date(s): 04 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0808	0.0801	0.0007	0.0804	0.0805	
(g/100cc)	0.0811	0.0803	0.0008	0.0807		

### Analysis Method

Refer to Volatiles Analytical Method 1.0

### 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
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

*Calibration and control data are stored centrally.*

Issued: 01/16/2014

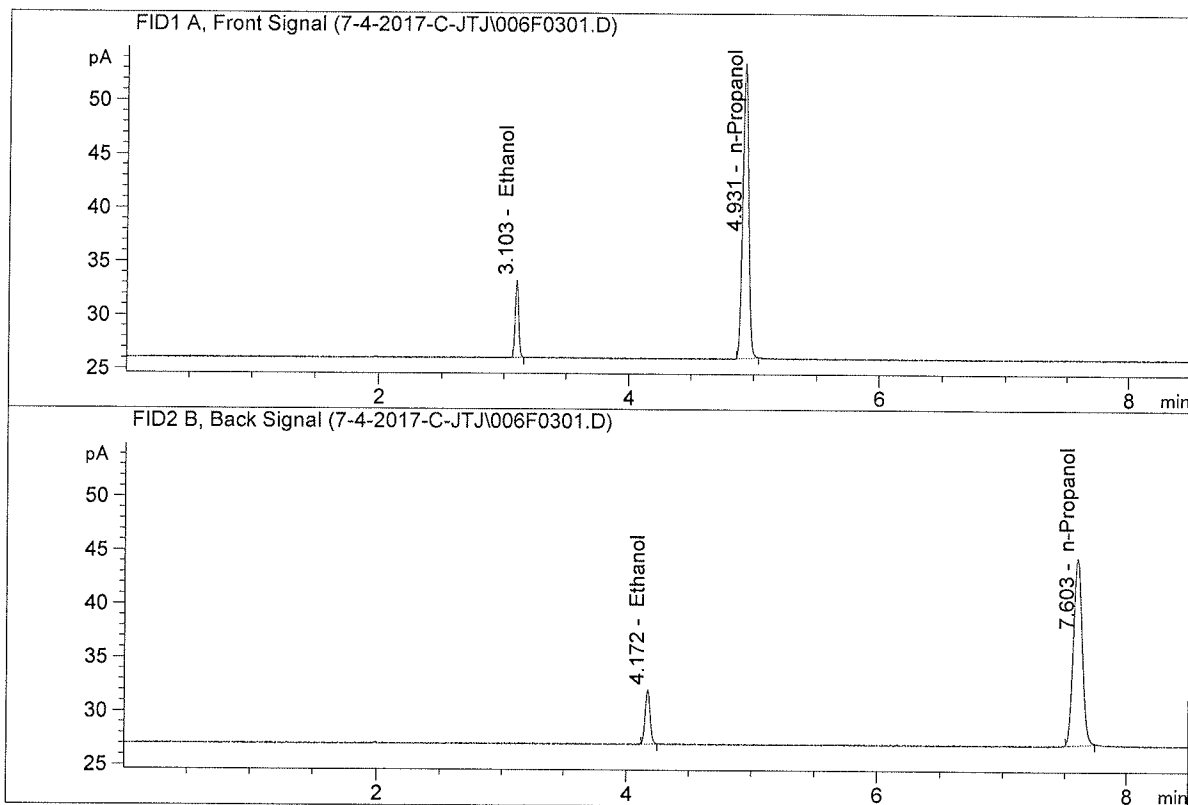
Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



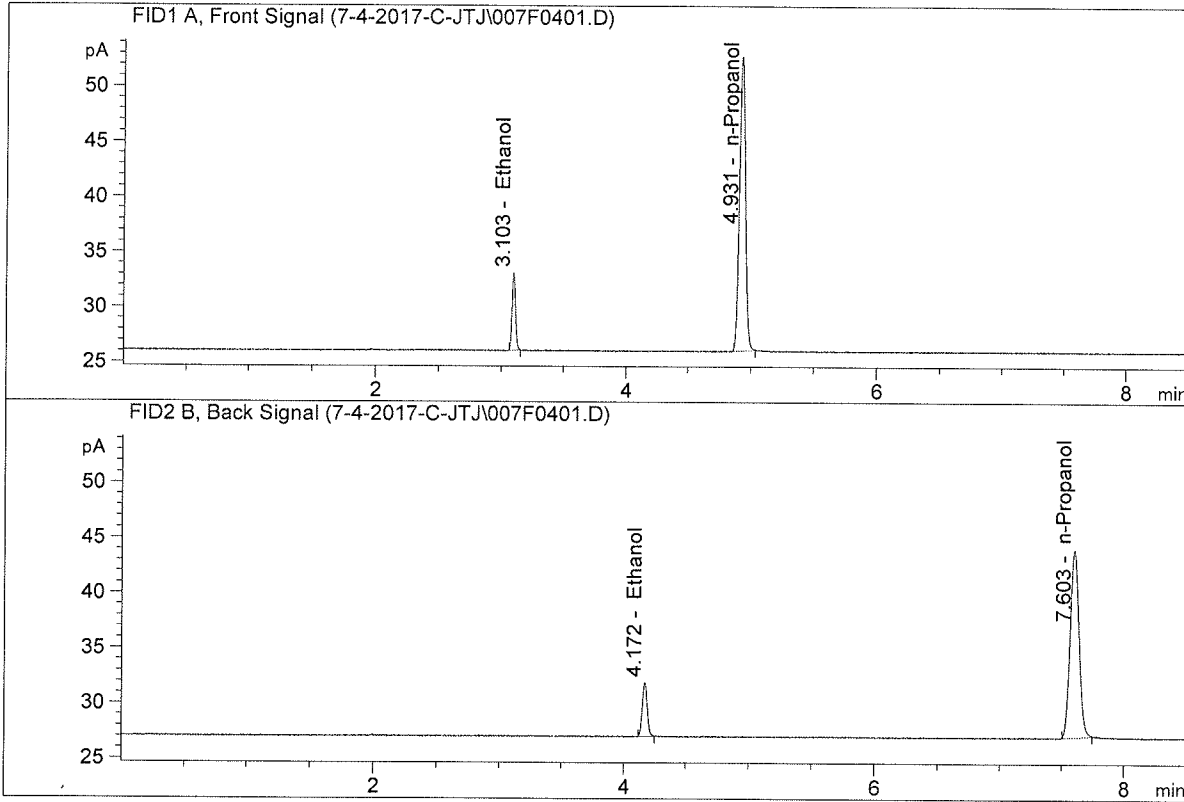
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.96802	0.0808	g/100cc
2.	Ethanol	Column 2:	13.76251	0.0801	g/100cc
3.	n-Propanol	Column 1:	89.48559	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.68006	1.0000	g/100cc

99



ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.64297	0.0811	g/100cc
2.	Ethanol	Column 2:	13.44223	0.0803	g/100cc
3.	n-Propanol	Column 1:	87.08282	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.41183	1.0000	g/100cc

79

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2199

Analysis Date(s): 04 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0782	0.0776	0.0006	0.0779	0.0776
(g/100cc)	0.0777	0.0770	0.0007	0.0773	

### Analysis Method

Refer to Volatiles Analytical Method 1.0

### 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

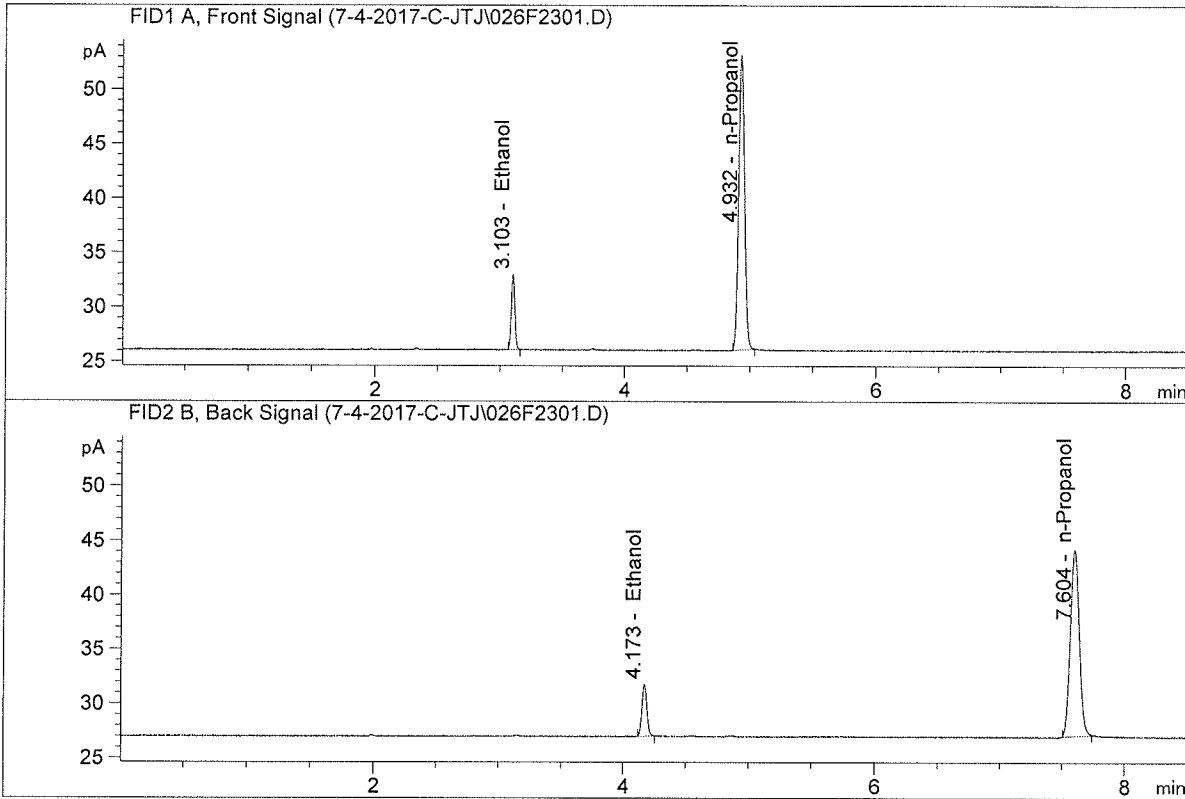
	<b>Reported Result</b>	
	0.077	

*Calibration and control data are stored centrally.*

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-~~2~~-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044 - IT00725005

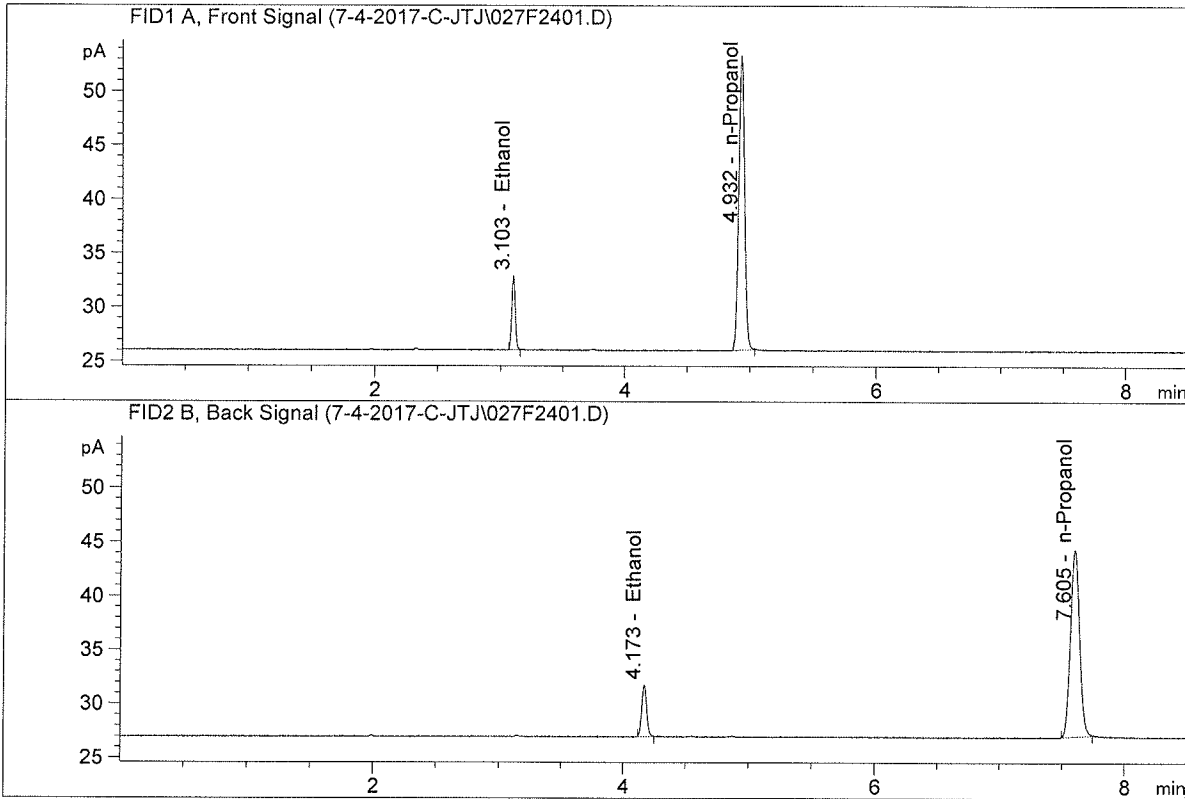


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.27510	0.0782	g/100cc
2.	Ethanol	Column 2:	13.09109	0.0776	g/100cc
3.	n-Propanol	Column 1:	87.90116	1.0000	g/100cc
4.	n-Propanol	Column 2:	86.02618	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-~~2~~<sup>1</sup>-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.29599	0.0777	g/100cc
2.	Ethanol	Column 2:	13.11630	0.0770	g/100cc
3.	n-Propanol	Column 1:	88.67167	1.0000	g/100cc
4.	n-Propanol	Column 2:	86.84034	1.0000	g/100cc

99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 99

Analysis Date(s): 04 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0782	0.0775	0.0007	0.0778	0.0774
(g/100cc)	0.0775	0.0767	0.0008	0.0771	

### Analysis Method

Refer to Volatiles Analytical Method 1.0

### 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

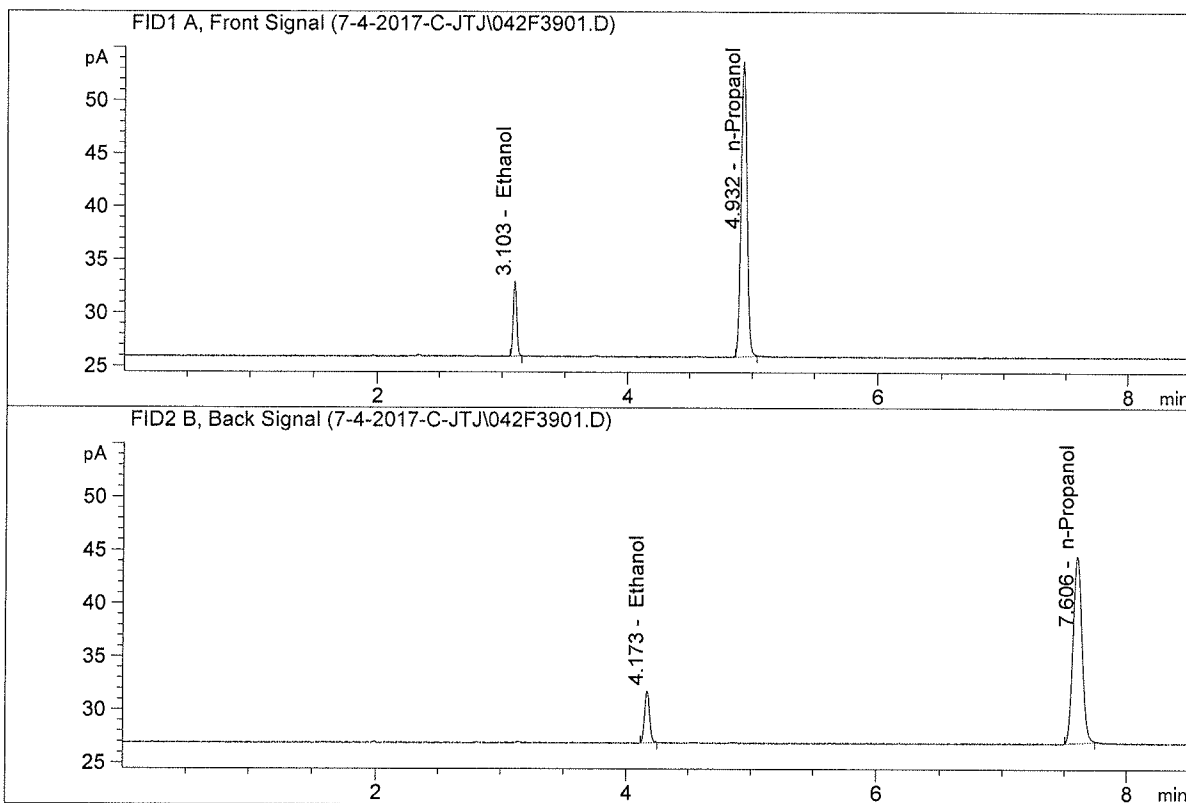
	<b>Reported Result</b>	
	0.077	

*Calibration and control data are stored centrally.*

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-<sup>199</sup>~~Z~~-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

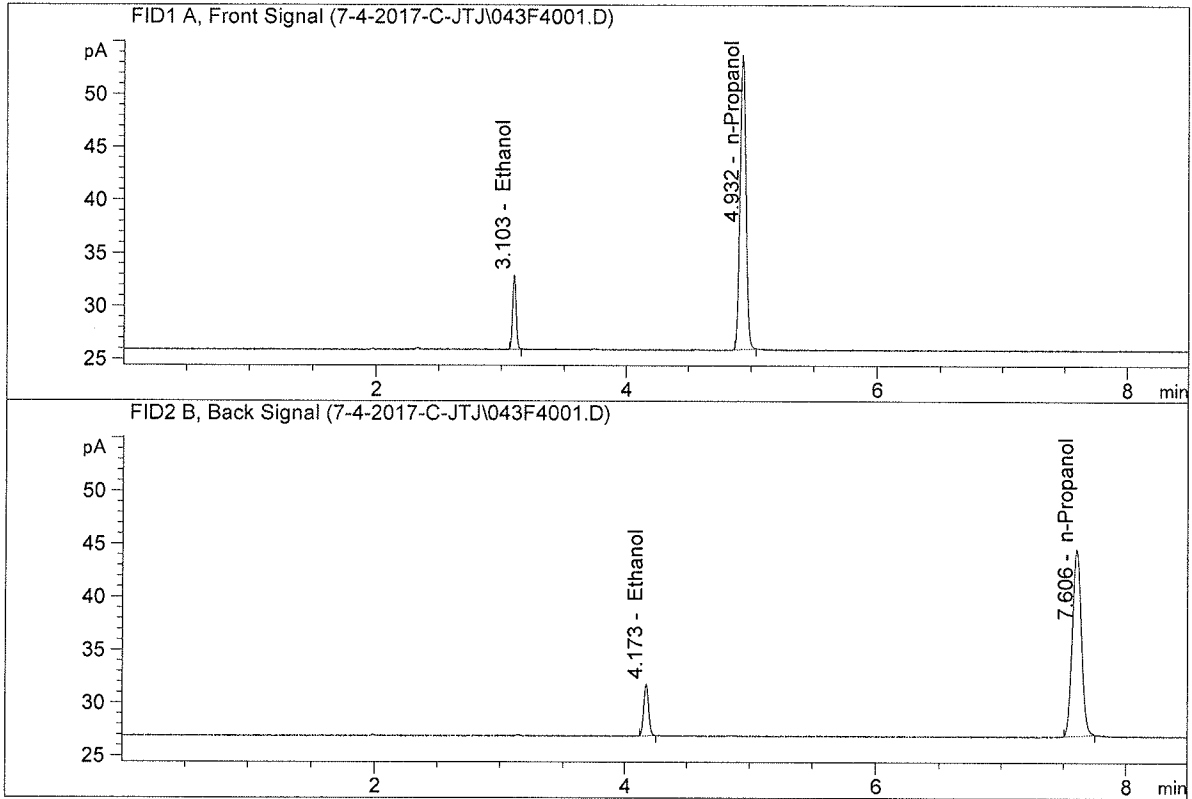


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.59885	0.0782	g/100cc
2.	Ethanol	Column 2:	13.41470	0.0775	g/100cc
3.	n-Propanol	Column 1:	90.11272	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.32258	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-~~2~~<sup>199</sup>-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

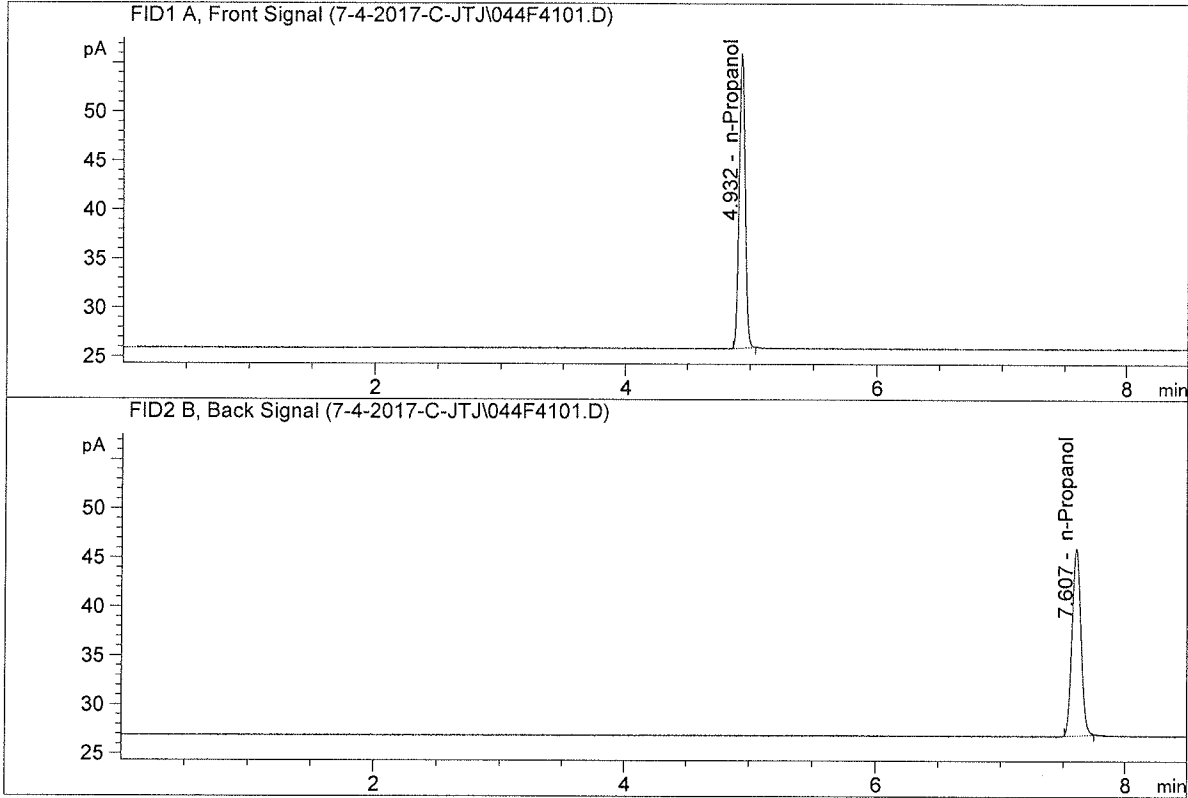


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.52112	0.0775	g/100cc
2.	Ethanol	Column 2:	13.33057	0.0767	g/100cc
3.	n-Propanol	Column 1:	90.34624	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.65907	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



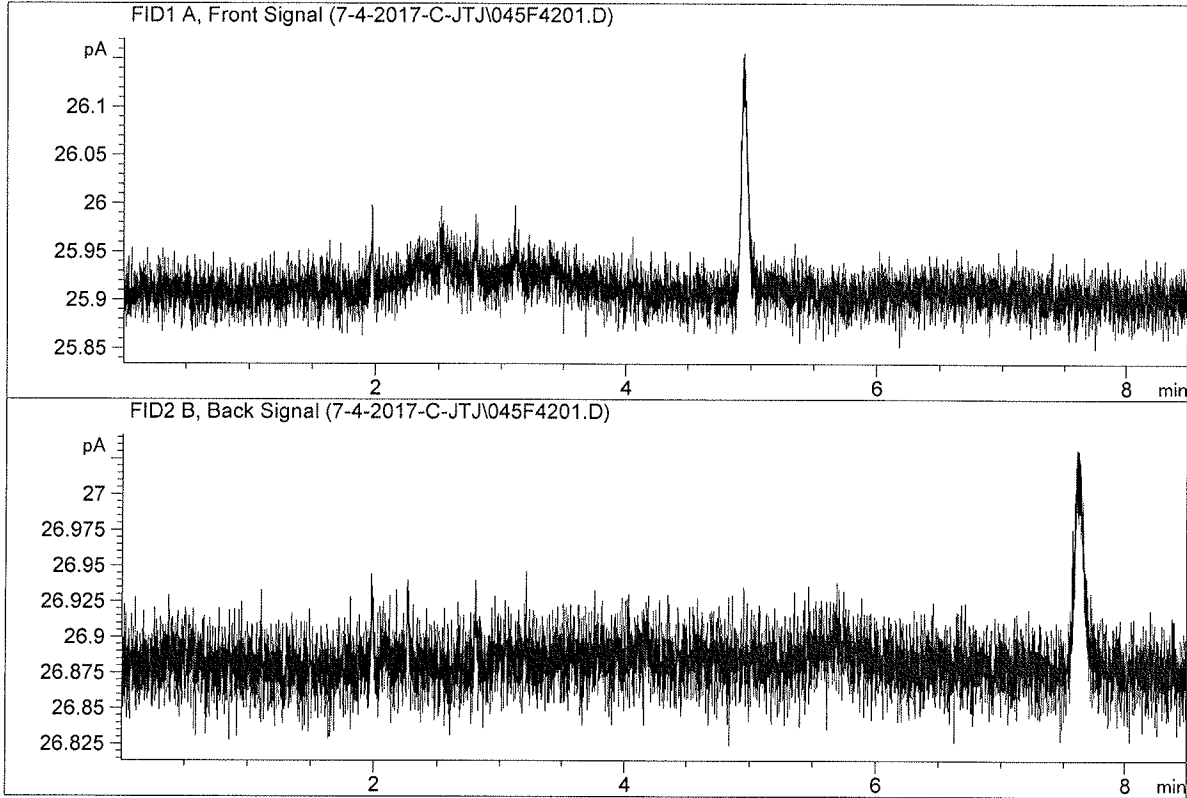
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	97.63182	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.92505	1.0000	g/100cc

99



ISP Forensic Services Blood Alcohol Report

Sample Name : water  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 4, 2017  
 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