

**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): 7/21/2017**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0765 g/100cc
					g/100cc
					0.1972 g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	g/100cc g/100cc g/100cc
Multi-Component mixture:		Sep-20	Lot #	FN06041502	OK
Curve Fit:		Column 1	1.00000	Column 2	0.99998

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	0.0497	0.0489	0.0008	0.0493
0.080							0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.0993	0.0981	0.0012	0.0987
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.1990	0.1977	0.0013	0.1983
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3004	0.2999	0.0005	0.3001
0.400							0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5004	0.5015	0.0011	0.5009

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

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**Worklist: 1816**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2017-1321	1	88961	Alcohol Analysis	
C2017-1349	1	89135	Alcohol Analysis	
C2017-1350	1	89138	Alcohol Analysis	
C2017-1361	1	89220	Alcohol Analysis	
C2017-1366	1	89310	Alcohol Analysis	
C2017-1384	1	89518	Alcohol Analysis	
C2017-1426	1	90137	Alcohol Analysis	
C2017-1437	1	90298	Alcohol Analysis	
C2017-1447	1	90434	Alcohol Analysis	
P2017-1578	1	89270	Alcohol Analysis	

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_21.07.2017\_12.47.54\7-21-2017.S  
 Data directory path: C:\Chem32\1\Data\7-21-2017-JTJ  
 Logbook: C:\Chem32\1\Data\7-21-2017-JTJ\7-21-2017.LOG  
 Sequence start: 7/21/2017 1:01:40 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 FN09051304-	-	1.0000	006F0601.D		4
7	7	1	0.08 FN09051304-	-	1.0000	007F0701.D		4
8	8	1	C2017-1321-1-A	-	1.0000	008F0801.D		4
9	9	1	C2017-1321-1-B	-	1.0000	009F0901.D		4
10	10	1	C2017-1349-1-A	-	1.0000	010F1001.D		4
11	11	1	C2017-1349-1-B	-	1.0000	011F1101.D		4
12	12	1	C2017-1350-1-A	-	1.0000	012F1201.D		2
13	13	1	C2017-1350-1-B	-	1.0000	013F1301.D		2
14	14	1	C2017-1361-1-A	-	1.0000	014F1401.D		2
15	15	1	C2017-1361-1-B	-	1.0000	015F1501.D		2
16	16	1	C2017-1366-1-A	-	1.0000	016F1601.D		4
17	17	1	C2017-1366-1-B	-	1.0000	017F1701.D		4
18	18	1	C2017-1384-1-A	-	1.0000	018F1801.D		4
19	19	1	C2017-1384-1-B	-	1.0000	019F1901.D		4
20	20	1	C2017-1426-1-A	-	1.0000	020F2001.D		4
21	21	1	C2017-1426-1-B	-	1.0000	021F2101.D		4
22	22	1	C2017-1437-1-A	-	1.0000	022F2201.D		4
23	23	1	C2017-1437-1-B	-	1.0000	023F2301.D		4
24	24	1	P2017-1578-1-A	-	1.0000	024F2401.D		2
25	25	1	P2017-1578-1-B	-	1.0000	025F2501.D		2
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	C2017-1447-1-A	-	1.0000	028F2801.D		4
29	29	1	C2017-1447-1-B	-	1.0000	029F2901.D		4
30	30	1	ISTD BLANK	-	1.0000	030F3001.D		2
31	31	1	DFE LOT# 11-4-10	-	1.0000	031F3101.D		2
32	32	1	ISTD BLANK	-	1.0000	032F3201.D		2
33	33	1	water	-	1.0000	033F3301.D		0

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

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS\_21.07.2017\_10.36.18\7-21-17cal.S  
 Data directory path: C:\Chem32\1\Data\7-21-17calJJ  
 Logbook: C:\Chem32\1\Data\7-21-17calJJ\7-21-17cal.LOG  
 Sequence start: 7/21/2017 10:50:02 AM  
 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

=====  
Calibration Table  
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General Calibration Setting  
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Calib. Data Modified : Friday, July 21, 2017 12:38:52 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

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Signal Details  
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Signal 1: FID1 A, Front Signal  
Signal 2: FID2 B, Back Signal  
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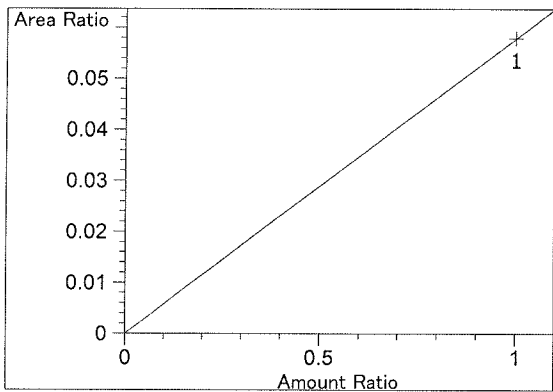
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Overview Table  
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RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD #	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No 2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No 1	Difluoroethane
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
3.101	1	1	5.00000e-2	8.32862	6.00340e-3	No	No 1	Ethanol
		2	1.00000e-1	16.58092	6.03103e-3			
		3	2.00000e-1	34.15747	5.85524e-3			
		4	3.00000e-1	50.29171	5.96520e-3			
		5	5.00000e-1	84.51135	5.91636e-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	8.22962	6.07562e-3	No	No 2	Ethanol
		2	1.00000e-1	16.39296	6.10018e-3			
		3	2.00000e-1	33.78112	5.92047e-3			
		4	3.00000e-1	49.86386	6.01638e-3			
		5	5.00000e-1	84.01155	5.95156e-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
4.930	1	1	1.00000	87.30223	1.14545e-2	No	Yes 1	n-Propanol
		2	1.00000	86.96437	1.14990e-2			
		3	1.00000	89.35571	1.11912e-2			
		4	1.00000	87.18389	1.14700e-2			
		5	1.00000	87.94524	1.13707e-2			
7.602	2	1	1.00000	86.40442	1.15735e-2	No	Yes 2	n-Propanol
		2	1.00000	85.77085	1.16590e-2			
		3	1.00000	87.72509	1.13992e-2			
		4	1.00000	85.35954	1.17152e-2			
		5	1.00000	85.99250	1.16289e-2			

Peak Sum Table

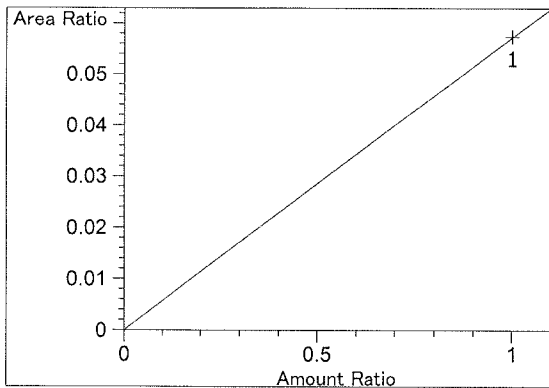
\*\*\*No Entries in table\*\*\*

Calibration Curves

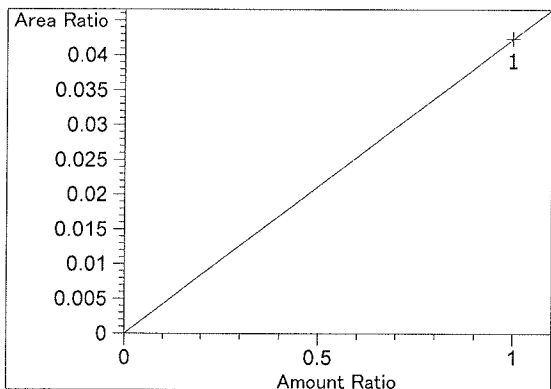


Difluoroethane at exp. RT: 2.000  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 5.78674e-2  
 x: Amount Ratio  
 y: Area Ratio

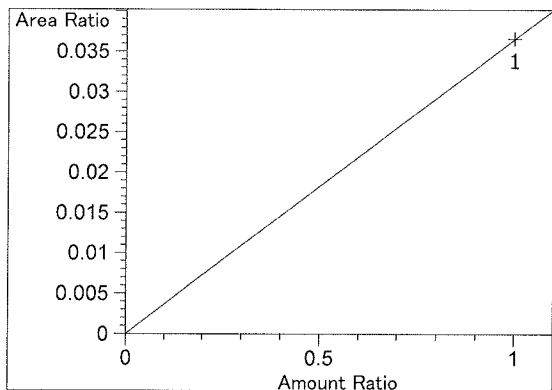
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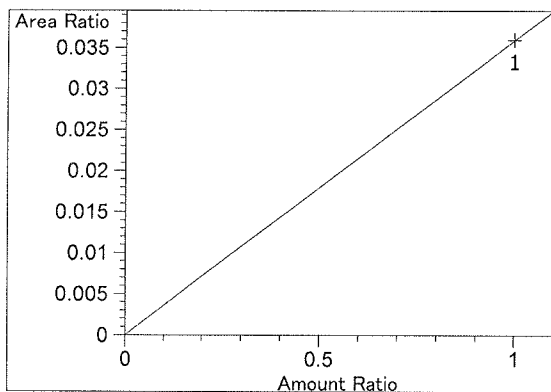
Difluoroethane at exp. RT: 2.000  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $5.72723e-2$   
x: Amount Ratio  
y: Area Ratio



Methanol at exp. RT: 2.494  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $4.23436e-2$   
x: Amount Ratio  
y: Area Ratio

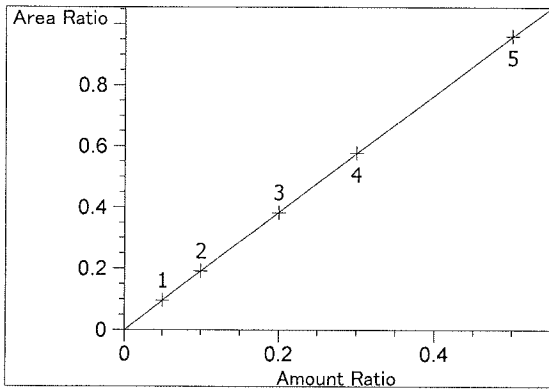


Acetaldehyde at exp. RT: 2.772  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $3.65754e-2$   
x: Amount Ratio  
y: Area Ratio

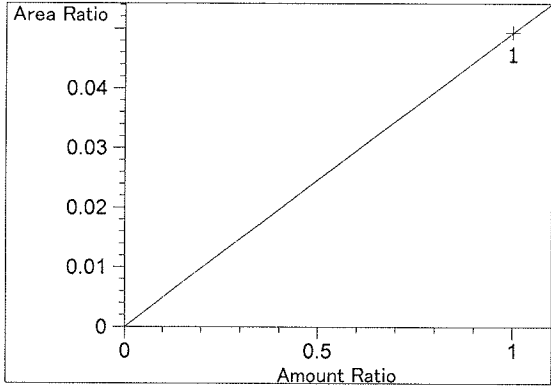


Acetaldehyde at exp. RT: 2.797  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m:  $3.59443e-2$   
x: Amount Ratio  
y: Area Ratio

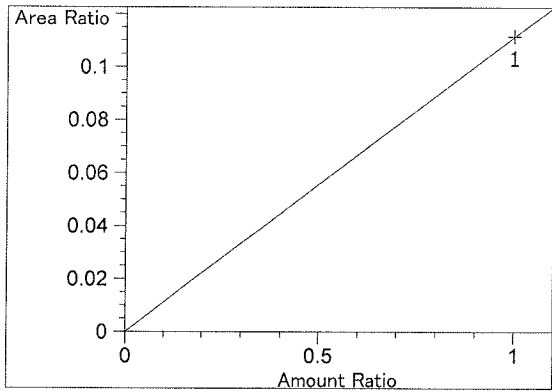
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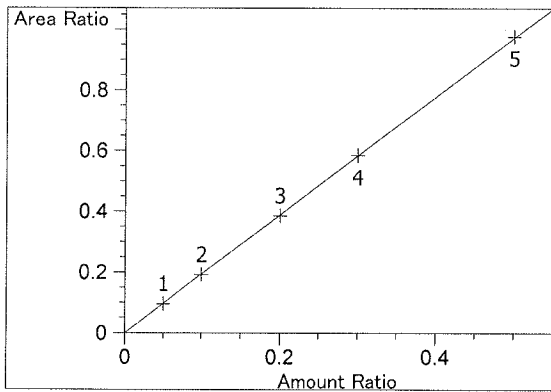
Ethanol at exp. RT: 3.101  
 FID1 A, Front Signal  
 Correlation: 1.00000 ✓  
 Residual Std. Dev.: 0.00129  
 Formula:  $y = mx$   
 m: 1.92056  
 x: Amount Ratio  
 y: Area Ratio



Methanol at exp. RT: 3.211  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 4.93103e-2  
 x: Amount Ratio  
 y: Area Ratio



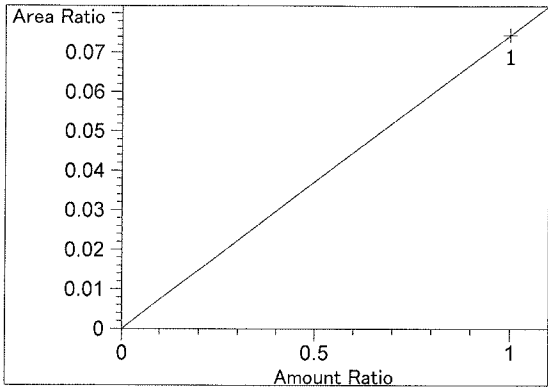
Isopropyl alcohol at exp. RT: 3.715  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx$   
 m: 1.11458e-1  
 x: Amount Ratio  
 y: Area Ratio



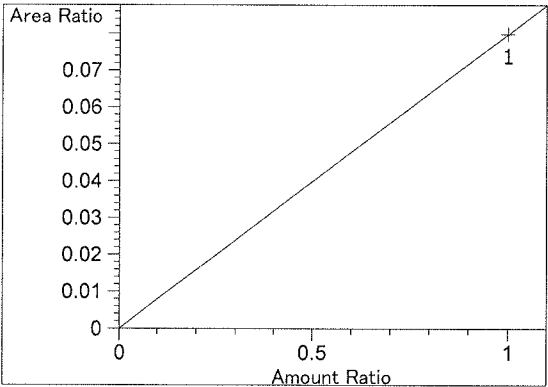
Ethanol at exp. RT: 4.171  
 FID2 B, Back Signal  
 Correlation: 0.99998 ✓  
 Residual Std. Dev.: 0.00344  
 Formula:  $y = mx$   
 m: 1.94808  
 x: Amount Ratio  
 y: Area Ratio

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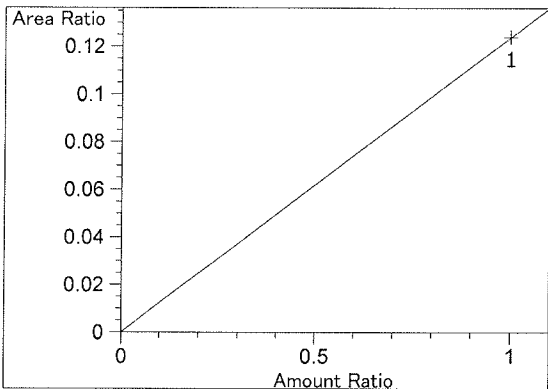




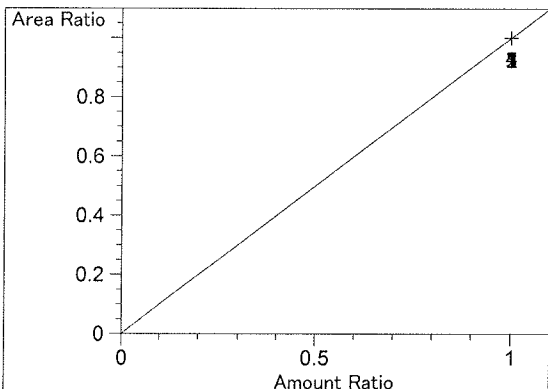
Acetone at exp. RT: 4.530  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 7.44471e-2  
x: Amount Ratio  
y: Area Ratio



Acetone at exp. RT: 4.549  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 7.97761e-2  
x: Amount Ratio  
y: Area Ratio

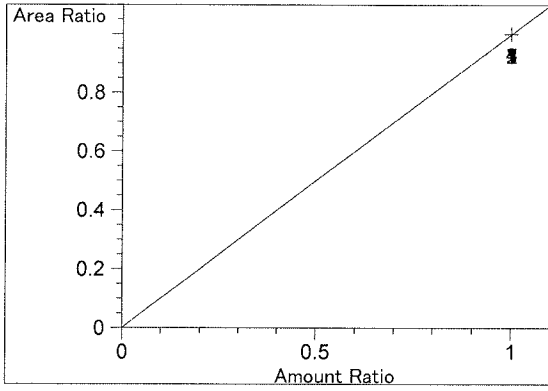


Isopropyl alcohol at exp. RT: 4.870  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.23911e-1  
x: Amount Ratio  
y: Area Ratio



n-Propanol at exp. RT: 4.930  
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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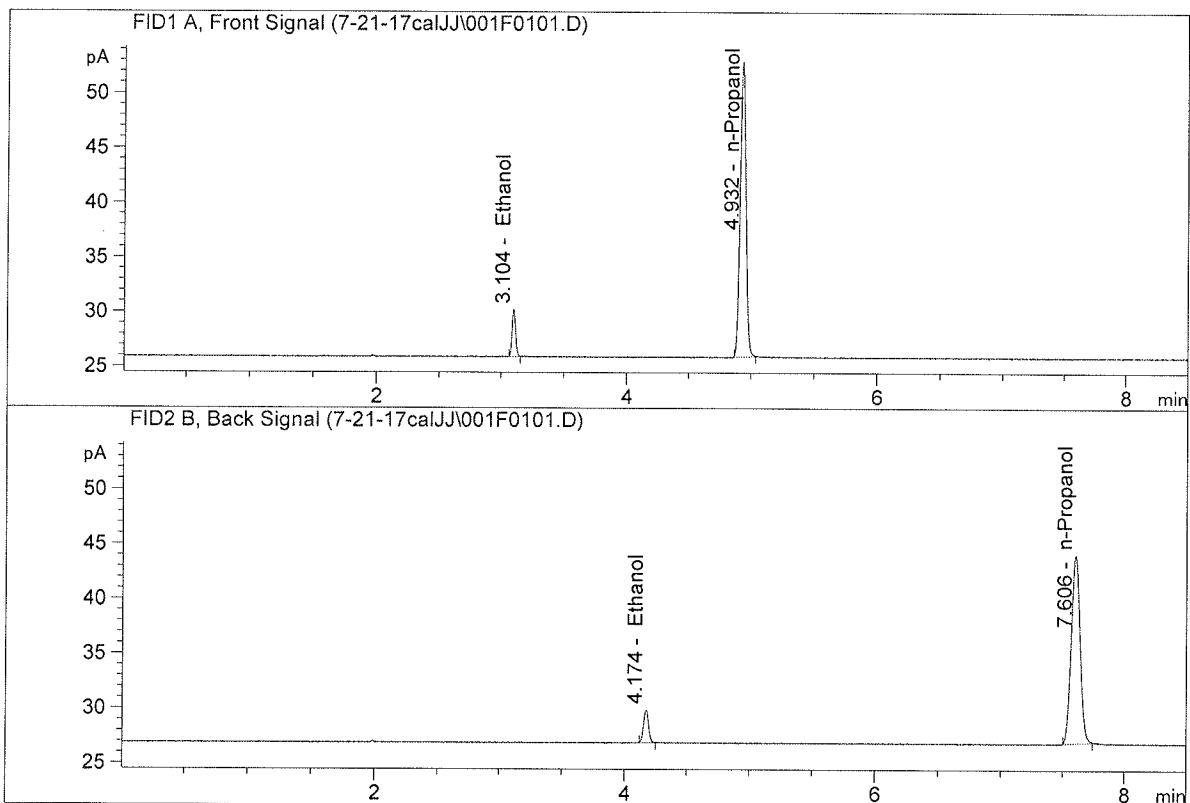
n-Propanol at exp. RT: 7.602  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx$   
m: 1.00000  
x: Amount Ratio  
y: Area Ratio

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

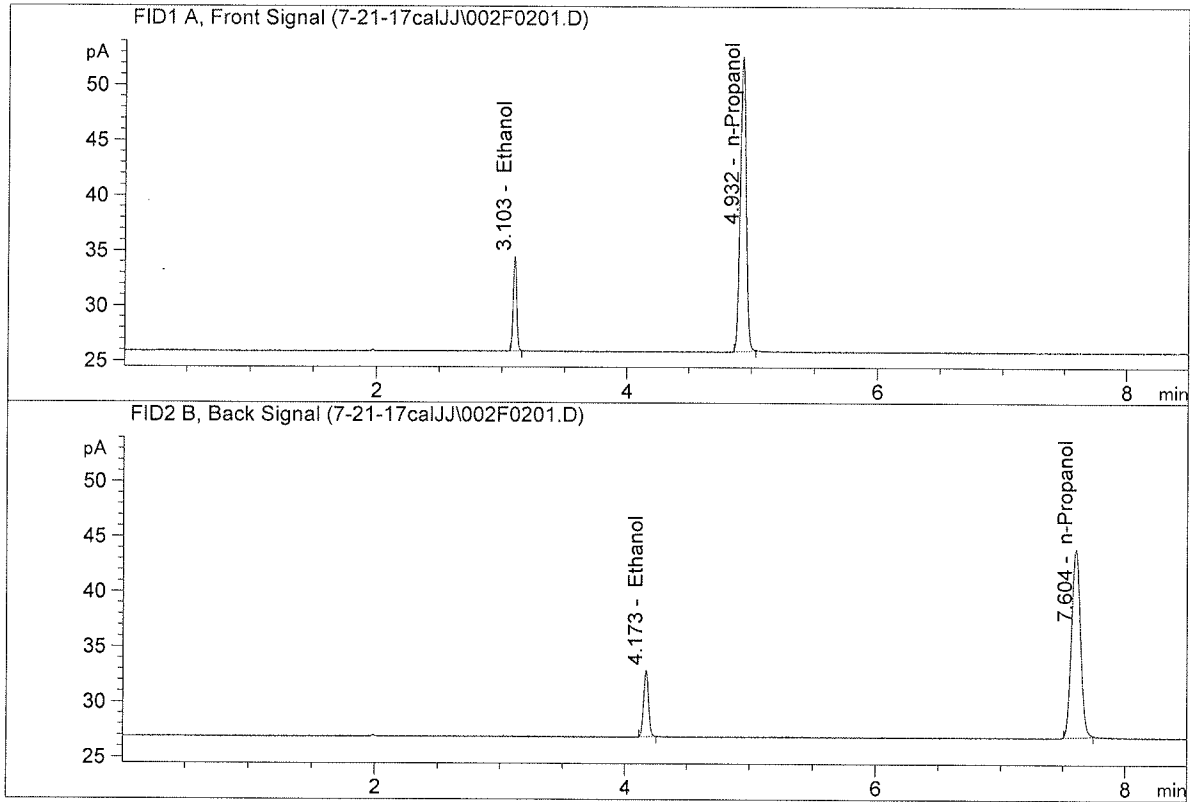


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.32862	0.0497	g/100cc
2.	Ethanol	Column 2:	8.22962	0.0489	g/100cc
3.	n-Propanol	Column 1:	87.30223	1.0000	g/100cc
4.	n-Propanol	Column 2:	86.40442	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

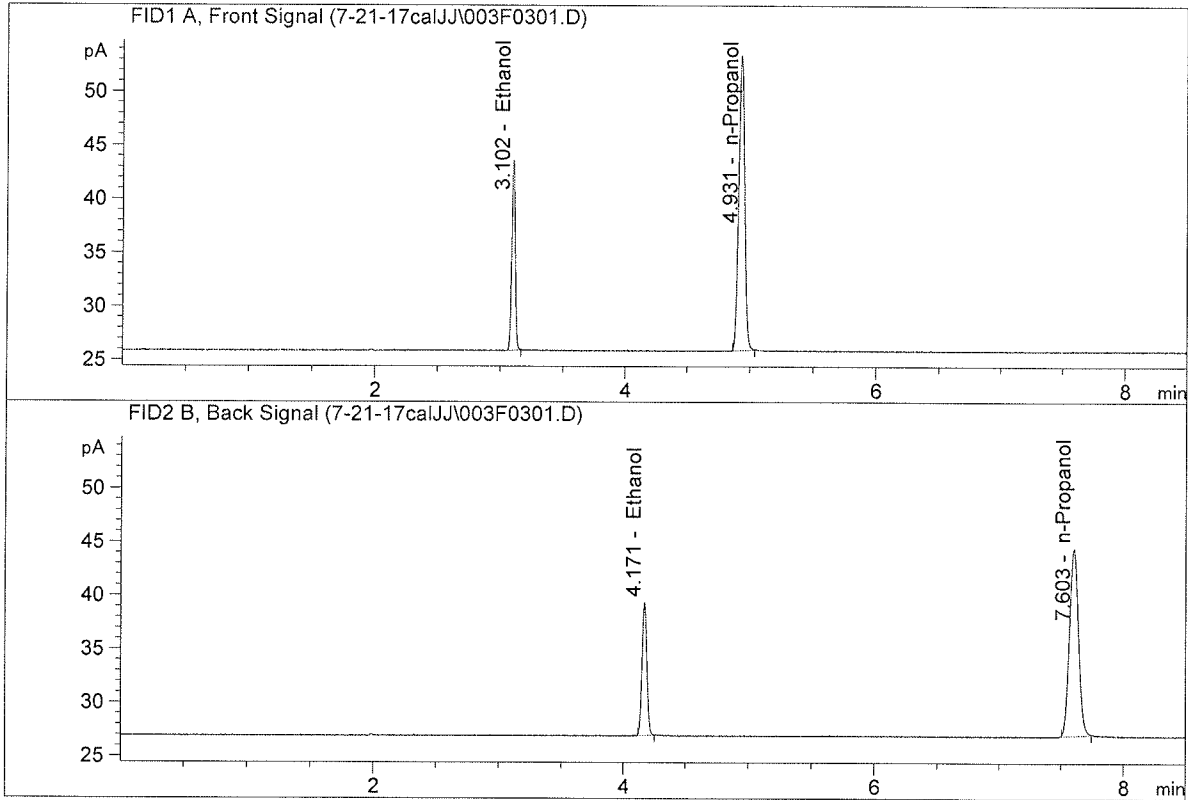


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.58092	0.0993	g/100cc
2.	Ethanol	Column 2:	16.39296	0.0981	g/100cc
3.	n-Propanol	Column 1:	86.96437	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.77085	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

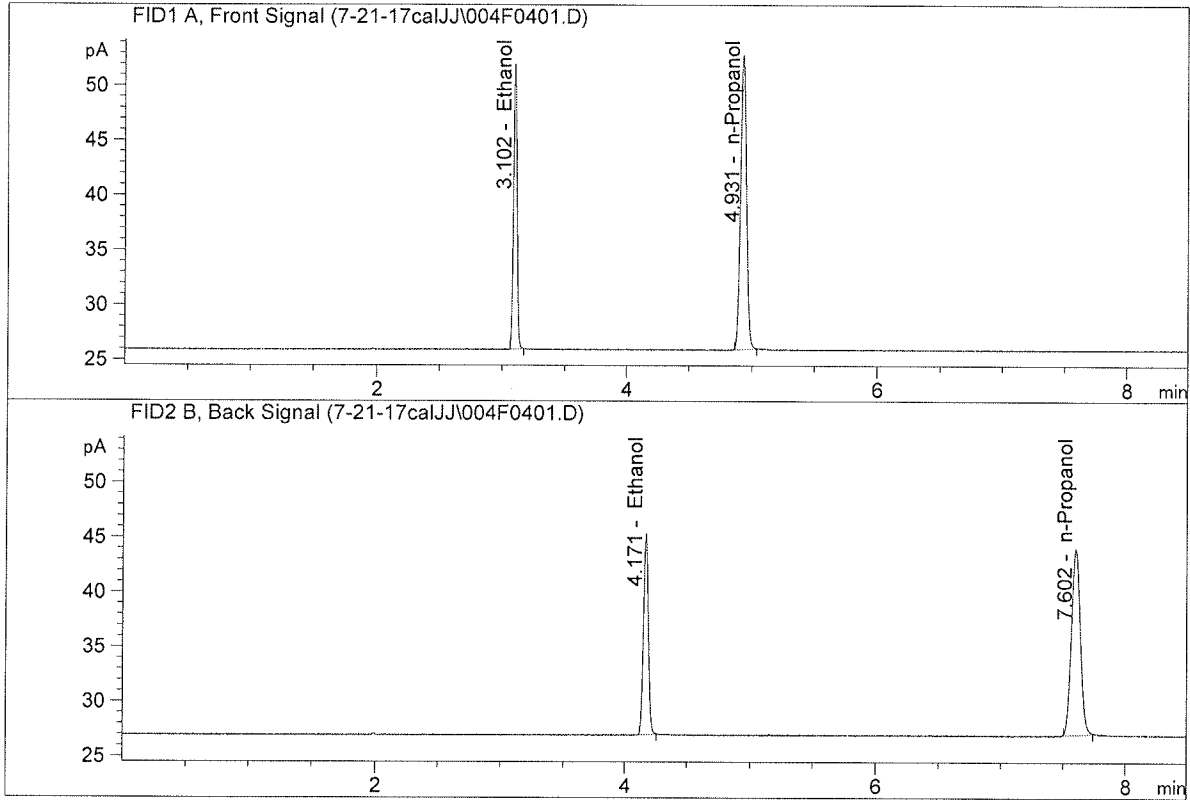
Sample Name : 0.200  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.15747	0.1990	g/100cc
2.	Ethanol	Column 2:	33.78112	0.1977	g/100cc
3.	n-Propanol	Column 1:	89.35571	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.72509	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

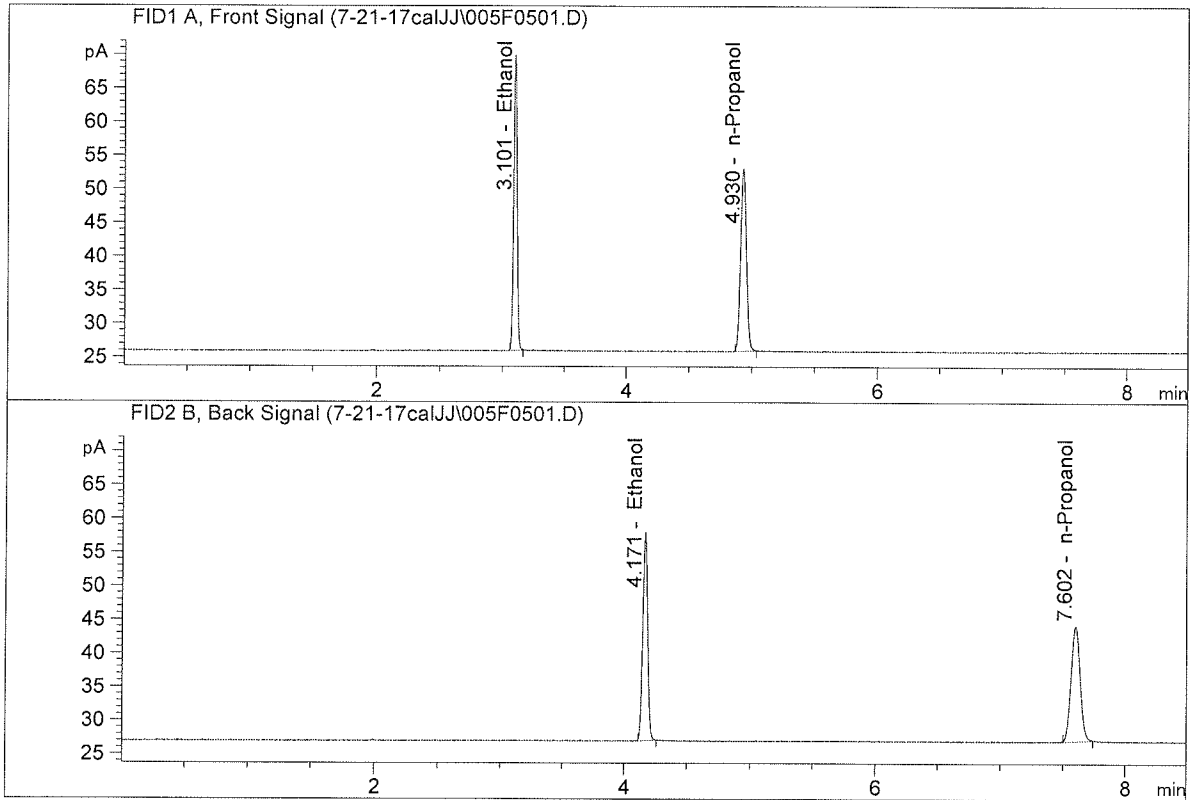


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	50.29171	0.3004	g/100cc
2.	Ethanol	Column 2:	49.86386	0.2999	g/100cc
3.	n-Propanol	Column 1:	87.18389	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.35954	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

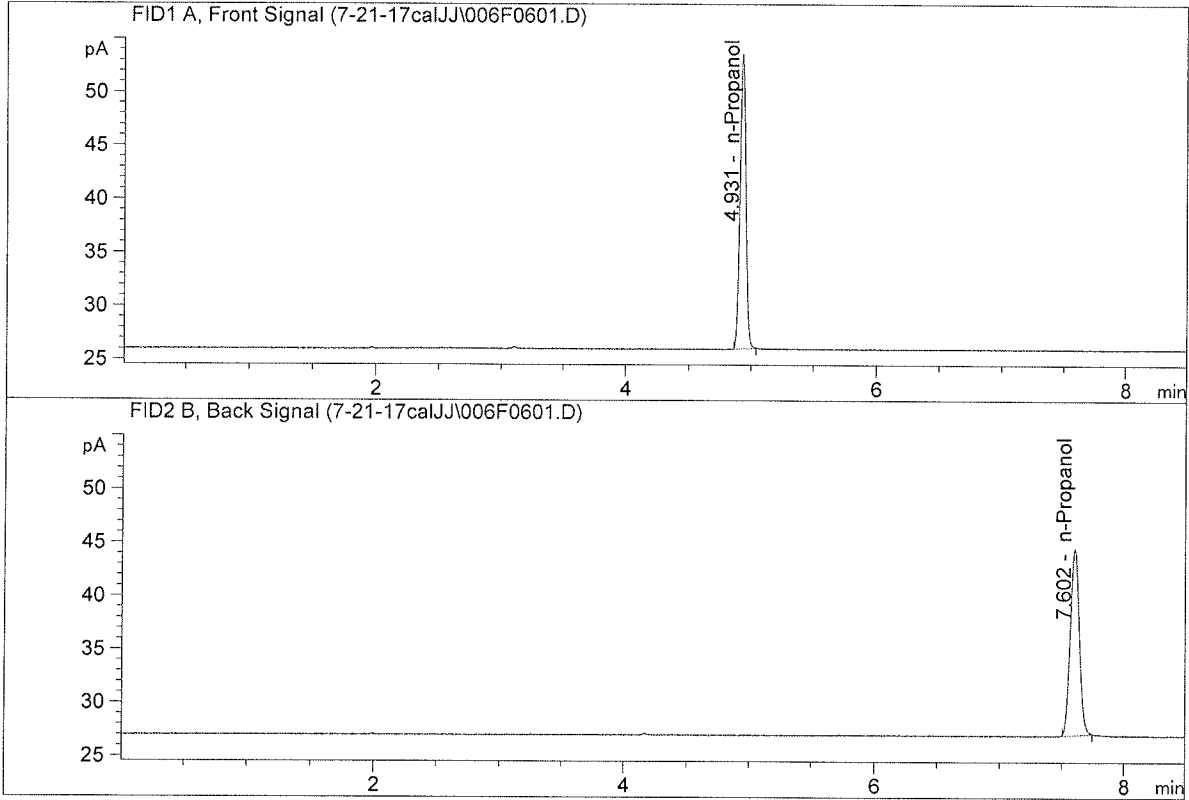


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	84.51135	0.5004	g/100cc
2.	Ethanol	Column 2:	84.01155	0.5015	g/100cc
3.	n-Propanol	Column 1:	87.94524	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.99250	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : blank  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



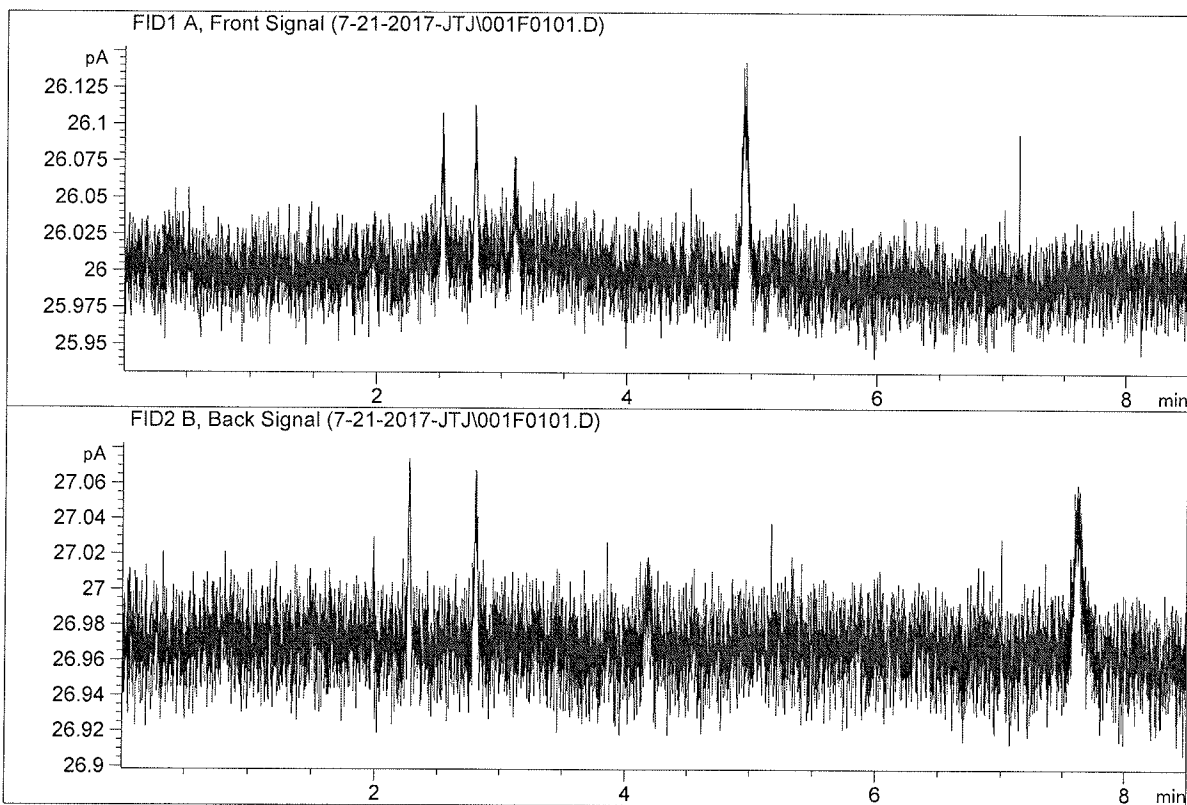
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	89.67820	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.06882	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : water  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

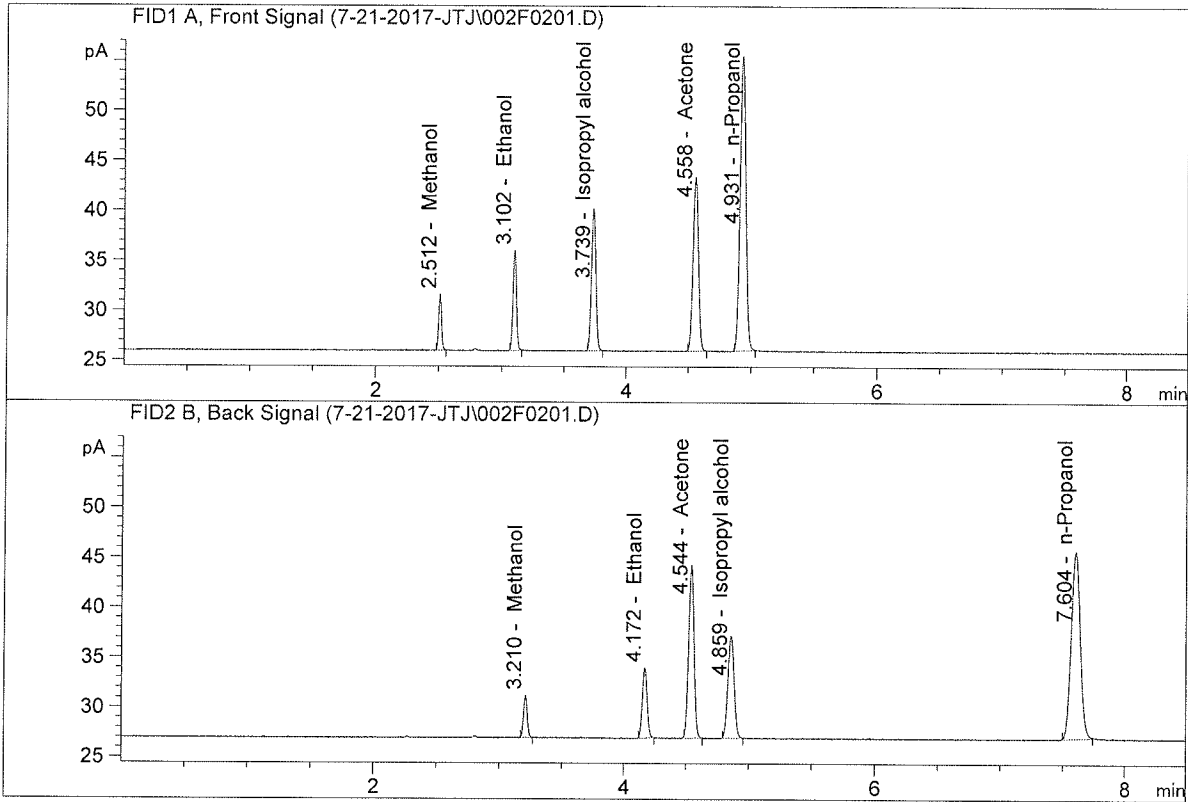


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : VOL MIX FN-06041502  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

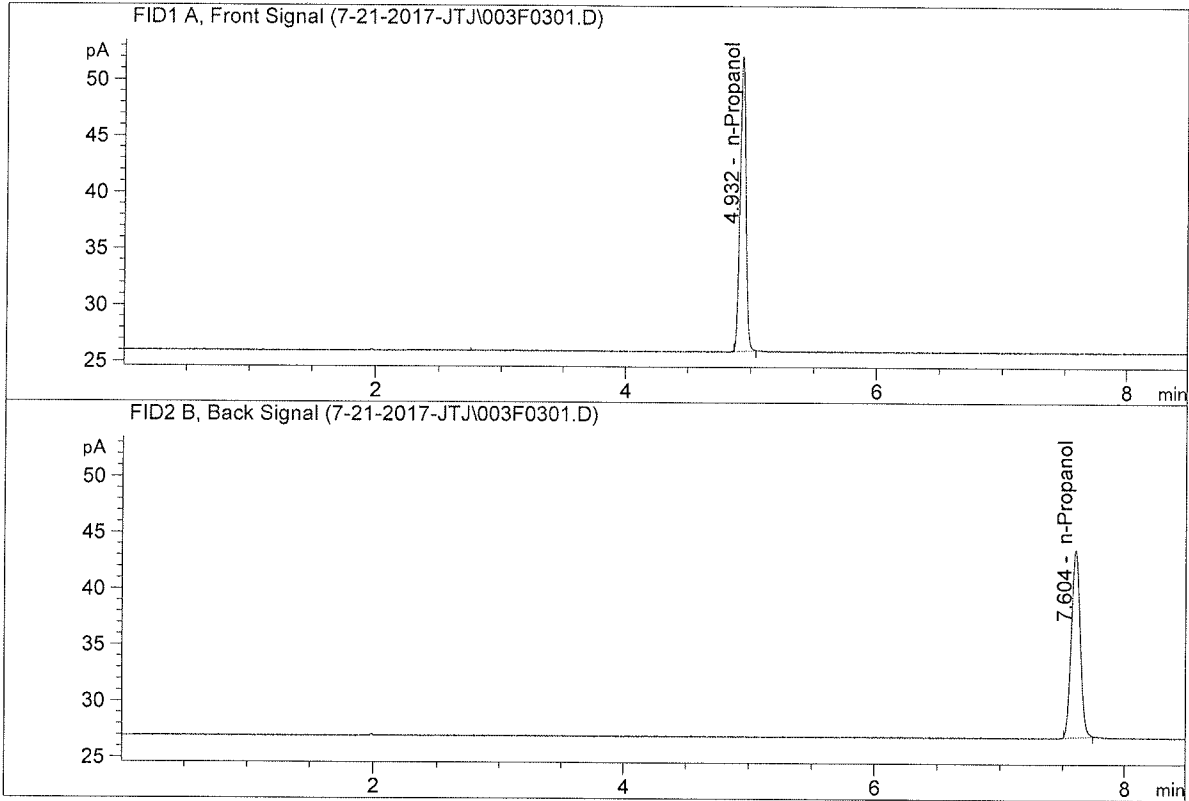


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.36101	0.1051	g/100cc
2.	Ethanol	Column 2:	19.18340	0.1045	g/100cc
3.	n-Propanol	Column 1:	95.87943	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.25428	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 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:	85.16824	1.0000	g/100cc
4.	n-Propanol	Column 2:	83.62871	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1

Analysis Date(s): 21 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0766	0.0758	0.0008	0.0762	0.0765	
(g/100cc)	0.0772	0.0765	0.0007	0.0768		

### 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
0.076	0.072	0.080	0.004

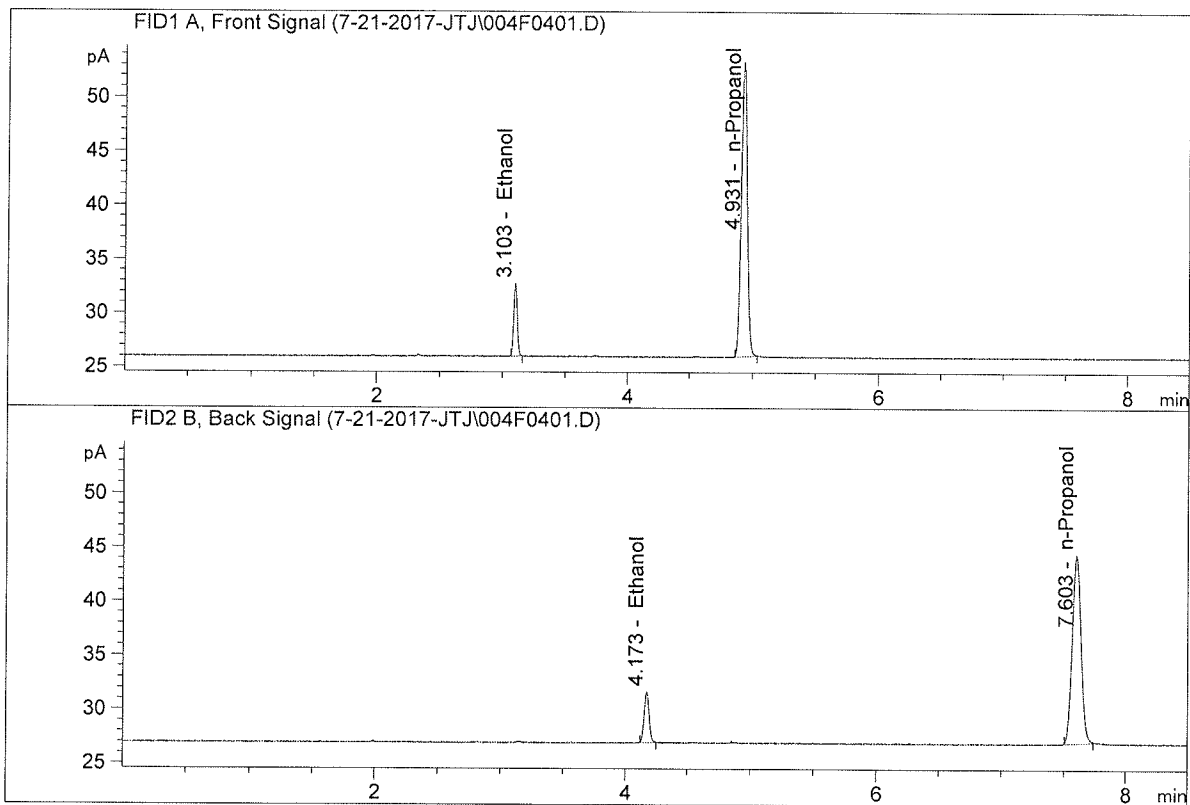
	<b>Reported Result</b>	
	0.076	

*Calibration and control data are stored centrally.*

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ISP Forensic Services Blood Alcohol Report

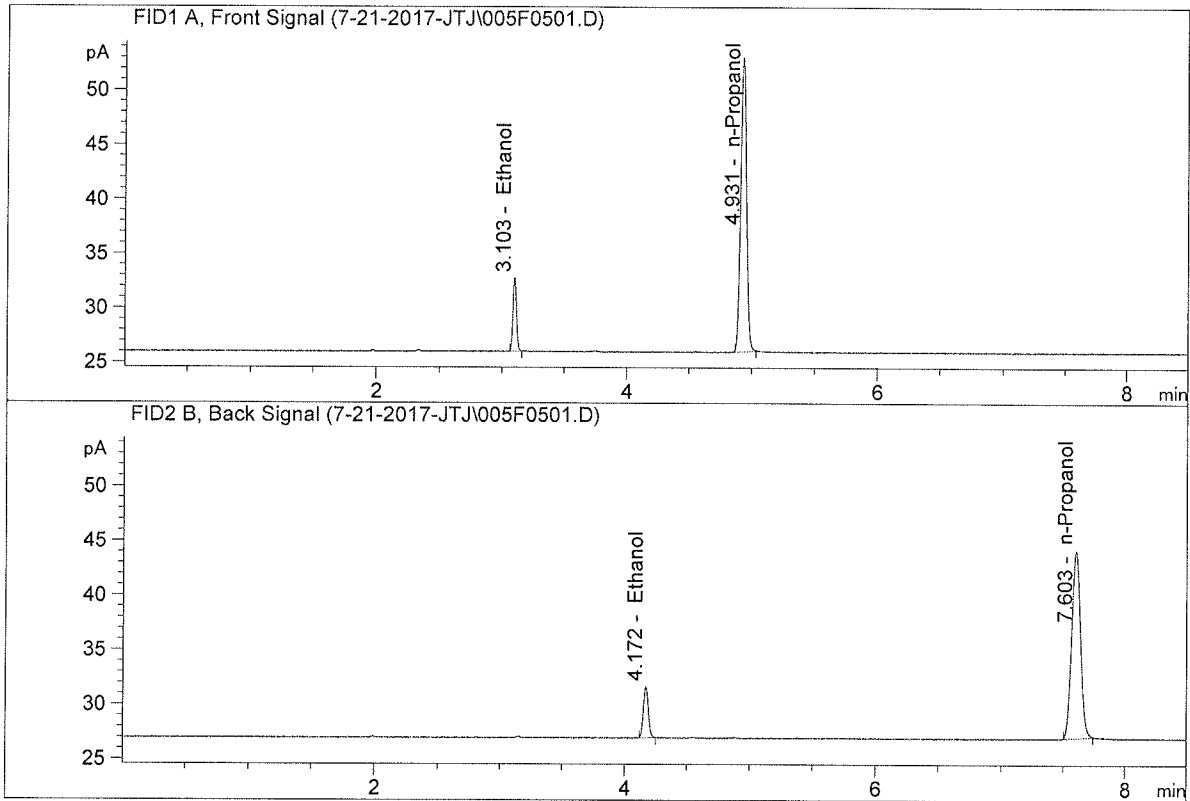
Sample Name : QC-1-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.06511	0.0766	g/100cc
2.	Ethanol	Column 2:	12.85332	0.0758	g/100cc
3.	n-Propanol	Column 1:	88.75256	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.00805	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.02998	0.0772	g/100cc
2.	Ethanol	Column 2:	12.84945	0.0765	g/100cc
3.	n-Propanol	Column 1:	87.87553	1.0000	g/100cc
4.	n-Propanol	Column 2:	86.16760	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304

Analysis Date(s): 21 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0810	0.0800	0.0010	0.0805	0.0800	
(g/100cc)	0.0799	0.0791	0.0008	0.0795		

### 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

	<b>Reported Result</b>	
	0.080	

*Calibration and control data are stored centrally.*

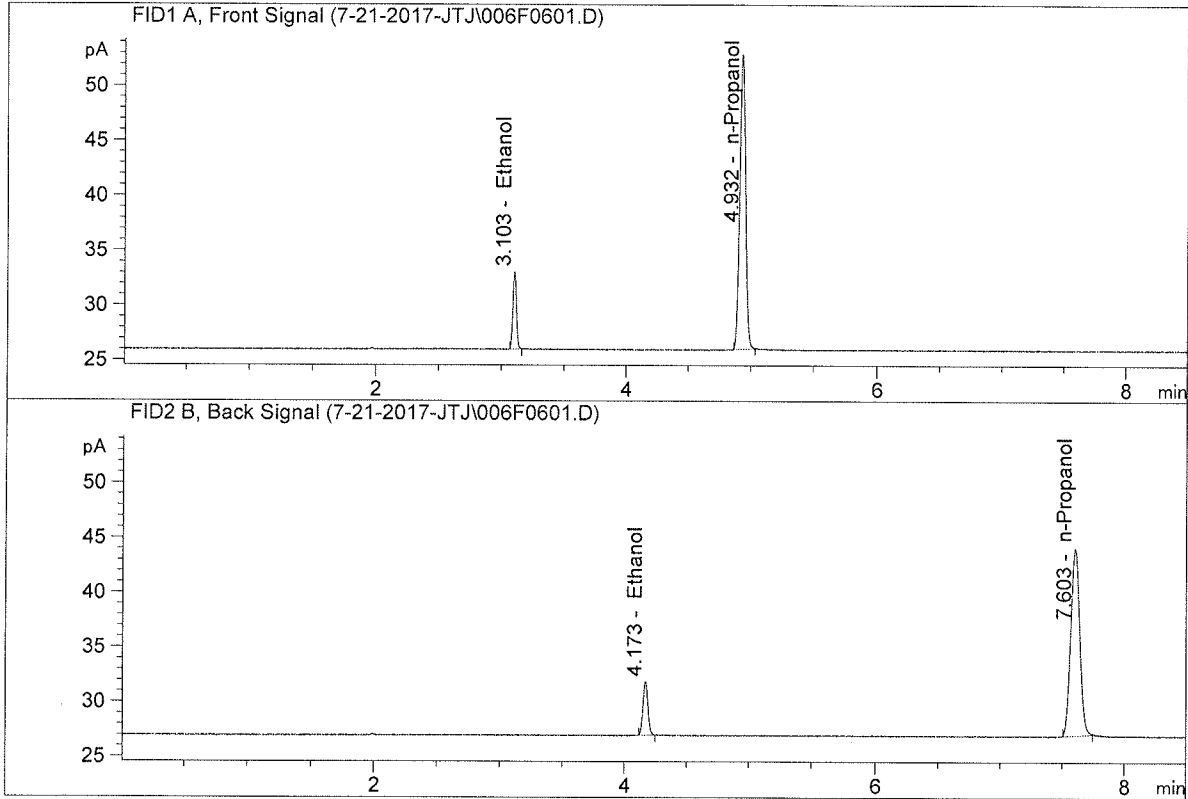
Issued: 01/16/2014

Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



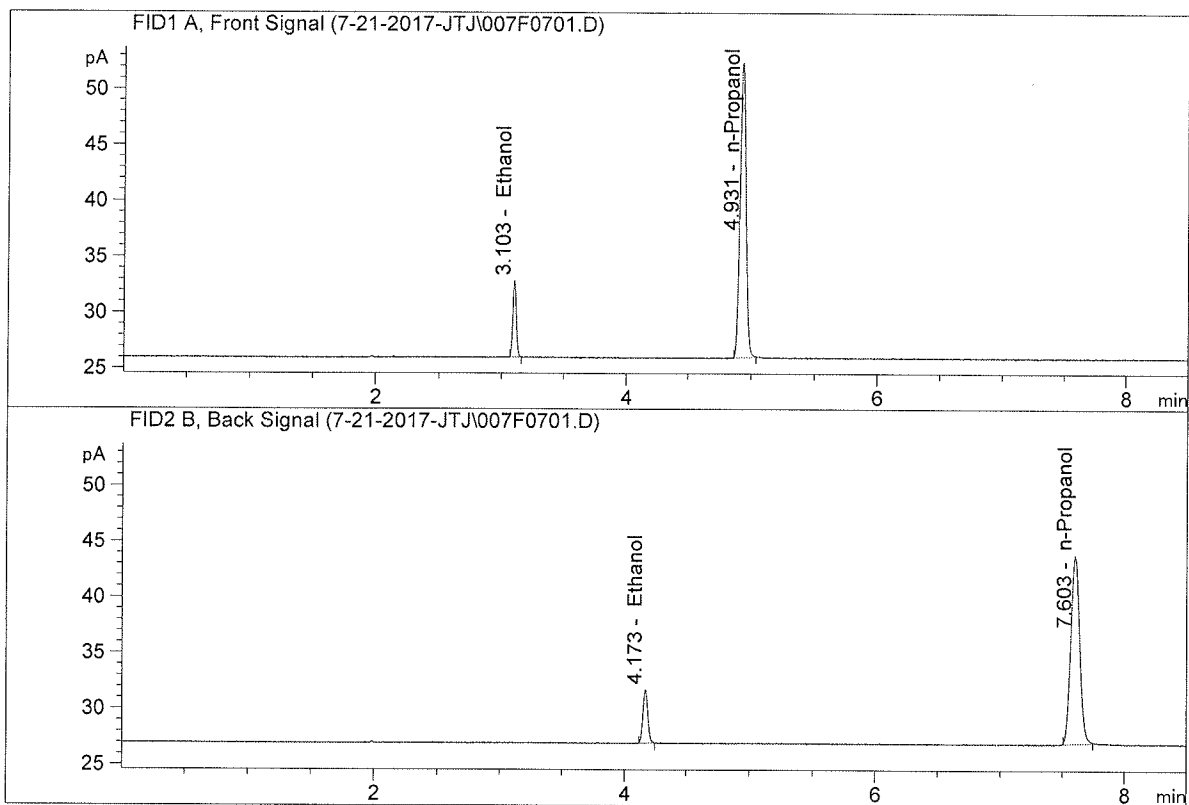
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.59693	0.0810	g/100cc
2.	Ethanol	Column 2:	13.38019	0.0800	g/100cc
3.	n-Propanol	Column 1:	87.41096	1.0000	g/100cc
4.	n-Propanol	Column 2:	85.84507	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.18458	0.0799	g/100cc
2.	Ethanol	Column 2:	13.01930	0.0791	g/100cc
3.	n-Propanol	Column 1:	85.92537	1.0000	g/100cc
4.	n-Propanol	Column 2:	84.44354	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2

Analysis Date(s): 21 Jul 2017

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1972	0.1971	0.0001	0.1971	0.1972	
(g/100cc)	0.1977	0.1969	0.0008	0.1973		

### 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
0.197	0.187	0.207	0.010

	Reported Result	
	0.197	

*Calibration and control data are stored centrally.*

Issued: 01/16/2014

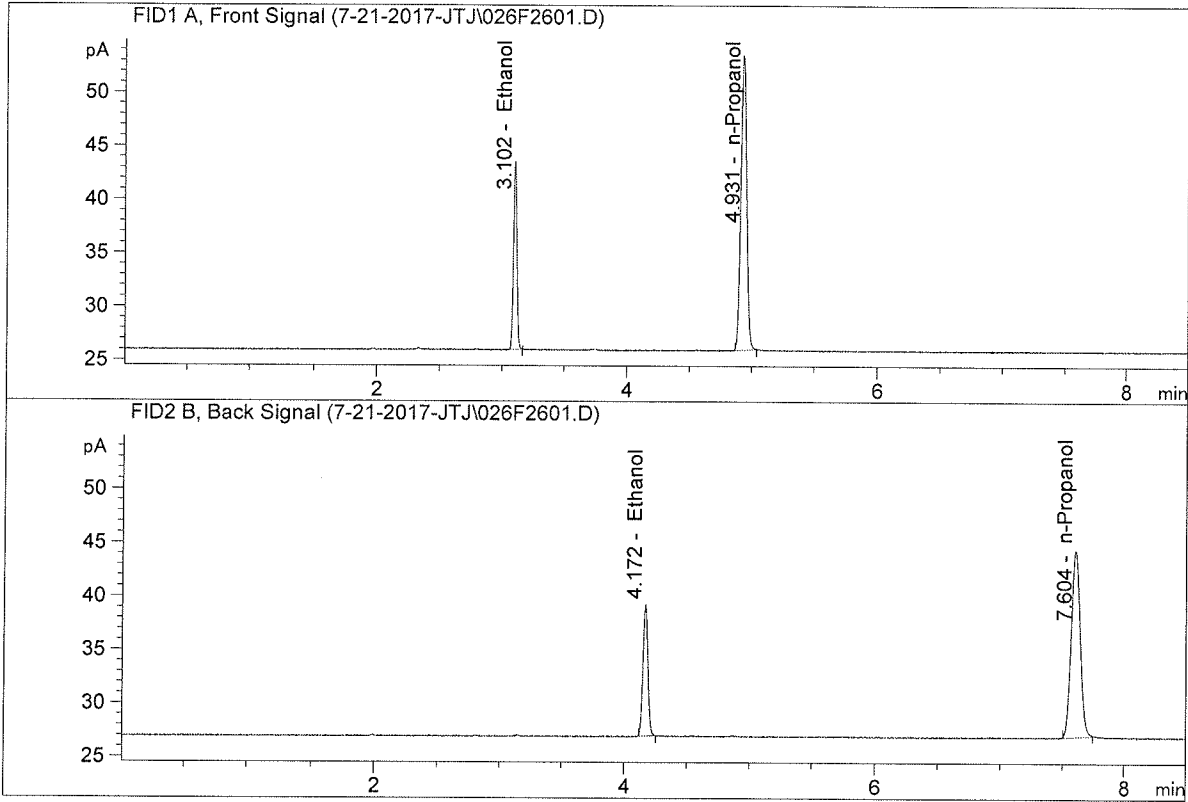
Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

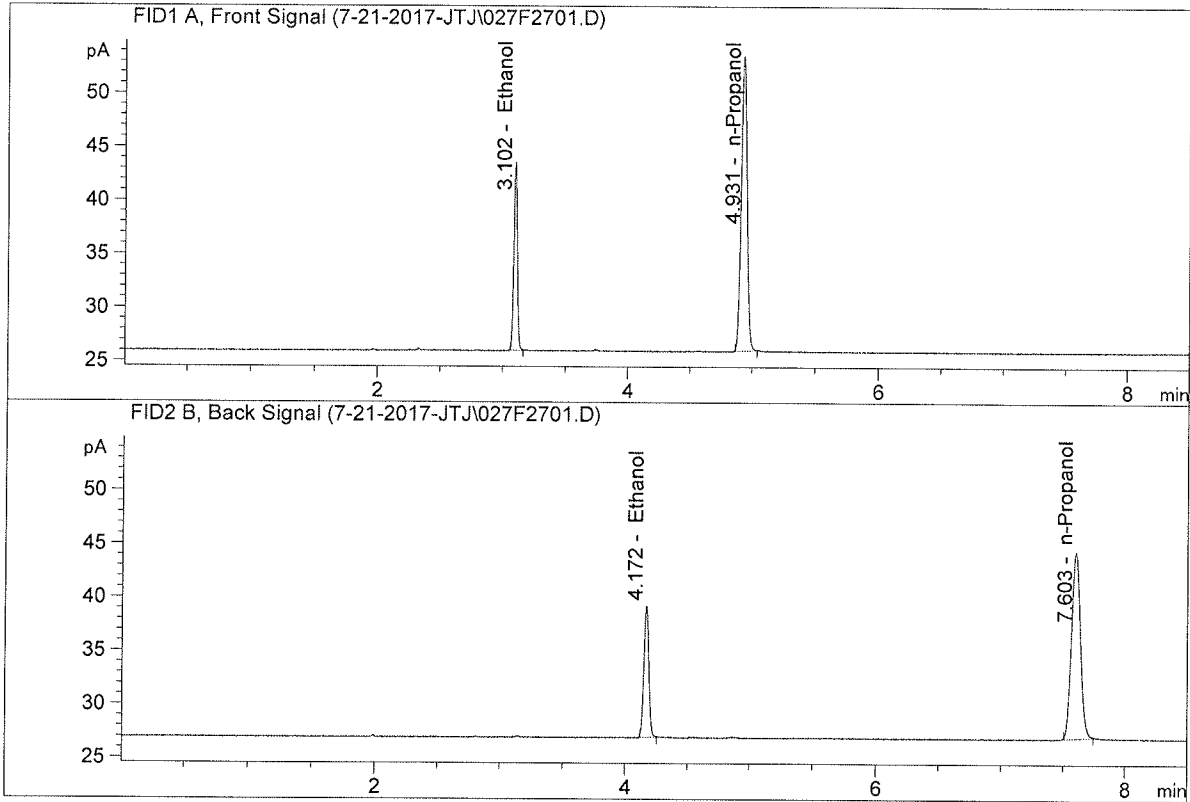


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	33.90275	0.1972	g/100cc
2.	Ethanol	Column 2:	33.61662	0.1971	g/100cc
3.	n-Propanol	Column 1:	89.49812	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.56460	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

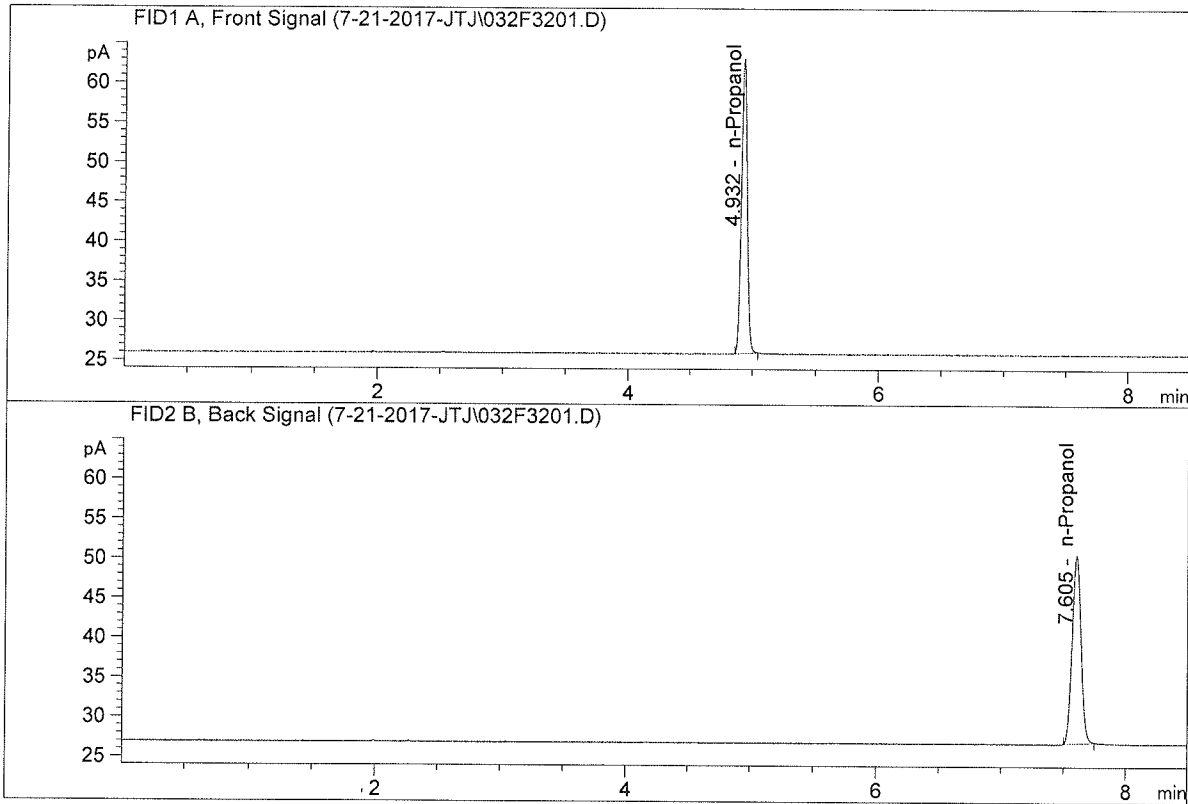


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.01960	0.1977	g/100cc
2.	Ethanol	Column 2:	33.64003	0.1969	g/100cc
3.	n-Propanol	Column 1:	89.59295	1.0000	g/100cc
4.	n-Propanol	Column 2:	87.69039	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 2017  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

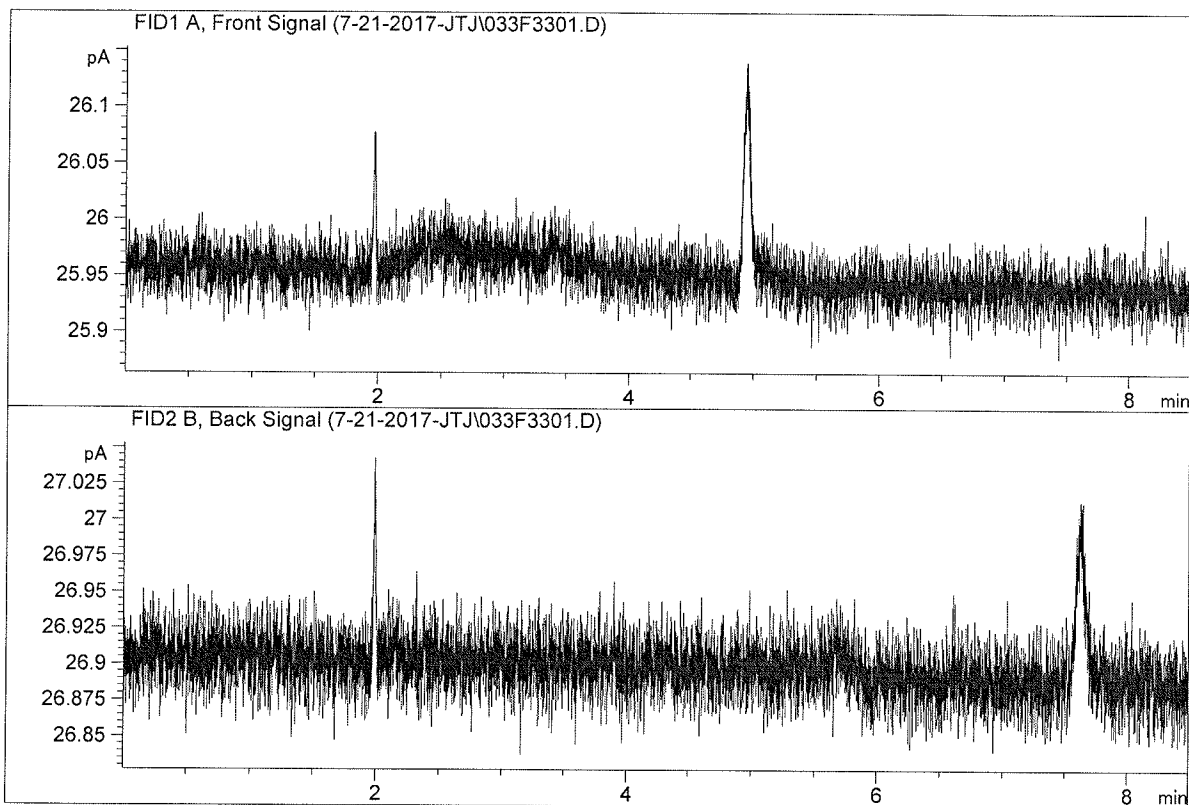


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	120.75033	1.0000	g/100cc
4.	n-Propanol	Column 2:	119.11451	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : water  
 Laboratory : Coeur d' Alene  
 Injection Date : Jul 21, 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

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