Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD-96GF641

Volatiles Quality Assurance Controls **Run Date(s): 3/9/2017**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0758 g/100cc
					0.0772 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	0.1966 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Sep-20**	**Lot #**	FN06041502		OK
Curve Fit:		**Column 1**	0.99998	**Column2**	0.99997

Ethanol Calibration Reference Material								
Calibrator level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Column 1**	**Column 2**	**Precision**	**Mean**
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0493	0.0487	0.0006	0.049
0.080							0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.0997	0.0984	0.0013	0.099
0.200	Mar-17	FN032712-01	0.200	0.180 - 0.220	0.1973	0.1965	0.0008	0.1969
0.300	Oct-18	FN09061305	0.300	0.270 - 0.330	0.3023	0.3018	0.0005	0.302
0.400							0	#DIV/0!
0.500	Jan-18	FN012813-01	0.500	0.450 - 0.550	0.4998	0.5008	0.001	0.5003

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Oct-18	FN09051304	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.

Worklist: 1600

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
C2017-0263	1	76616	Alcohol Analysis
C2017-0272	1	76738	Alcohol Analysis
C2017-0276	1	76835	Alcohol Analysis
C2017-0301	1	77193	Alcohol Analysis
C2017-0307	1	77281	Alcohol Analysis
C2017-0315	1	77312	Alcohol Analysis
C2017-0323	1	77391	Alcohol Analysis
C2017-0327	1	77409	Alcohol Analysis
C2017-0353	1	77679	Alcohol Analysis
C2017-0359	1	77791	Alcohol Analysis
C2017-0360	1	77792	Alcohol Analysis
C2017-0384	1	78325	Alcohol Analysis
C2017-0384	2	78326	Alcohol Analysis
C2017-0384	3	78327	Alcohol Analysis
C2017-0384	4	78328	Alcohol Analysis
C2017-0389	1	78109	Alcohol Analysis
C2017-0390	1	78110	Alcohol Analysis
C2017-0400	1	78377	Alcohol Analysis
C2017-0442	1	78884	Alcohol Analysis

Sample Summary

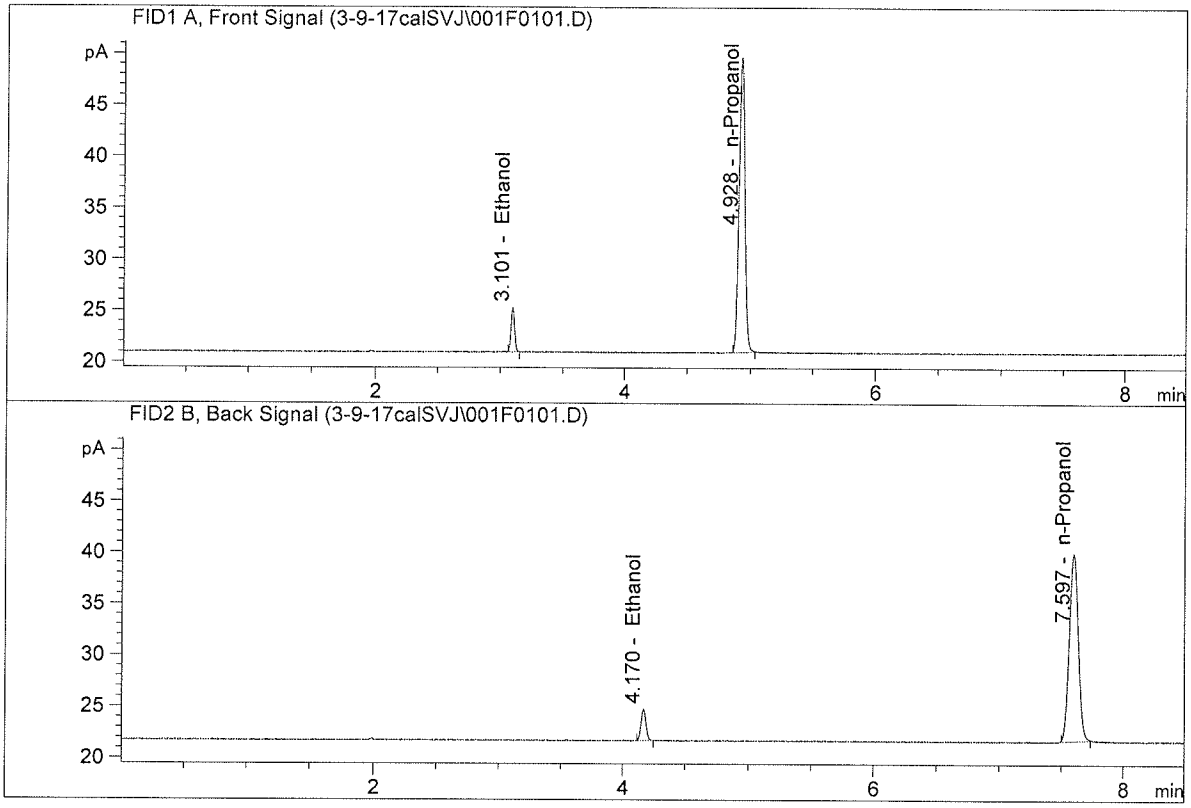
Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_09.03.2017_09.09.37\3-9-17cal.S
Data directory path: C:\Chem32\1\Data\3-9-17calSVJ
Logbook: C:\Chem32\1\Data\3-9-17calSVJ\3-9-17cal.LOG
Sequence start: 3/9/2017 9:23:21 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

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

ISP Forensic Services Blood Alcohol Report

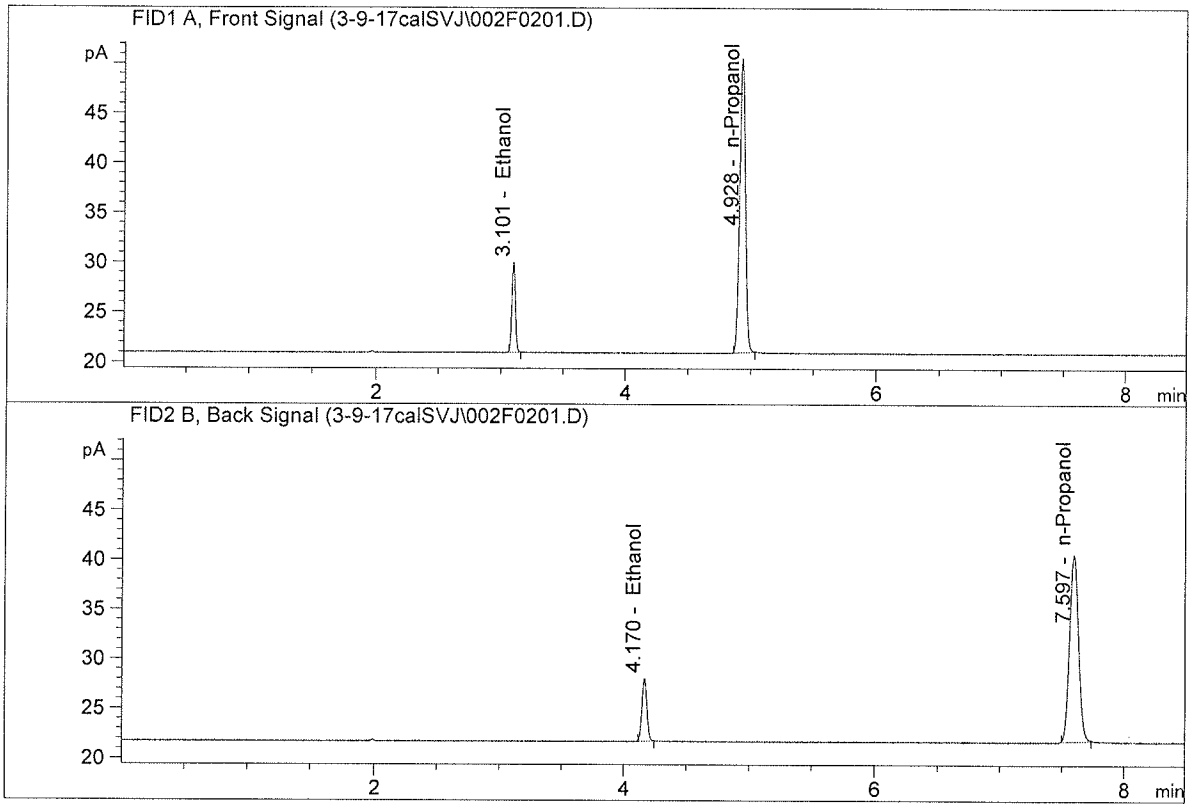
Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.35786	0.0493	g/100cc
2.	Ethanol	Column 2:	8.30184	0.0487	g/100cc
3.	n-Propanol	Column 1:	92.91219	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.99761	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

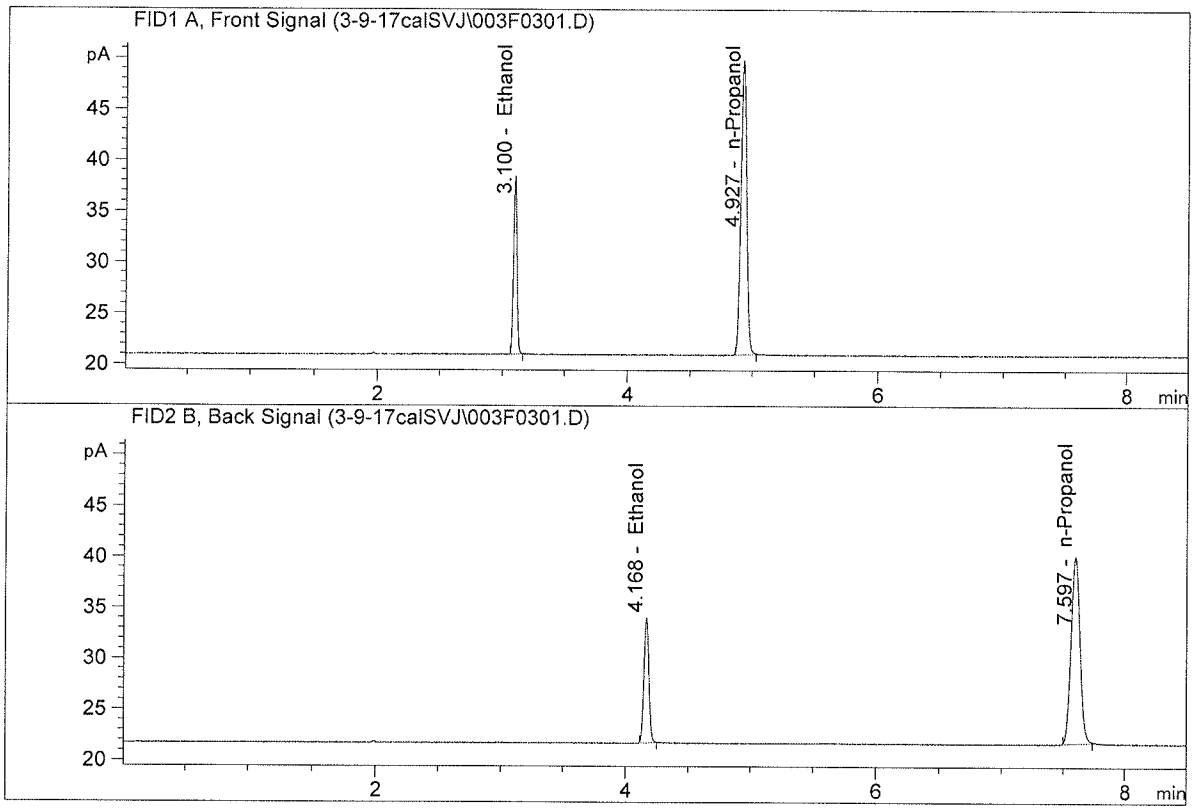
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.42579	0.0997	g/100cc
2.	Ethanol	Column 2:	17.24509	0.0984	g/100cc
3.	n-Propanol	Column 1:	95.76324	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.61198	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

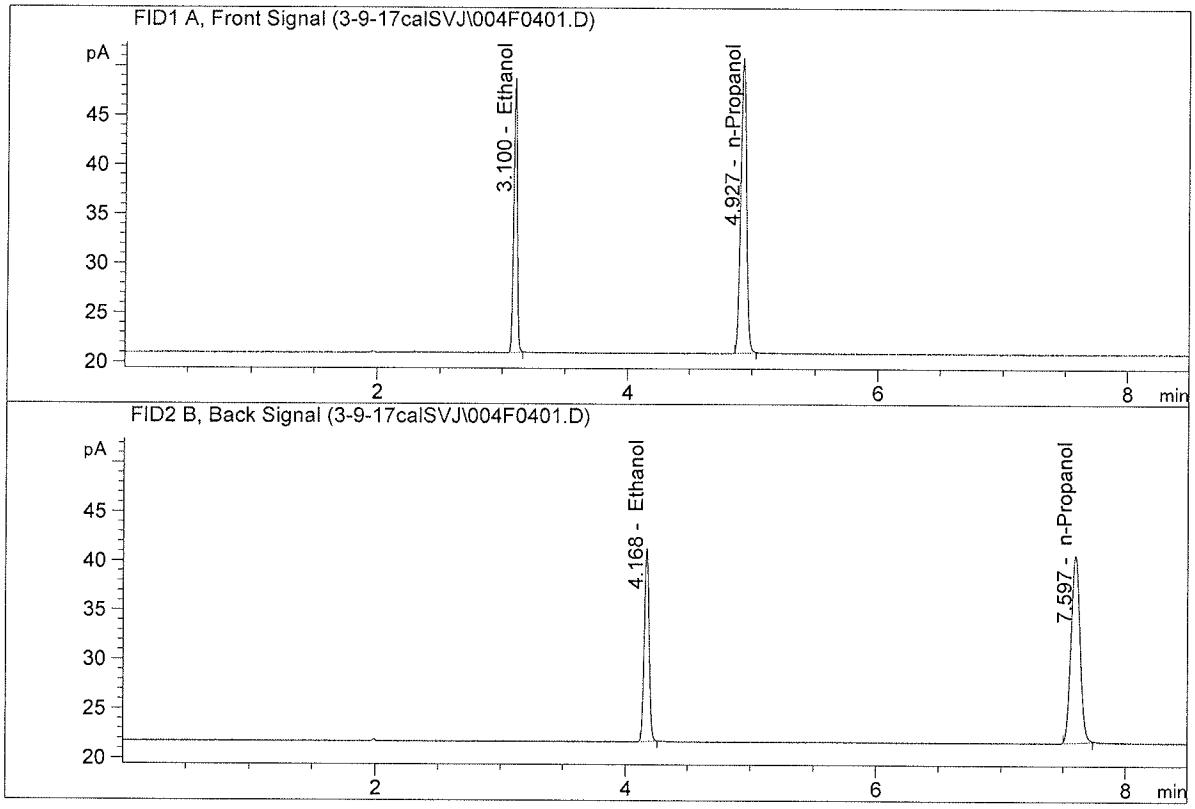
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	33.70343	0.1973	g/100cc
2.	Ethanol	Column 2:	33.51428	0.1965	g/100cc
3.	n-Propanol	Column 1:	93.57263	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.05717	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

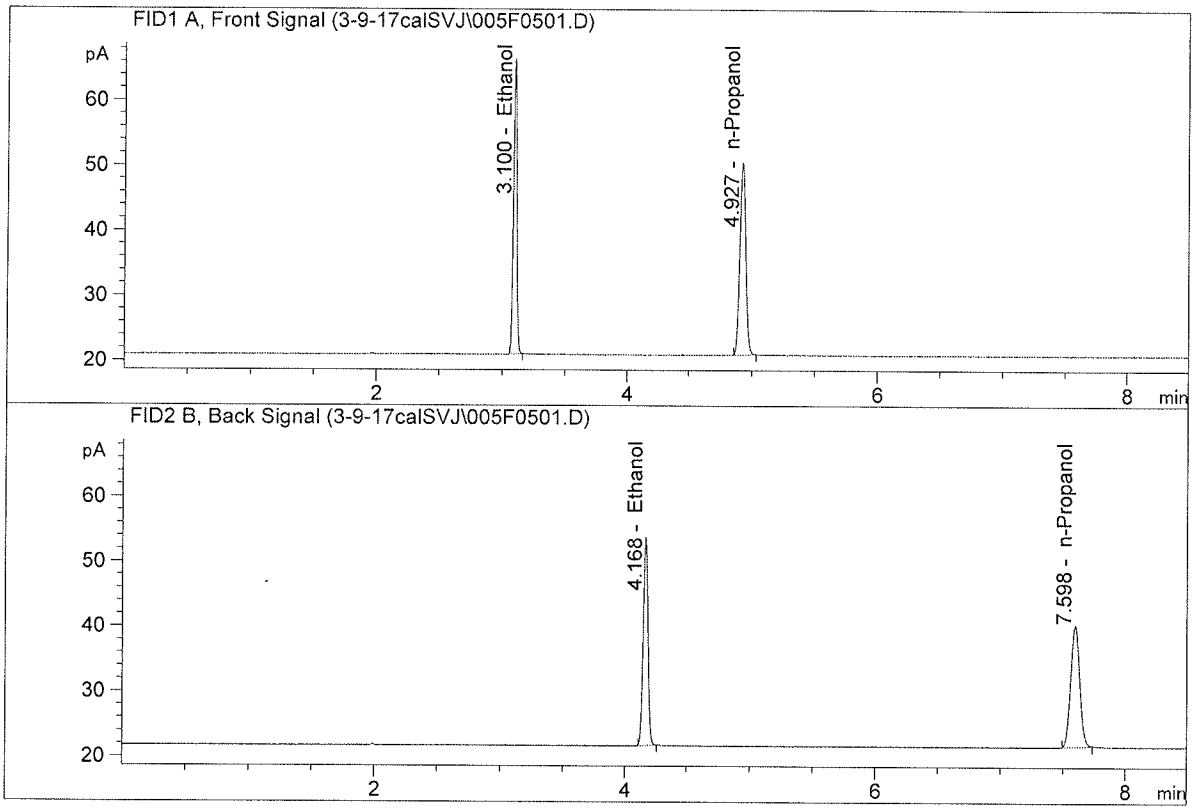
Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	53.49835	0.3023	g/100cc
2.	Ethanol	Column 2:	53.28009	0.3018	g/100cc
3.	n-Propanol	Column 1:	96.92688	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.27699	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

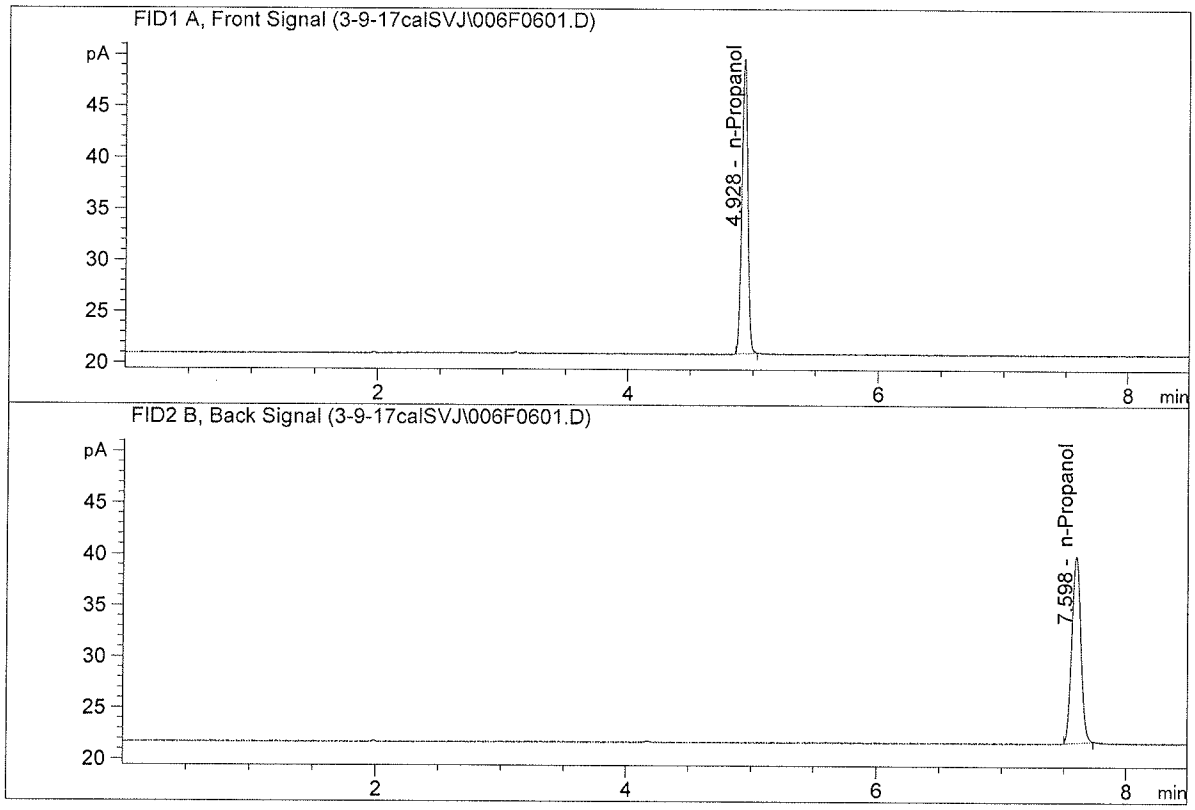
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	87.27737	0.4998	g/100cc
2.	Ethanol	Column 2:	86.99083	0.5008	g/100cc
3.	n-Propanol	Column 1:	95.63321	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.76394	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 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:	93.21706	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.71358	1.0000	g/100cc

Calibration Table

General Calibration Setting

Calib. Data Modified : Thursday, March 09, 2017 10:31:39 AM
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

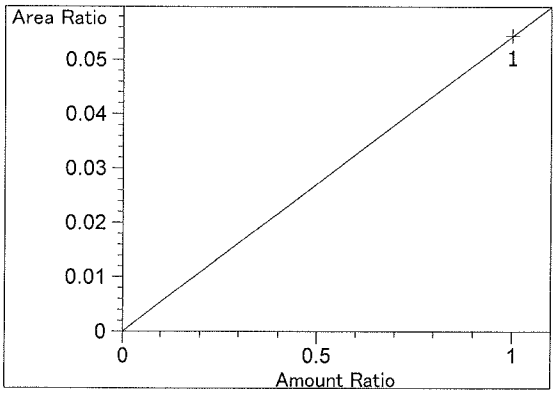
Overview Table

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
3.100	1	1	5.00000e-2	8.35786	5.98239e-3	No	No	1	Ethanol
		2	1.00000e-1	17.42579	5.73862e-3				
		3	2.00000e-1	33.70343	5.93411e-3				
		4	3.00000e-1	53.49835	5.60765e-3				
		5	5.00000e-1	87.27737	5.72886e-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
4.168	2	1	5.00000e-2	8.30184	6.02276e-3	No	No	2	Ethanol
		2	1.00000e-1	17.24509	5.79875e-3				
		3	2.00000e-1	33.51428	5.96761e-3				
		4	3.00000e-1	53.28009	5.63062e-3				
		5	5.00000e-1	86.99083	5.74773e-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
4.927	1	1	1.00000	92.91219	1.07629e-2	No	Yes	1	n-Propanol
		2	1.00000	95.76324	1.04424e-2				
		3	1.00000	93.57263	1.06869e-2				
		4	1.00000	96.92688	1.03171e-2				
		5	1.00000	95.63321	1.04566e-2				
7.598	2	1	1.00000	91.99761	1.08698e-2	No	Yes	2	n-Propanol
		2	1.00000	94.61198	1.05695e-2				
		3	1.00000	92.05717	1.08628e-2				
		4	1.00000	95.27699	1.04957e-2				
		5	1.00000	93.76394	1.06651e-2				

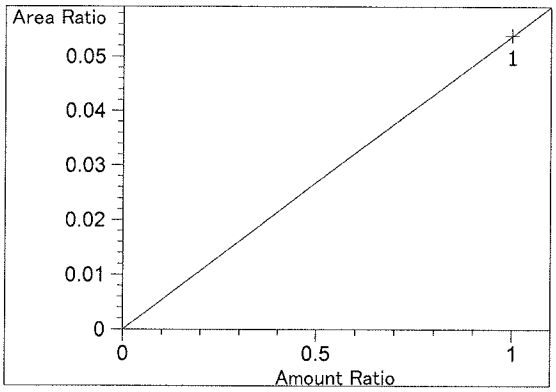
Peak Sum Table

No Entries in table

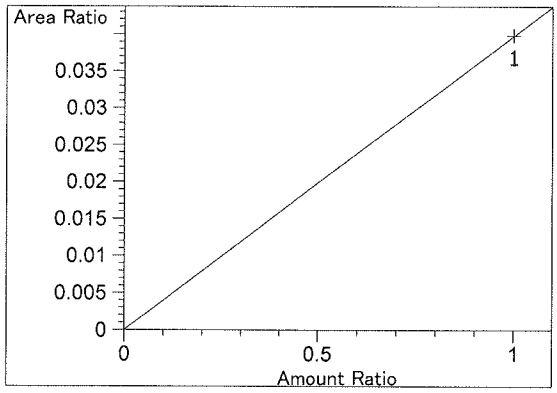
Calibration Curves



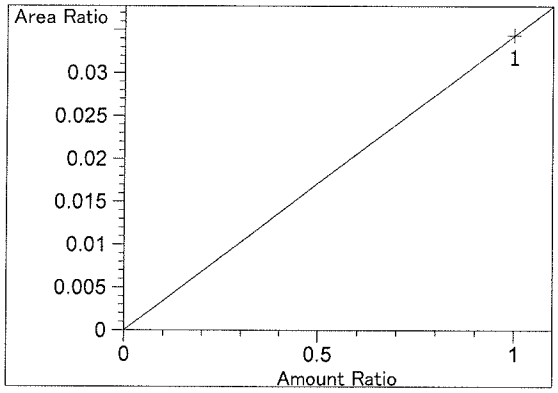
Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.43492e-2
x: Amount Ratio
y: Area Ratio



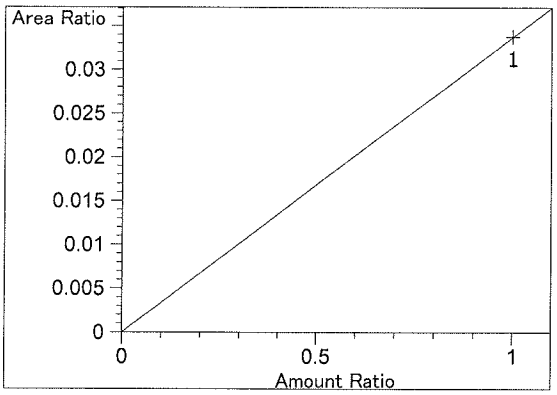
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.38143e-2
x: Amount Ratio
y: Area Ratio



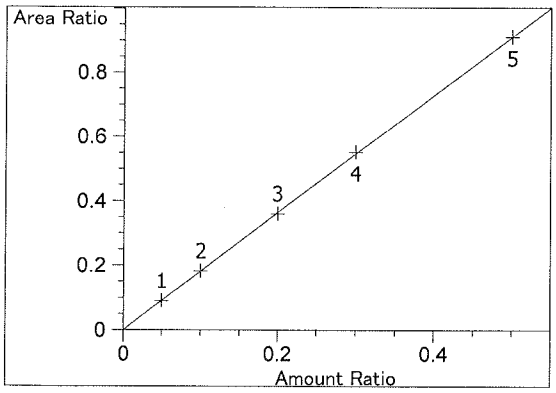
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.97870e-2
x: Amount Ratio
y: Area Ratio



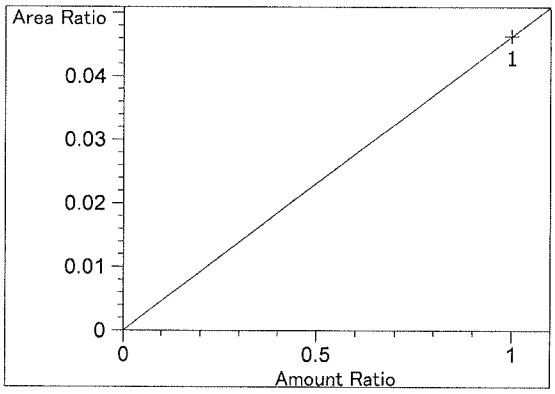
Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.43670e-2
x: Amount Ratio
y: Area Ratio



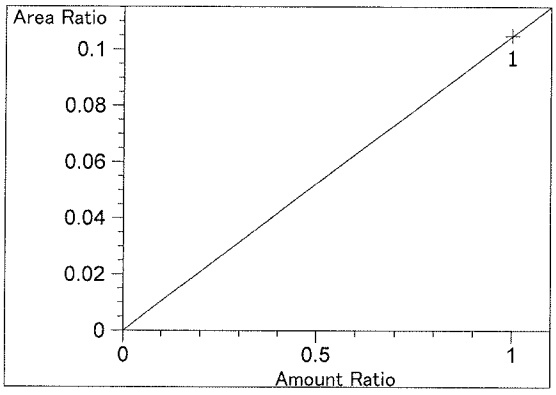
Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.37590e-2
x: Amount Ratio
y: Area Ratio



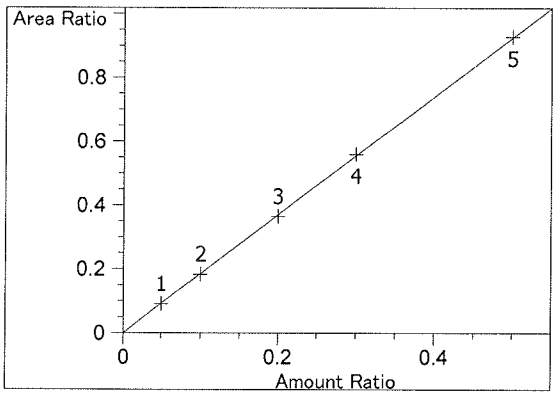
Ethanol at exp. RT: 3.100
FID1 A, Front Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00334
Formula: y = mx
m: 1.82580
x: Amount Ratio
y: Area Ratio



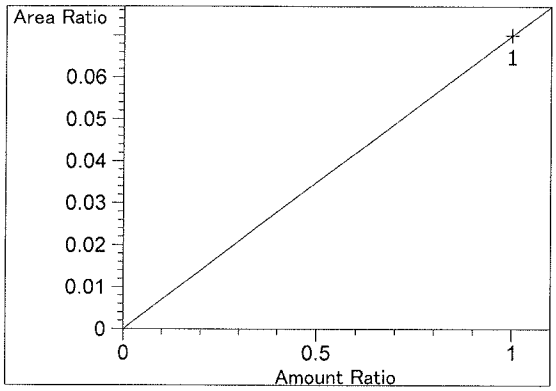
Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.63123e-2
x: Amount Ratio
y: Area Ratio



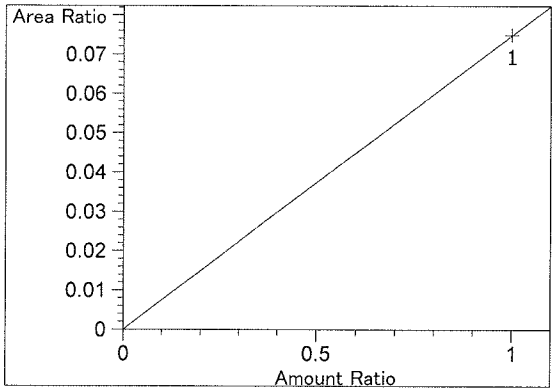
Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.04728e-1
x: Amount Ratio
y: Area Ratio



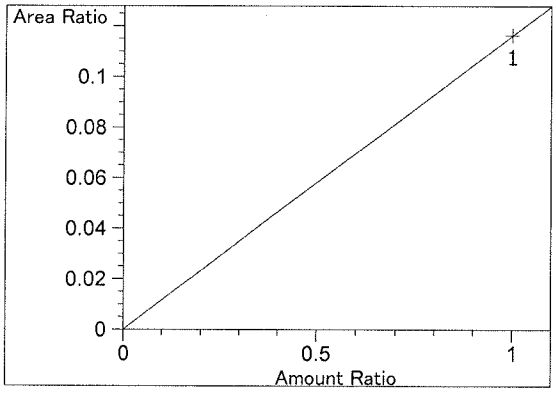
Ethanol at exp. RT: 4.168
FID2 B, Back Signal
Correlation: 0.99997
Residual Std. Dev.: 0.00419
Formula: y = mx
m: 1.85273
x: Amount Ratio
y: Area Ratio



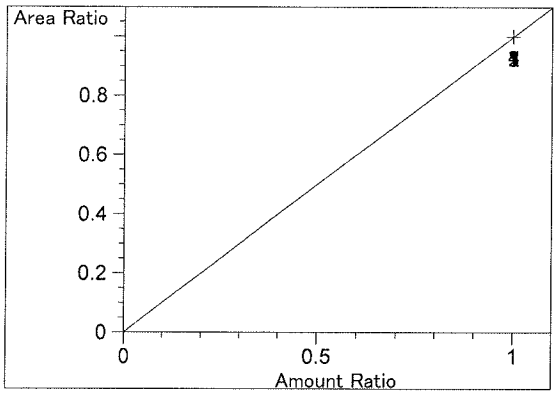
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.99521e-2
x: Amount Ratio
y: Area Ratio



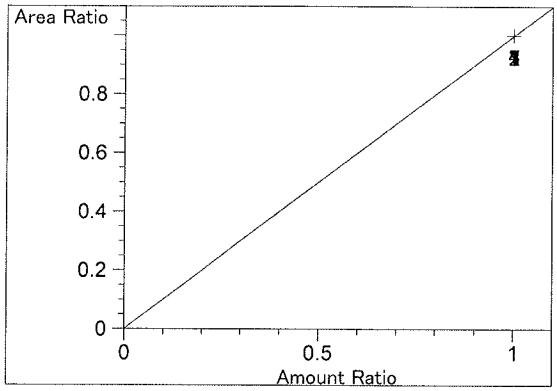
Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.49260e-2
x: Amount Ratio
y: Area Ratio



Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.16377e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.927
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 7.598
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

==========

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_09.03.2017_10.49.52\3-09-2017.S
Data directory path: C:\Chem32\1\Data\3-09-2017SVJ
Logbook: C:\Chem32\1\Data\3-09-2017SVJ\3-09-2017.LOG
Sequence start: 3/9/2017 11:03:39 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

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

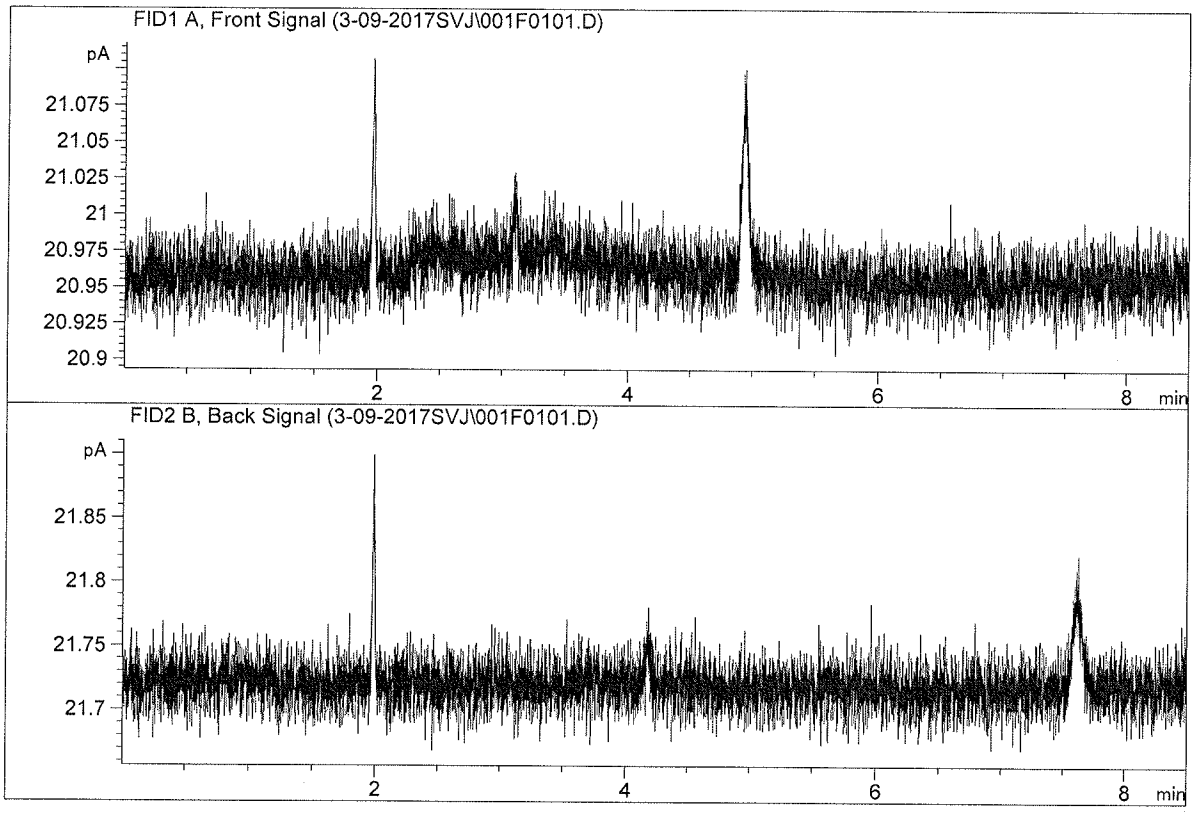
Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
1	1	1	water	-	1.0000	001F0101.D	0
2	2	1	VOL MIX FN-06041	-	1.0000	002F0201.D	10
3	3	1	ISTD BLANK	-	1.0000	003F0301.D	2
4	4	1	QC-1-A	-	1.0000	004F0401.D	4
5	5	1	QC-1-B	-	1.0000	005F0501.D	4
6	6	1	0.08 FN09051304-	-	1.0000	006F0601.D	4
7	7	1	0.08 FN09051304-	-	1.0000	007F0701.D	4
8	8	1	C2017-0263-1-A	-	1.0000	008F0801.D	2
9	9	1	C2017-0263-1-B	-	1.0000	009F0901.D	2
10	10	1	C2017-0272-1-A	-	1.0000	010F1001.D	4
11	11	1	C2017-0272-1-B	-	1.0000	011F1101.D	4
12	12	1	C2017-0276-1-A	-	1.0000	012F1201.D	2
13	13	1	C2017-0276-1-B	-	1.0000	013F1301.D	2
14	14	1	C2017-0301-1-A	-	1.0000	014F1401.D	6
15	15	1	C2017-0301-1-B	-	1.0000	015F1501.D	6
16	16	1	C2017-0307-1-A	-	1.0000	016F1601.D	4
17	17	1	C2017-0307-1-B	-	1.0000	017F1701.D	4
18	18	1	C2017-0315-1-A	-	1.0000	018F1801.D	4
19	19	1	C2017-0315-1-B	-	1.0000	019F1901.D	4
20	20	1	C2017-0323-1-A	-	1.0000	020F2001.D	4
21	21	1	C2017-0323-1-B	-	1.0000	021F2101.D	4
22	22	1	C2017-0327-1-A	-	1.0000	022F2201.D	4
23	23	1	C2017-0327-1-B	-	1.0000	023F2301.D	4
24	24	1	C2017-0353-1-A	-	1.0000	024F2401.D	6
25	25	1	C2017-0353-1-B	-	1.0000	025F2501.D	6
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	C2017-0359-1-A	-	1.0000	028F2801.D	4
29	29	1	C2017-0359-1-B	-	1.0000	029F2901.D	4
30	30	1	C2017-0360-1-A	-	1.0000	030F3001.D	4
31	31	1	C2017-0360-1-B	-	1.0000	031F3101.D	4
32	32	1	C2017-0384-1-A	-	1.0000	032F3201.D	4
33	33	1	C2017-0384-1-B	-	1.0000	033F3301.D	4
34	34	1	C2017-0384-2-A	-	1.0000	034F3401.D	4
35	35	1	C2017-0384-2-B	-	1.0000	035F3501.D	4
36	36	1	C2017-0384-3-A	-	1.0000	036F3601.D	4
37	37	1	C2017-0384-3-B	-	1.0000	037F3701.D	4
38	38	1	C2017-0384-4-A	-	1.0000	038F3801.D	4
39	39	1	C2017-0384-4-B	-	1.0000	039F3901.D	4
40	40	1	C2017-0389-1-A	-	1.0000	040F4001.D	6
41	41	1	C2017-0389-1-B	-	1.0000	041F4101.D	6
42	42	1	C2017-0390-1-A	-	1.0000	042F4201.D	4
43	43	1	C2017-0390-1-B	-	1.0000	043F4301.D	4
44	44	1	C2017-0400-1-A	-	1.0000	044F4401.D	4
45	45	1	C2017-0400-1-B	-	1.0000	045F4501.D	4
46	46	1	C2017-0442-1-A	-	1.0000	046F4601.D	4

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_09.03.2017_10.49.52\3-09-2017.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
47	47	1	C2017-0442-1-B	-	1.0000	047F4701.D		4
48	48	1	QC-1-A	-	1.0000	048F4801.D		4
49	49	1	QC-1-B	-	1.0000	049F4901.D		4
50	50	1	water	-	1.0000	050F5001.D		0
51	51	1	.05	-	1.0000	051F5101.D		4
52	52	1	.100	-	1.0000	052F5201.D		4
53	53	1	.200	-	1.0000	053F5301.D		4
54	54	1	.300	-	1.0000	054F5401.D		4
55	55	1	.500	-	1.0000	055F5501.D		4
56	56	1	ISTD BLANK	-	1.0000	056F5601.D		2

ISP Forensic Services Blood Alcohol Report

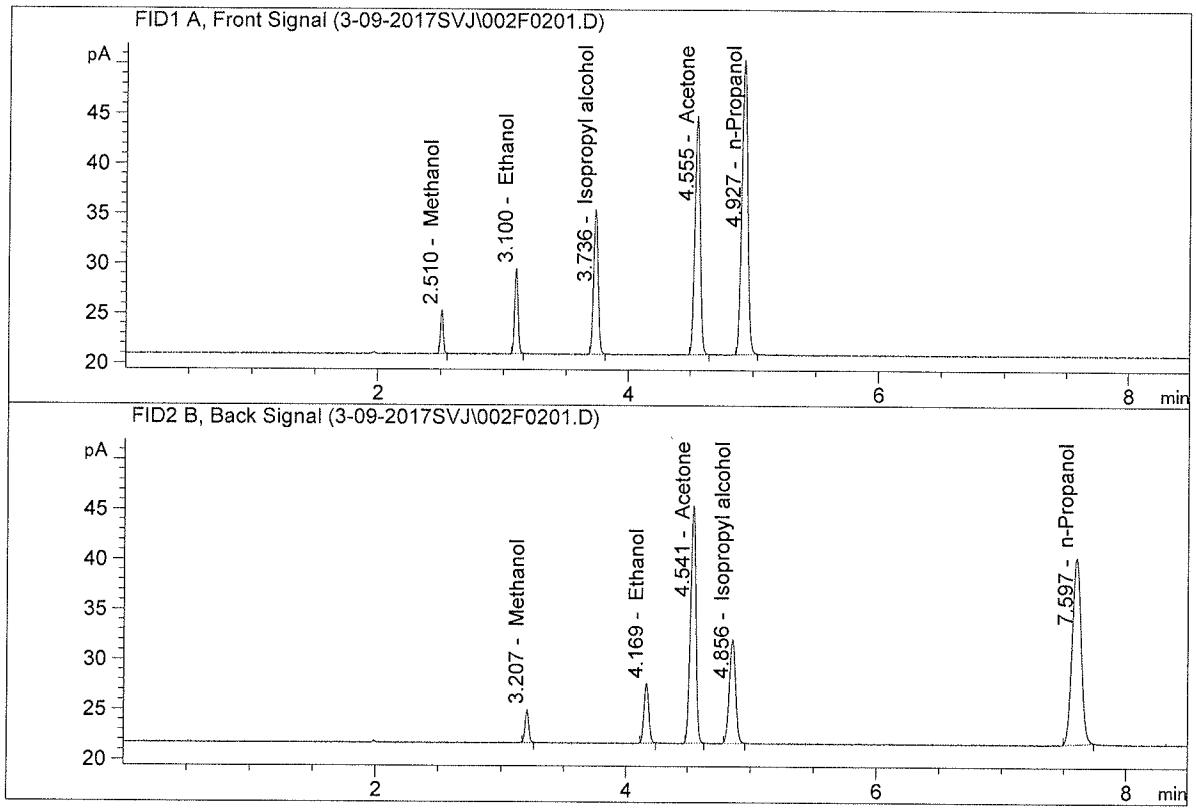
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

ISP Forensic Services Blood Alcohol Report

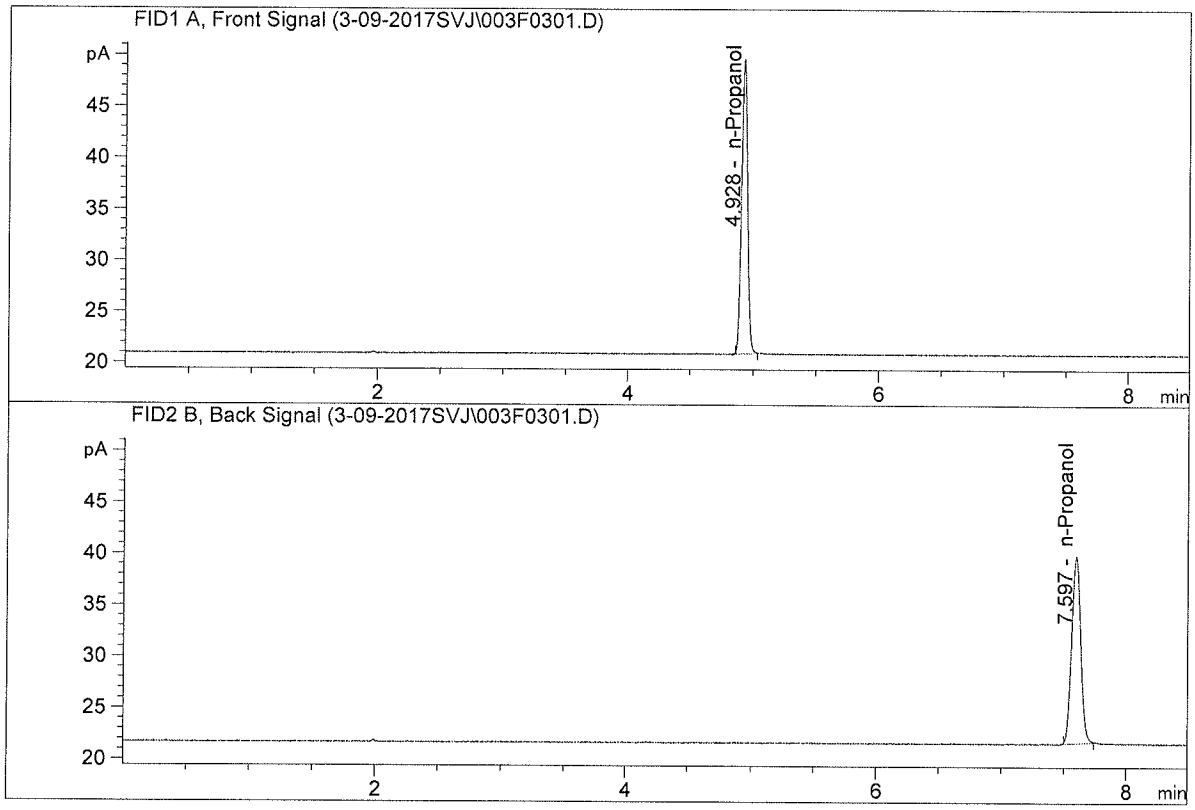
Sample Name : VOL MIX FN-06041502
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.48373	0.0947	g/100cc
2.	Ethanol	Column 2:	16.26960	0.0937	g/100cc
3.	n-Propanol	Column 1:	95.31566	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.71806	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 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:	92.73365	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.24085	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 09 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0760	0.0754	0.0006	0.0757	0.0758	
(g/100cc)	0.0762	0.0759	0.0003	0.0760		

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: MD-96GF641

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

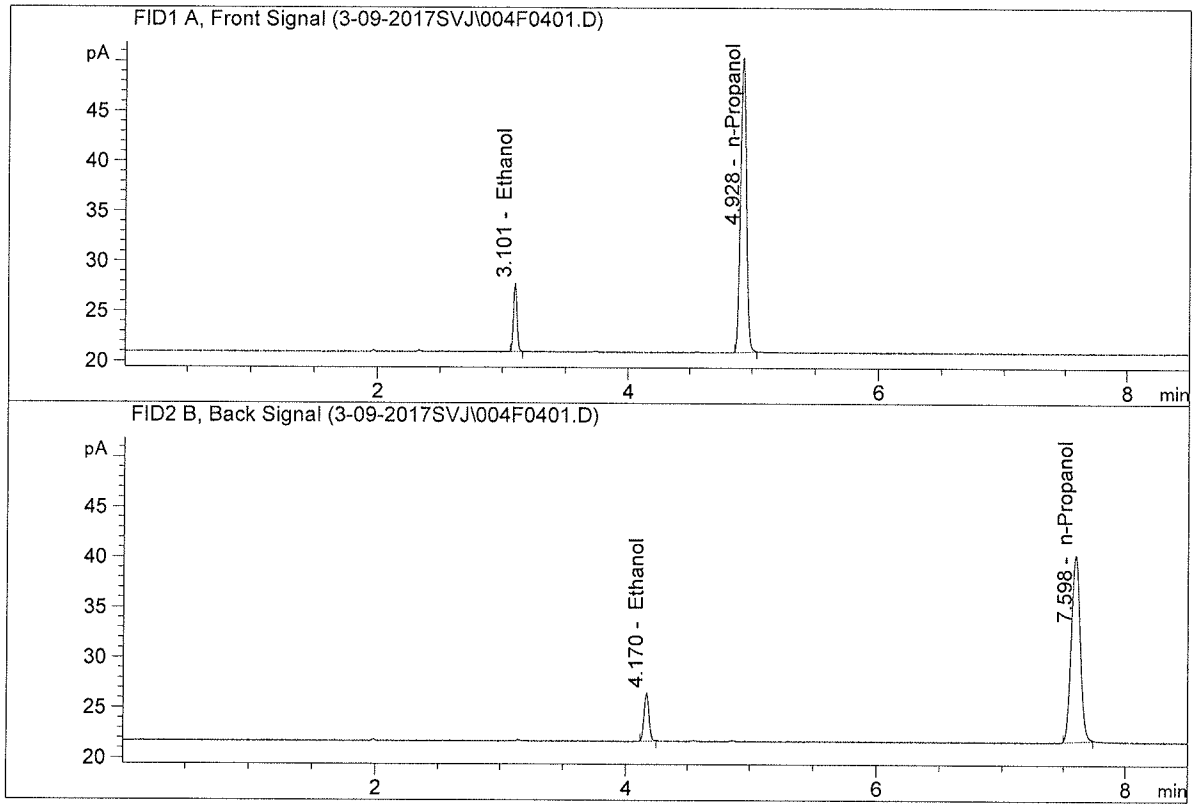
Overall Mean (g/100cc)	Low	High	5% of Mean
0.075	0.071	0.079	0.004

	Reported Result	
	0.075	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

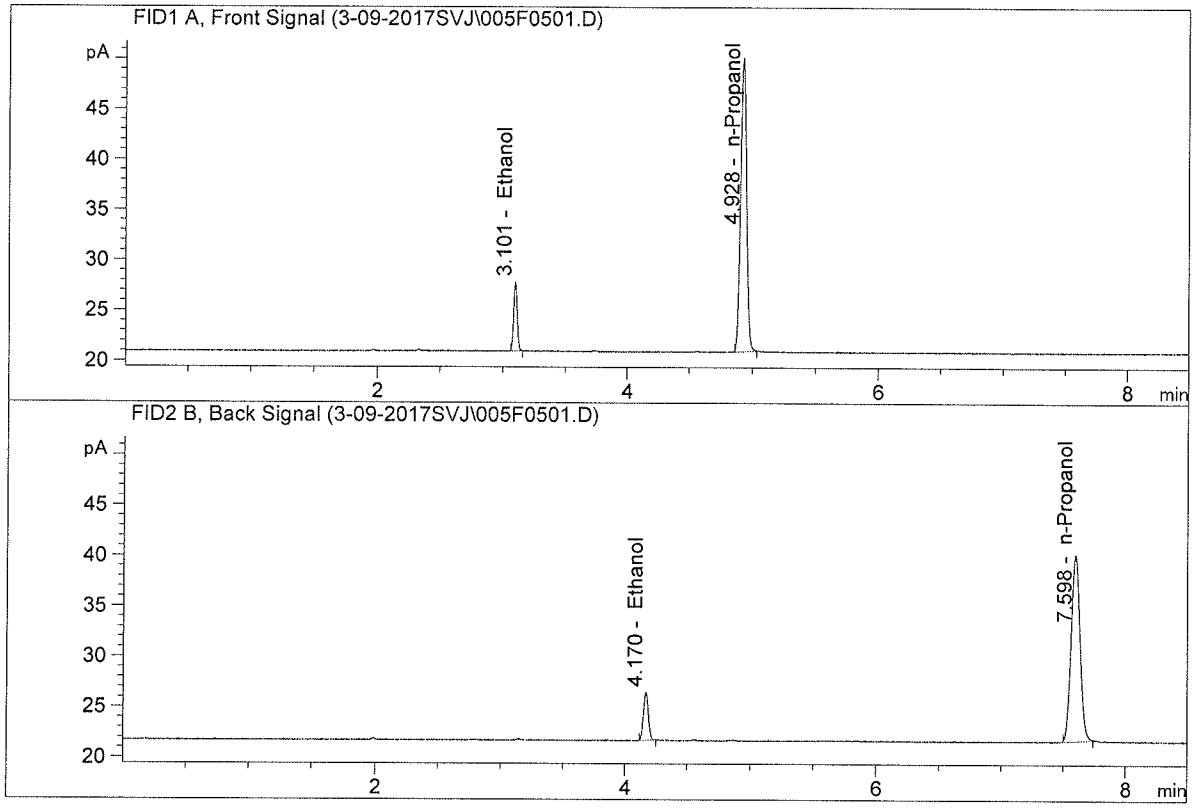
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.23511	0.0760	g/100cc
2.	Ethanol	Column 2:	13.08464	0.0754	g/100cc
3.	n-Propanol	Column 1:	95.33390	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.66849	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.17097	0.0762	g/100cc
2.	Ethanol	Column 2:	13.08467	0.0759	g/100cc
3.	n-Propanol	Column 1:	94.65381	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.06959	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304 **Analysis Date(s): 09 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0794	0.0785	0.0009	0.0789	0.0790	
(g/100cc)	0.0795	0.0787	0.0008	0.0791		

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: MD-96GF641

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

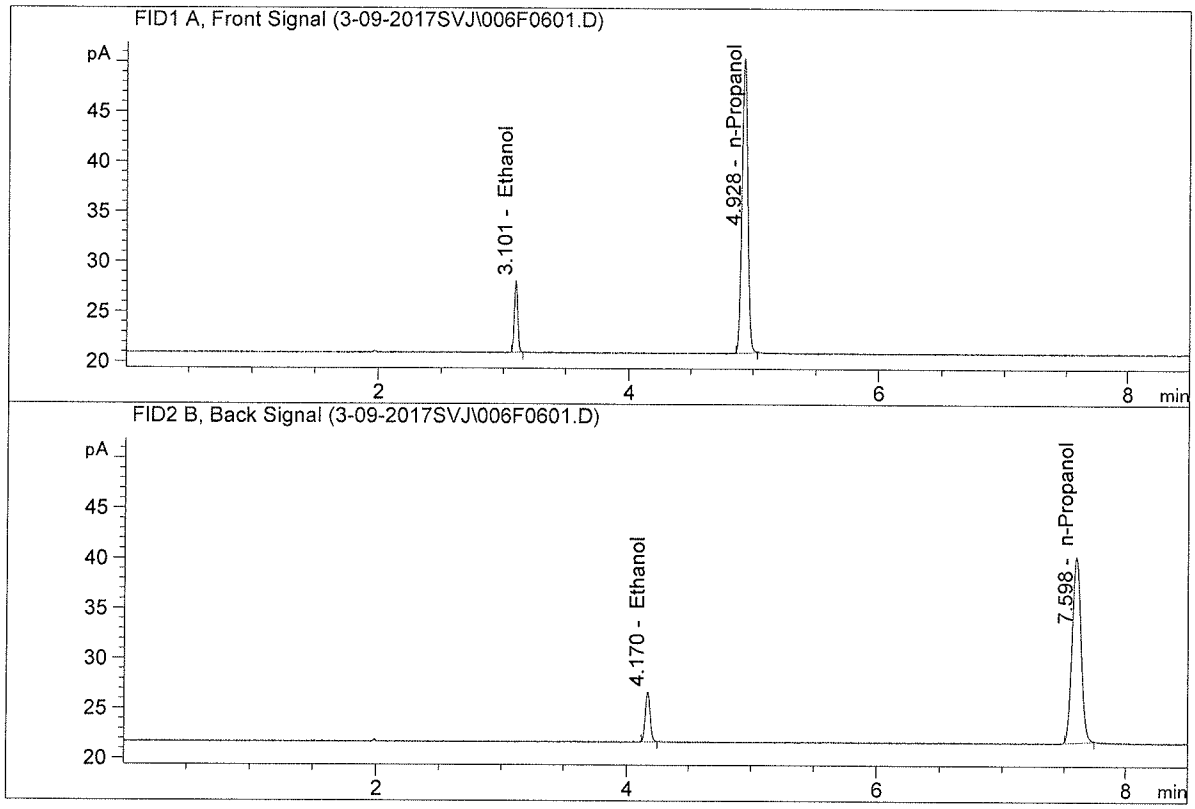
Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

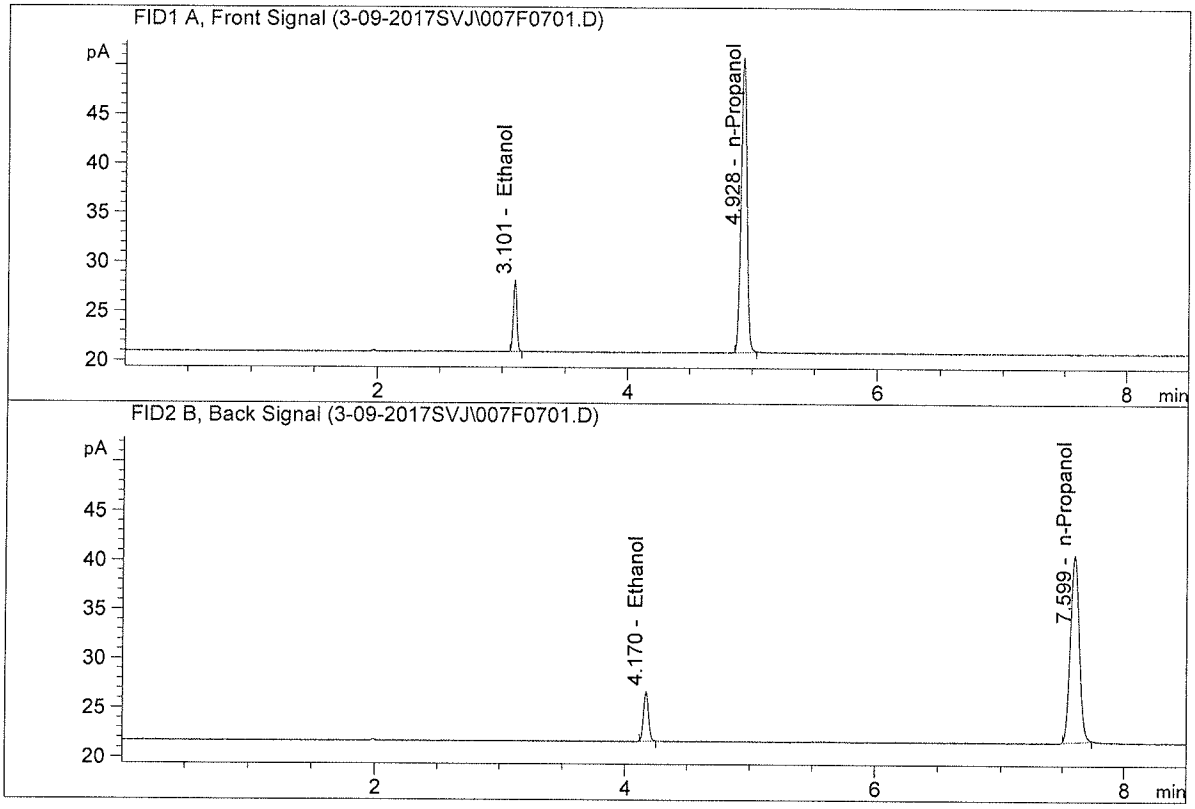
Sample Name : 0.08 FN09051304-A
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.79702	0.0794	g/100cc
2.	Ethanol	Column 2:	13.62667	0.0785	g/100cc
3.	n-Propanol	Column 1:	95.16612	1.0000	g/100cc
4.	n-Propanol	Column 2:	93.64647	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.03026	0.0795	g/100cc
2.	Ethanol	Column 2:	13.86035	0.0787	g/100cc
3.	n-Propanol	Column 1:	96.69289	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.01015	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 09 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1971	0.1971	0.0000	0.1971	0.1966	
(g/100cc)	0.1964	0.1961	0.0003	0.1962		

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: MD-96GF641

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.196	**0.186**	**0.206**	**0.010**

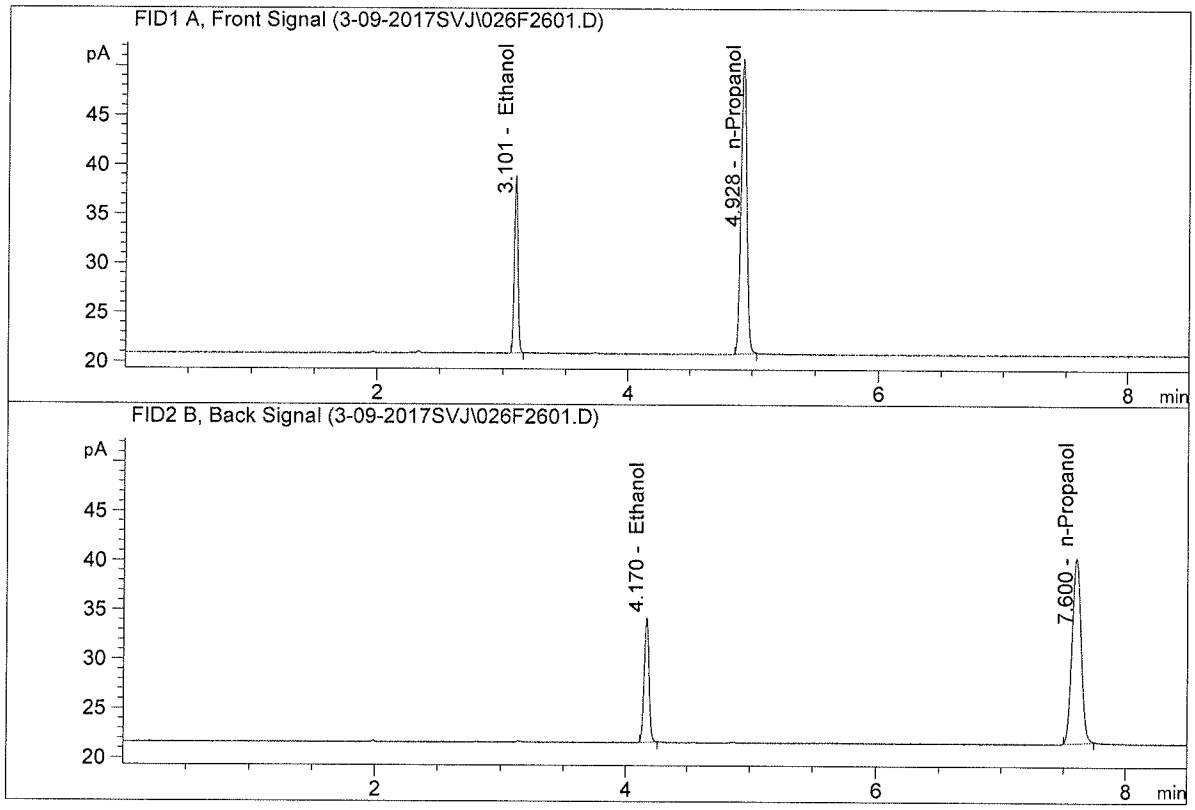
Reported Result

0.196

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

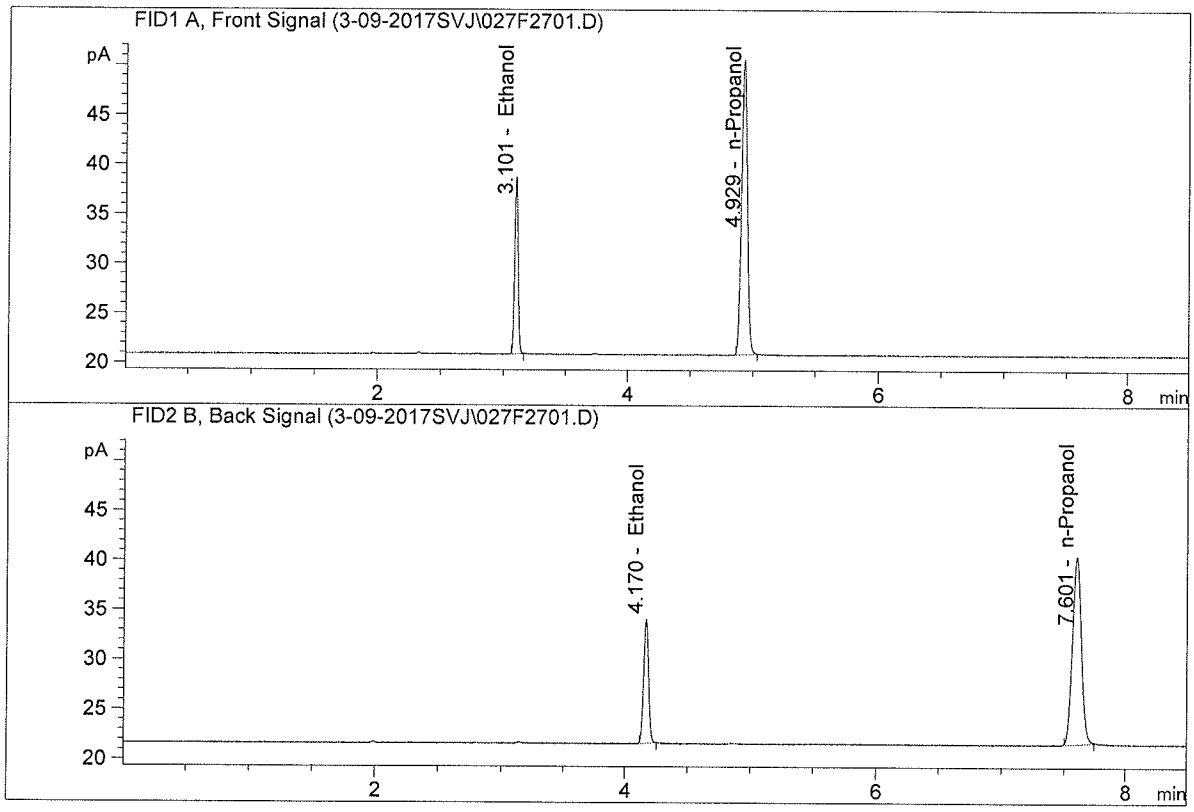
Sample Name	:	QC-2-A
Laboratory	:	Coeur d' Alene
Injection Date	:	Mar 9, 2017
Method	:	ALCOHOL.M
Acq. Instrument	:	CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.83393	0.1971	g/100cc
2.	Ethanol	Column 2:	34.60247	0.1971	g/100cc
3.	n-Propanol	Column 1:	96.79916	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.75362	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	34.53189	0.1964	g/100cc
2.	Ethanol	Column 2:	34.28489	0.1961	g/100cc
3.	n-Propanol	Column 1:	96.30981	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.34528	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 09 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0776	0.0771	0.0005	0.0773	0.0772	
(g/100cc)	0.0773	0.0771	0.0002	0.0772		

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: MD-96GF641

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**

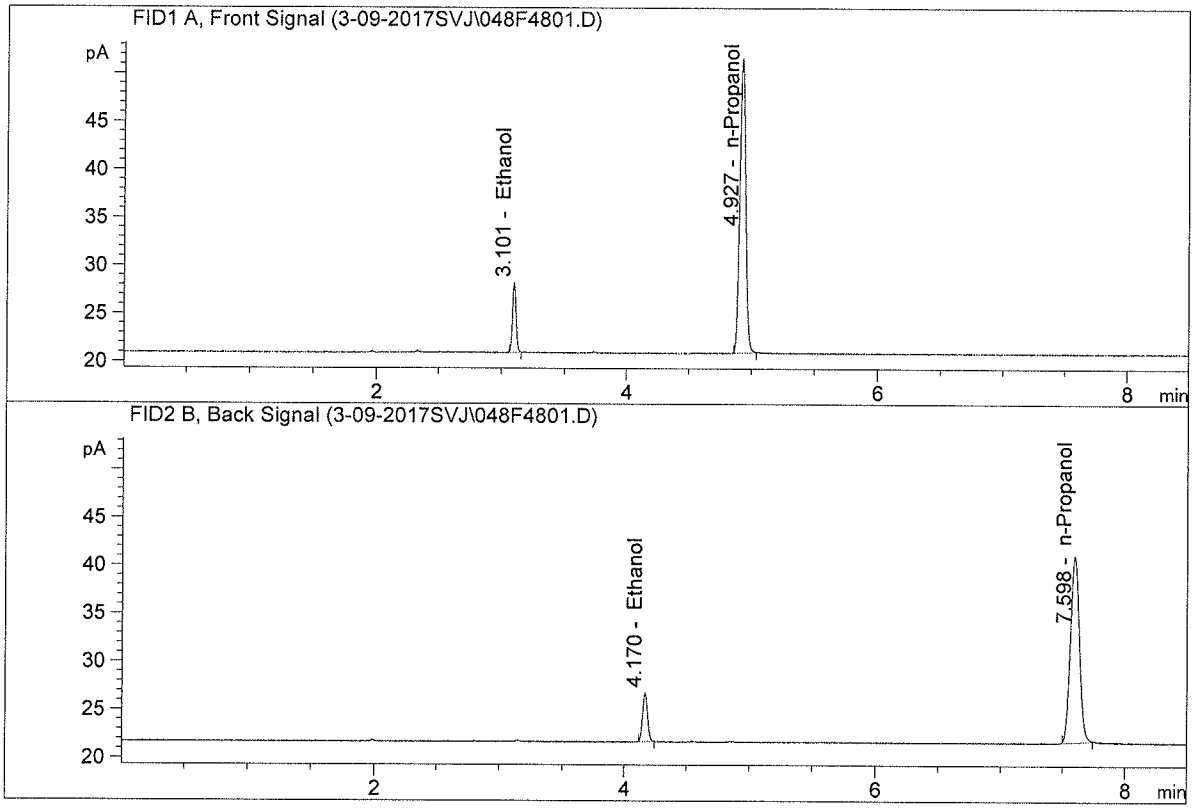
Reported Result

0.077

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

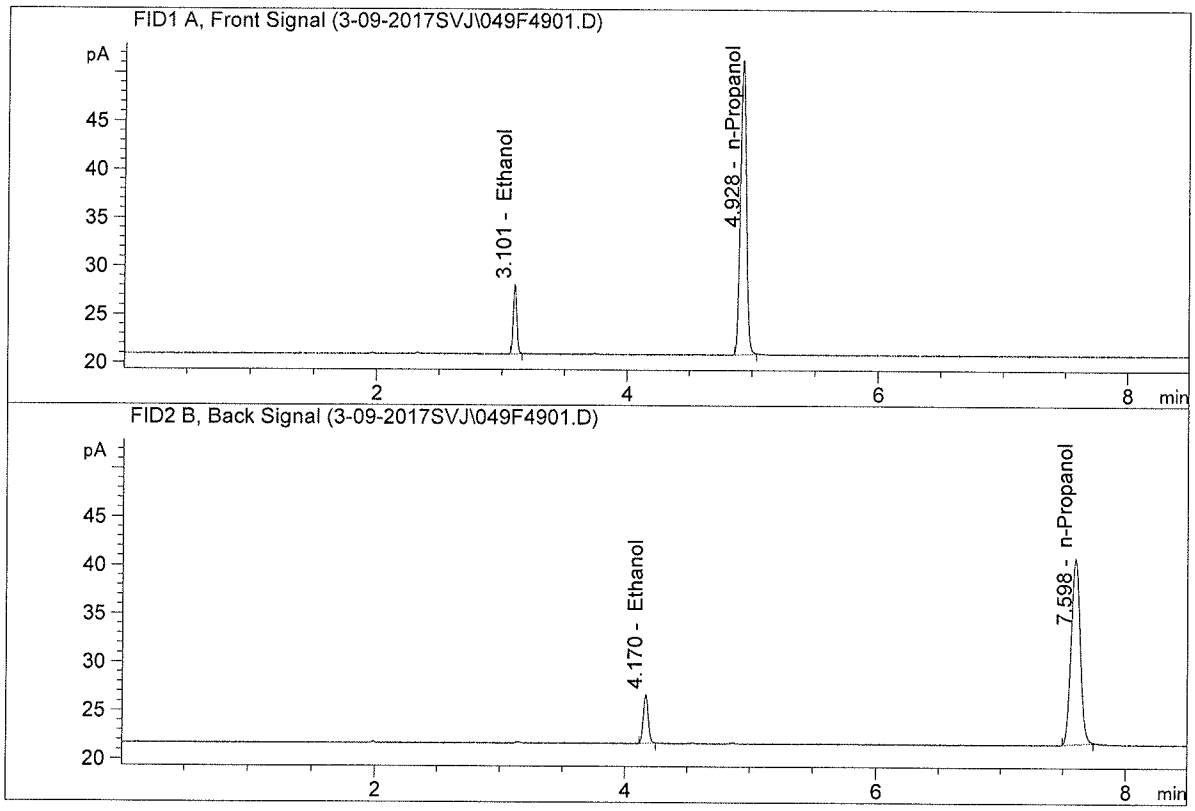
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	14.09624	0.0776	g/100cc
2.	Ethanol	Column 2:	13.92068	0.0771	g/100cc
3.	n-Propanol	Column 1:	99.44205	1.0000	g/100cc
4.	n-Propanol	Column 2:	97.44584	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

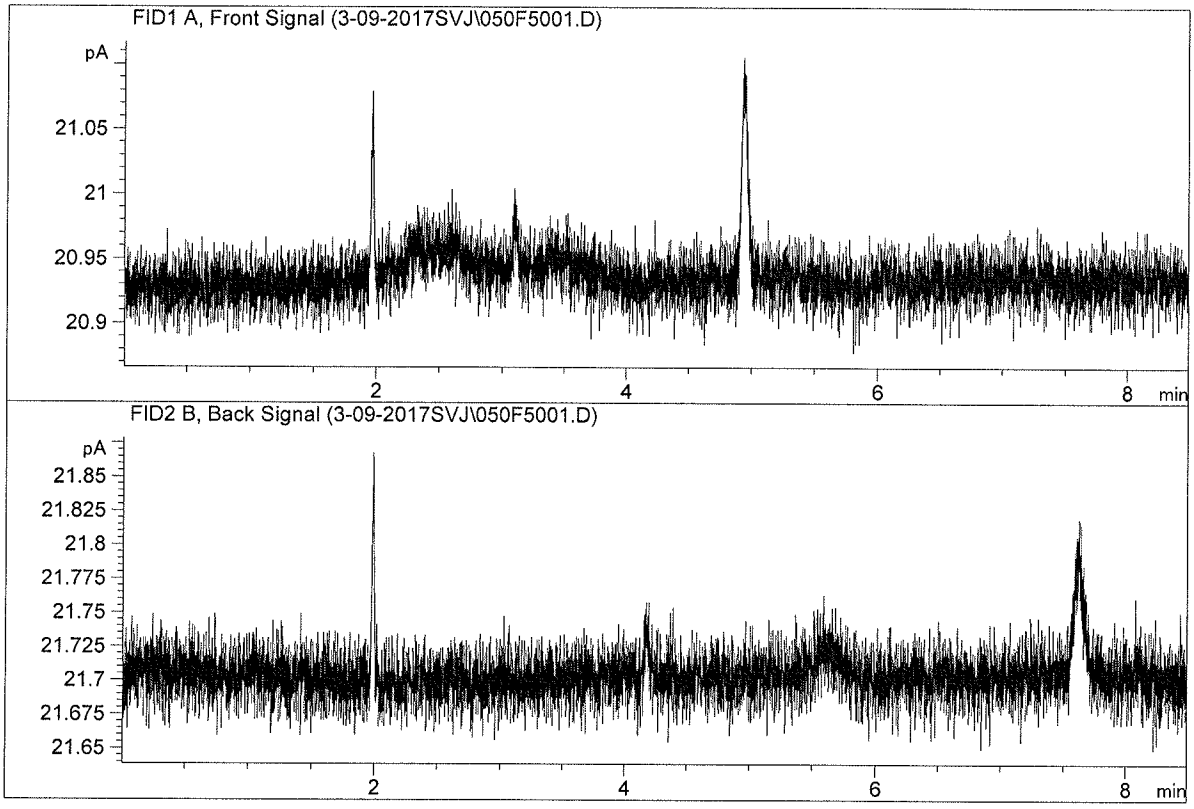
Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.90372	0.0773	g/100cc
2.	Ethanol	Column 2:	13.77325	0.0771	g/100cc
3.	n-Propanol	Column 1:	98.57121	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.47699	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

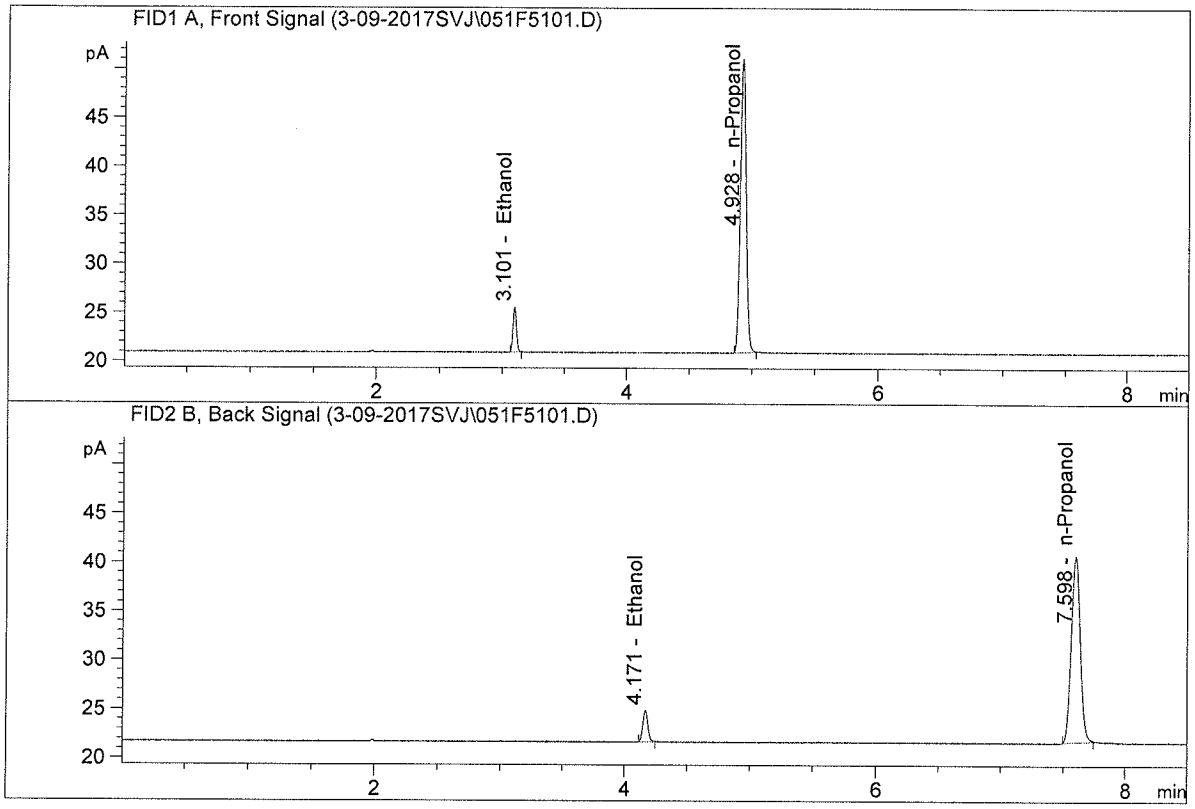
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

ISP Forensic Services Blood Alcohol Report

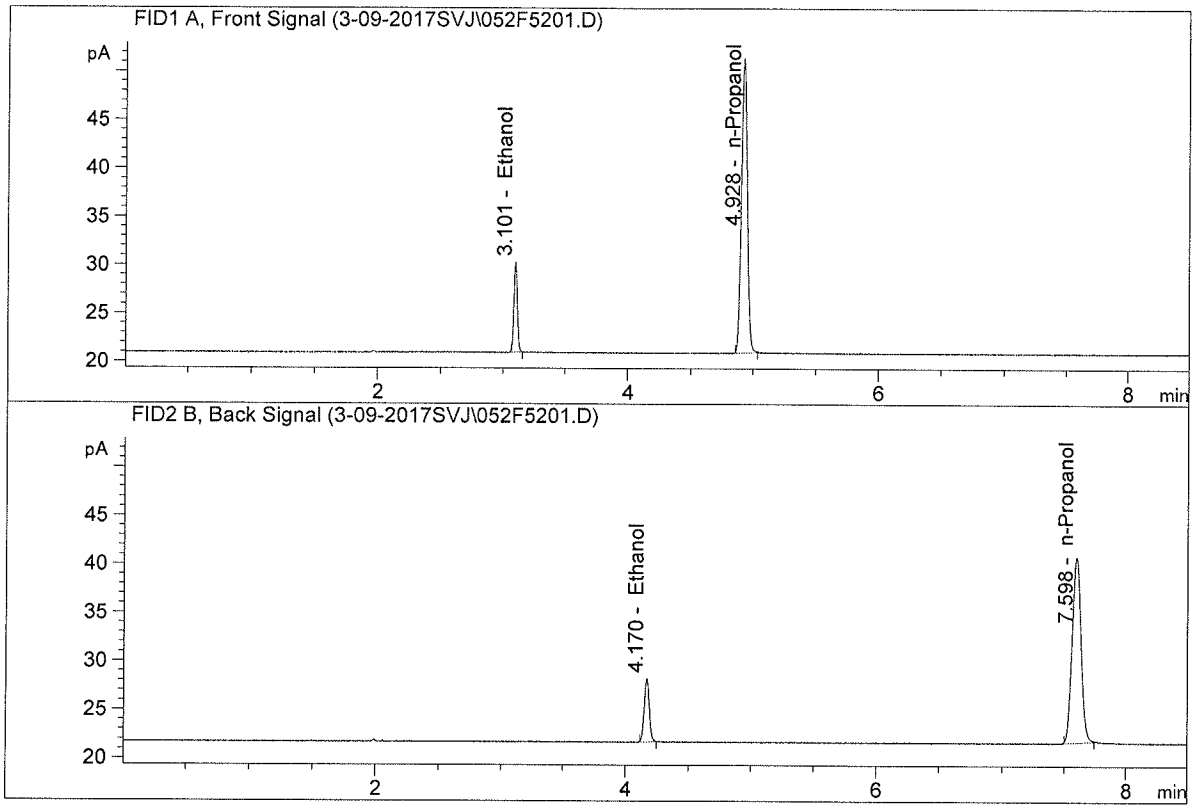
Sample Name : .05
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.98428	0.0503	g/100cc
2.	Ethanol	Column 2:	8.85346	0.0498	g/100cc
3.	n-Propanol	Column 1:	97.80880	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.94442	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

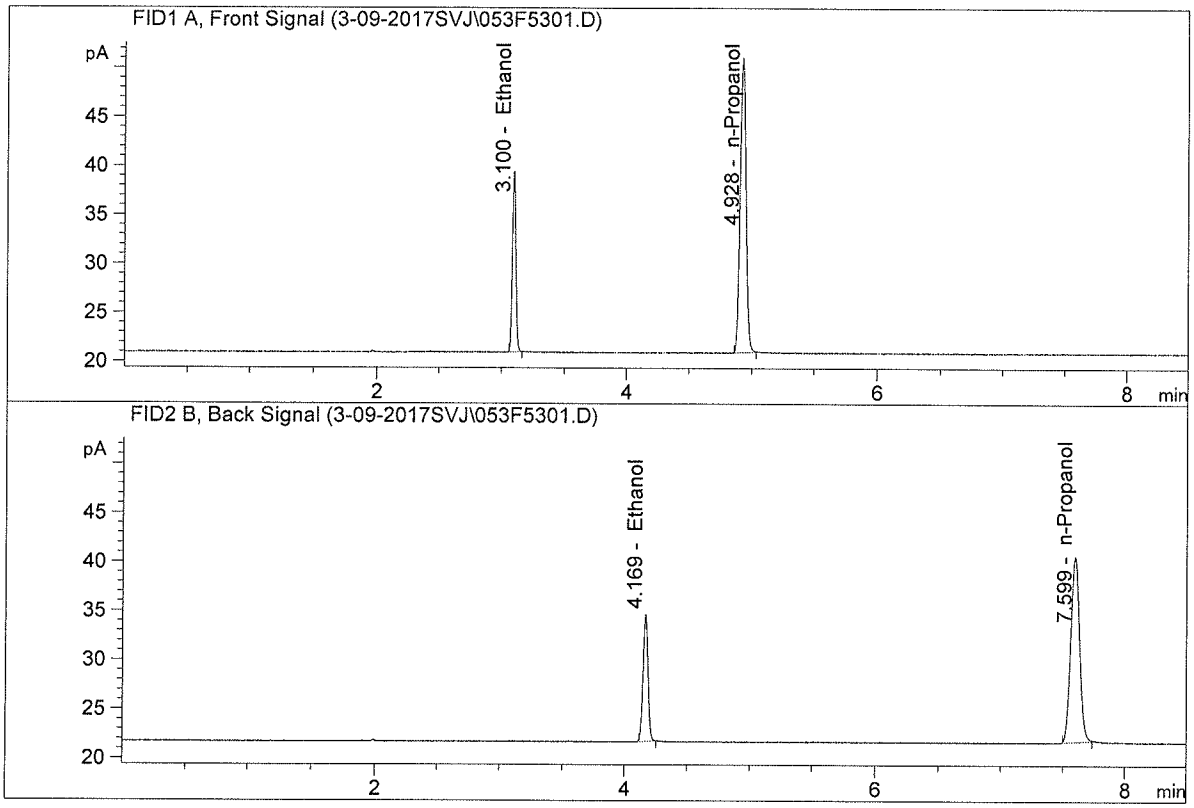
Sample Name : .100
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.07201	0.1004	g/100cc
2.	Ethanol	Column 2:	17.84910	0.1000	g/100cc
3.	n-Propanol	Column 1:	98.53860	1.0000	g/100cc
4.	n-Propanol	Column 2:	96.33715	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

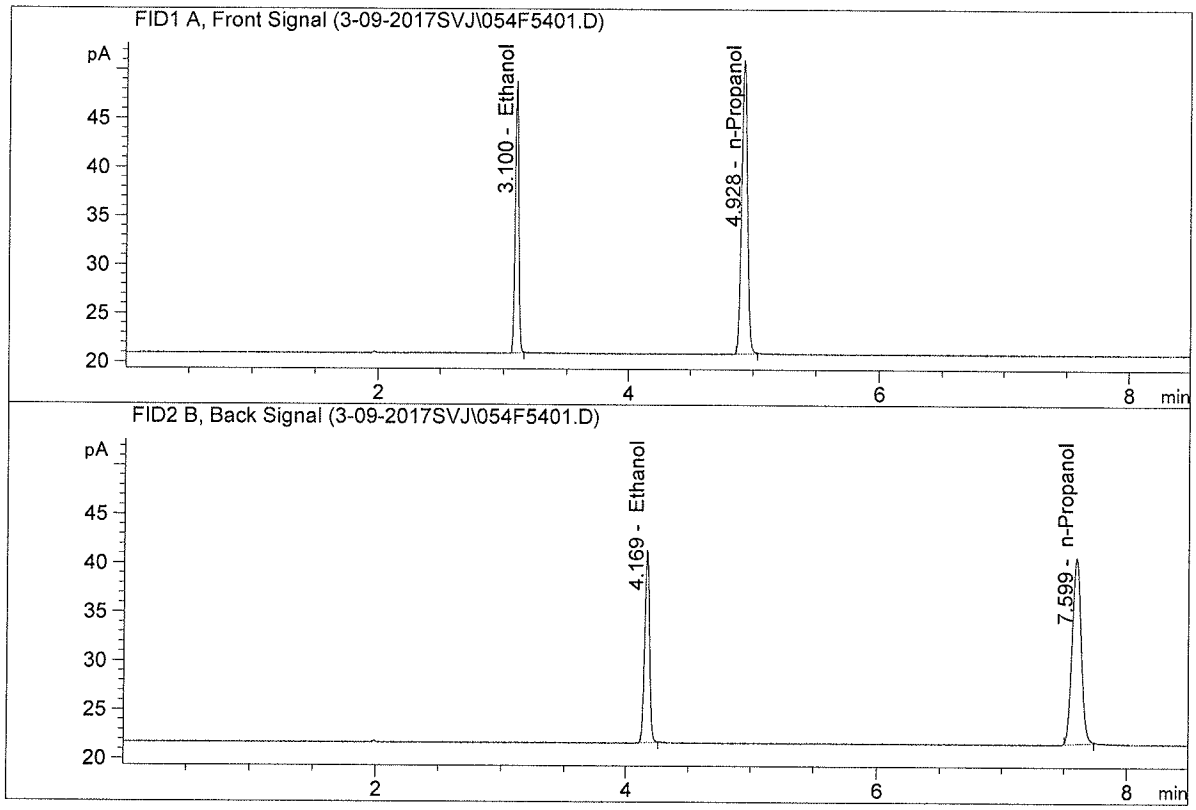
Sample Name : .200
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	35.68355	0.2009	g/100cc
2.	Ethanol	Column 2:	35.36792	0.2010	g/100cc
3.	n-Propanol	Column 1:	97.26000	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.99657	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

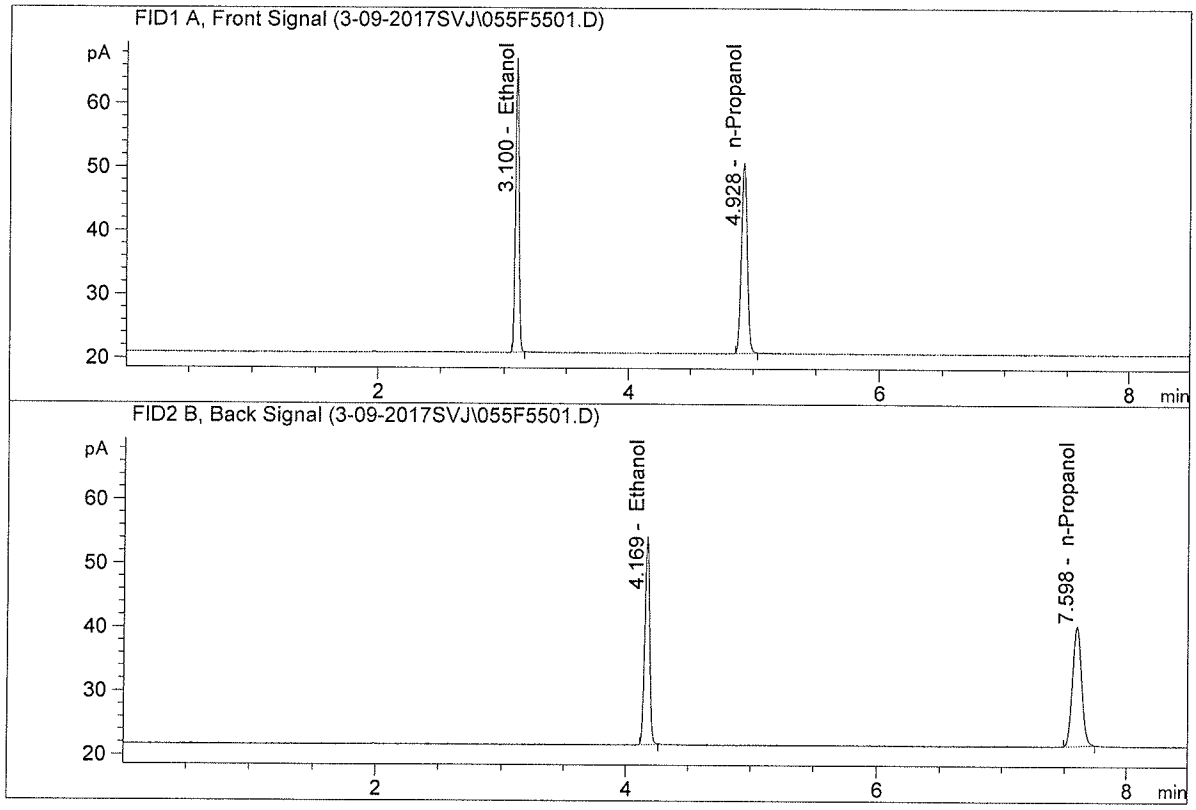
Sample Name : .300
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	53.77501	0.3017	g/100cc
2.	Ethanol	Column 2:	53.51965	0.3034	g/100cc
3.	n-Propanol	Column 1:	97.63870	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.21937	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

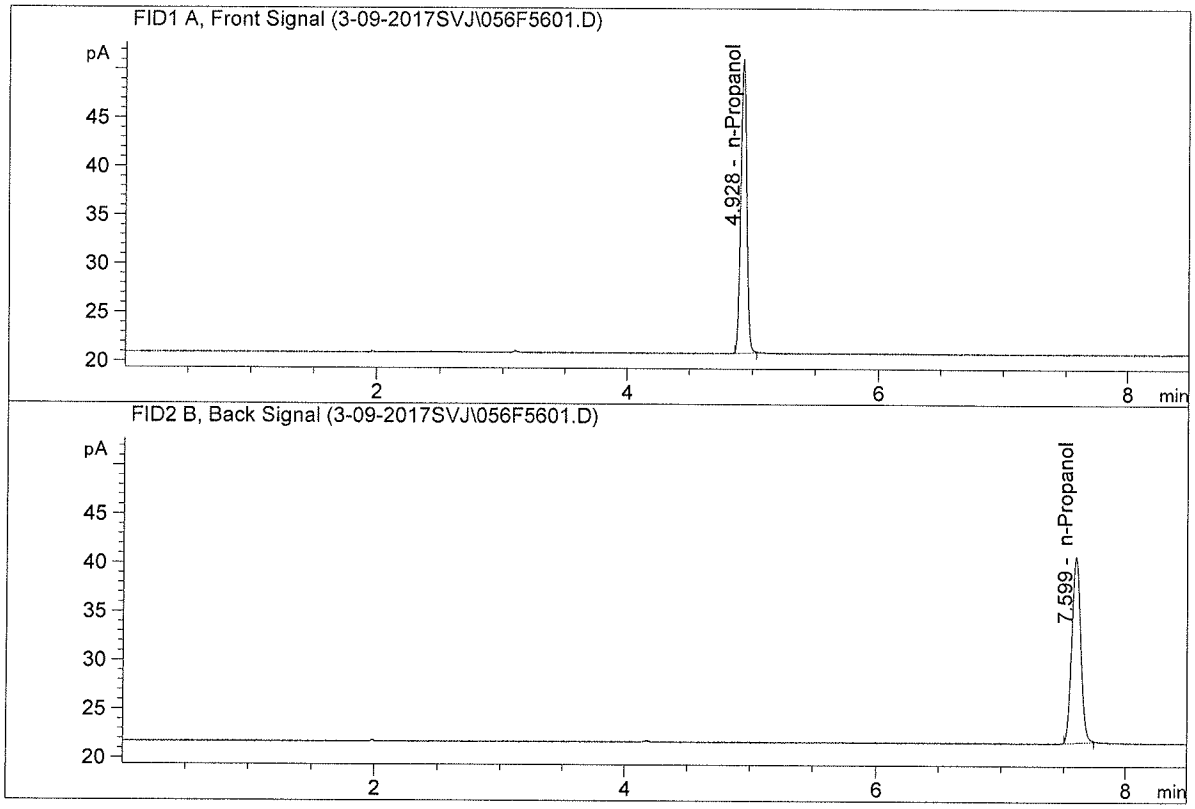
Sample Name : .500
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 2017
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	89.01894	0.5047	g/100cc
2.	Ethanol	Column 2:	88.55314	0.5072	g/100cc
3.	n-Propanol	Column 1:	96.59799	1.0000	g/100cc
4.	n-Propanol	Column 2:	94.24050	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 9, 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:	97.88145	1.0000	g/100cc
4.	n-Propanol	Column 2:	95.88179	1.0000	g/100cc