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): 12-09-15**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Dec-16	1211090	0.0773	0.0696-0.0850	0.0788 g/100cc
					0.0809 g/100cc
					g/100cc
Level 2	Jan-17	1212091	0.2020	0.1818-0.2222	0.2069 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		**Jan-16**	**Lot #**	FN012111-01	OK
Curve Fit:			**Column 1**	1.00000 **Column2**	1.00000

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	0.0501	0.0495	0.0006	0.0498
0.080	Jan-17	FN09051304	0.080	0.072 - 0.088			0	#DIV/0!
0.100	Mar-19	FN02021403	0.100	0.090 - 0.110	0.1006	0.0995	0.0011	0.1
0.200	Mar-17	FN032712-01	0.200	0.180 - 0.220	0.2013	0.1997	0.0016	0.2005
0.300	Oct-18	FN09061305	0.300	0.270 - 0.330	0.2995	0.2990	0.0005	0.2992
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Jan-18	FN01281301	0.500	0.450 - 0.550	0.4996	0.5009	0.0013	0.5002

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Oct-18	FN09051304	0.08000	0.076 - 0.084	0.08 g/100cc

Issued: 4/22/2015

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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

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Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_09.12.2015_04.04.05\12-09-2015.S
Data directory path: C:\Chem32\1\Data\12-09-15JJ
Logbook: C:\Chem32\1\Data\12-09-15JJ\12-09-2015.LOG
Sequence start: 12/9/2015 4:17:49 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-01211	-	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	C2015-1992-1-A	-	1.0000	008F0801.D		4
9	9	1	C2015-1992-1-B	-	1.0000	009F0901.D		4
10	10	1	C2015-2000-1-A	-	1.0000	010F1001.D		4
11	11	1	C2015-2000-1-B	-	1.0000	011F1101.D		4
12	12	1	C2015-2001-1-A	-	1.0000	012F1201.D		4
13	13	1	C2015-2001-1-B	-	1.0000	013F1301.D		4
14	14	1	C2015-2019-1-A	-	1.0000	014F1401.D		4
15	15	1	C2015-2019-1-B	-	1.0000	015F1501.D		4
16	16	1	C2015-2075-1-A	-	1.0000	016F1601.D		4
17	17	1	C2015-2075-1-B	-	1.0000	017F1701.D		4
18	18	1	C2015-2082-2-A	-	1.0000	018F1801.D		4
19	19	1	C2015-2082-2-B	-	1.0000	019F1901.D		4
20	20	1	C2015-2091-1-A	-	1.0000	020F2001.D		4
21	21	1	C2015-2091-1-B	-	1.0000	021F2101.D		4
22	22	1	C2015-2130-1-A	-	1.0000	022F2201.D		2
23	23	1	C2015-2130-1-B	-	1.0000	023F2301.D		2
24	24	1	C2015-2131-1-A	-	1.0000	024F2401.D		2
25	25	1	C2015-2131-1-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	C2015-2142-1-A	-	1.0000	028F2801.D		2
29	29	1	C2015-2142-1-B	-	1.0000	029F2901.D		2
30	30	1	C2015-2159-1-A	-	1.0000	030F3001.D		4
31	31	1	C2015-2159-1-B	-	1.0000	031F3101.D		4
32	32	1	C2015-2160-1-A	-	1.0000	032F3201.D		4
33	33	1	C2015-2160-1-B	-	1.0000	033F3301.D		4
34	34	1	C2015-2162-1-A	-	1.0000	034F3401.D		4
35	35	1	C2015-2162-1-B	-	1.0000	035F3501.D		4
36	36	1	C2015-2183-1-A	-	1.0000	036F3601.D		4
37	37	1	C2015-2183-1-B	-	1.0000	037F3701.D		4
38	38	1	C2015-2200-1-A	-	1.0000	038F3801.D		4
39	39	1	C2015-2200-1-B	-	1.0000	039F3901.D		4
40	40	1	C2015-2203-2-A	-	1.0000	040F4001.D		2
41	41	1	C2015-2203-2-B	-	1.0000	041F4101.D		2
42	42	1	C2015-2204-1-A	-	1.0000	042F4201.D		4
43	43	1	C2015-2204-1-B	-	1.0000	043F4301.D		4
44	44	1	C2015-2231-1-A	-	1.0000	044F4401.D		4
45	45	1	C2015-2231-1-B	-	1.0000	045F4501.D		4
46	46	1	QC-1-A	-	1.0000	046F4601.D		4

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_09.12.2015_04.04.05\12-09-2015.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
47	47	1	QC-1-B	-	1.0000	047F4701.D	4
48	48	1	water	-	1.0000	048F4801.D	0
49	49	1	ISTD BLANK	-	1.0000	049F4901.D	2

Calibration Table

General Calibration Setting

Calib. Data Modified : Wednesday, December 09, 2015 3:53:26 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

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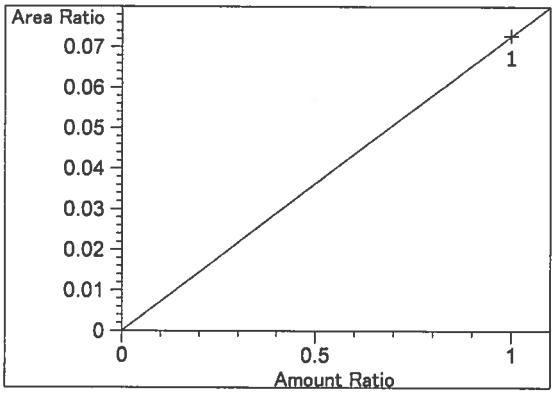
RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD	#	Compound
2.000	2	1	1.00000	5.00000	2.00000e-1	No	No	2	Difluoroethane
2.000	1	1	1.00000	5.00000	2.00000e-1	No	No	1	Difluoroethane
2.494	1	1	1.00000	3.69669	2.70512e-1	No	No	1	Methanol
2.772	1	1	1.00000	3.19311	3.13174e-1	No	No	1	Acetaldehyde
2.797	2	1	1.00000	3.10575	3.21983e-1	No	No	2	Acetaldehyde
3.098	1	1	5.00000e-2	6.55523	7.62750e-3	No	No	1	Ethanol
		2	1.00000e-1	13.41586	7.45386e-3				
		3	2.00000e-1	26.13417	7.65282e-3				
		4	3.00000e-1	40.78463	7.35571e-3				
		5	5.00000e-1	67.34683	7.42425e-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
4.165	2	1	5.00000e-2	6.47379	7.72346e-3	No	No	2	Ethanol
		2	1.00000e-1	13.28147	7.52929e-3				
		3	2.00000e-1	25.91017	7.71898e-3				
		4	3.00000e-1	40.54746	7.39874e-3				
		5	5.00000e-1	66.94464	7.46886e-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
4.926	1	1	1.00000	69.26081	1.44382e-2	No	Yes	1	n-Propanol
		2	1.00000	70.61391	1.41615e-2				
		3	1.00000	68.75541	1.45443e-2				
		4	1.00000	72.12617	1.38646e-2				
		5	1.00000	71.39388	1.40068e-2				
7.594	2	1	1.00000	68.71951	1.45519e-2	No	Yes	2	n-Propanol
		2	1.00000	70.11260	1.42628e-2				
		3	1.00000	68.12130	1.46797e-2				
		4	1.00000	71.18814	1.40473e-2				
		5	1.00000	70.17210	1.42507e-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: 7.27595e-2
x: Amount Ratio
y: Area Ratio

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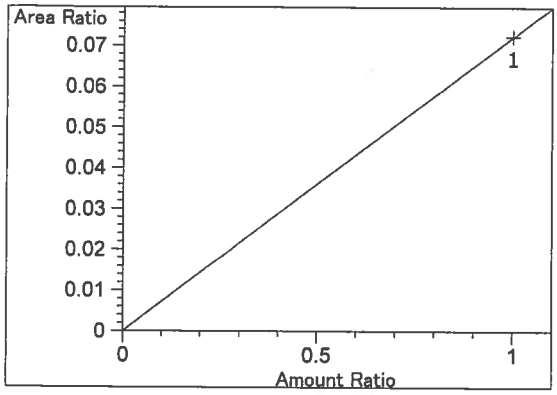
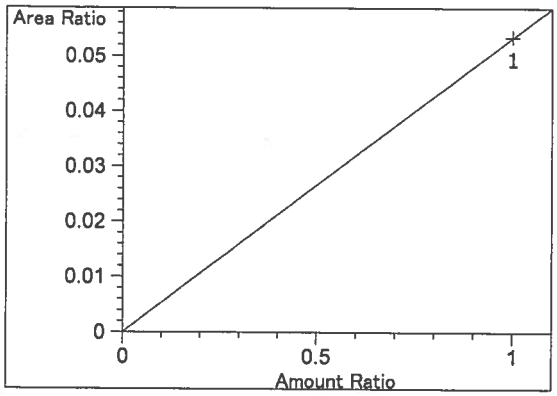
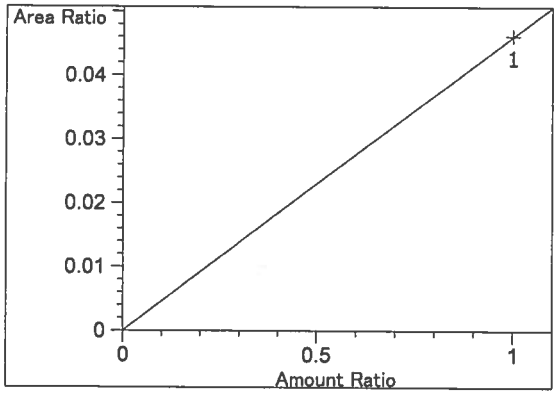


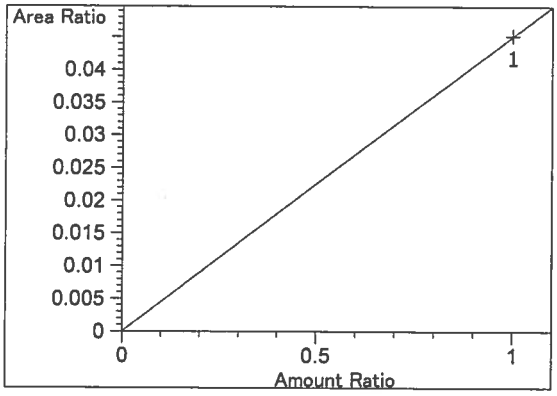
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.21909e-2
x: Amount Ratio
y: Area Ratio



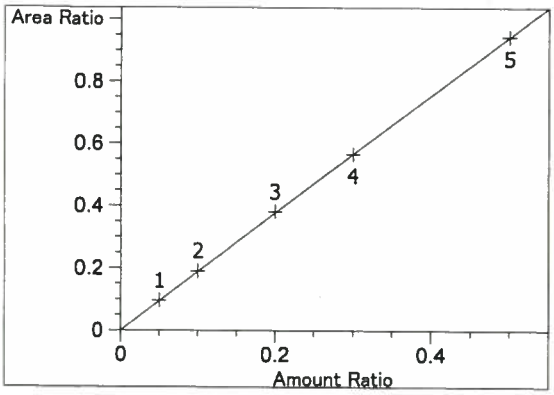
Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.33735e-2
x: Amount Ratio
y: Area Ratio



Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.61027e-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: 4.51946e-2
x: Amount Ratio
y: Area Ratio



Ethanol at exp. RT: 3.098
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00151
Formula: y = mx
m: 1.88802
x: Amount Ratio
y: Area Ratio

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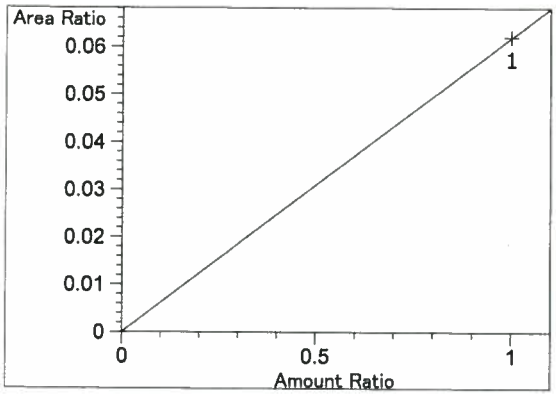
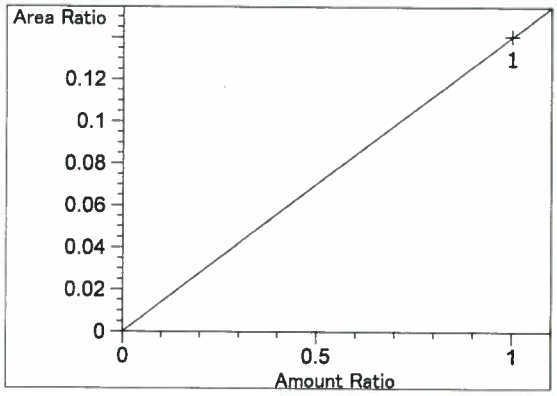
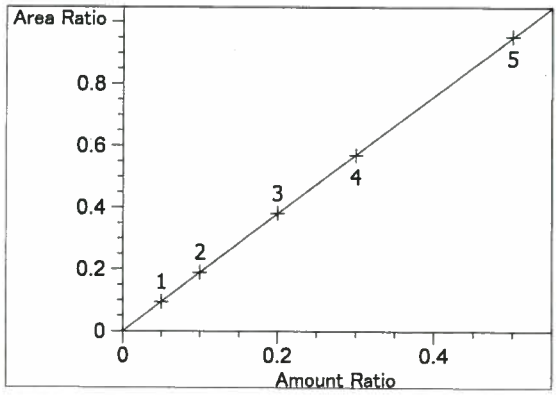


Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.20002e-2
x: Amount Ratio
y: Area Ratio



Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.40491e-1
x: Amount Ratio
y: Area Ratio



Ethanol at exp. RT: 4.165
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00146
Formula: y = mx
m: 1.90472
x: Amount Ratio
y: Area Ratio

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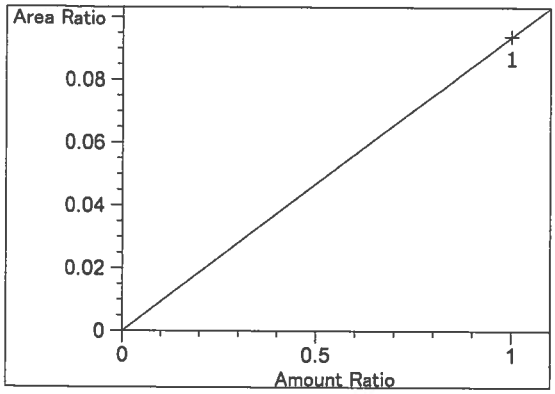
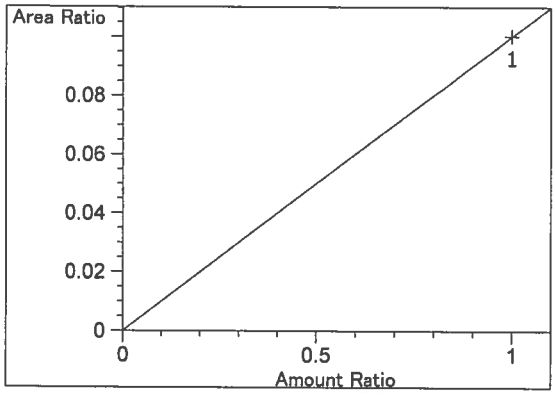
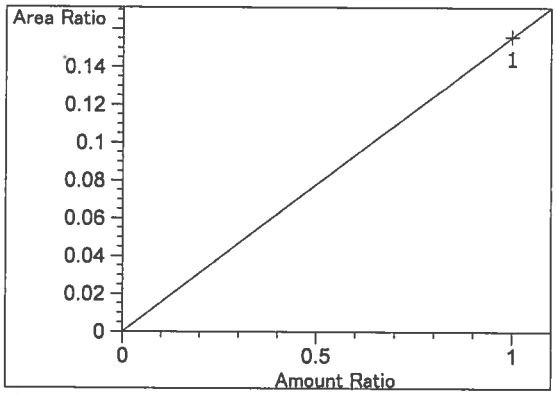


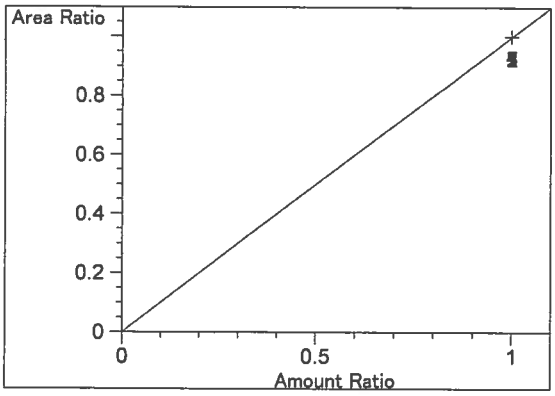
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.38395e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00306e-1
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: 1.55799e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.926
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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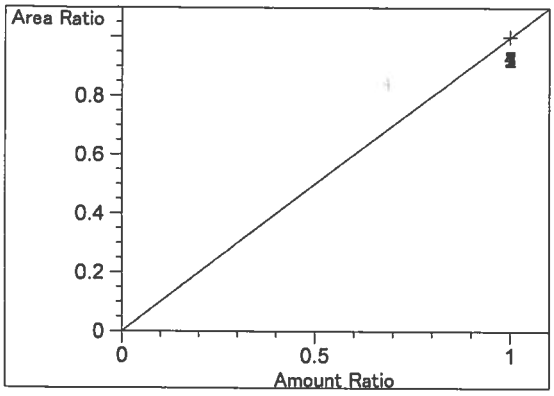

n-Propanol at exp. RT: 7.594
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_09.12.2015_02.18.21\12-09-2015cal.S
Data directory path: C:\Chem32\1\Data\12-09-15caljj
Logbook: C:\Chem32\1\Data\12-09-15caljj\12-09-2015cal.LOG
Sequence start: 12/9/2015 2:39:15 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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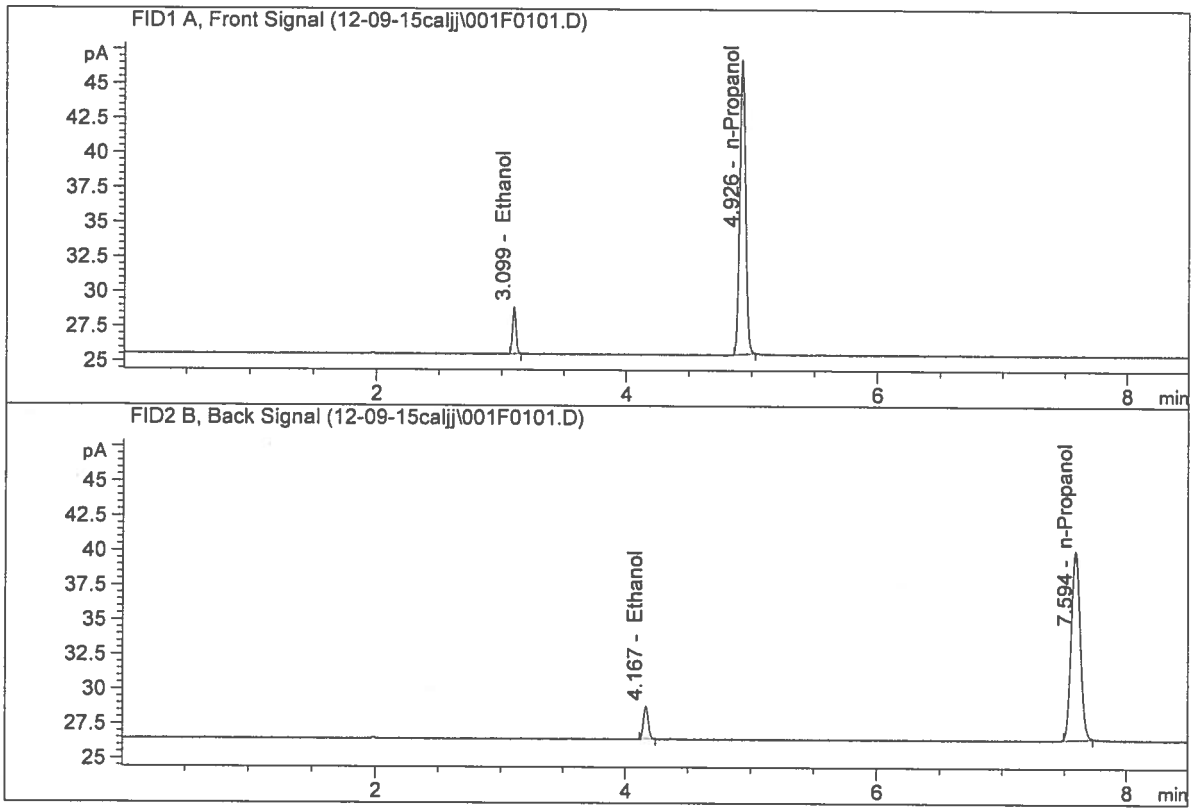
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.55523	0.0501	g/100cc
2.	Ethanol	Column 2:	6.47379	0.0495	g/100cc
3.	n-Propanol	Column 1:	69.26081	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.71951	1.0000	g/100cc

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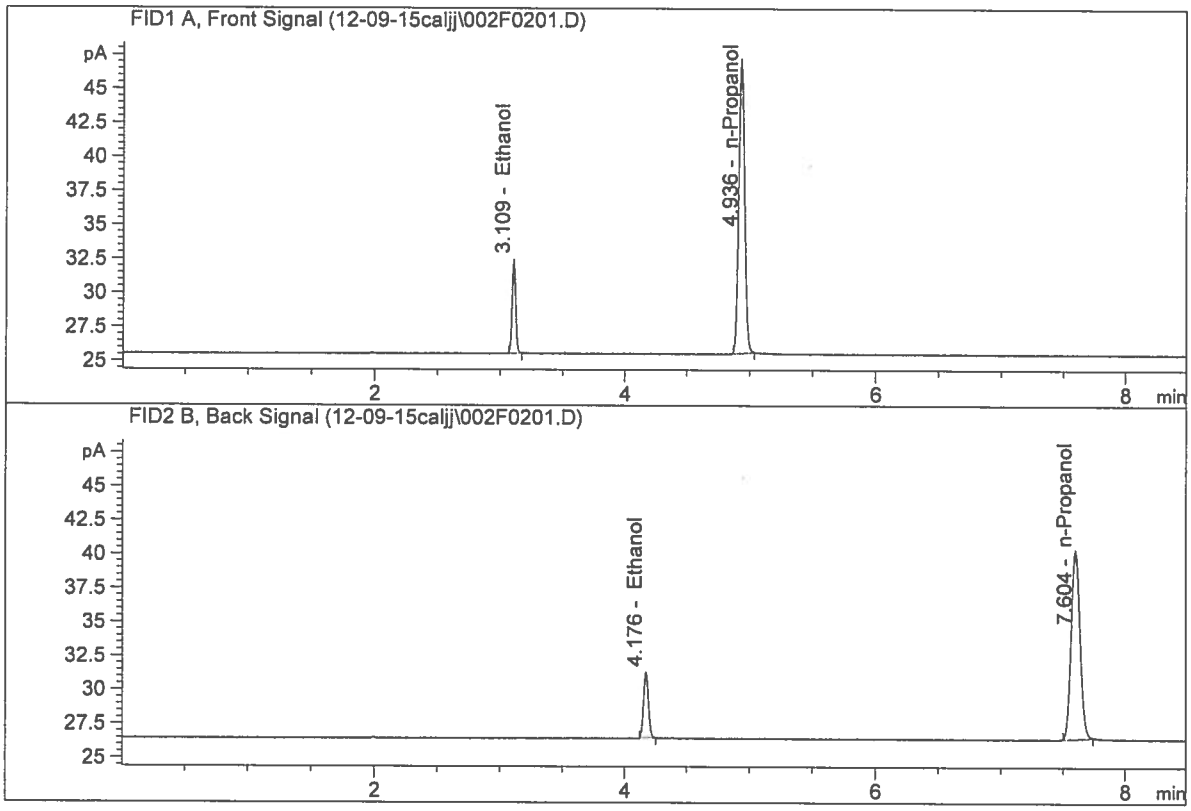
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.41586	0.1006	g/100cc
2.	Ethanol	Column 2:	13.28147	0.0995	g/100cc
3.	n-Propanol	Column 1:	70.61391	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.11260	1.0000	g/100cc

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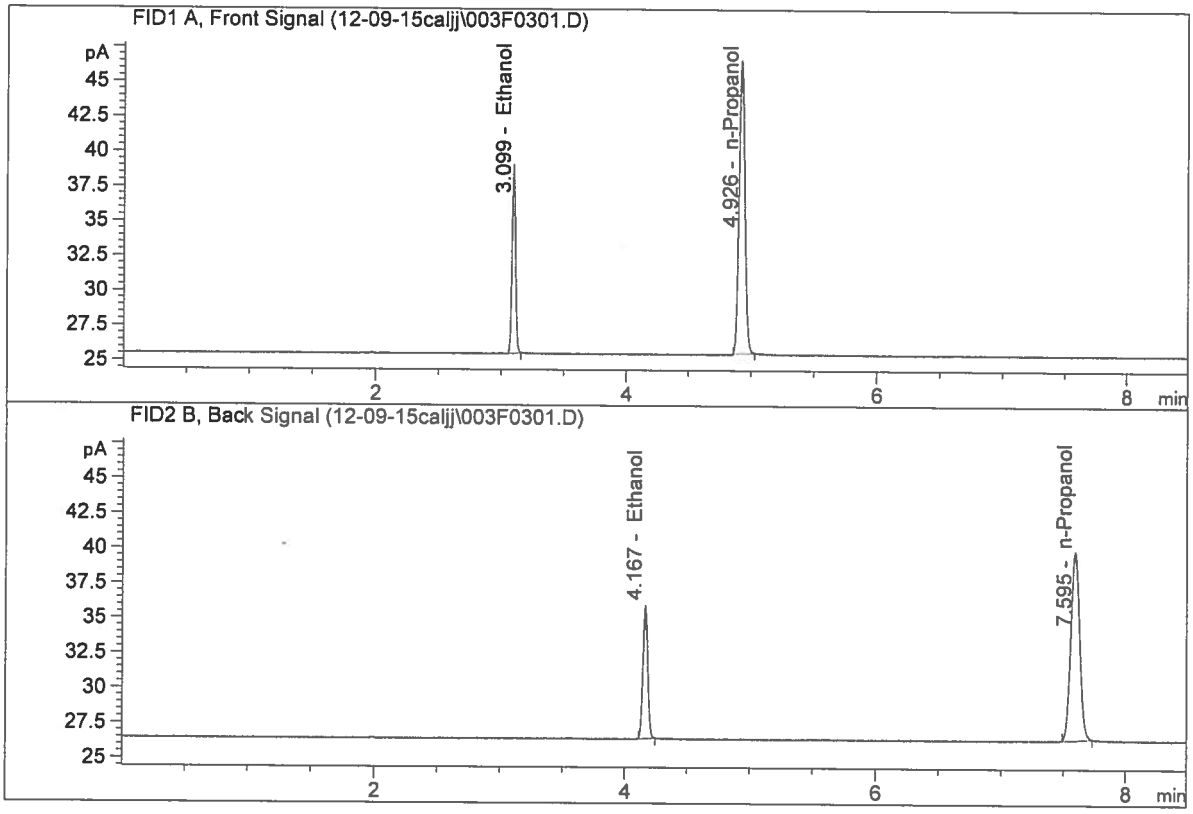
ISP Forensic Services Blood Alcohol Report

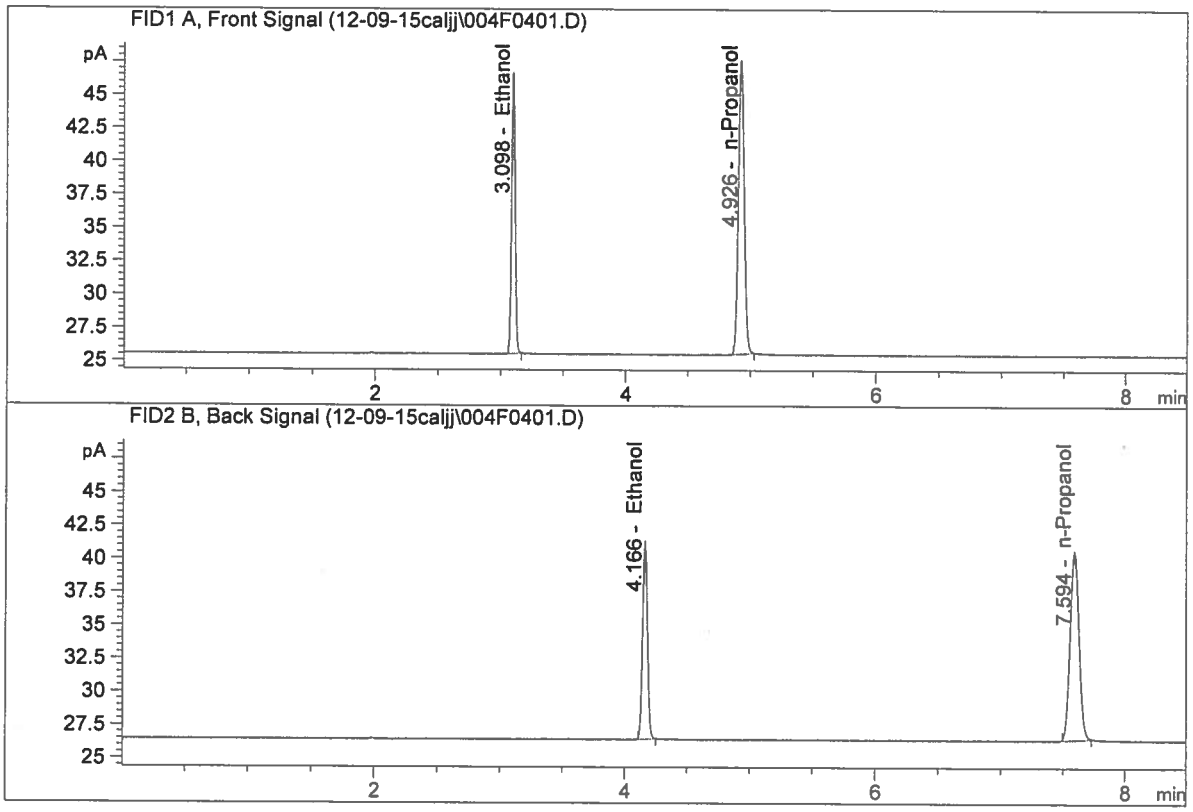
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.13417	0.2013	g/100cc
2.	Ethanol	Column 2:	25.91017	0.1997	g/100cc
3.	n-Propanol	Column 1:	68.75541	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.12130	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

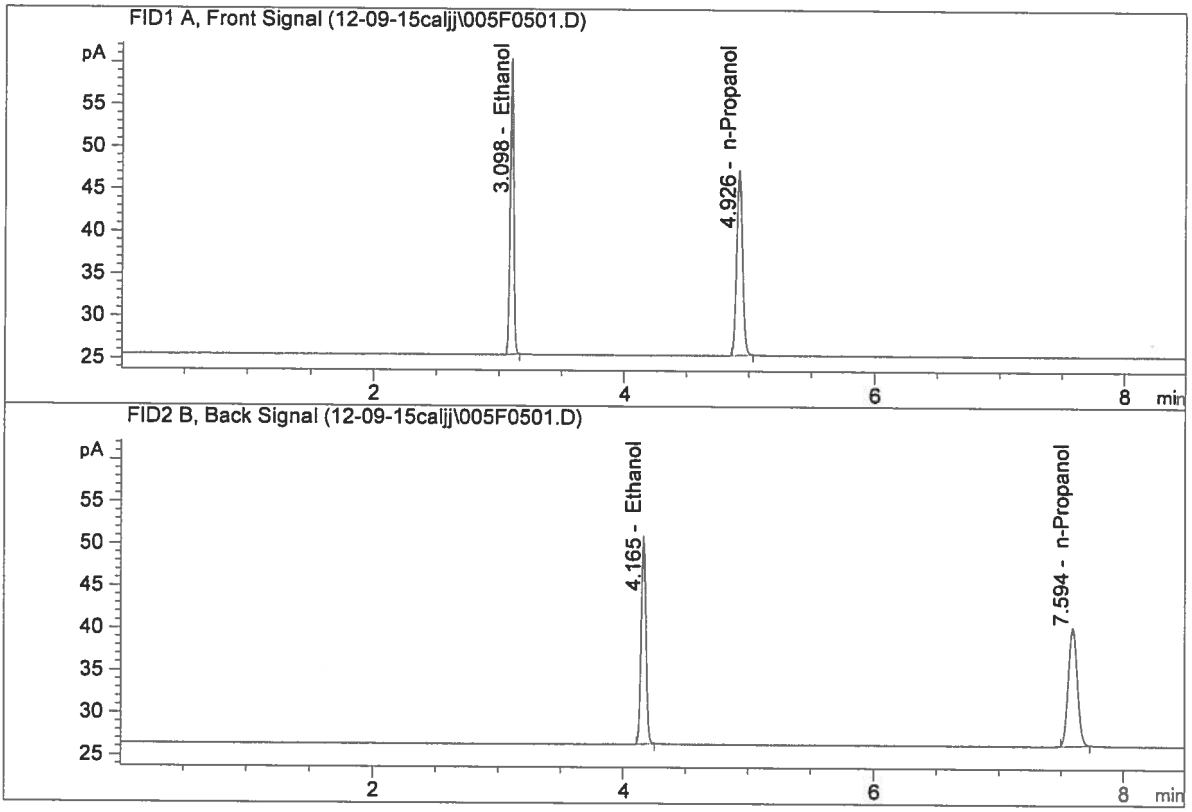
Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	40.78463	0.2995	g/100cc
2.	Ethanol	Column 2:	40.54746	0.2990	g/100cc
3.	n-Propanol	Column 1:	72.12617	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.18814	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

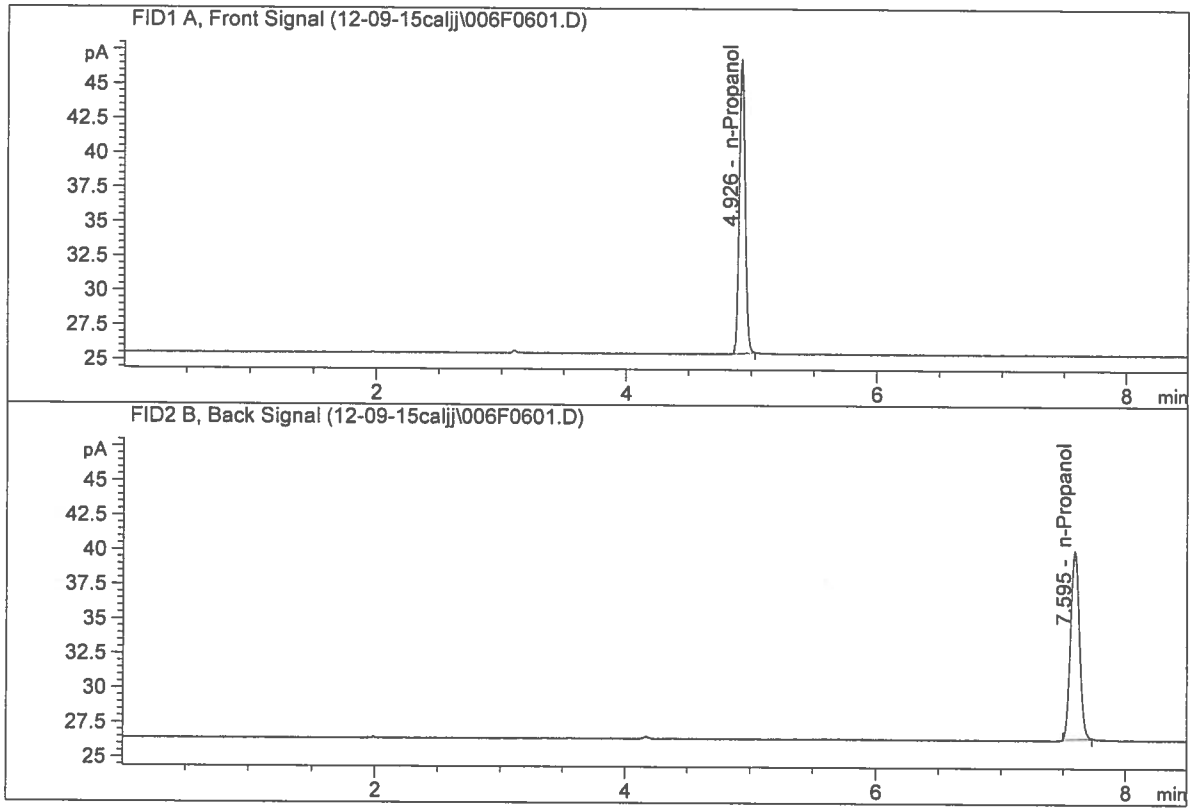
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	67.34683	0.4996	g/100cc
2.	Ethanol	Column 2:	66.94464	0.5009	g/100cc
3.	n-Propanol	Column 1:	71.39388	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.17210	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

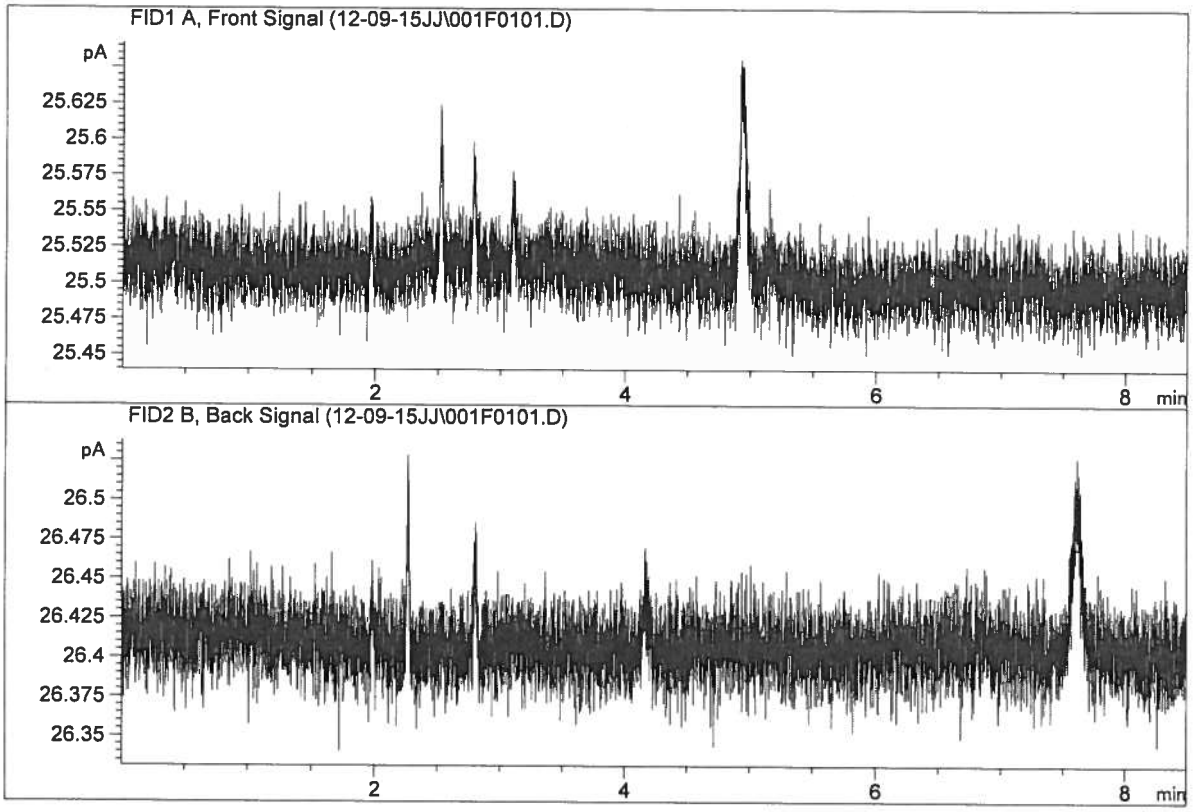
Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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:	69.62158	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.91406	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

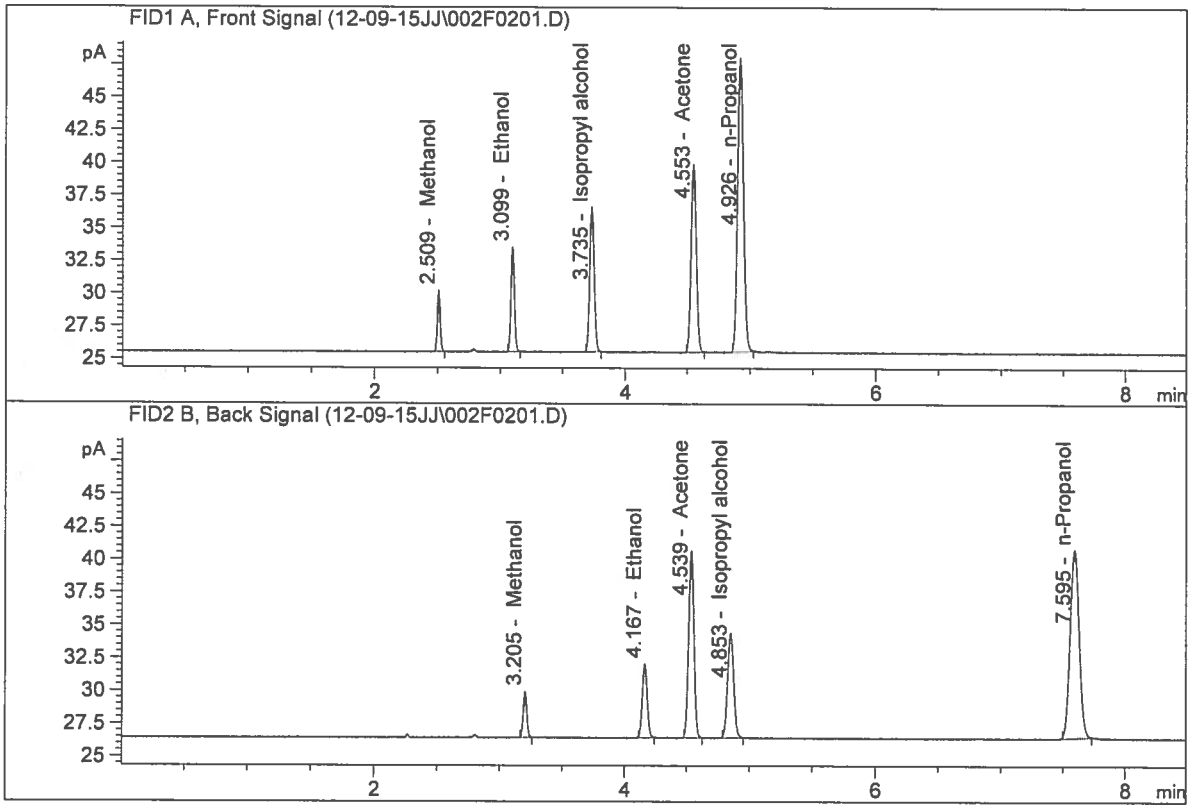
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

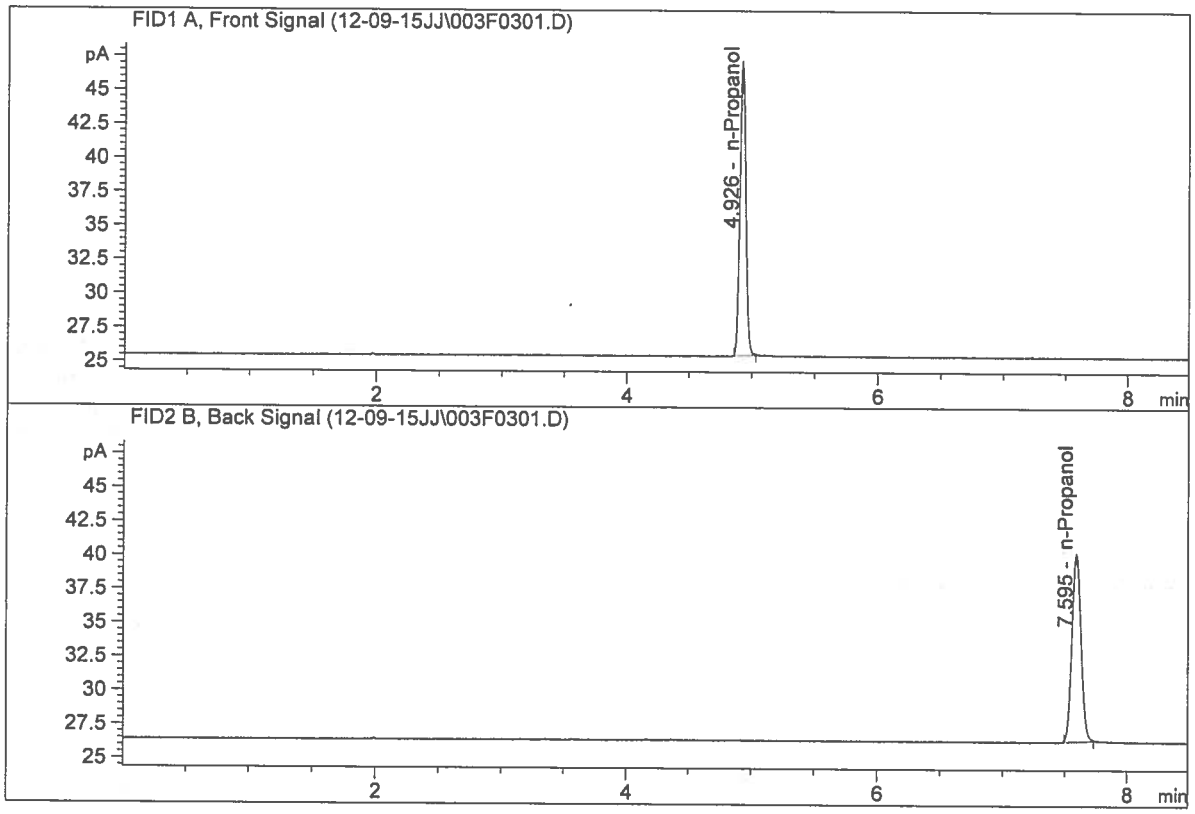
Sample Name : VOL MIX FN-012111-01
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.48174	0.1124	g/100cc
2.	Ethanol	Column 2:	15.47797	0.1126	g/100cc
3.	n-Propanol	Column 1:	72.96479	1.0000	g/100cc
4.	n-Propanol	Column 2:	72.15450	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
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:	70.68484	1.0000	g/100cc
4.	n-Propanol	Column 2:	70.03295	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 09 Dec 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0791	0.0785	0.0006	0.0788	0.0788
(g/100cc)	0.0790	0.0786	0.0004	0.0788	

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: MD-96GF641

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

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

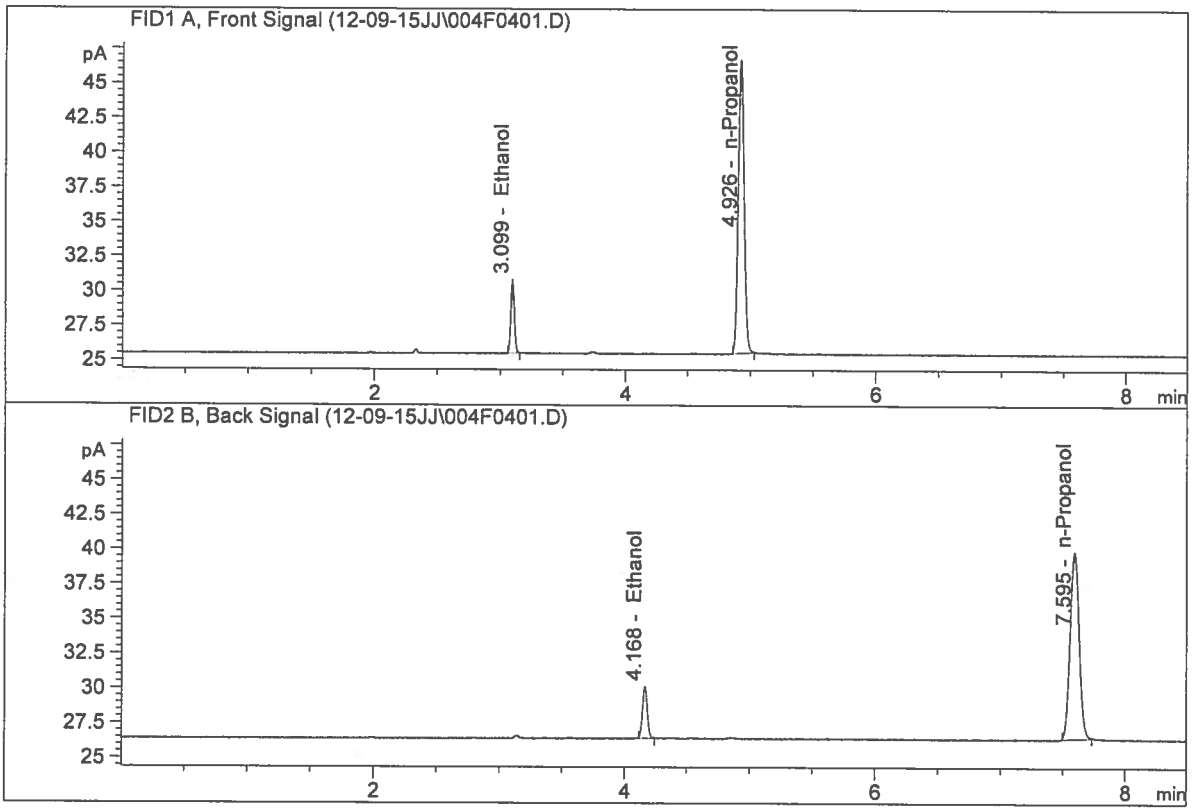
Reported Result
0.078

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

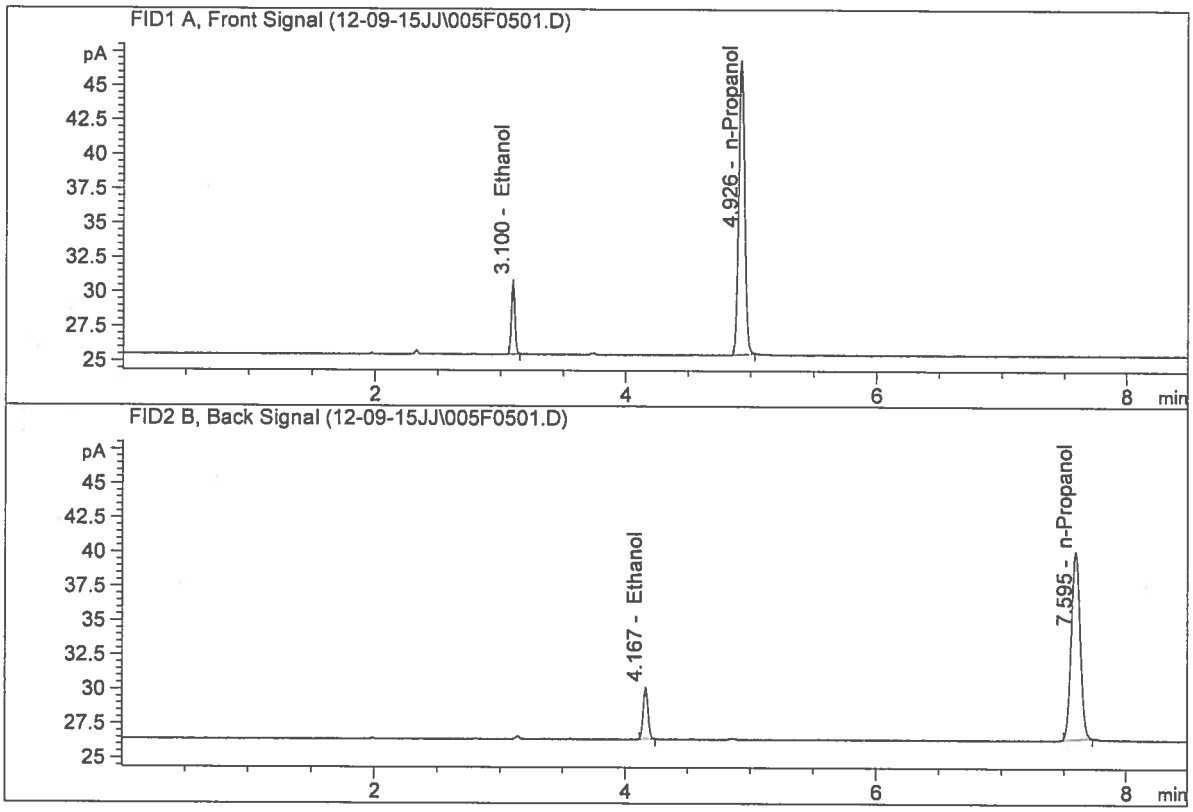
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.33218	0.0791	g/100cc
2.	Ethanol	Column 2:	10.21648	0.0785	g/100cc
3.	n-Propanol	Column 1:	69.14433	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.35192	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.41477	0.0790	g/100cc
2.	Ethanol	Column 2:	10.32676	0.0786	g/100cc
3.	n-Propanol	Column 1:	69.78549	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.00010	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304 **Analysis Date(s): 09 Dec 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0810	0.0799	0.0011	0.0804	0.0806
(g/100cc)	0.0811	0.0804	0.0007	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: MD-96GF641

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

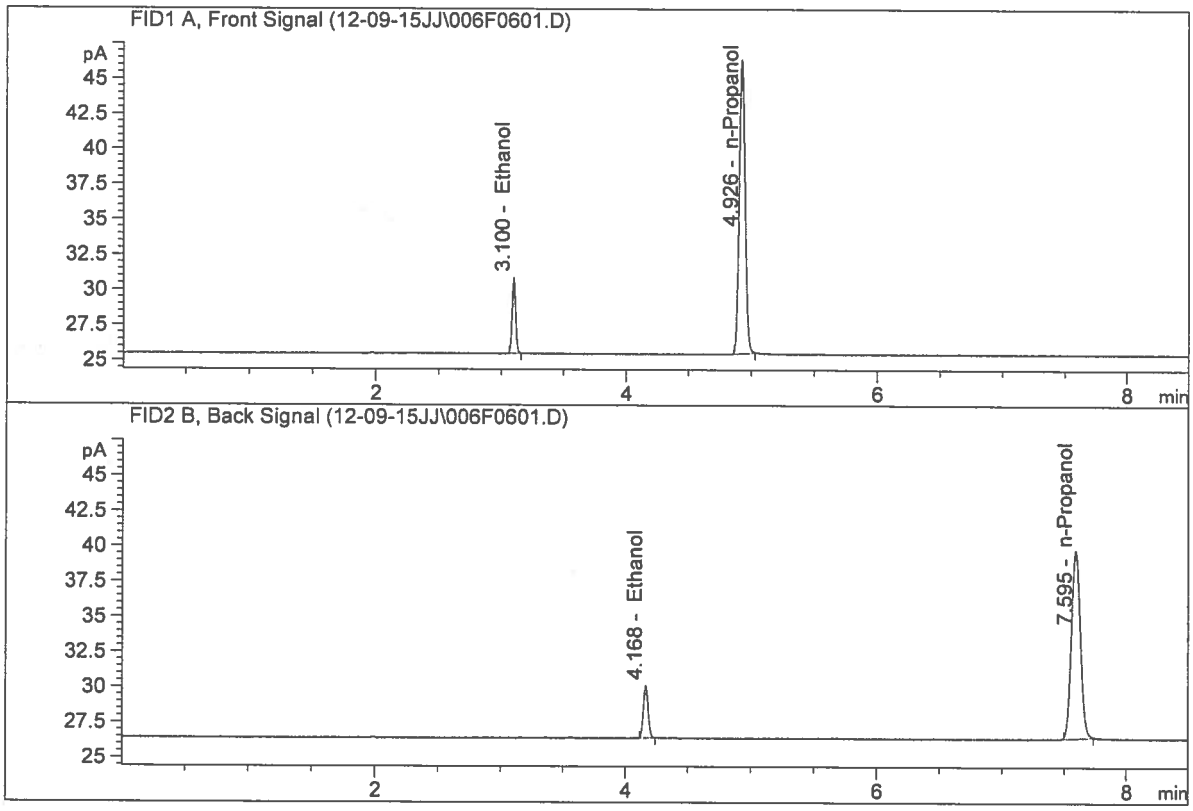
Reported Result
0.080

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

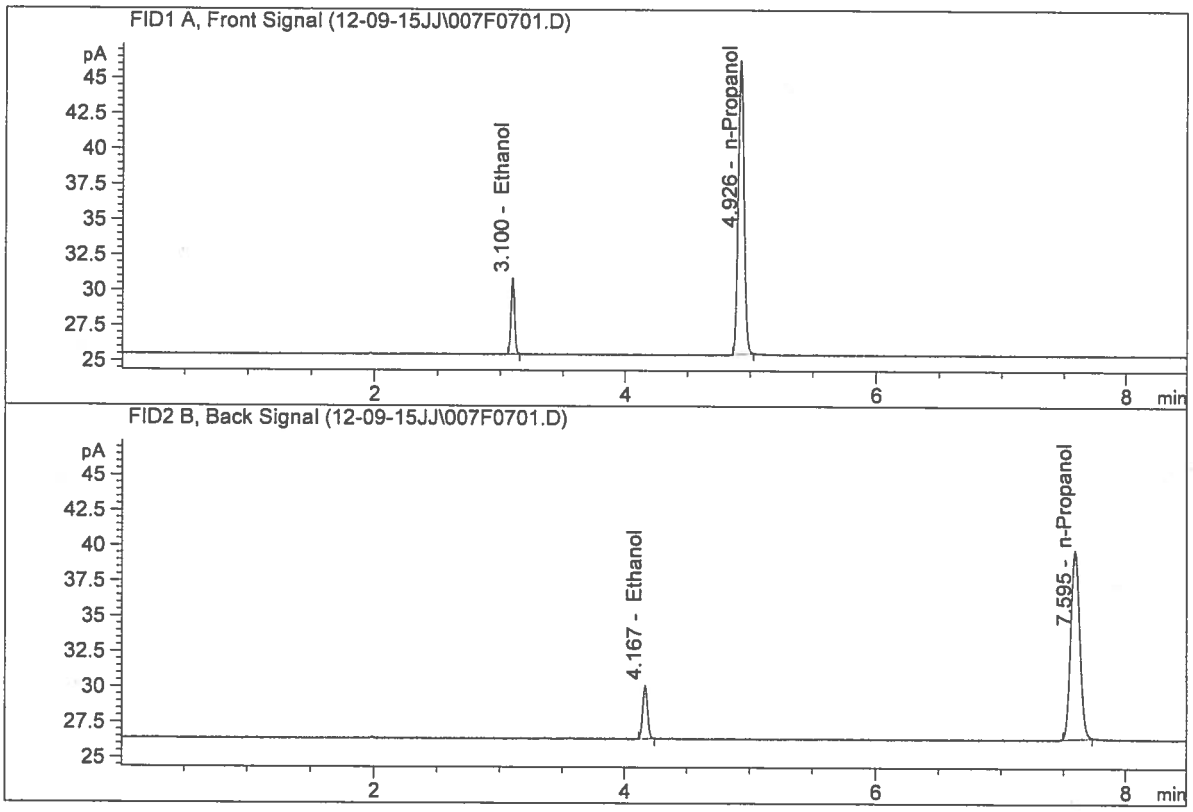
Sample Name : 0.08 FN09051304-A
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.42659	0.0810	g/100cc
2.	Ethanol	Column 2:	10.25926	0.0799	g/100cc
3.	n-Propanol	Column 1:	68.20007	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.40255	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.41911	0.0811	g/100cc
2.	Ethanol	Column 2:	10.30457	0.0804	g/100cc
3.	n-Propanol	Column 1:	68.00434	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.25400	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 09 Dec 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2071	0.2062	0.0009	0.2066	0.2069
(g/100cc)	0.2077	0.2066	0.0011	0.2071	

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: MD-96GF641

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.206	0.195	0.217	0.011

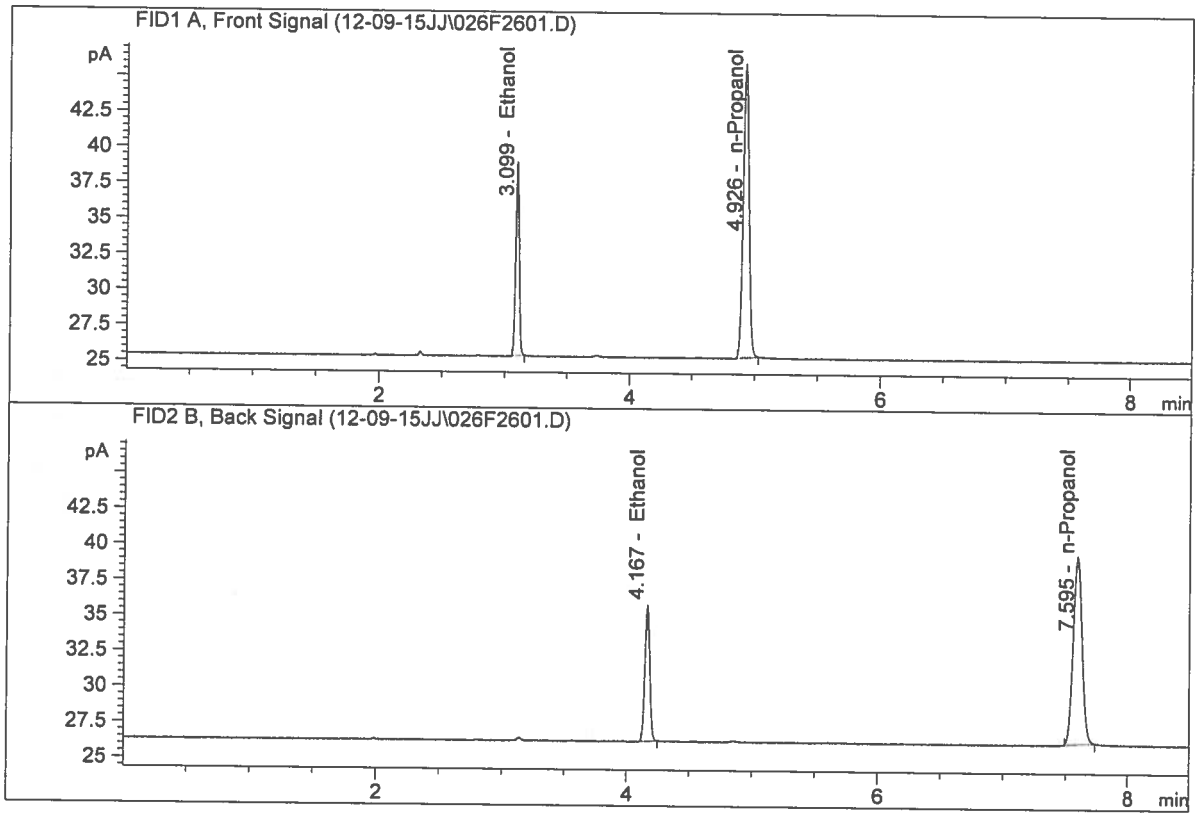
Reported Result
0.206

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

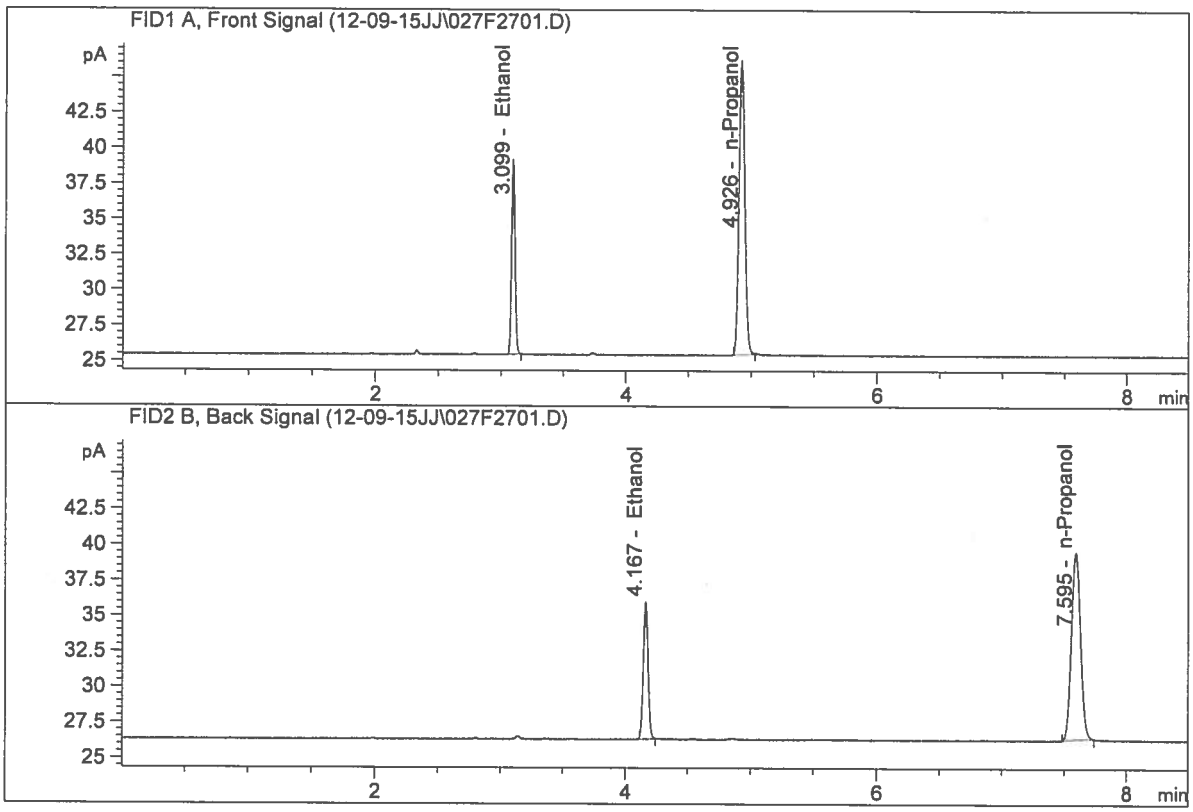
Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.28832	0.2071	g/100cc
2.	Ethanol	Column 2:	26.12402	0.2062	g/100cc
3.	n-Propanol	Column 1:	67.24732	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.50075	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Dec 9, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.49152	0.2077	g/100cc
2.	Ethanol	Column 2:	26.30858	0.2066	g/100cc
3.	n-Propanol	Column 1:	67.54729	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.84210	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 10 Dec 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0814	0.0809	0.0005	0.0811	0.0809
(g/100cc)	0.0809	0.0804	0.0005	0.0806	

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: MD-96GF641

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

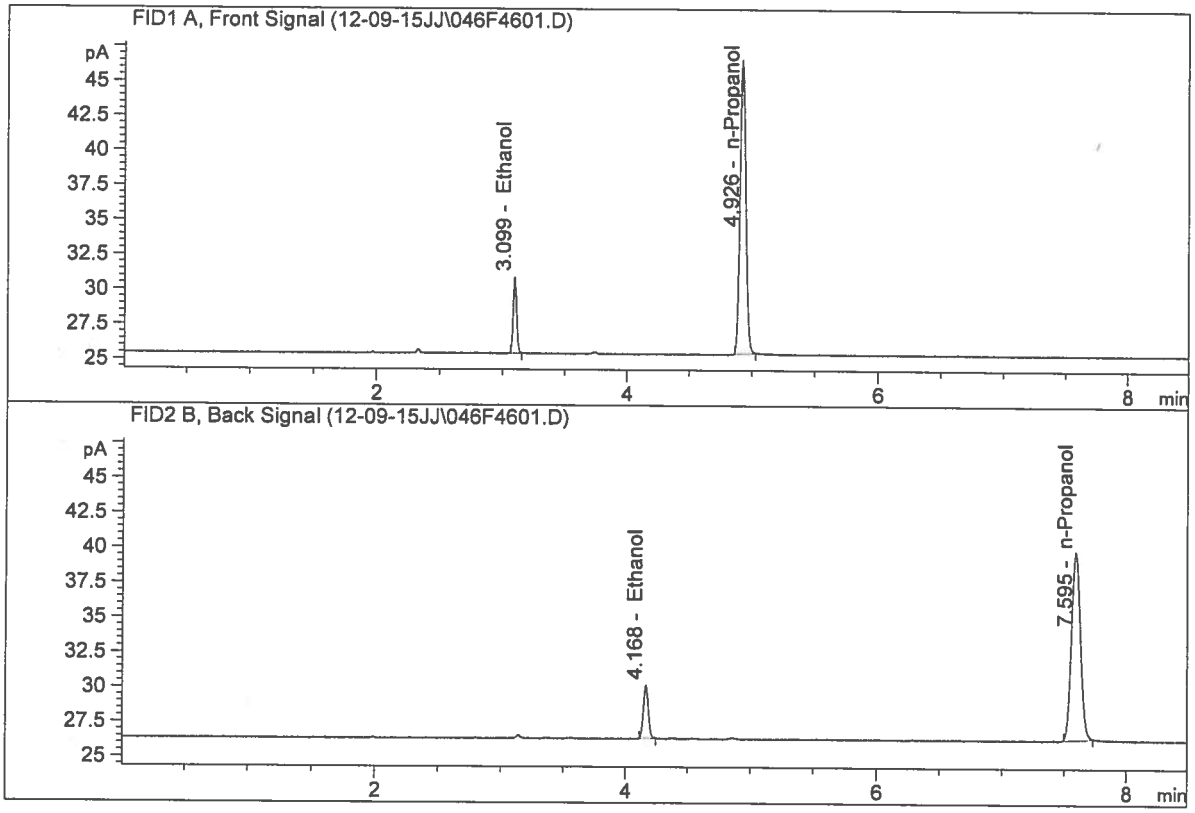
Reported Result
0.080

Calibration and control data are stored centrally.

Issued: 01/16/2014
Volatiles BAC Calculation Spreadsheet Rev 3
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

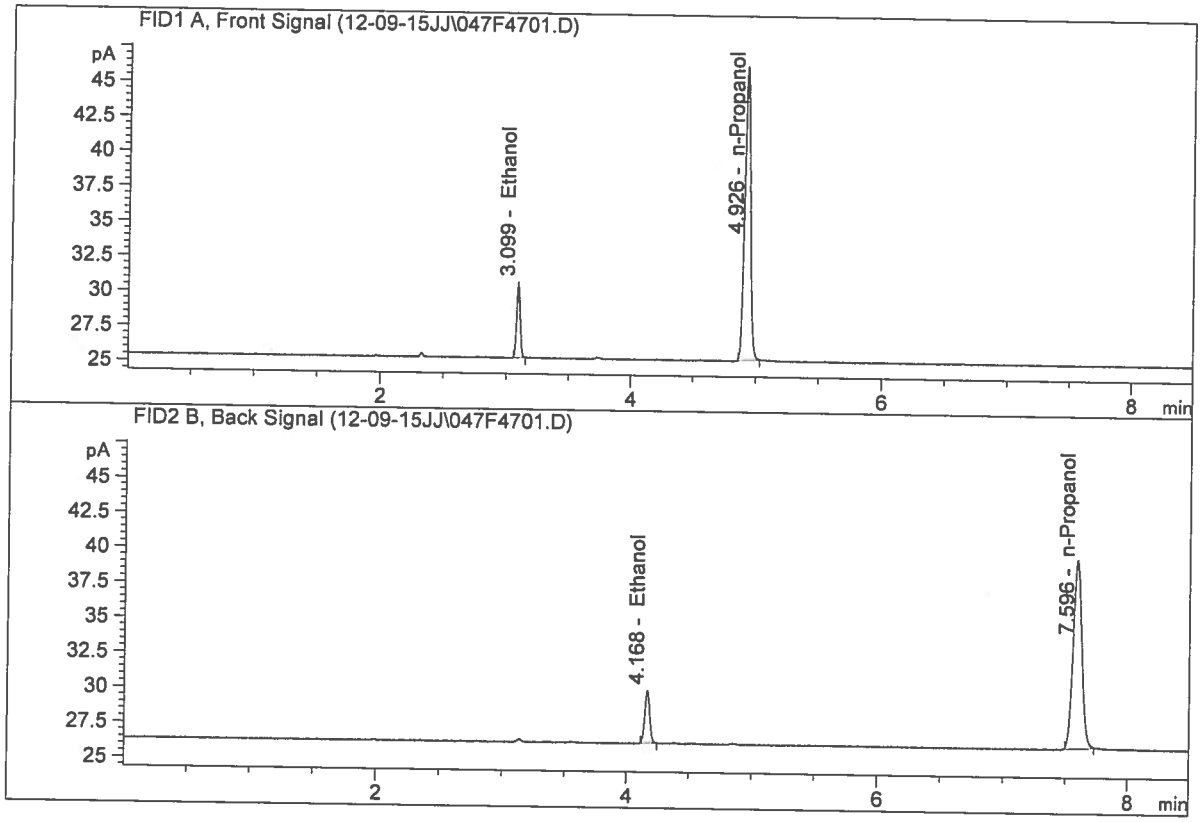
Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Dec 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.59648	0.0814	g/100cc
2.	Ethanol	Column 2:	10.50045	0.0809	g/100cc
3.	n-Propanol	Column 1:	68.98952	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.17311	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

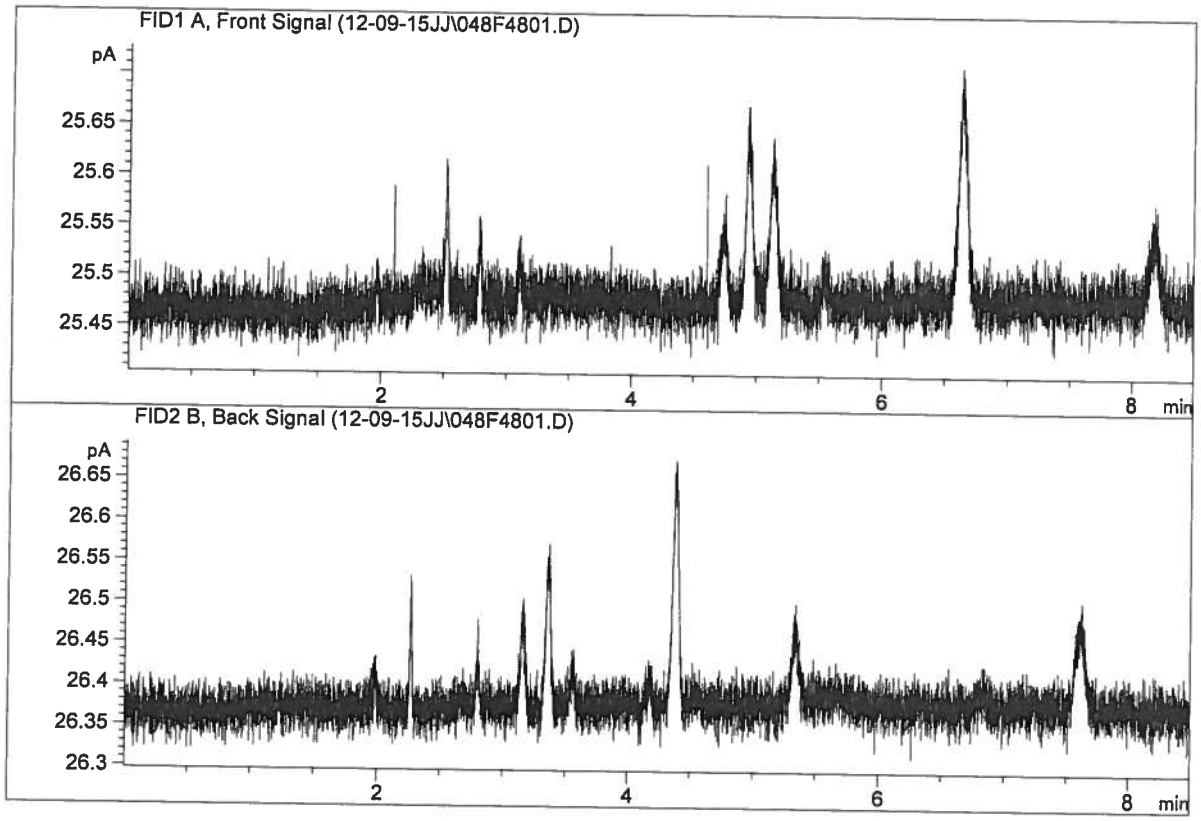
Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Dec 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.48257	0.0809	g/100cc
2.	Ethanol	Column 2:	10.39209	0.0804	g/100cc
3.	n-Propanol	Column 1:	68.65284	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.86772	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

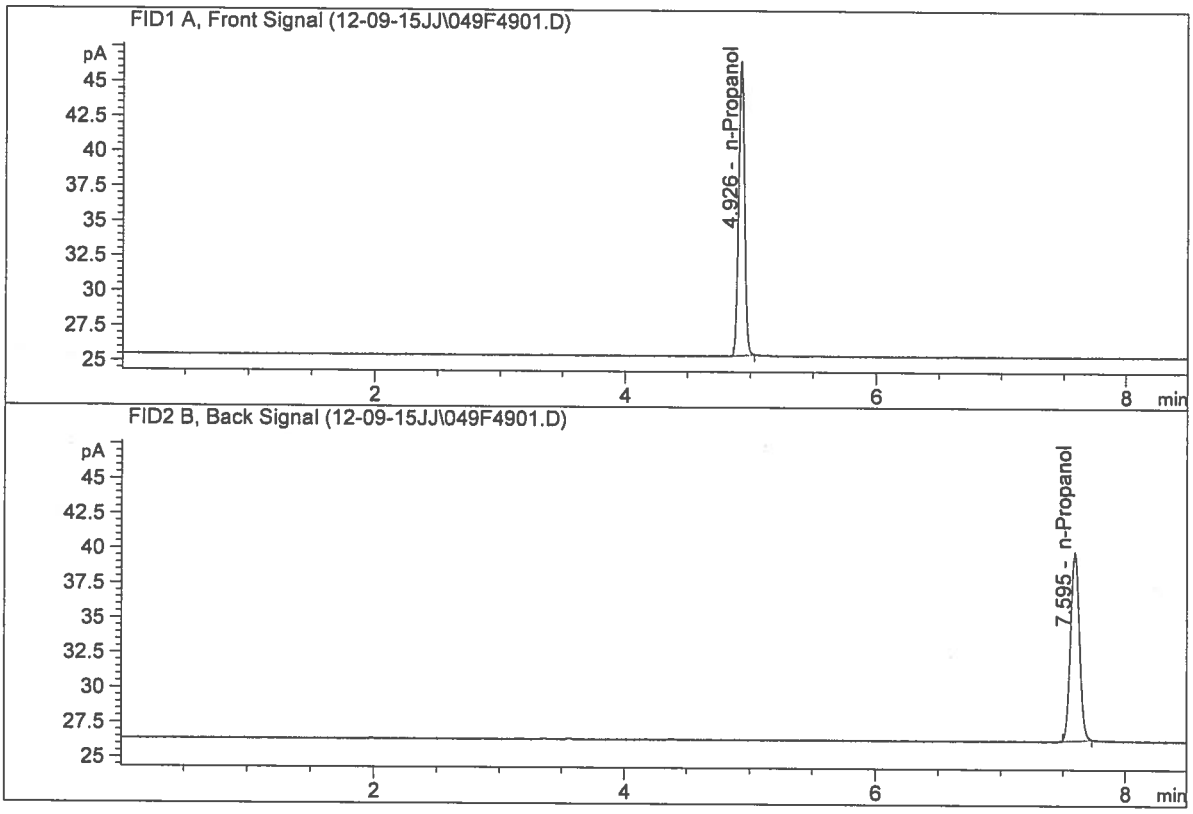
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Dec 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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 : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Dec 10, 2015
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:	68.93033	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.23004	1.0000	g/100cc