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): 1/5/2016**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Dec-16	1211090	0.0773	0.0696-0.0850	0.0799 g/100cc
					0.0800 g/100cc
					g/100cc
Level 2	Jan-17	1212091	0.2020	0.1818-0.2222	0.2034 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	0.0500	0.0497	0.0003	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	0.0996	0.0989	0.0007	0.0992
0.200	Mar-17	FN032712-01	0.200	0.180 - 0.220	0.2012	0.2003	0.0009	0.2007
0.300	Oct-18	FN09061305	0.300	0.270 - 0.330	0.2997	0.2994	0.0003	0.2995
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Jan-18	FN01281301	0.500	0.450 - 0.550	0.4998	0.5005	0.0007	0.5001

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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1/6/2016

Worklist: 960

LAB CASE	ITEM	TASK ID	DESCRIPTION
C2015-2272	1	47189	Alcohol Analysis
C2015-2296	1	47347	Alcohol Analysis
C2015-2300	1	47414	Alcohol Analysis
C2015-2304	1	47456	Alcohol Analysis
C2015-2307	1	47481	Alcohol Analysis
C2015-2313	1	47505	Alcohol Analysis
C2015-2329	1	47622	Alcohol Analysis
C2015-2349	1	47849	Alcohol Analysis
C2015-2350	1	47853	Alcohol Analysis
C2015-2365	1	48034	Alcohol Analysis
C2016-0001	1	48137	Alcohol Analysis
C2016-0007	1	48235	Alcohol Analysis
C2016-0008	1	48248	Alcohol Analysis

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_05.01.2016_02.39.01\1-5-2016.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_05.01.2016_02.39.01\1-5-2016.S
Data directory path: C:\Chem32\1\Data\1-5-16JJ
Logbook: C:\Chem32\1\Data\1-5-16JJ\1-5-2016.LOG
Sequence start: 1/5/2016 2:52:46 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	C2015-2272-1-A	-	1.0000	008F0801.D		4
9	9	1	C2015-2272-1-B	-	1.0000	009F0901.D		4
10	10	1	C2015-2296-1-A	-	1.0000	010F1001.D		4
11	11	1	C2015-2296-1-B	-	1.0000	011F1101.D		4
12	12	1	C2015-2300-1-A	-	1.0000	012F1201.D		4
13	13	1	C2015-2300-1-B	-	1.0000	013F1301.D		4
14	14	1	C2015-2304-1-A	-	1.0000	014F1401.D		4
15	15	1	C2015-2304-1-B	-	1.0000	015F1501.D		4
16	16	1	C2015-2307-1-A	-	1.0000	016F1601.D		4
17	17	1	C2015-2307-1-B	-	1.0000	017F1701.D		4
18	18	1	C2015-2313-1-A	-	1.0000	018F1801.D		4
19	19	1	C2015-2313-1-B	-	1.0000	019F1901.D		4
20	20	1	C2015-2329-1-A	-	1.0000	020F2001.D		4
21	21	1	C2015-2329-1-B	-	1.0000	021F2101.D		4
22	22	1	C2015-2349-1-A	-	1.0000	022F2201.D		4
23	23	1	C2015-2349-1-B	-	1.0000	023F2301.D		4
24	24	1	C2015-2350-1-A	-	1.0000	024F2401.D		2
25	25	1	C2015-2350-1-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	C2015-2365-1-A	-	1.0000	028F2801.D		4
29	29	1	C2015-2365-1-B	-	1.0000	029F2901.D		4
30	30	1	C2016-0001-1-A	-	1.0000	030F3001.D		2
31	31	1	C2016-0001-1-B	-	1.0000	031F3101.D		2
32	32	1	C2016-0007-1-A	-	1.0000	032F3201.D		4
33	33	1	C2016-0007-1-B	-	1.0000	033F3301.D		4
34	34	1	C2016-0008-1-A	-	1.0000	034F3401.D		4
35	35	1	C2016-0008-1-B	-	1.0000	035F3501.D		4
36	36	1	QC-1-A	-	1.0000	036F3601.D		4
37	37	1	QC-1-B	-	1.0000	037F3701.D		4
38	38	1	water	-	1.0000	038F3801.D		0
39	39	1	ISTD BLANK	-	1.0000	039F3901.D		2

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Calibration Table

General Calibration Setting

Calib. Data Modified : Tuesday, January 05, 2016 2:28:23 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

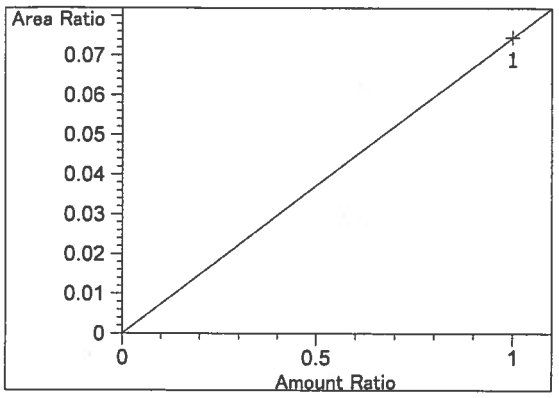
Method C:\CHEM32\1\METHODS\ALCOHOL.M

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
3.097	1	1	5.00000e-2	6.43302	7.77240e-3	No	No	1	Ethanol
		2	1.00000e-1	13.06161	7.65602e-3				
		3	2.00000e-1	25.34787	7.89021e-3				
		4	3.00000e-1	38.83849	7.72430e-3				
		5	5.00000e-1	65.09835	7.68069e-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
4.164	2	1	5.00000e-2	6.41402	7.79542e-3	No	No	2	Ethanol
		2	1.00000e-1	12.94969	7.72219e-3				
		3	2.00000e-1	25.18100	7.94250e-3				
		4	3.00000e-1	38.60983	7.77004e-3				
		5	5.00000e-1	64.75483	7.72143e-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
4.924	1	1	1.00000	67.45507	1.48247e-2	No	Yes	1	n-Propanol
		2	1.00000	68.72678	1.45504e-2				
		3	1.00000	66.00581	1.51502e-2				
		4	1.00000	67.88623	1.47305e-2				
		5	1.00000	68.24129	1.46539e-2				
7.591	2	1	1.00000	67.08829	1.49057e-2	No	Yes	2	n-Propanol
		2	1.00000	68.01210	1.47033e-2				
		3	1.00000	65.31761	1.53098e-2				
		4	1.00000	67.01990	1.49209e-2				
		5	1.00000	67.23330	1.48736e-2				

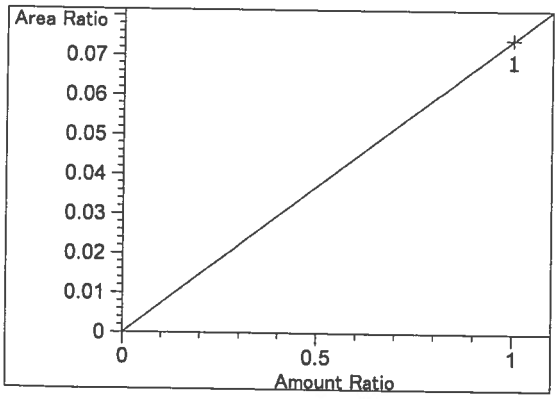
Peak Sum Table

No Entries in table

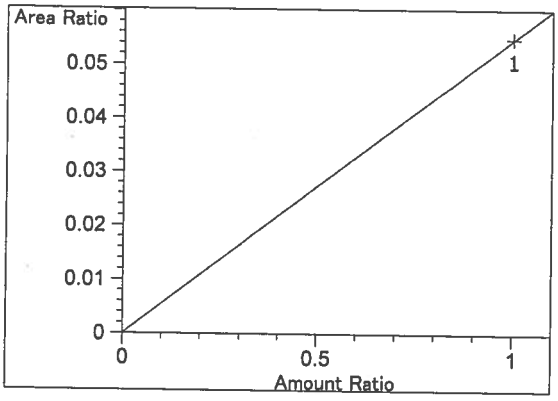
Calibration Curves



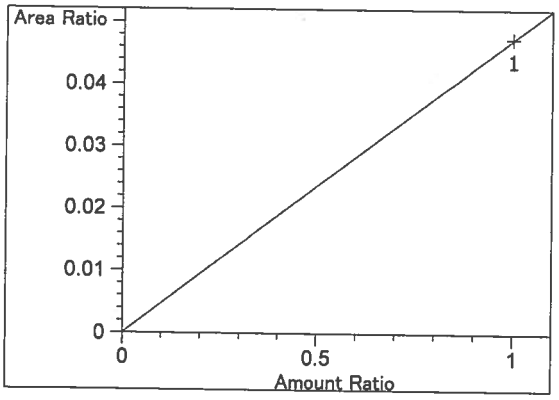
Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.45286e-2
x: Amount Ratio
y: Area Ratio



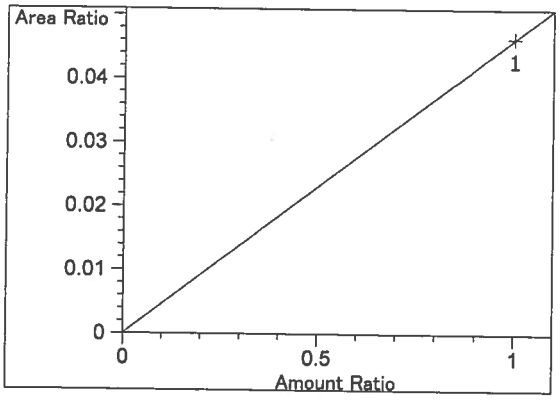
Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.41234e-2
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.48023e-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: 4.73368e-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: 4.62935e-2
x: Amount Ratio
y: Area Ratio

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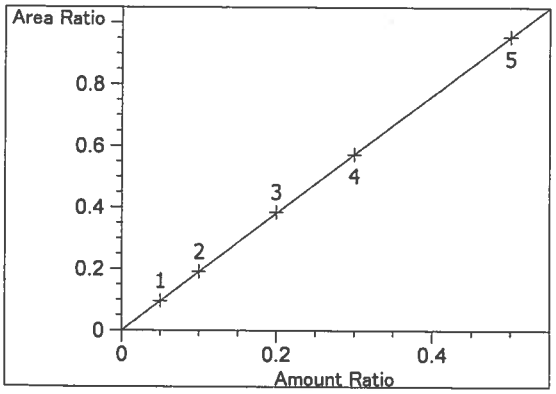
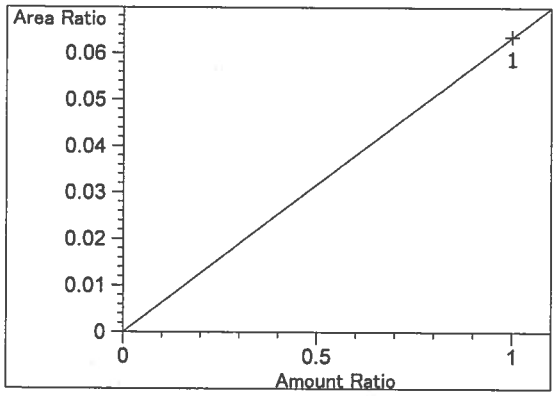
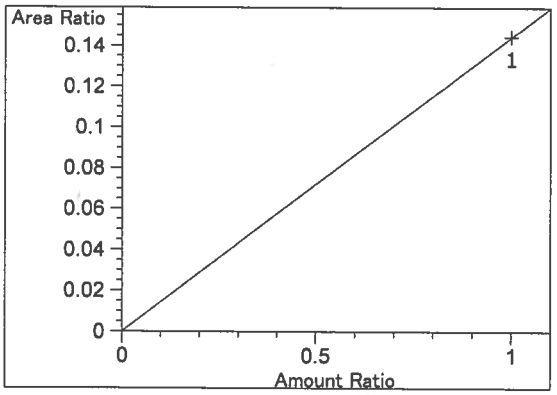
Method C:\CHEM32\1\METHODS\ALCOHOL.M



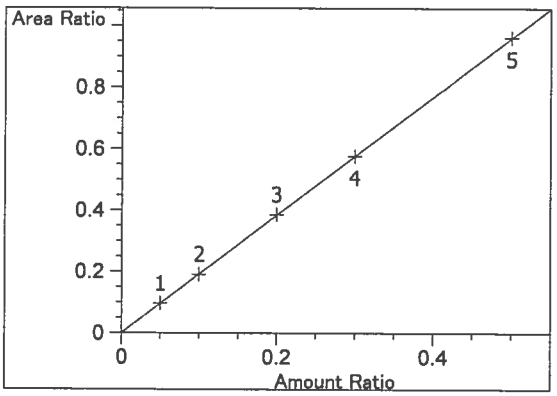
Ethanol at exp. RT: 3.097
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00126
Formula: y = mx
m: 1.90875
x: Amount Ratio
y: Area Ratio



Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.35077e-2
x: Amount Ratio
y: Area Ratio

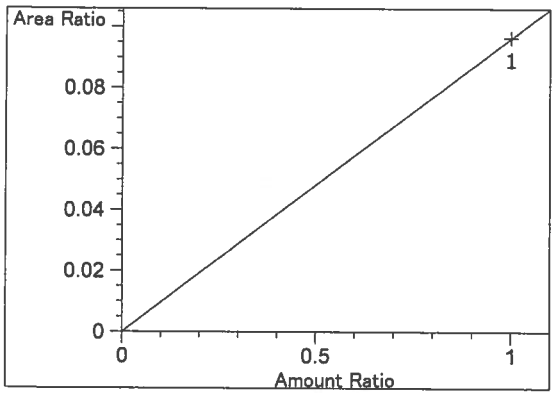


Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.44252e-1
x: Amount Ratio
y: Area Ratio

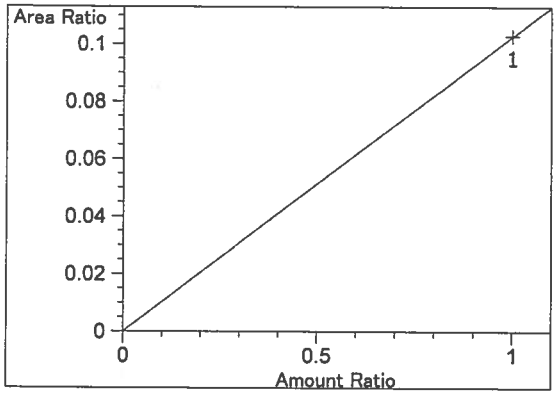


Ethanol at exp. RT: 4.164
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00135
Formula: y = mx
m: 1.92438
x: Amount Ratio
y: Area Ratio

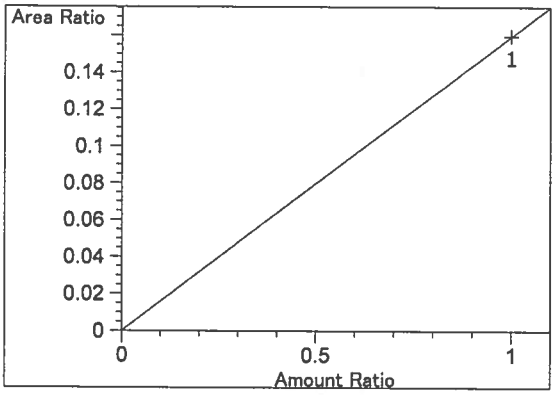
Method C:\CHEM32\1\METHODS\ALCOHOL.M



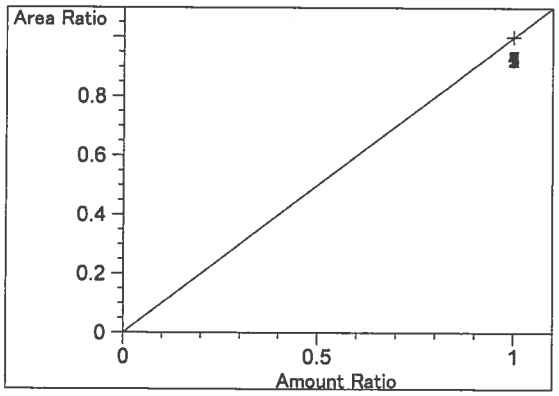
Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 9.63516e-2
x: Amount Ratio
y: Area Ratio



Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.02745e-1
x: Amount Ratio
y: Area Ratio

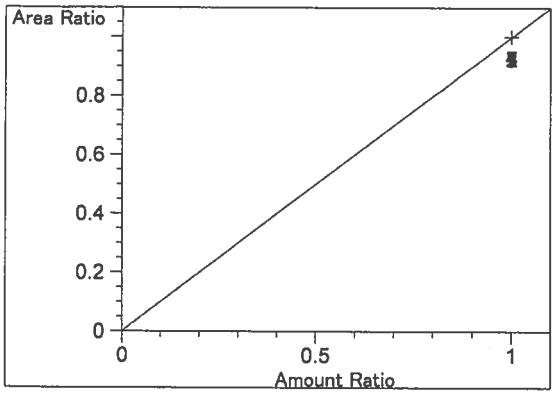


Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.59587e-1
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 4.924
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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



n-Propanol at exp. RT: 7.591
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

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Sequence File C:\Chem32\1\TEMP\AESEQ\QS_05.01.2016_12.57.53\1-5-2016cal.S

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_05.01.2016_12.57.53\1-5-2016cal.S
Data directory path: C:\Chem32\1\Data\1-5-16caljj
Logbook: C:\Chem32\1\Data\1-5-16caljj\1-5-2016cal.LOG
Sequence start: 1/5/2016 1:11:35 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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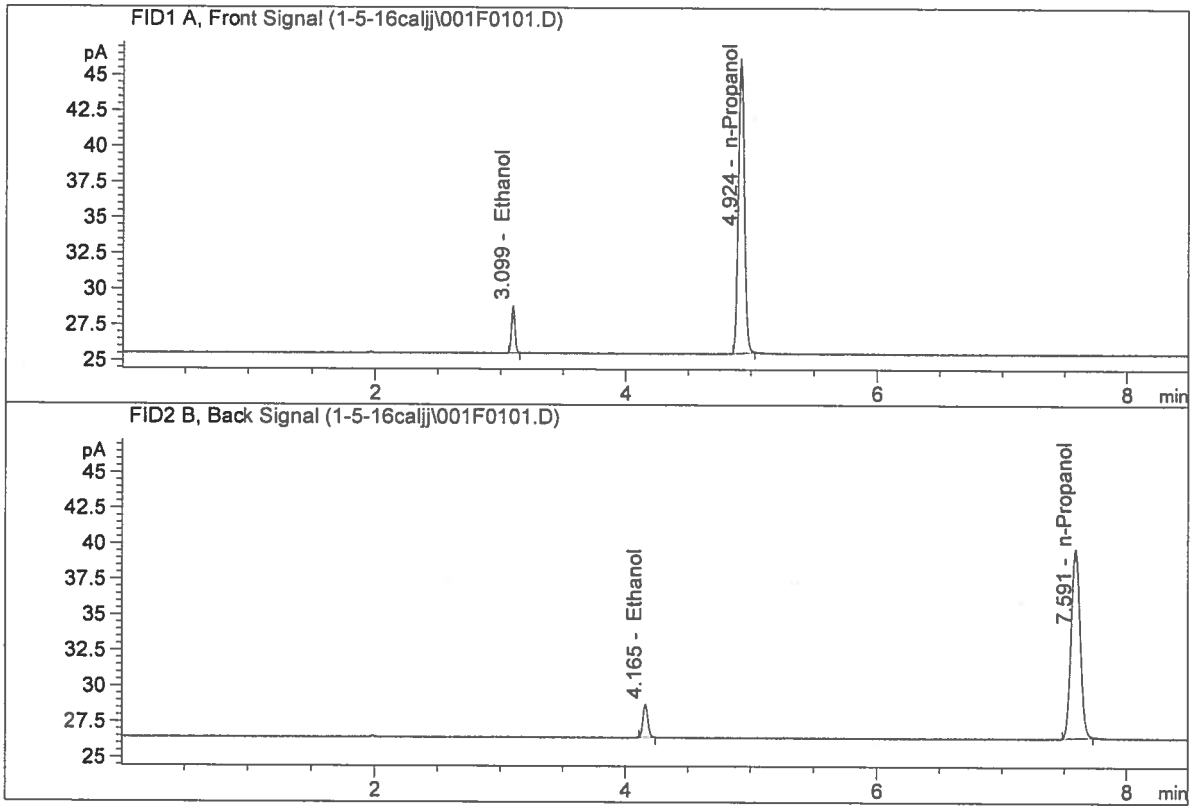
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.43302	0.0500	g/100cc
2.	Ethanol	Column 2:	6.41402	0.0497	g/100cc
3.	n-Propanol	Column 1:	67.45507	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.08829	1.0000	g/100cc

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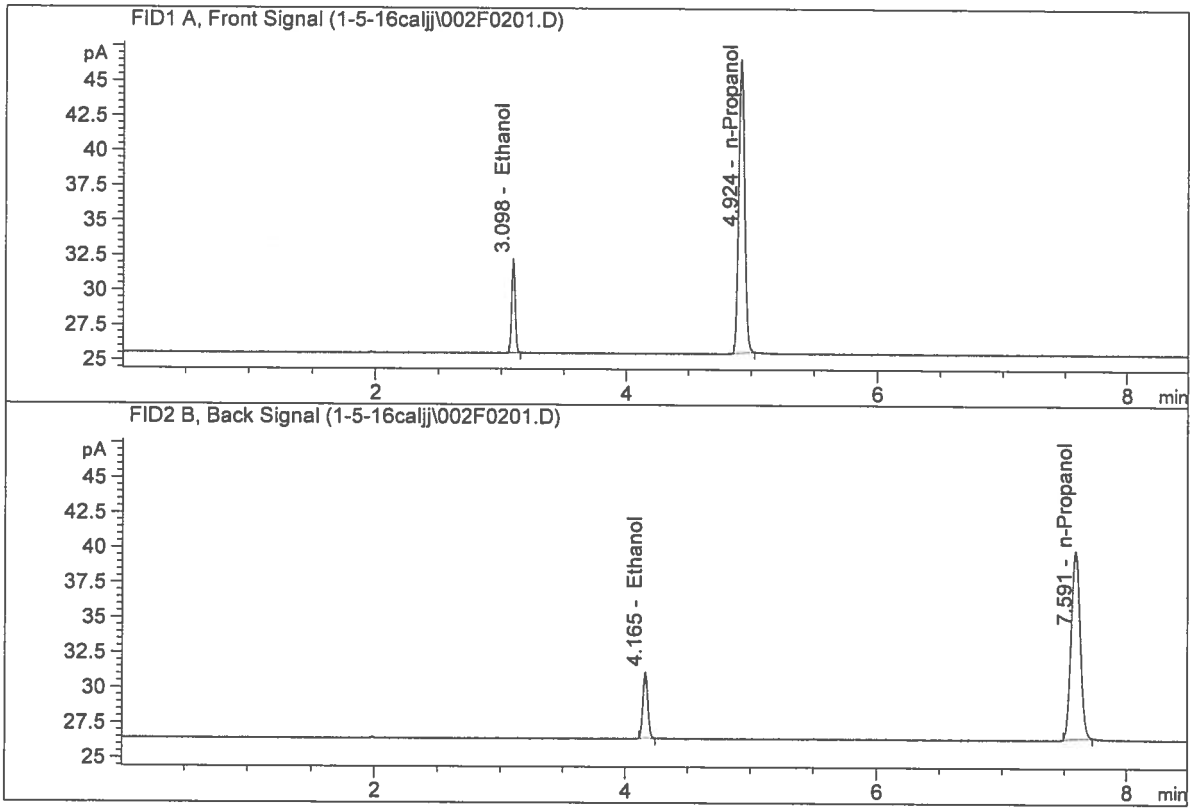
ISP Forensic Services Blood Alcohol Report

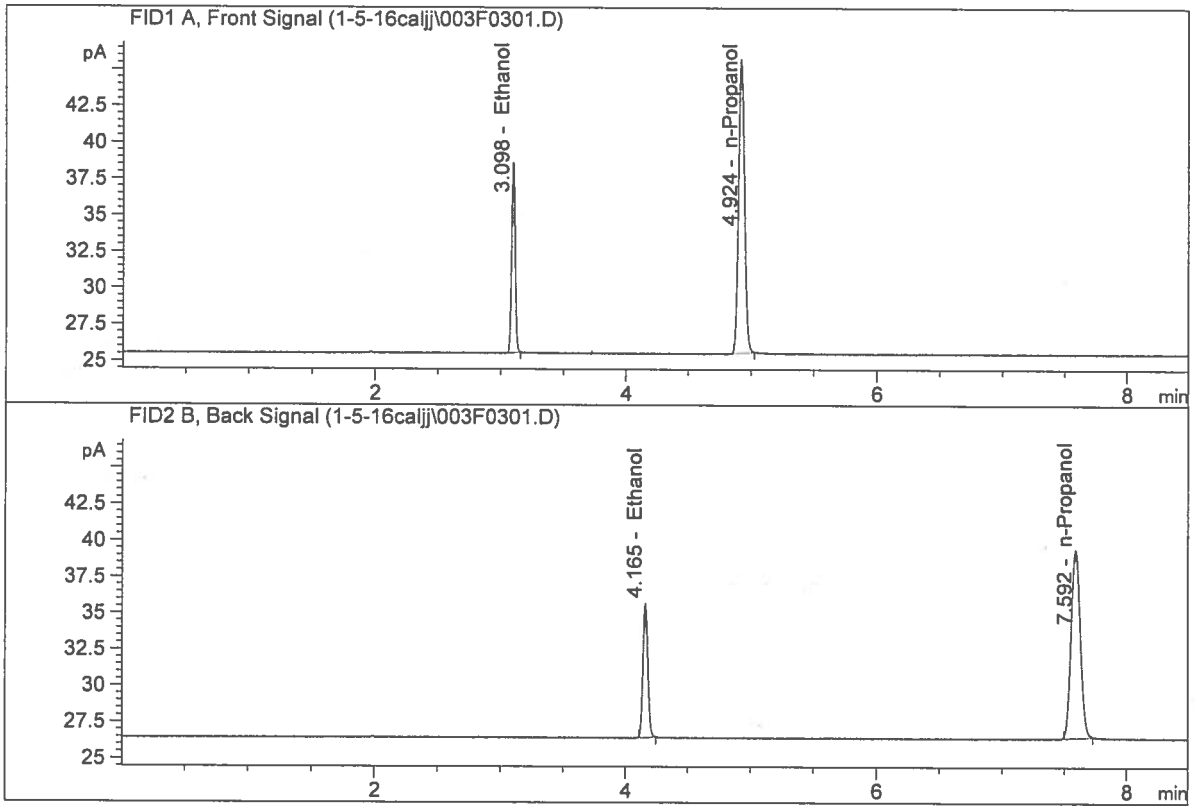
Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.06161	0.0996	g/100cc
2.	Ethanol	Column 2:	12.94969	0.0989	g/100cc
3.	n-Propanol	Column 1:	68.72678	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.01210	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

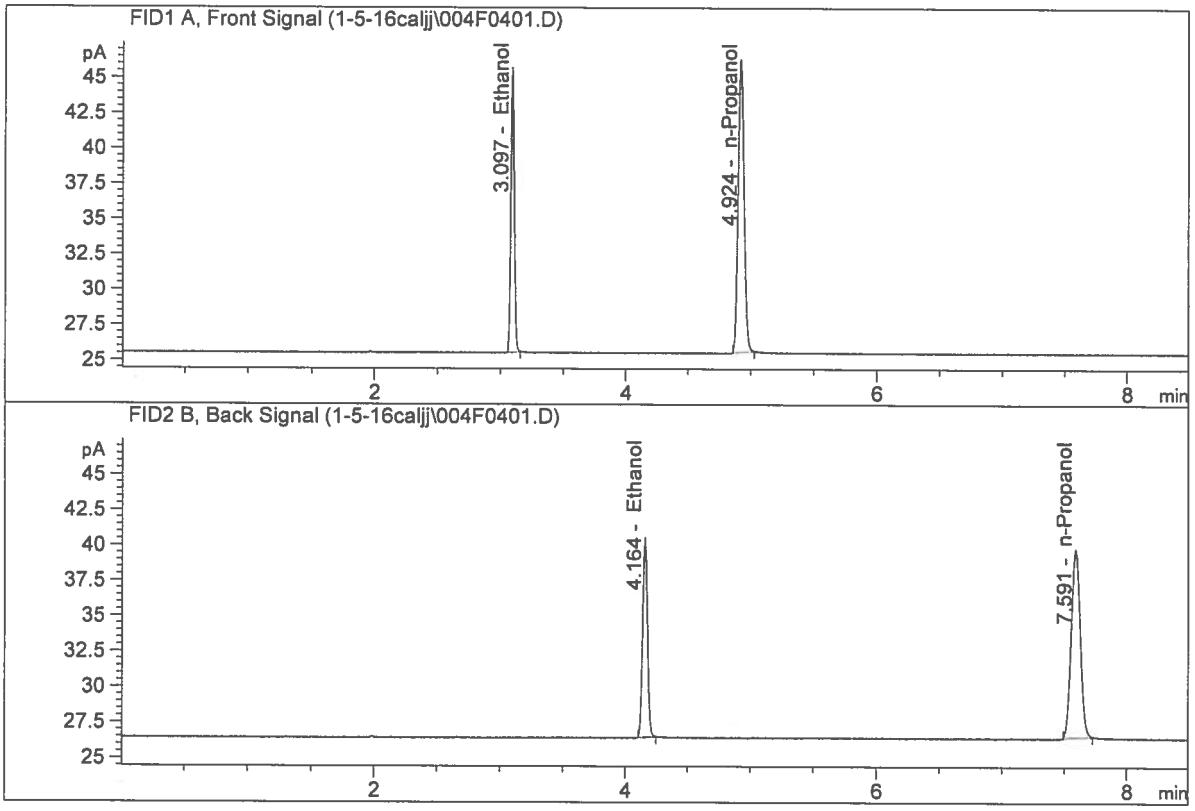
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	25.34787	0.2012	g/100cc
2.	Ethanol	Column 2:	25.18100	0.2003	g/100cc
3.	n-Propanol	Column 1:	66.00581	1.0000	g/100cc
4.	n-Propanol	Column 2:	65.31761	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

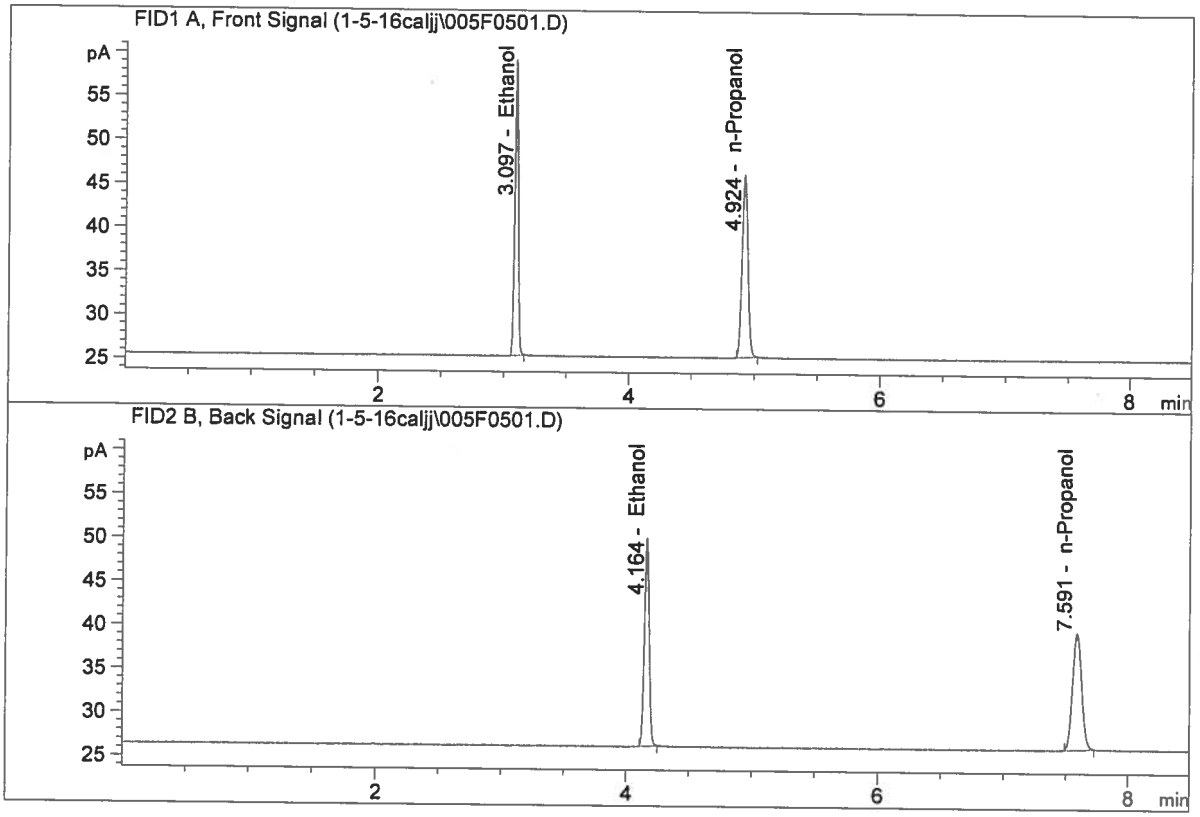


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	38.83849	0.2997	g/100cc
2.	Ethanol	Column 2:	38.60983	0.2994	g/100cc
3.	n-Propanol	Column 1:	67.88623	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.01990	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

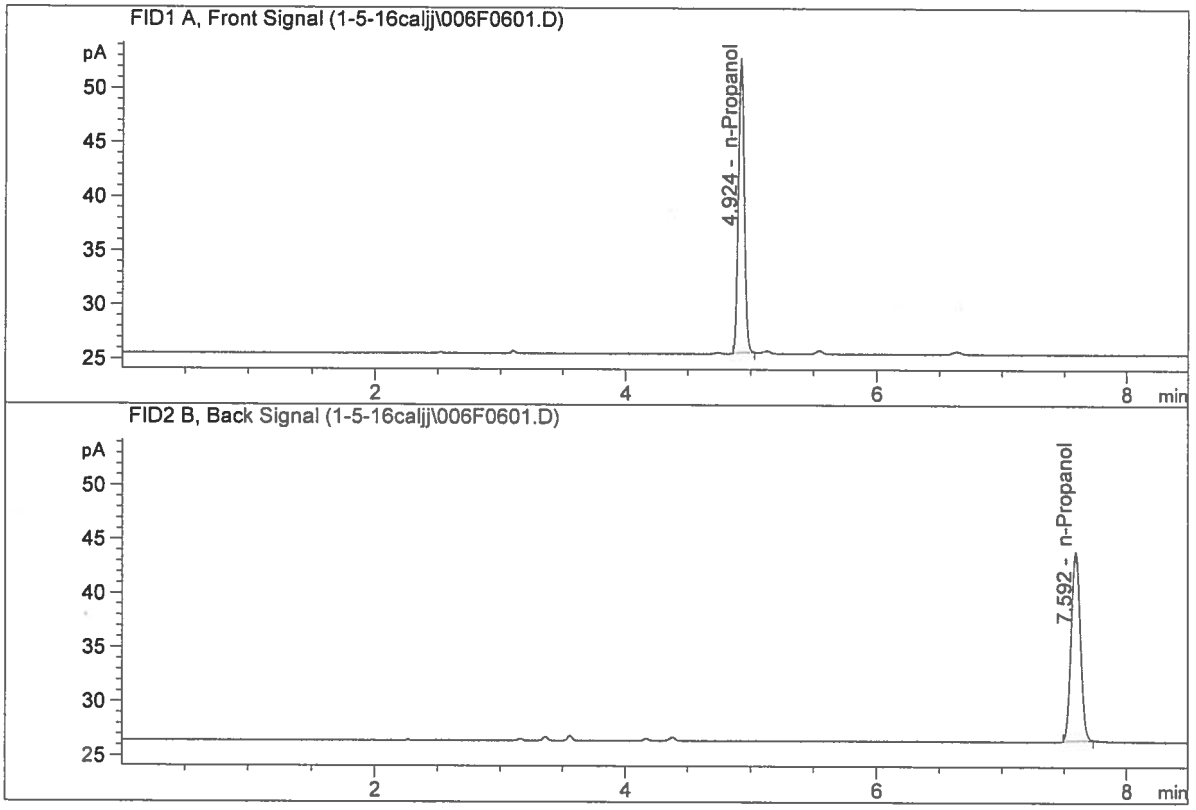


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	65.09835	0.4998	g/100cc
2.	Ethanol	Column 2:	64.75483	0.5005	g/100cc
3.	n-Propanol	Column 1:	68.24129	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.23330	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

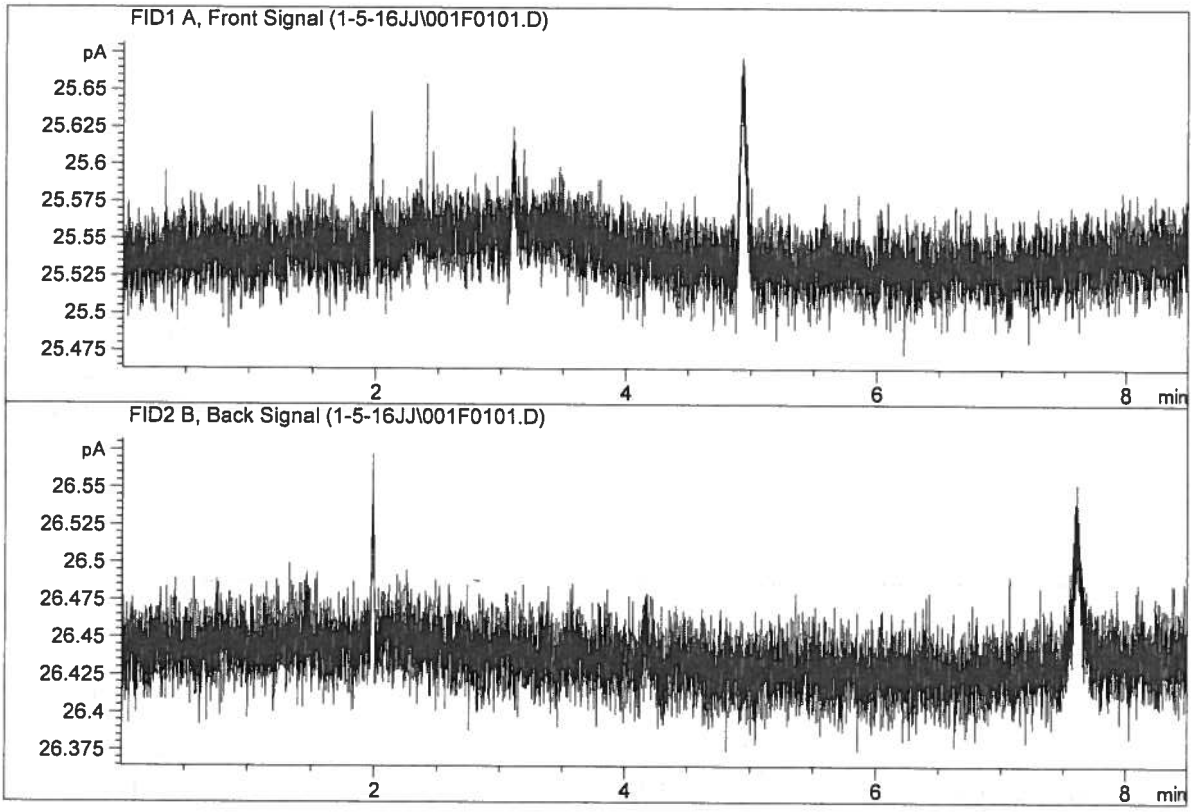


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	88.69653	1.0000	g/100cc
4.	n-Propanol	Column 2:	88.31507	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

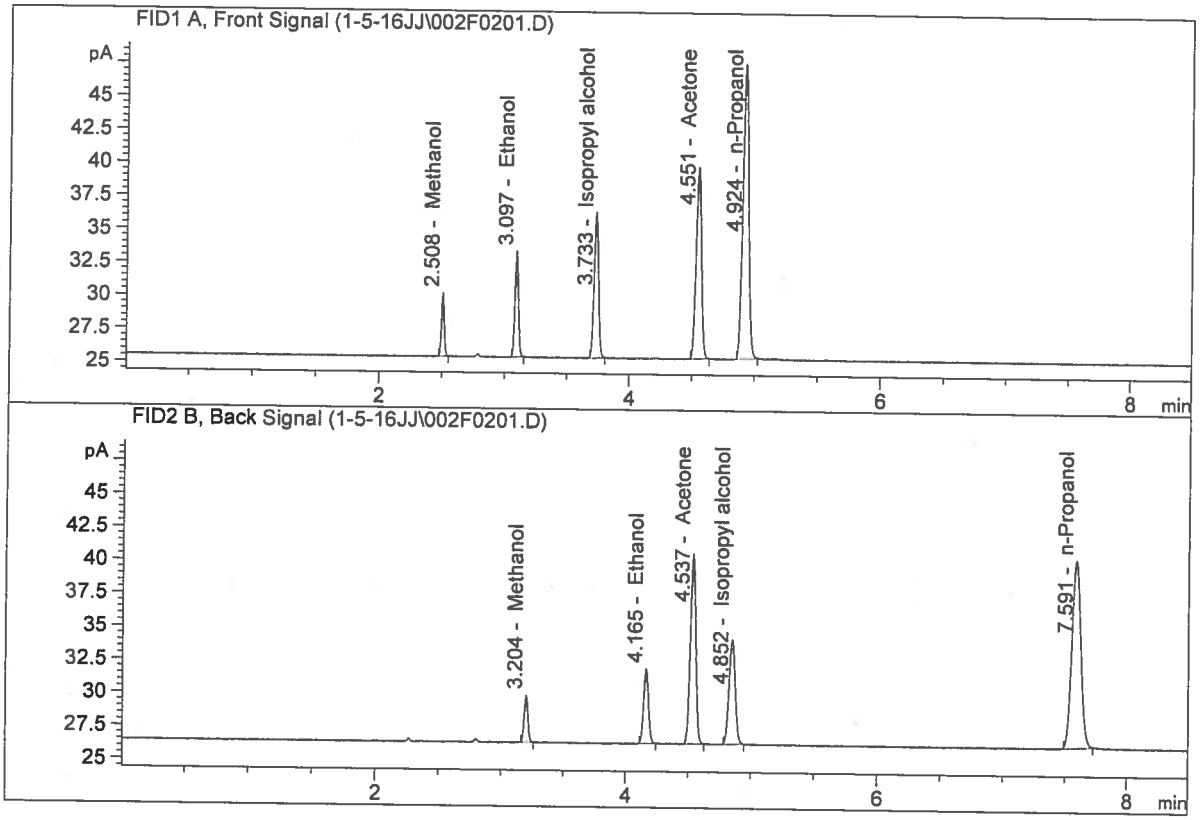
Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

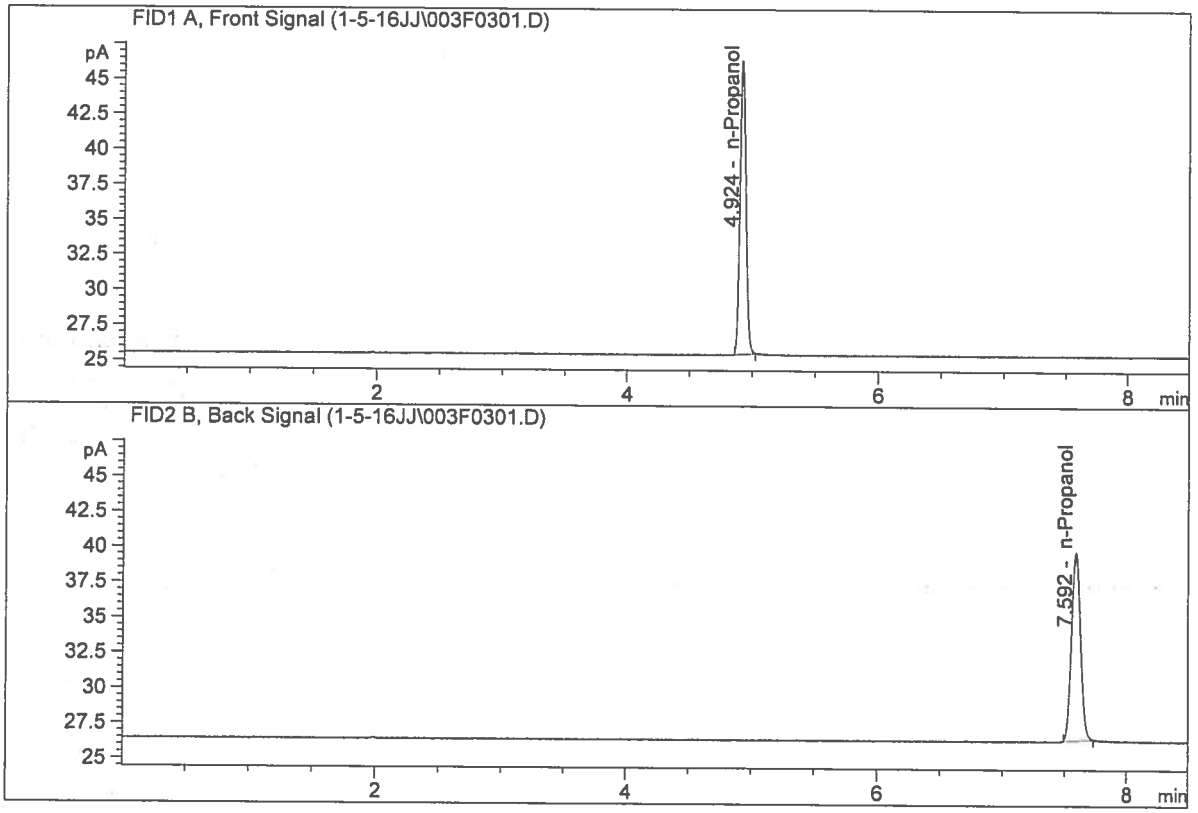
Sample Name : VOL MIX FN-012111-01
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	15.46513	0.1121	g/100cc
2.	Ethanol	Column 2:	15.43379	0.1123	g/100cc
3.	n-Propanol	Column 1:	72.27898	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.44281	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
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:	68.15083	1.0000	g/100cc
4.	n-Propanol	Column 2:	67.56737	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 05 Jan 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0817	0.0811	0.0006	0.0814	0.0799
(g/100cc)	0.0786	0.0782	0.0004	0.0784	

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
0.079	0.075	0.083	0.004

Reported Result
0.079

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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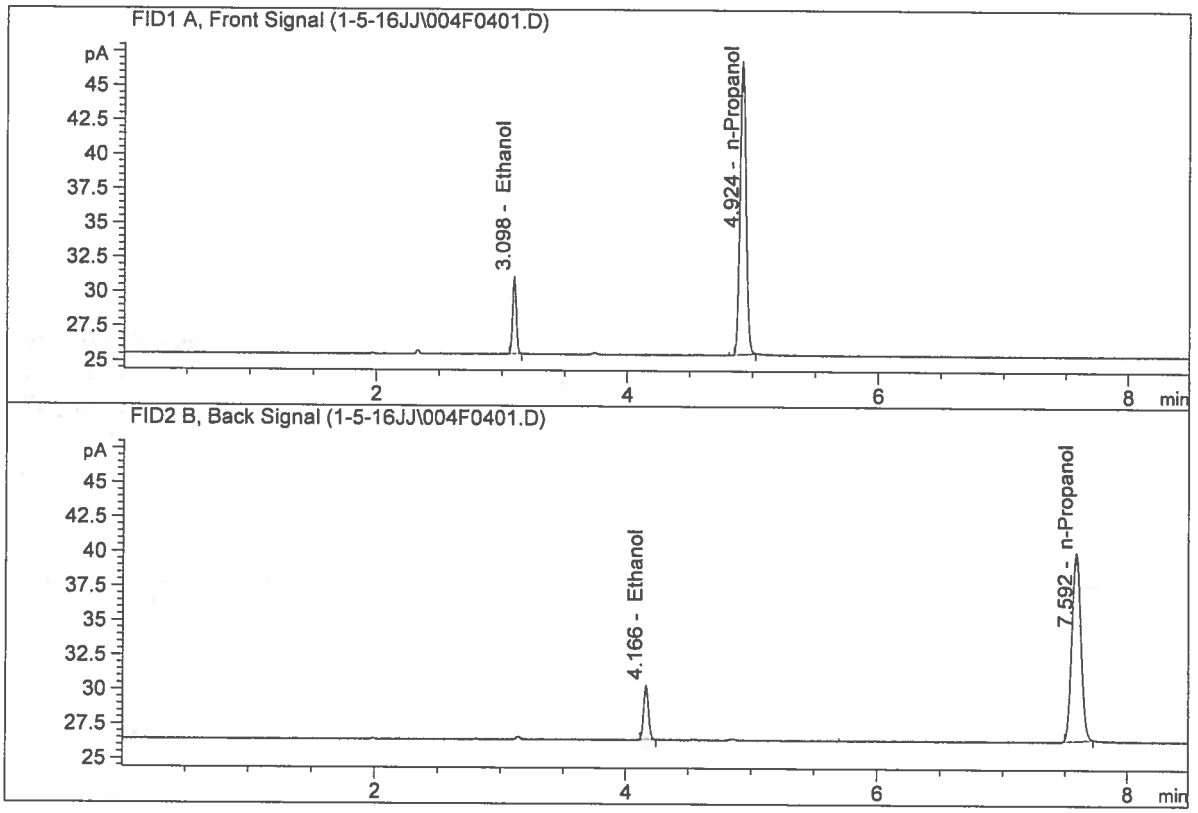
ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-A
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

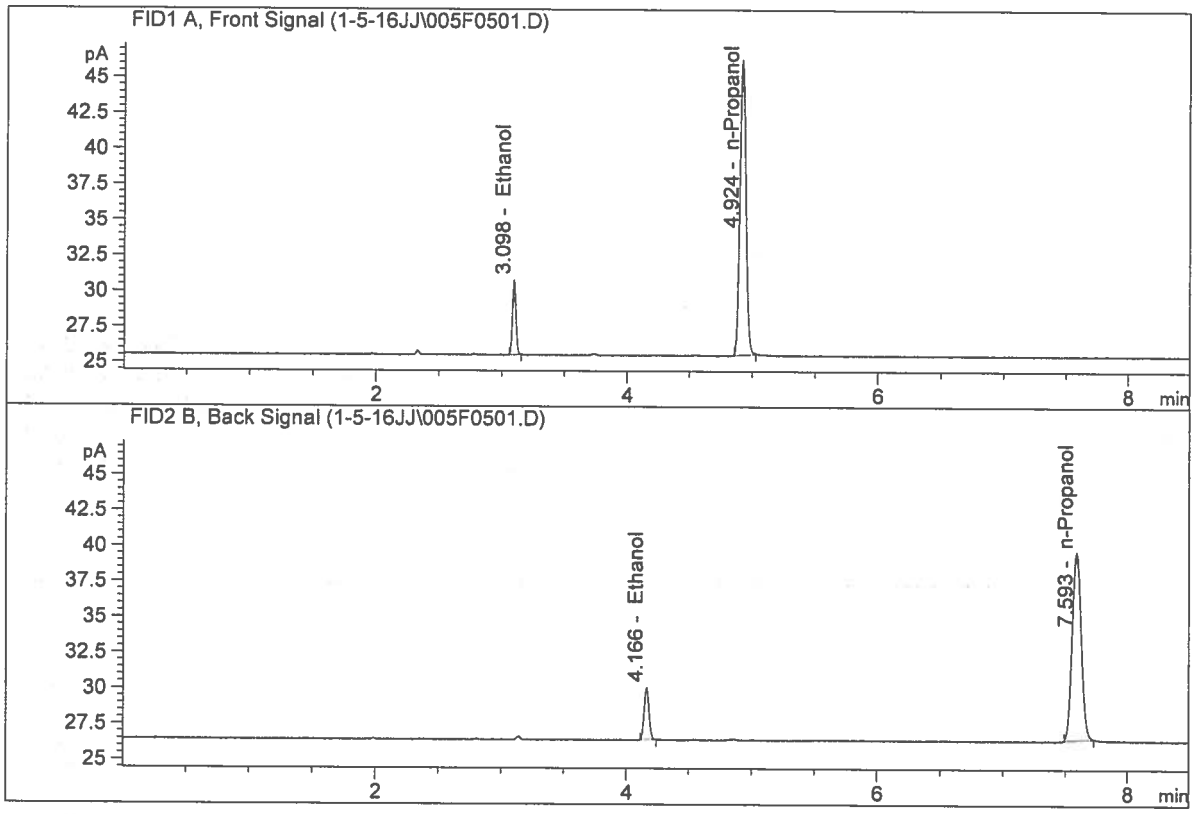


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.87756	0.0817	g/100cc
2.	Ethanol	Column 2:	10.74693	0.0811	g/100cc
3.	n-Propanol	Column 1:	69.77329	1.0000	g/100cc
4.	n-Propanol	Column 2:	68.90166	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.16791	0.0786	g/100cc
2.	Ethanol	Column 2:	10.04850	0.0782	g/100cc
3.	n-Propanol	Column 1:	67.74129	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.79771	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09051304 **Analysis Date(s): 05 Jan 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0805	0.0797	0.0008	0.0801	0.0802
(g/100cc)	0.0809	0.0799	0.0010	0.0804	

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

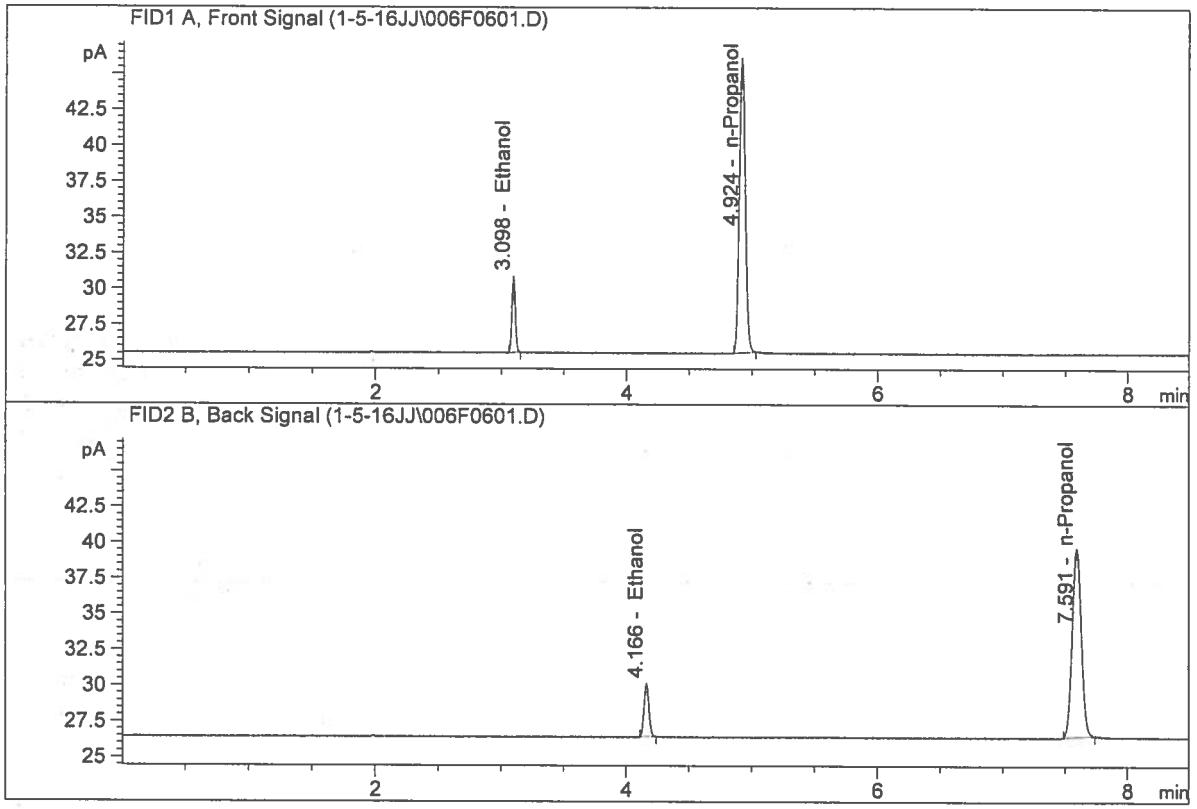
Reported Result
0.080

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

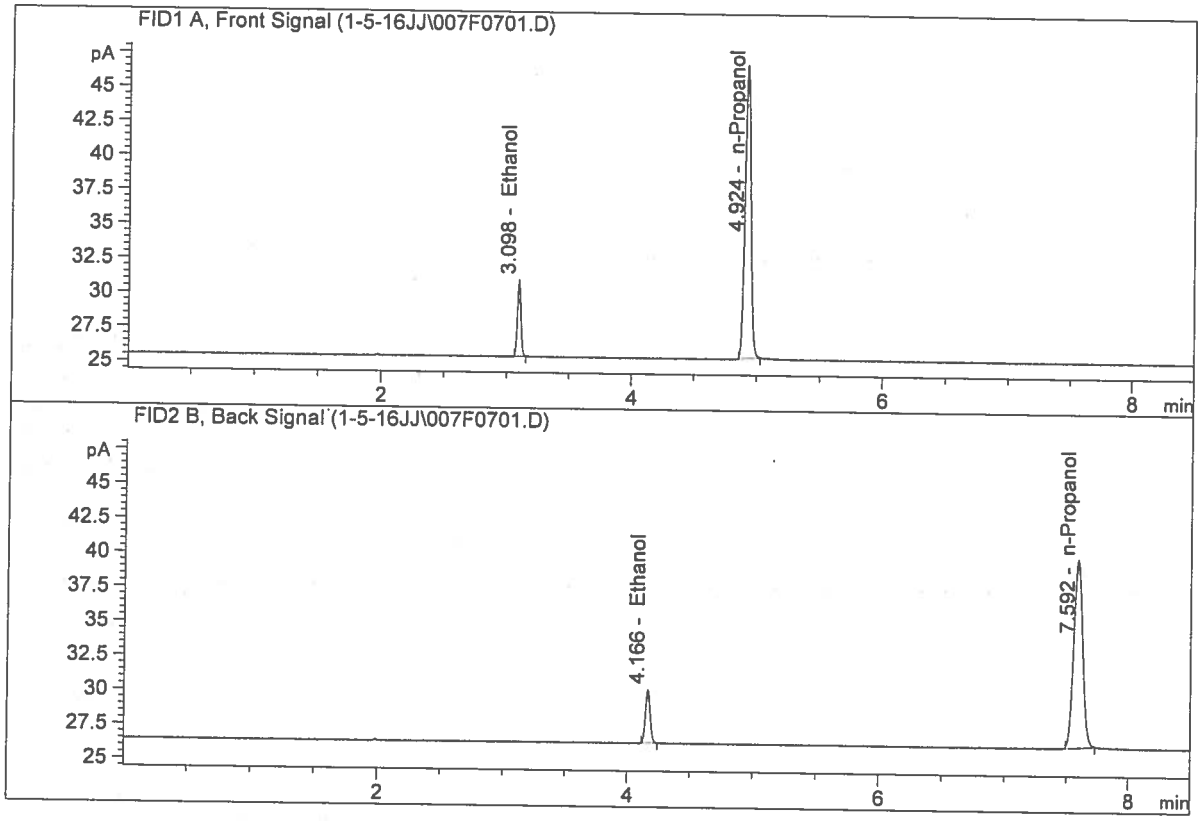
Sample Name : 0.08 FN09051304-A
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.32923	0.0805	g/100cc
2.	Ethanol	Column 2:	10.19027	0.0797	g/100cc
3.	n-Propanol	Column 1:	67.20856	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.44091	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN09051304-B
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.78581	0.0809	g/100cc
2.	Ethanol	Column 2:	10.62950	0.0799	g/100cc
3.	n-Propanol	Column 1:	69.86317	1.0000	g/100cc
4.	n-Propanol	Column 2:	69.16351	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2 **Analysis Date(s): 05 Jan 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2029	0.2029	0.0000	0.2029	0.2034
(g/100cc)	0.2040	0.2040	0.0000	0.2040	

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
0.203	0.192	0.214	0.011

Reported Result
0.203

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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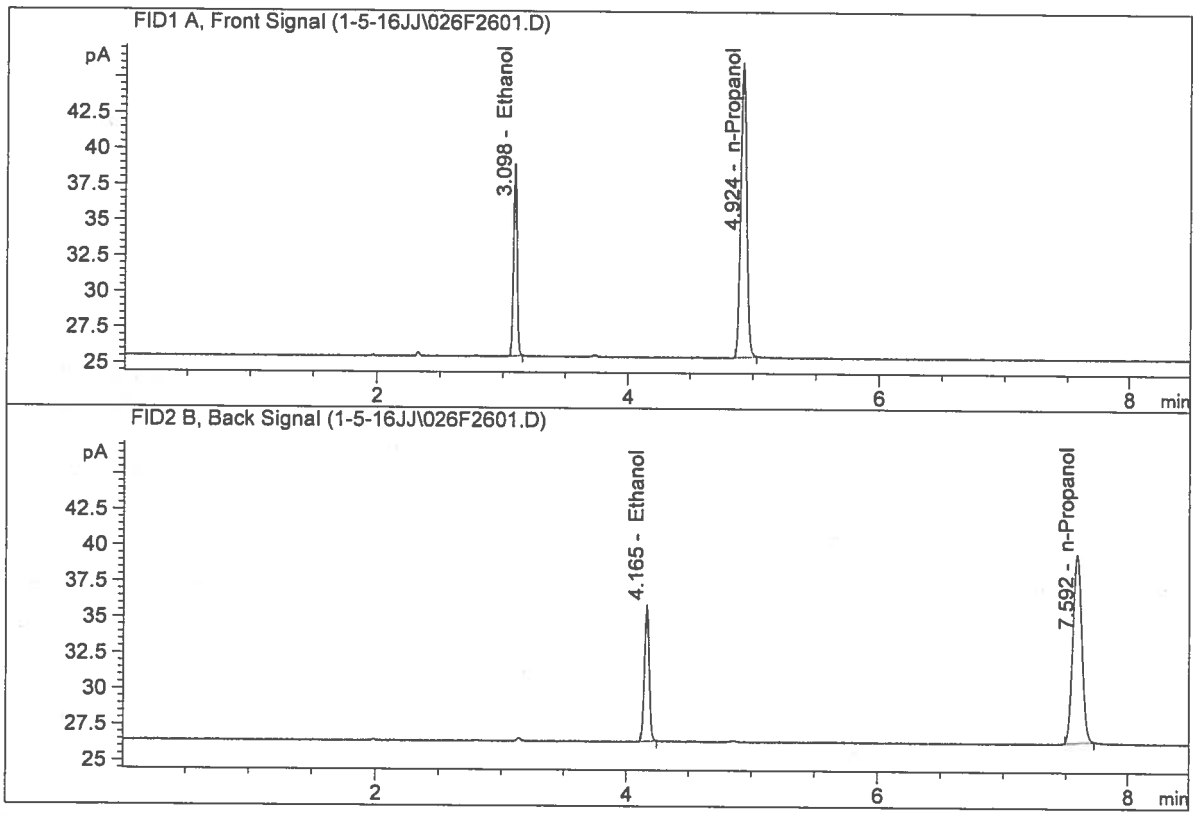
ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-A
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

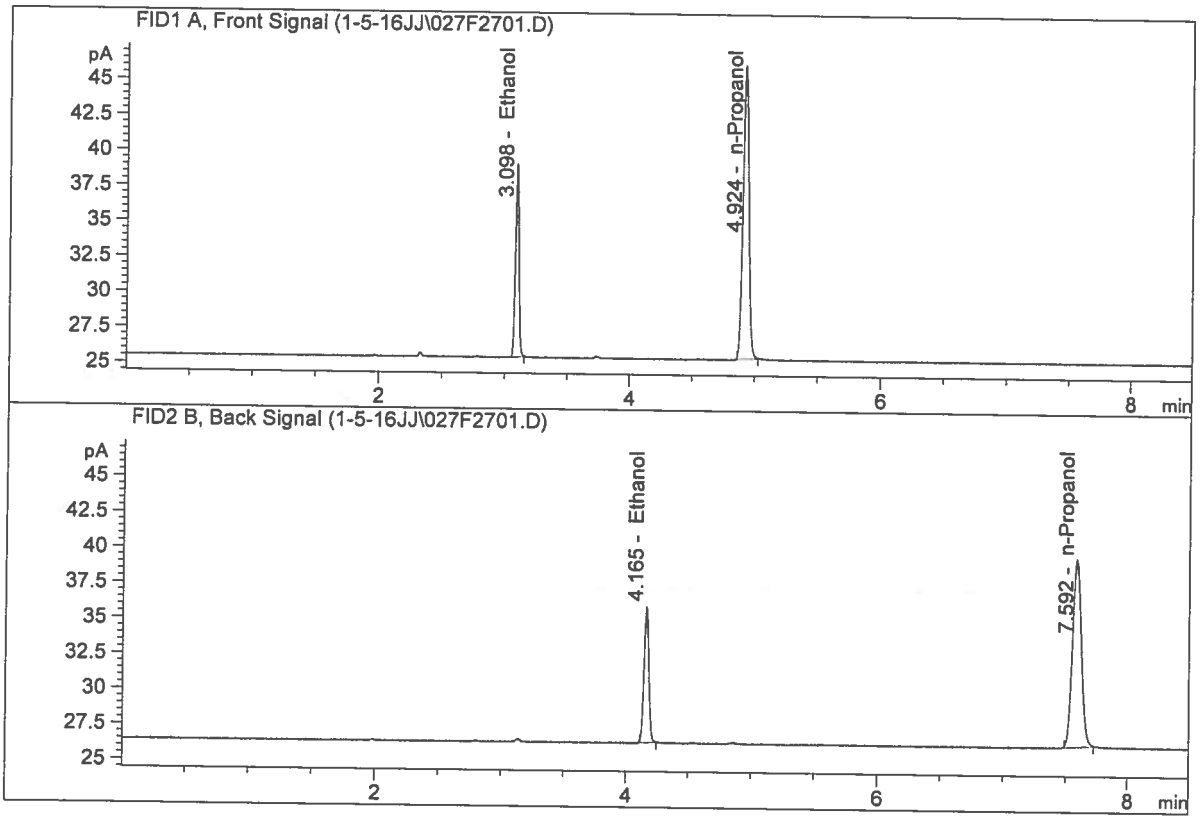


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.06429	0.2029	g/100cc
2.	Ethanol	Column 2:	25.92135	0.2029	g/100cc
3.	n-Propanol	Column 1:	67.30209	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.39169	1.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2-B
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.43165	0.2040	g/100cc
2.	Ethanol	Column 2:	26.28899	0.2040	g/100cc
3.	n-Propanol	Column 1:	67.86835	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.95692	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1 **Analysis Date(s): 05 Jan 2016**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0813	0.0811	0.0002	0.0812	0.0804
(g/100cc)	0.0803	0.0792	0.0011	0.0797	

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

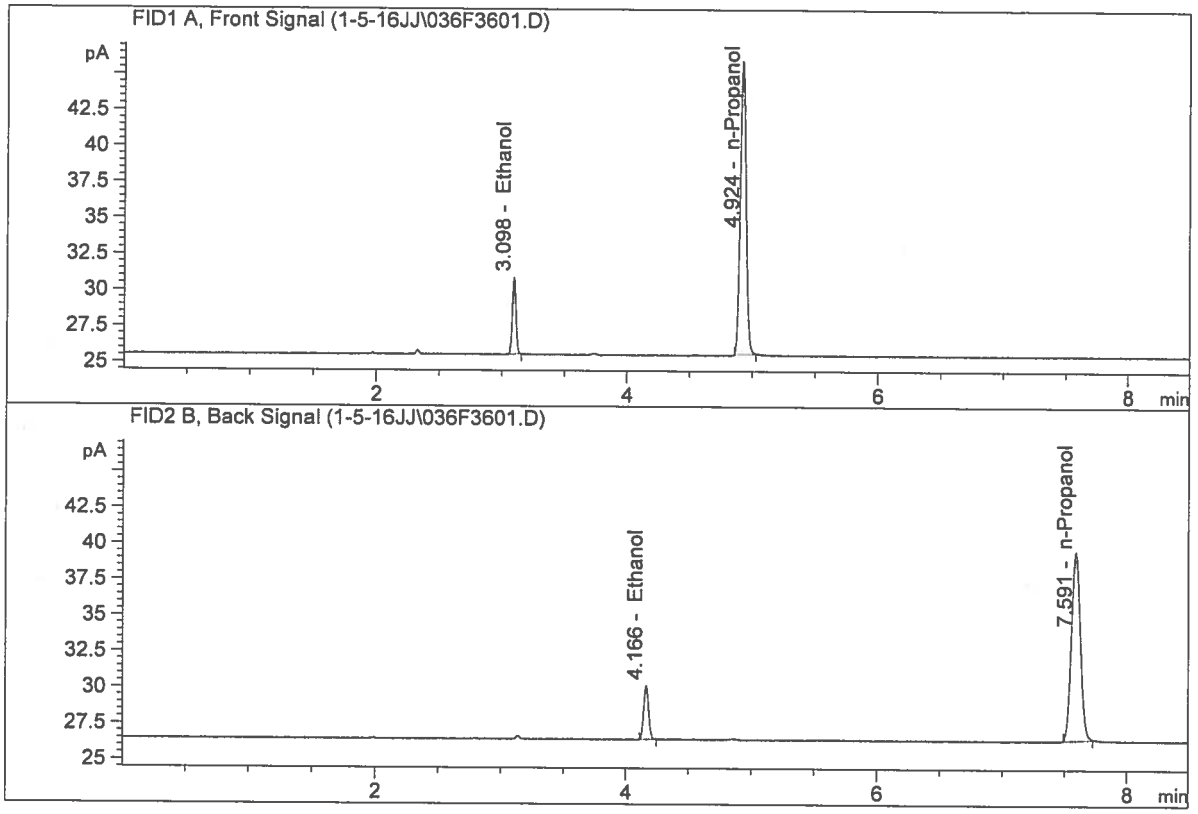
Reported Result
0.080

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 : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.37656	0.0813	g/100cc
2.	Ethanol	Column 2:	10.32578	0.0811	g/100cc
3.	n-Propanol	Column 1:	66.88197	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.12298	1.0000	g/100cc

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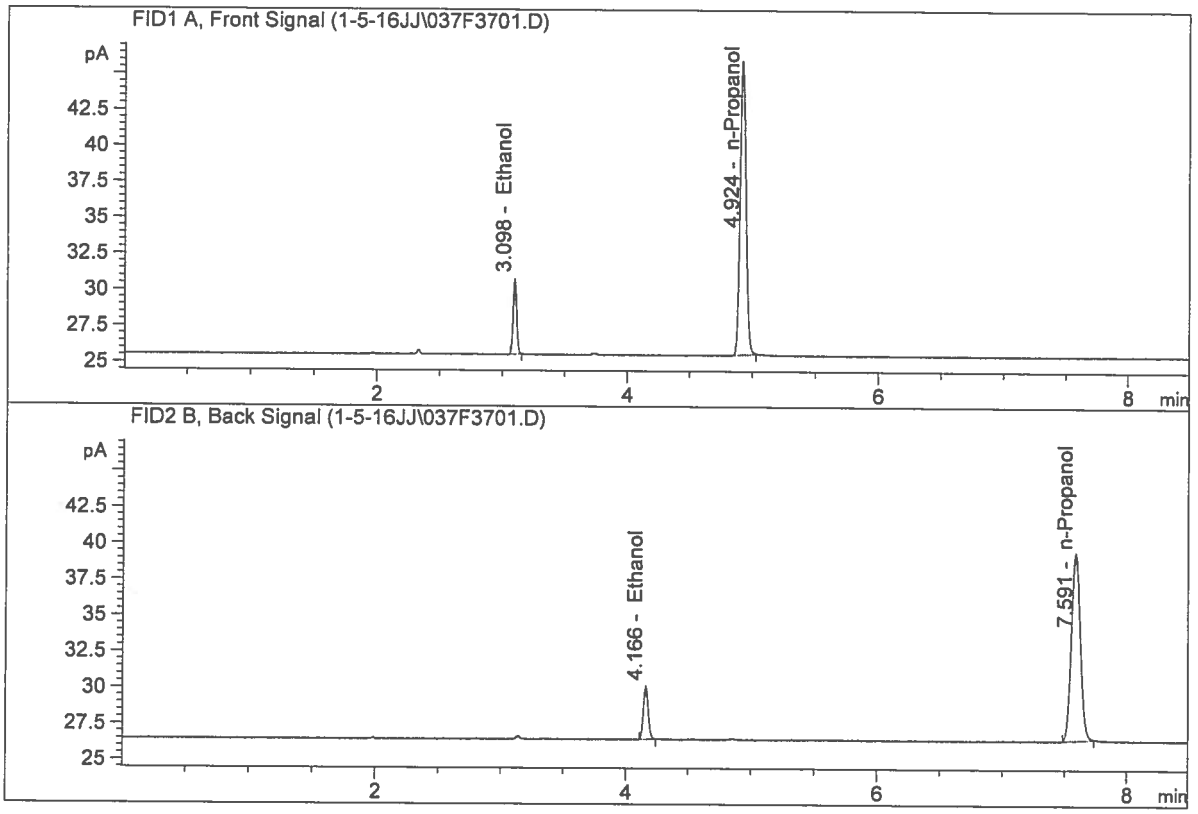
ISP Forensic Services Blood Alcohol Report

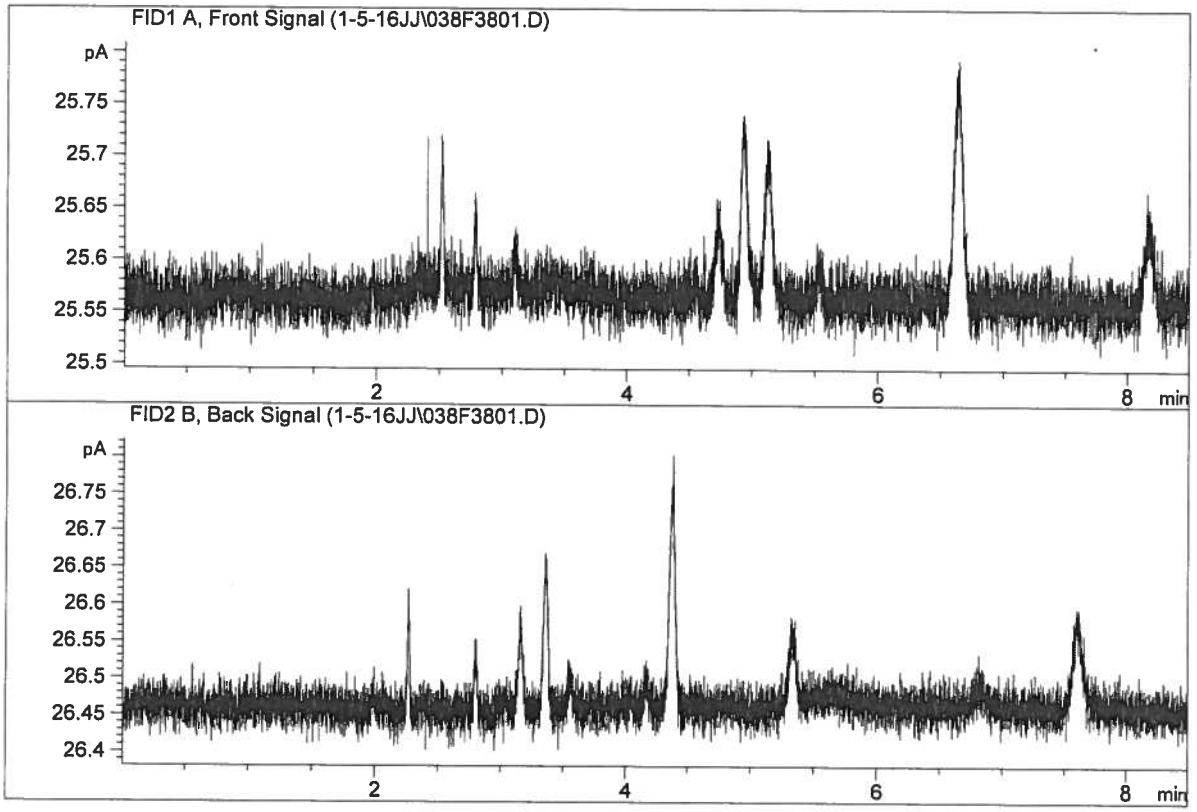
Sample Name : QC-1-B
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.21211	0.0803	g/100cc
2.	Ethanol	Column 2:	10.06721	0.0792	g/100cc
3.	n-Propanol	Column 1:	66.60261	1.0000	g/100cc
4.	n-Propanol	Column 2:	66.02531	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : water
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

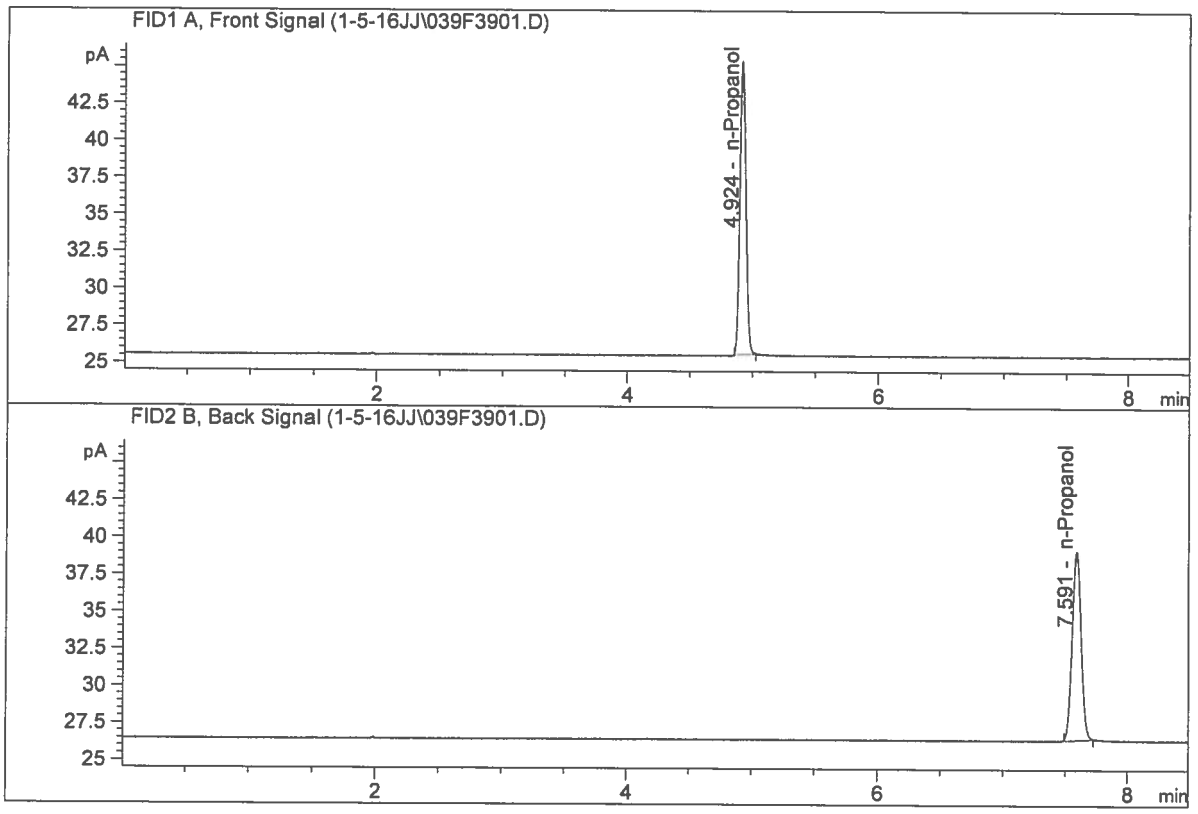


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

99

ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Jan 5, 2016
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:	64.86269	1.0000	g/100cc
4.	n-Propanol	Column 2:	64.28807	1.0000	g/100cc

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