



*Idaho State Police Forensic Services*

**CERTIFICATE OF ANALYSIS/APPROVAL**

The Idaho State Police Forensic Services (ISPFS) hereby certifies and approves Alcohol Simulator Solution **Lot Number 19100** (a product manufactured by GUTH Laboratories Inc.) to be used to conduct performance verification checks within the State of Idaho in accordance with the analytical methods, policies and/or procedures promulgated by the Department governing breath alcohol examinations. ISPFS also approves of the manufacturer of this solution (GUTH Laboratories Inc.) to provide Alcohol Simulator Solution **Lot Number 19100** in the State of Idaho. This lot has a target value of 0.080 with a range of 0.072 to 0.088 grams of ethyl alcohol/210 liters of vapor.

The expiration date for this lot number is on March 26<sup>th</sup>, 2021 at 11:59 PM.

8-30-19

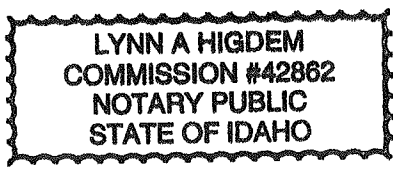
Date

Volatiles Analysis Discipline Leader

STATE OF IDAHO    )  
                          ) ss.  
County of Kootenai)

On this 30<sup>th</sup> day of August, in the year 2019, before me, Lynn A. Higdem, a notary public, Jeremy Johnston personally appeared, known to me to be the person whose name is subscribed to the within instrument as a Forensic Scientist for the Idaho State Police Forensic Services, and acknowledged to me that he executed the same as such Scientist.

Lynn A. Higdem Notary Public  
My Commission Expires: Sept. 8, 2022





## GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4611 • TELEPHONE: 717-564-5470

### CERTIFICATE OF ANALYSIS

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number **19100** of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on **March 27, 2019**, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain **0.0971%** (w/vol) ethyl alcohol. The expiration date for this lot number is **March 26, 2021** at 11:59 PM.

When used in a calibrated Simulator, operating at  $34^{\circ}\text{C} \pm .2^{\circ}\text{C}$ , this solution will give a breath alcohol analysis instrument reading of **0.080 g/210L  $\pm$  3%**.

The alcohol and water used in this solution were free of test interfering substances.

Ted L. Pauley, President  
GUTH LABORATORIES, INC.

*NIST Traceability:*

*Testing was conducted using Cerilliant Reference Standard lot number FN02221601 whose values are traceable to NIST.*

*All balances are calibrated annually by an outside agency using NIST traceable weights. Calibration verification is done prior to each use utilizing NIST traceable weights.*

# Raw data from analysis: LOT #19100

				Raw	Average		
Analyst: JJ	Bottle #316	sample #1	a	0.0966	0.0966	overall mean: <b>0.0983</b>	
			b	0.0966			
		sample #2	a	0.0997	0.0996		
			b	0.0995			
	Bottle #246	sample #1	a	0.0974	0.0974		
			b	0.0975			
		sample #2	a	0.0994	0.0994		
			b	0.0995			

Analyst: GG	Bottle #309	sample #1	a	0.0995	0.0994	overall mean: <b>0.1001</b>
			b	0.0994		
		sample #2	a	0.0988	0.0988	
			b	0.0989		
	Bottle #319	sample #1	a	0.1007	0.1008	
			b	0.1010		
		sample #2	a	0.1010	0.1013	
			b	0.1017		

**average of all raw data:** **0.0992**

alcohol content conversion with 1.23: **0.08065**  
 with 1.21: **0.081983**

**Target value from provider:**  
 0.0971 +/- 3% range 0.100013  
 0.094187  
 0.080 +/- 3% range **0.0824**  
**0.0776**

99

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: GUTH 0.080 LOT19100 #309 Analysis Date(s): 20 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0995	0.0994	0.0001	0.0994	0.0991
(g/100cc)	0.0988	0.0989	0.0001	0.0988	

**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: ML600HC11378

**Reporting of Results**

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.099	0.094	0.104	0.005

Reported Result	
0.099	

*Calibration and control data are stored centrally.*



Revision: 1

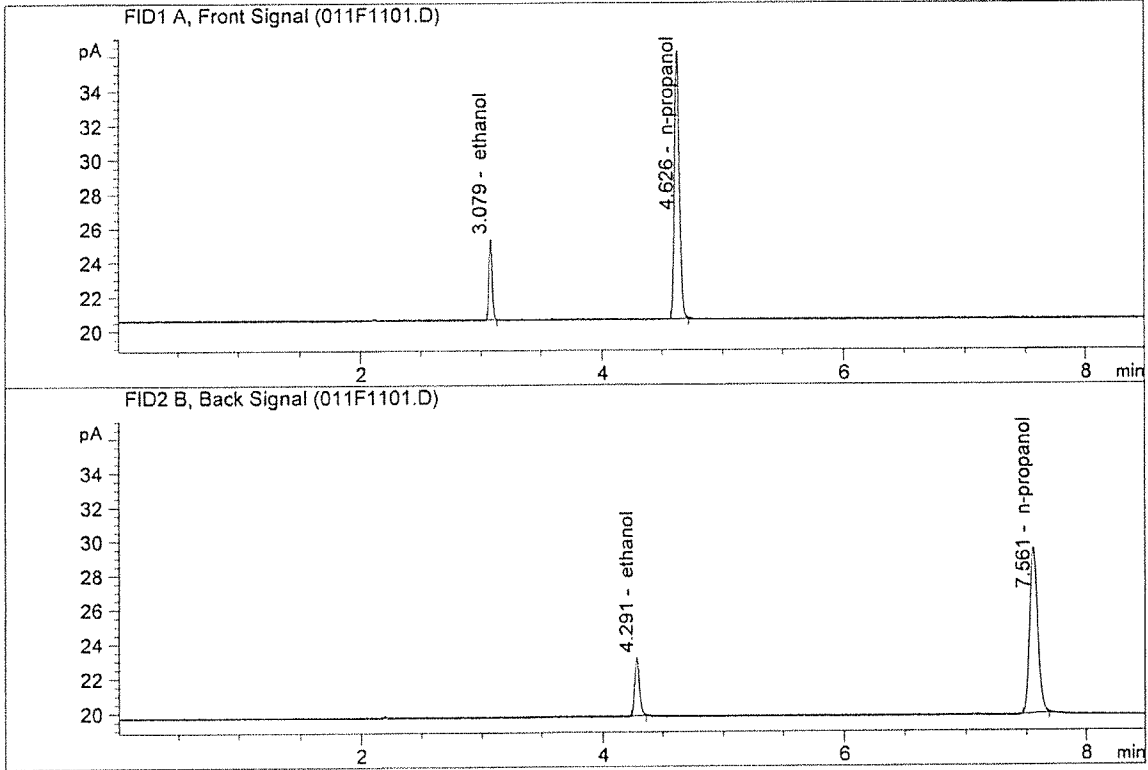
Issue Date: 01/04/2019

Issuing Authority: Quality Manager



ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.080 LOT19100 #309-A  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

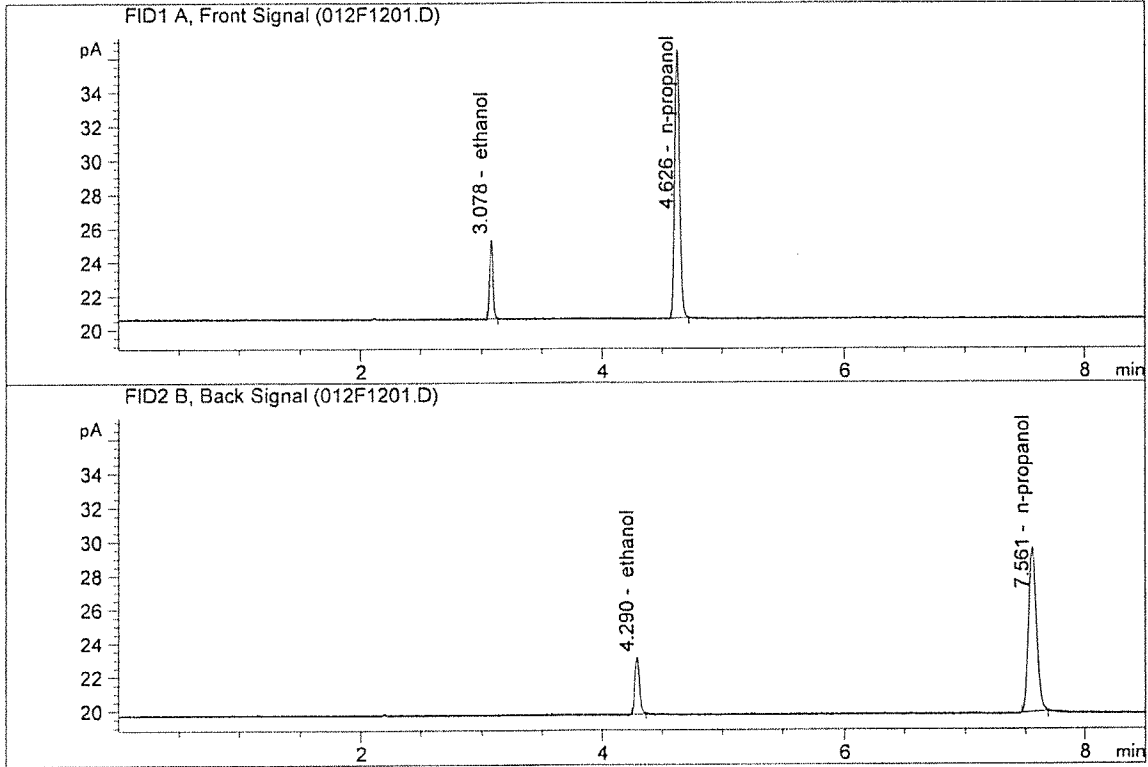


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.69759	0.0995	g/100cc
2.	Ethanol	Column 2:	8.99424	0.0994	g/100cc
3.	n-Propanol	Column 1:	44.42747	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.24603	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.080 LOT19100 #309-B  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.74442	0.0988	g/100cc
2.	Ethanol	Column 2:	9.05898	0.0989	g/100cc
3.	n-Propanol	Column 1:	44.98751	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.79308	1.0000	g/100cc

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**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: GUTH 0.080 LOT19100 #319 Analysis Date(s): 20 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.1007	0.1010	0.0003	0.1008	0.1011
(g/100cc)	0.1010	0.1017	0.0007	0.1013	

**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: ML600HC11378

**Reporting of Results**

Uncertainty of Measurement (UM%): 5.00%

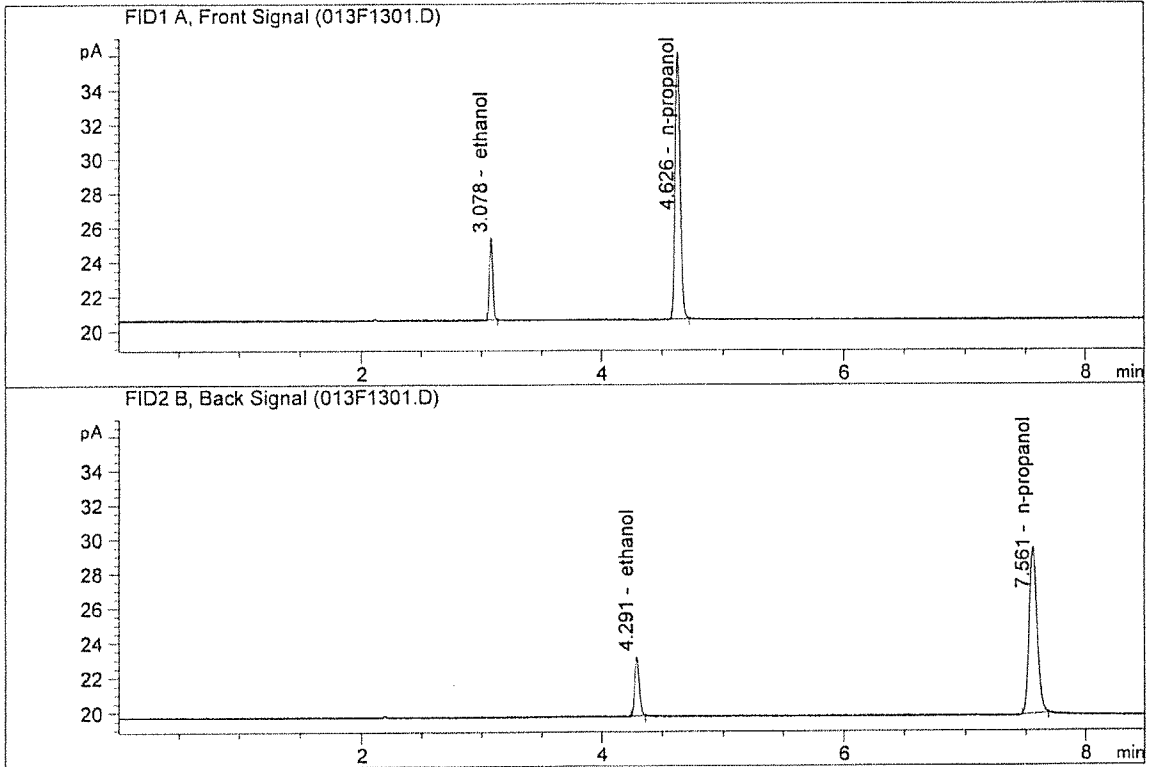
Overall Mean (g/100cc)	Low	High	5% of Mean
0.101	0.095	0.107	0.006

Reported Result	
0.101	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.080 LOT19100 #319-A  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



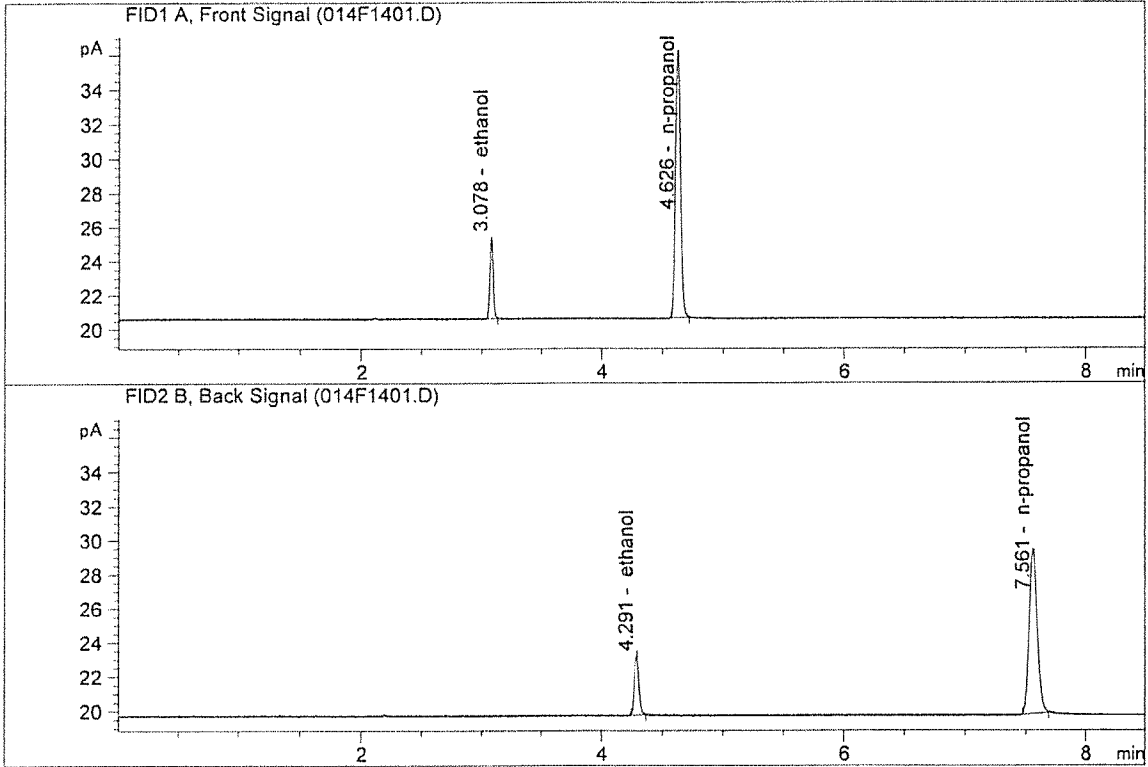
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.77184	0.1007	g/100cc
2.	Ethanol	Column 2:	9.11693	0.1010	g/100cc
3.	n-Propanol	Column 1:	44.27709	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.06153	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.080 LOT19100 #319-B  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.84371	0.1010	g/100cc
2.	Ethanol	Column 2:	9.21908	0.1017	g/100cc
3.	n-Propanol	Column 1:	44.53186	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.27933	1.0000	g/100cc

W 99

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 19100-316

Analysis Date(s): 29 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0966	0.0966	0.0000	0.0966	0.0981	
(g/100cc)	0.0997	0.0995	0.0002	0.0996		

### 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: ML600HC11379

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

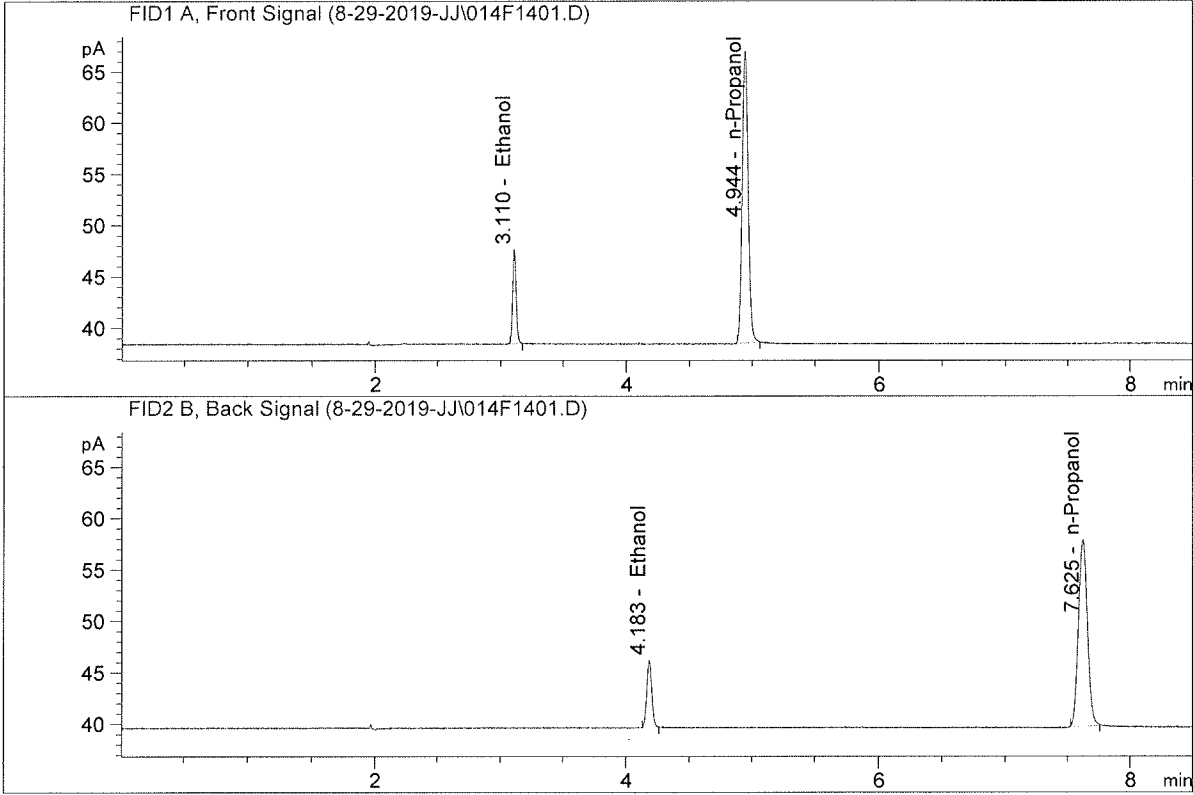
Overall Mean (g/100cc)	Low	High	5% of Mean
0.098	0.093	0.103	0.005

	Reported Result	
	0.098	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

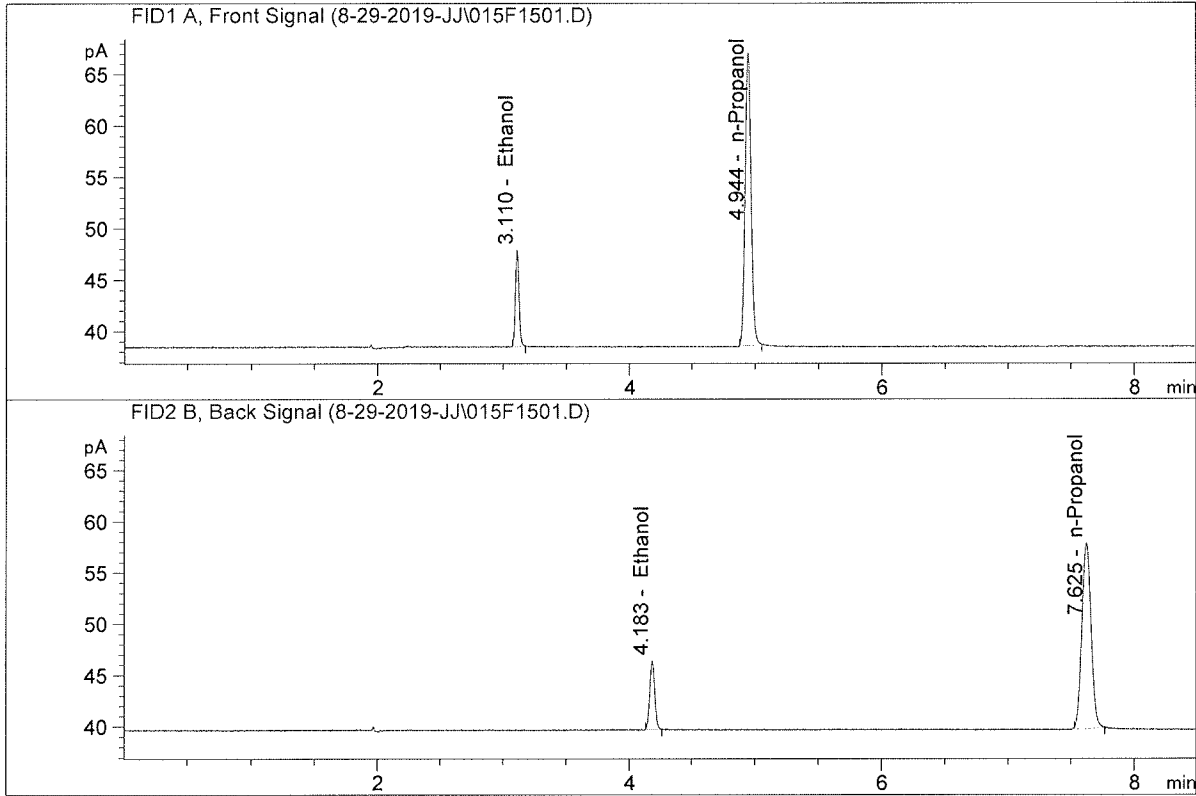
Sample Name : 19100-316-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 29, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.06137	0.0966	g/100cc
2.	Ethanol	Column 2:	17.89319	0.0966	g/100cc
3.	n-Propanol	Column 1:	93.78790	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.50467	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 19100-316-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 29, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.60951	0.0997	g/100cc
2.	Ethanol	Column 2:	18.42777	0.0995	g/100cc
3.	n-Propanol	Column 1:	93.55331	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.50180	1.0000	g/100cc

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**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 19100-246

Analysis Date(s): 29 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0974	0.0975	0.0001	0.0974	0.0984
(g/100cc)	0.0994	0.0995	0.0001	0.0994	

**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: ML600HC11379

**Reporting of Results**

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

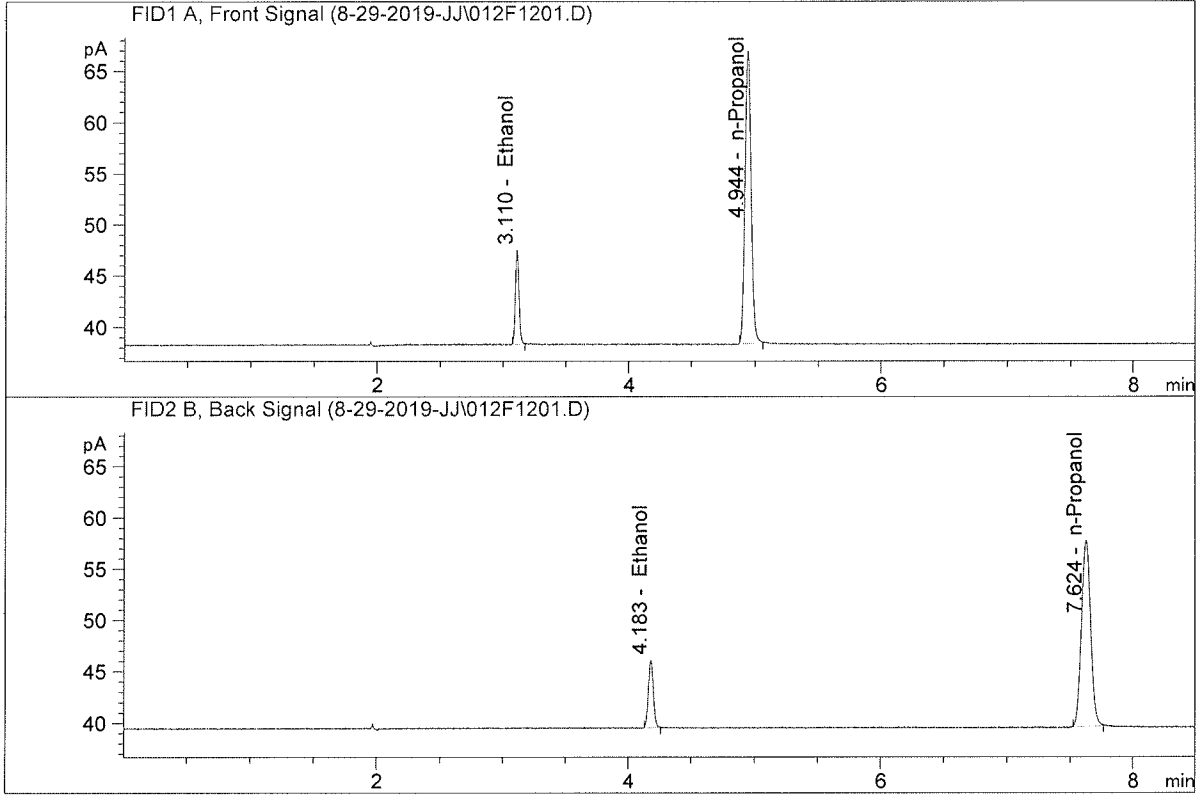
Overall Mean (g/100cc)	Low	High	5% of Mean
0.098	0.093	0.103	0.005

Reported Result	
0.098	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : 19100-246-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 29, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

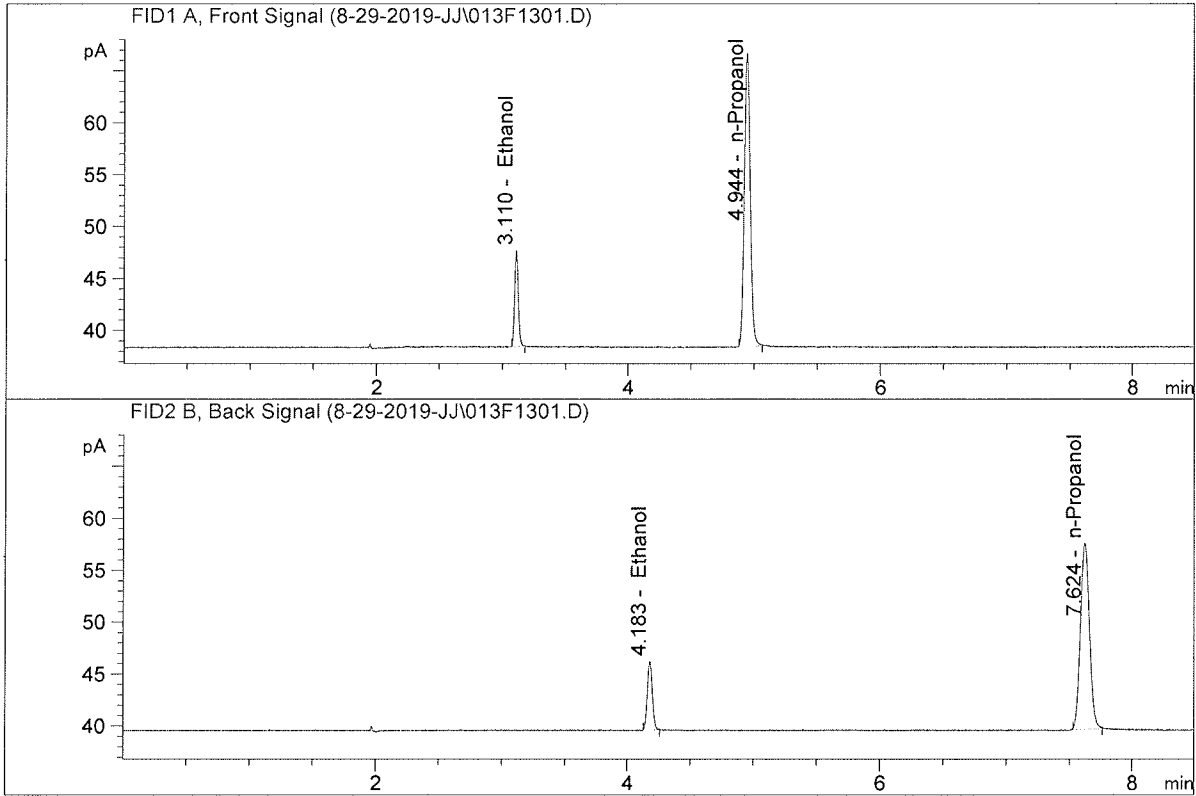


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.23537	0.0974	g/100cc
2.	Ethanol	Column 2:	18.08421	0.0975	g/100cc
3.	n-Propanol	Column 1:	93.83554	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.65344	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 19100-246-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 29, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.40316	0.0994	g/100cc
2.	Ethanol	Column 2:	18.22842	0.0995	g/100cc
3.	n-Propanol	Column 1:	92.86857	1.0000	g/100cc
4.	n-Propanol	Column 2:	90.49093	1.0000	g/100cc

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