



*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 19200** (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 19200** in the State of Idaho. This lot has a target value of 0.200 with a range of 0.180 to 0.220 grams of ethyl alcohol/210 liters of vapor.

The expiration date for this lot number is on August 6<sup>th</sup>, 2021 at 11:59 PM.

8-30-19

Date

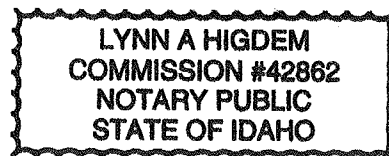
Volatiles Analysis Discipline Leader

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: 717-664-6470

### CERTIFICATE OF ANALYSIS

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number **19200** of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on **August 7, 2019**, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain **0.2418%** (w/vol) ethyl alcohol. The expiration date for this lot number is **August 6, 2021** at 11:59 PM.

When used in a calibrated Simulator, operating at 34°C +/- .2°C, this solution will give a breath alcohol analysis instrument reading of **0.200 g/210L +/- 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 FN08101505 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 #19200

				Raw	Average		
Analyst: JJ	Bottle #387	sample #1	a	0.2457	0.2463	overall mean: <b>0.2438</b>	
			b	0.2470			
		sample #2	a	0.2407	0.2419		
			b	0.2432			
	Bottle #351	sample #1	a	0.2403	0.2411		
			b	0.2420			
		sample #2	a	0.2444	0.2456		
			b	0.2469			
Analyst: GG	Bottle #168	sample #1	a	0.2518	0.2516	overall mean: <b>0.2508</b>	
			b	0.2514			
		sample #2	a	0.2517	0.2515		
			b	0.2513			
	Bottle #320	sample #1	a	0.2495	0.2487		
			b	0.2480			
		sample #2	a	0.2514	0.2513		
			b	0.2513			

average of all raw data: **0.2473**

alcohol content conversion with 1.23: **0.201047**  
 with 1.21: **0.20437**

**Target value from provider:**  
 0.2418 +/- 3% range 0.249054  
 0.234546  
 0.200 +/- 3% range **0.206**  
**0.194**

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**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: GUTH 0.200 LOT19200 #168 Analysis Date(s): 20 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2518	0.2514	0.0004	0.2516	0.2515
(g/100cc)	0.2517	0.2513	0.0004	0.2515	

**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%**

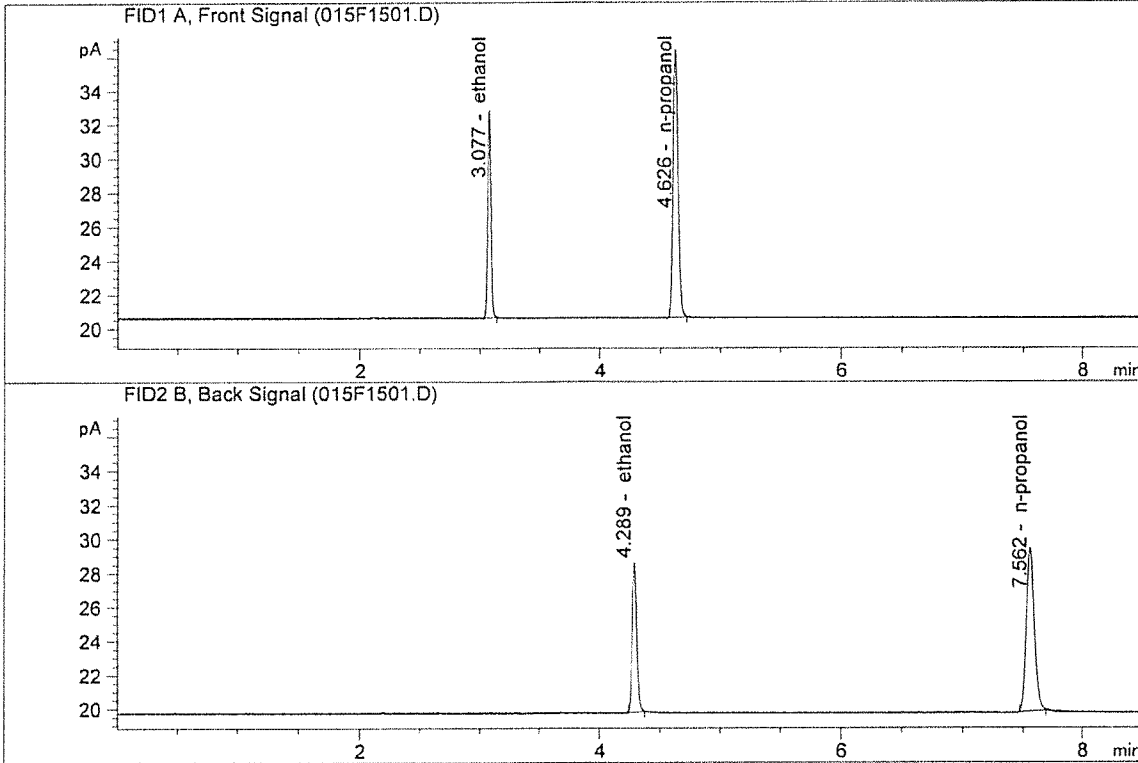
Overall Mean (g/100cc)	Low	High	5% of Mean
0.251	0.238	0.264	0.013

Reported Result
0.251

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.200 LOT19200 #168-A  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

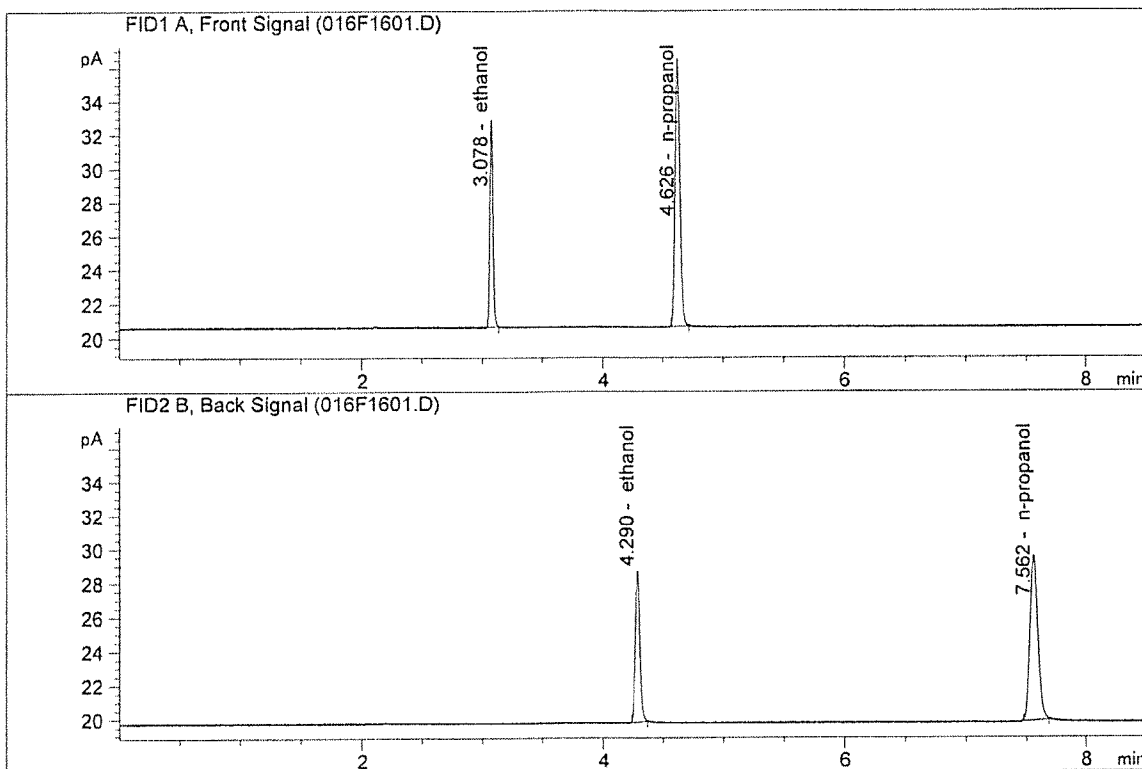


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	22.32211	0.2518	g/100cc
2.	Ethanol	Column 2:	23.54024	0.2514	g/100cc
3.	n-Propanol	Column 1:	44.82228	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.56355	1.0000	g/100cc

*Handwritten initials and number:*  
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ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.200 LOT19200 #168-B  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	22.40890	0.2517	g/100cc
2.	Ethanol	Column 2:	23.61072	0.2513	g/100cc
3.	n-Propanol	Column 1:	45.02303	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.70712	1.0000	g/100cc

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**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: GUTH 0.200 LOT19200 #320 Analysis Date(s): 20 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2495	0.2480	0.0015	0.2487	0.2500
(g/100cc)	0.2514	0.2513	0.0001	0.2513	

**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%**

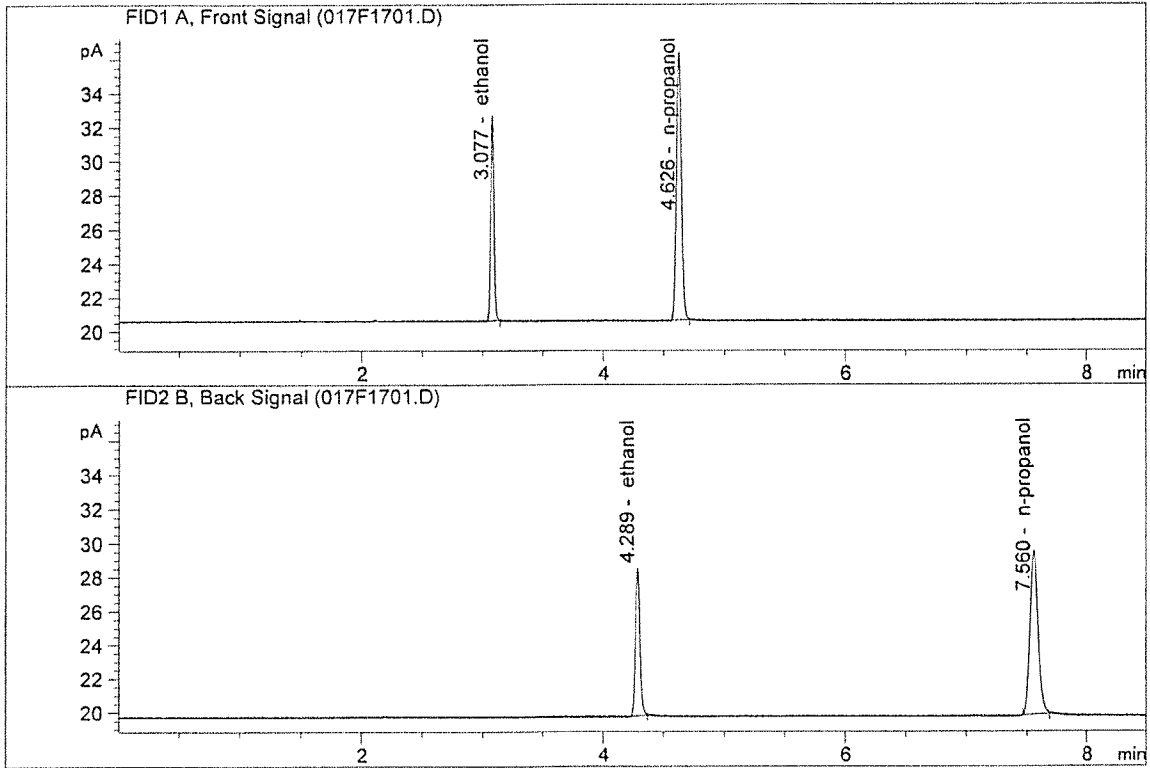
Overall Mean (g/100cc)	Low	High	5% of Mean
0.250	0.237	0.263	0.013

Reported Result
0.250

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.200 LOT19200 #320-A  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



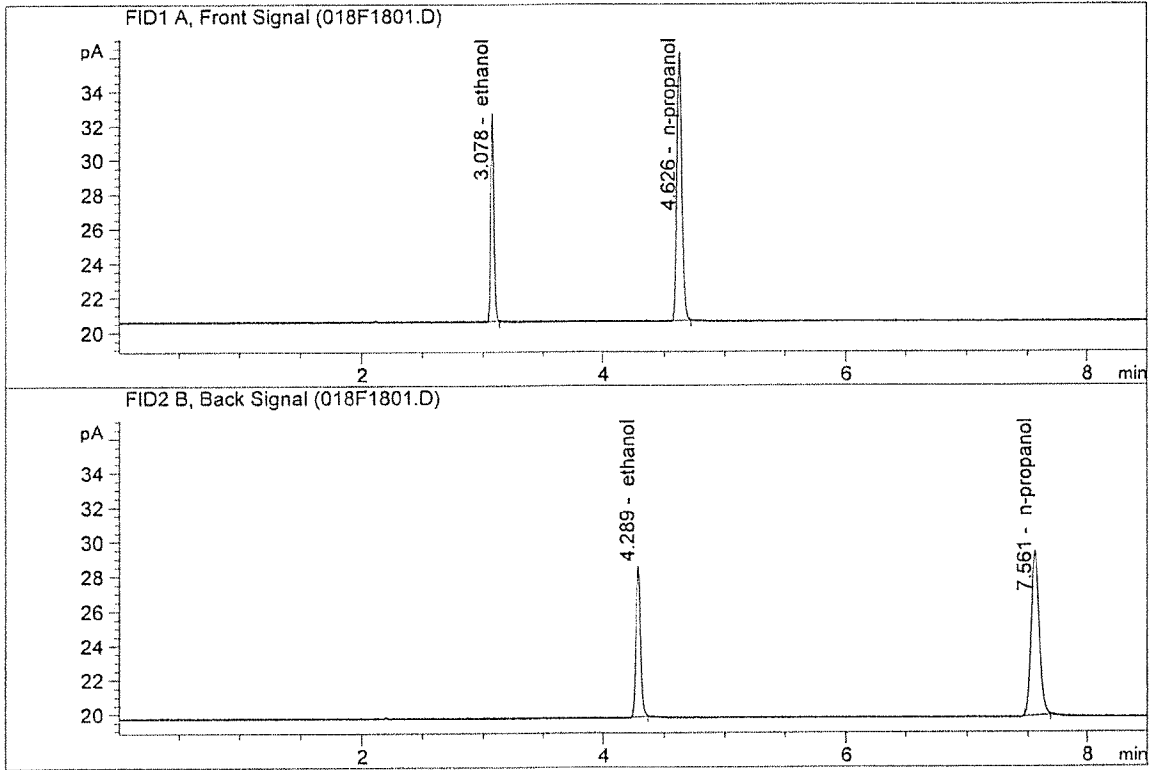
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	22.12721	0.2495	g/100cc
2.	Ethanol	Column 2:	23.25355	0.2480	g/100cc
3.	n-Propanol	Column 1:	44.84531	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.63399	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 0.200 LOT19200 #320-B  
 Laboratory : Meridian  
 Injection Date : Aug 20, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	22.06258	0.2514	g/100cc
2.	Ethanol	Column 2:	23.27824	0.2513	g/100cc
3.	n-Propanol	Column 1:	44.37113	1.0000	g/100cc
4.	n-Propanol	Column 2:	46.05276	1.0000	g/100cc

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**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 19200-387

Analysis Date(s): 30 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2457	0.2470	0.0013	0.2463	0.2441
(g/100cc)	0.2407	0.2432	0.0025	0.2419	

**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%**

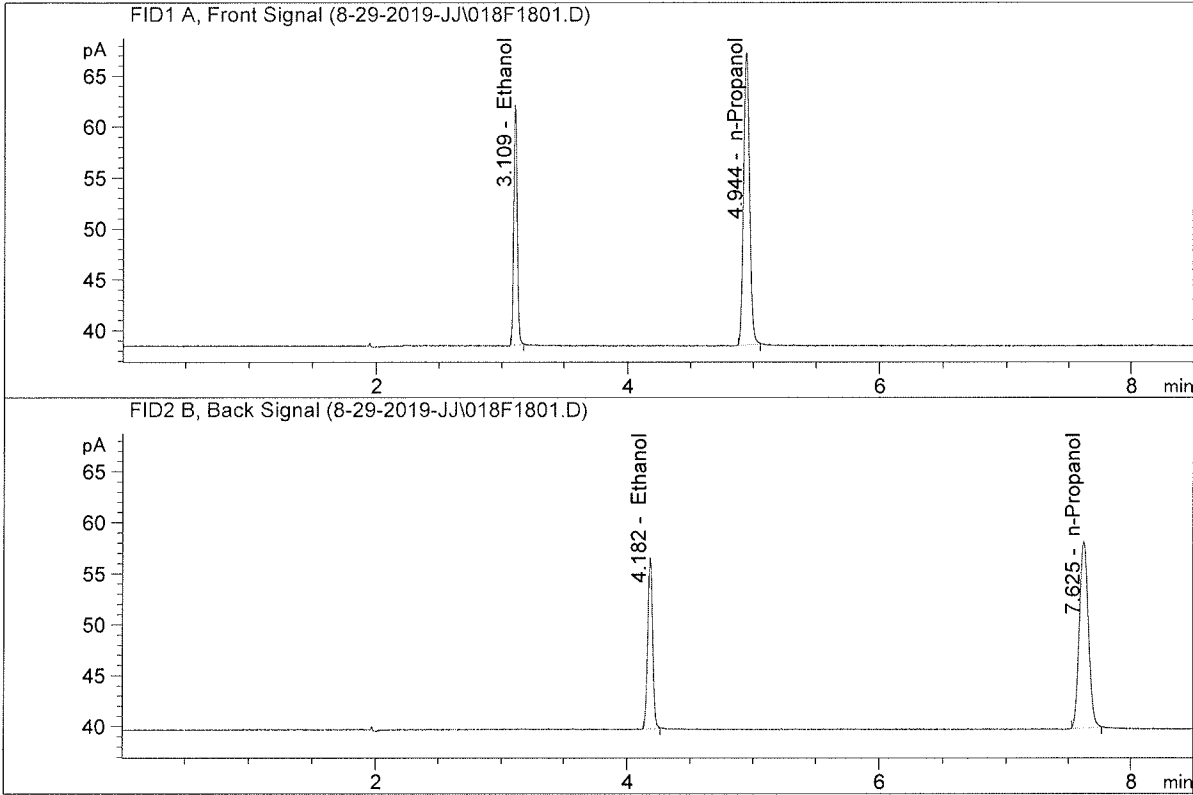
Overall Mean (g/100cc)	Low	High	5% of Mean
0.244	0.231	0.257	0.013

Reported Result	
0.244	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : 19200-387-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 30, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

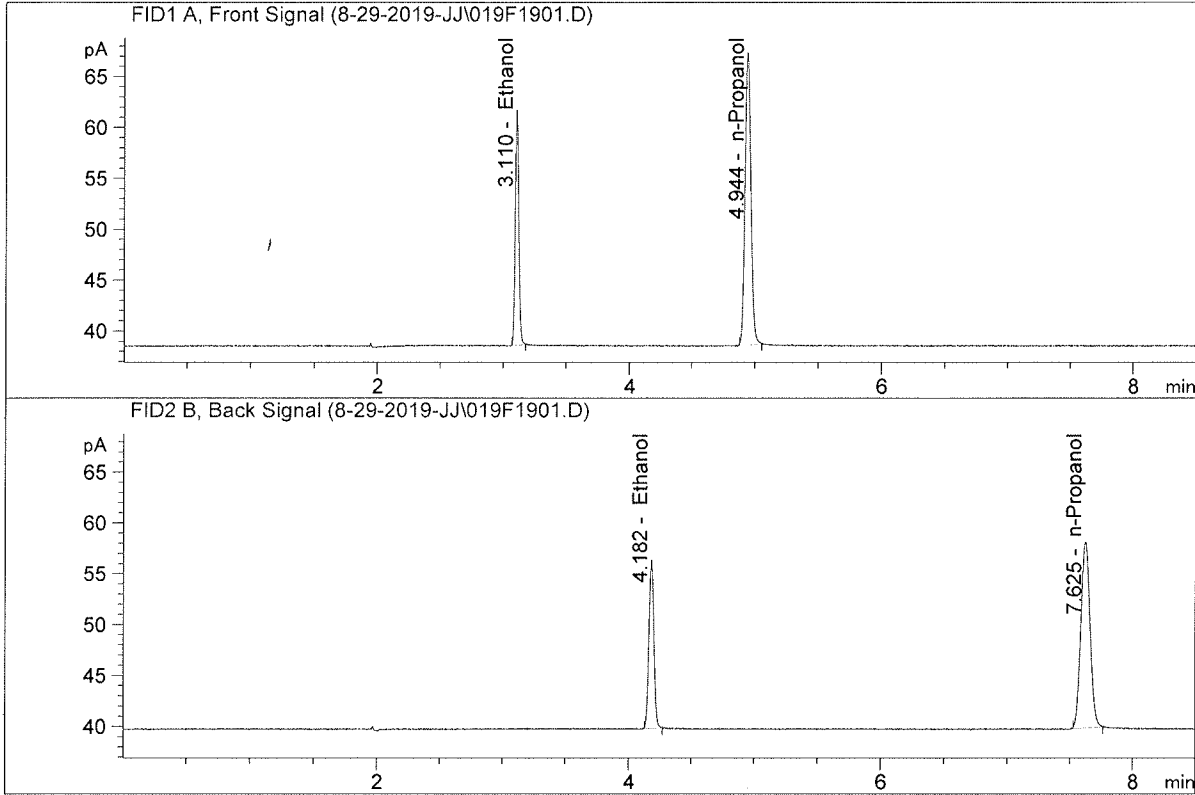


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	46.32364	0.2457	g/100cc
2.	Ethanol	Column 2:	46.13868	0.2470	g/100cc
3.	n-Propanol	Column 1:	94.53088	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.32616	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 19200-387-B  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 30, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	45.39806	0.2407	g/100cc
2.	Ethanol	Column 2:	45.35511	0.2432	g/100cc
3.	n-Propanol	Column 1:	94.55153	1.0000	g/100cc
4.	n-Propanol	Column 2:	92.16646	1.0000	g/100cc

**VOLATILES DETERMINATION CASEFILE WORKSHEET**

Laboratory No.: 19200-351

Analysis Date(s): 29 Aug 2019

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2403	0.2420	0.0017	0.2411	0.2434
(g/100cc)	0.2444	0.2469	0.0025	0.2456	

**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%

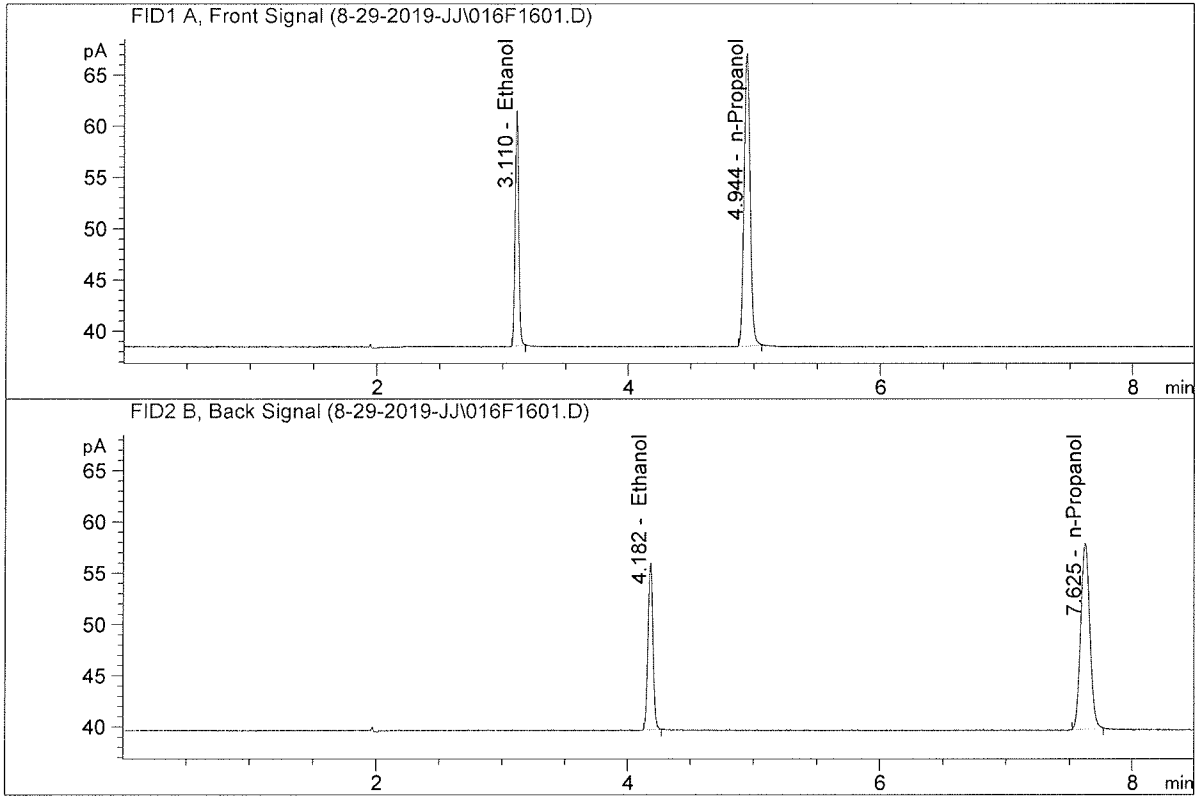
Overall Mean (g/100cc)	Low	High	5% of Mean
0.243	0.230	0.256	0.013

Reported Result	
0.243	

*Calibration and control data are stored centrally.*

ISP Forensic Services Blood Alcohol Report

Sample Name : 19200-351-A  
 Laboratory : Coeur d' Alene  
 Injection Date : Aug 29, 2019  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742044-IT00725005

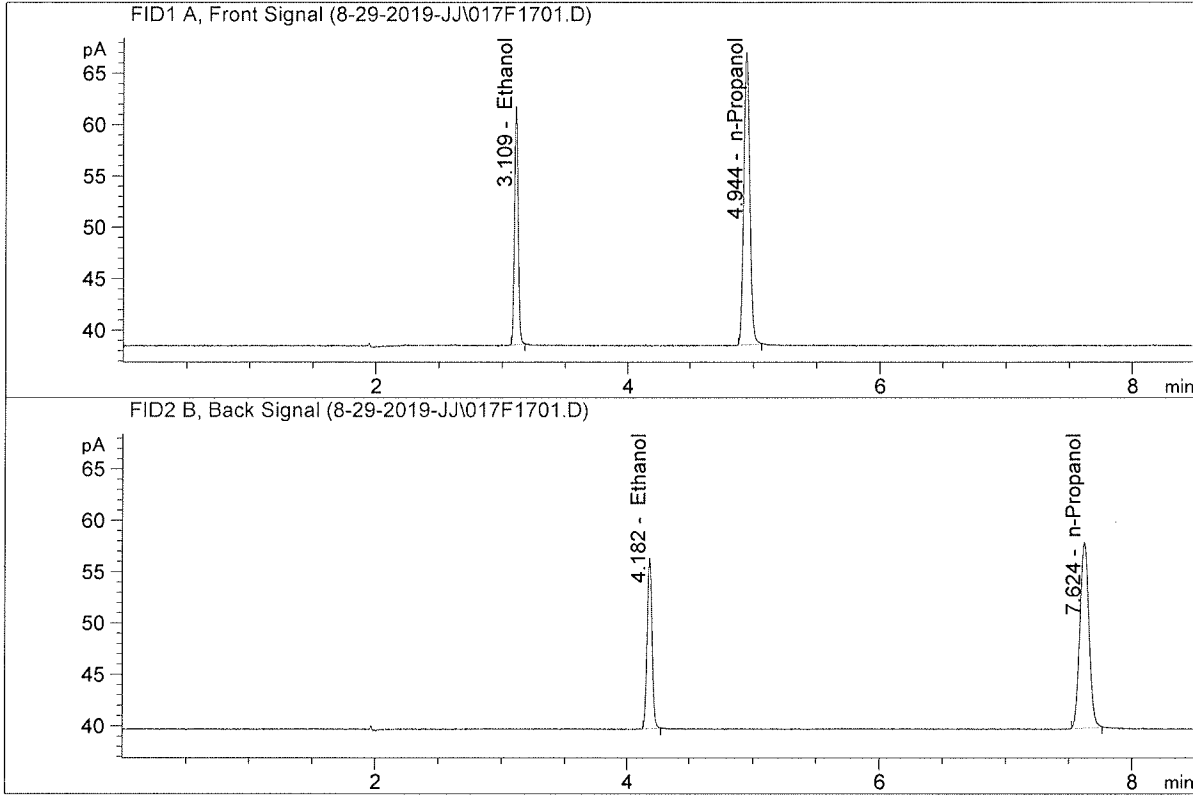


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.99169	0.2403	g/100cc
2.	Ethanol	Column 2:	44.86011	0.2420	g/100cc
3.	n-Propanol	Column 1:	93.85225	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.59670	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 19200-351-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:	45.60933	0.2444	g/100cc
2.	Ethanol	Column 2:	45.55211	0.2469	g/100cc
3.	n-Propanol	Column 1:	93.56003	1.0000	g/100cc
4.	n-Propanol	Column 2:	91.16917	1.0000	g/100cc