



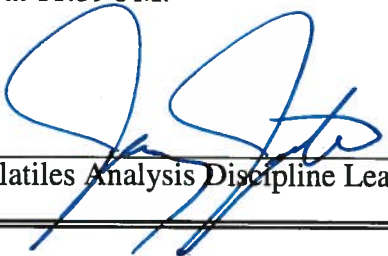
*Idaho State Police Forensic Services*

**CERTIFICATE OF ANALYSIS/APPROVAL**

The Idaho State Police Forensic Services (ISPFS) hereby certifies and approves Alcohol Simulator Solution **Lot Number 13220** (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 13220** 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 5<sup>th</sup>, 2015 at 11:59 PM.

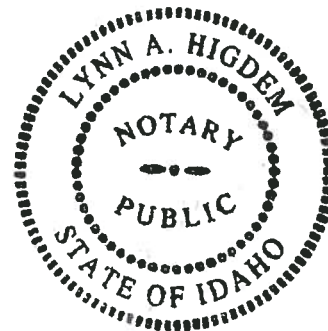
5-21-2015  
Date

  
Volatiles Analysis Discipline Leader

STATE OF IDAHO )  
                          ) ss.  
County of Kootenai)

On this 21 day of May, in the year 2015, 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: 09/08/2016



## Raw data from analysis: LOT #13220

Analyst: RC	Bottle #350	sample #1	a	0.2452	overall mean: <b>0.2483</b>
			b	0.2438	
RC	bottle #210	sample #2	a	0.2495	
			b	0.2481	
		sample #3	a	0.2503	
			b	0.2486	
Sample #4	a	0.251			
	b	0.2499			
Analyst: HC	Bottle #347	sample #1	a	0.2486	overall mean: <b>0.2454</b>
			b	0.2521	
NB	bottle #346	sample #2	a	0.249	
			b	0.2509	
		sample #3	a	0.2435	
			b	0.2394	
		Sample #4	a	0.2422	
			b	0.2377	

**average of all raw data:** **0.2468625**

alcohol content conversion with 1.23: **0.2007**  
with 1.21: 0.20402

### Target value from provider:

0.2427	+/- 3% range	0.24998
		0.23542
0.2	+/- 3% range	0.206
		0.194



**GUTH LABORATORIES, INC.**

530 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

**CERTIFICATE OF ANALYSIS**

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number 13220 of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on August 6, 2013, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain 0.2427% (w/vol) ethyl alcohol. The expiration date for this lot number is August 5, 2015 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.

0.194 - 0.206

Ted L. Pauley, President  
GUTH LABORATORIES, INC.

**NIST Traceability:**

Testing was conducted using Cerilliant Reference Standard lot number FN032712-01 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.

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: GUTH 20 #13220 BOT350      Analysis Date(s): 11 May 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2452	0.2438	0.0014	0.2445	0.2466	
(g/100cc)	0.2495	0.2481	0.0014	0.2488		

### Analysis Method

Refer to Volatiles Analytical Method 1.0

### Instrument Information

*Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M  
Auto-Dilutor Serial Number: MD-96JF1032

Hamilton

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.246	0.233	0.259	0.013

	<b>Reported Result</b> <hr style="border-top: 1px dashed black;"/> $0.2466 \div 1.23 = 0.2005$ <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">0.200 g/210L</div>
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Calibration and control data are stored centrally.

Analyst: YHC

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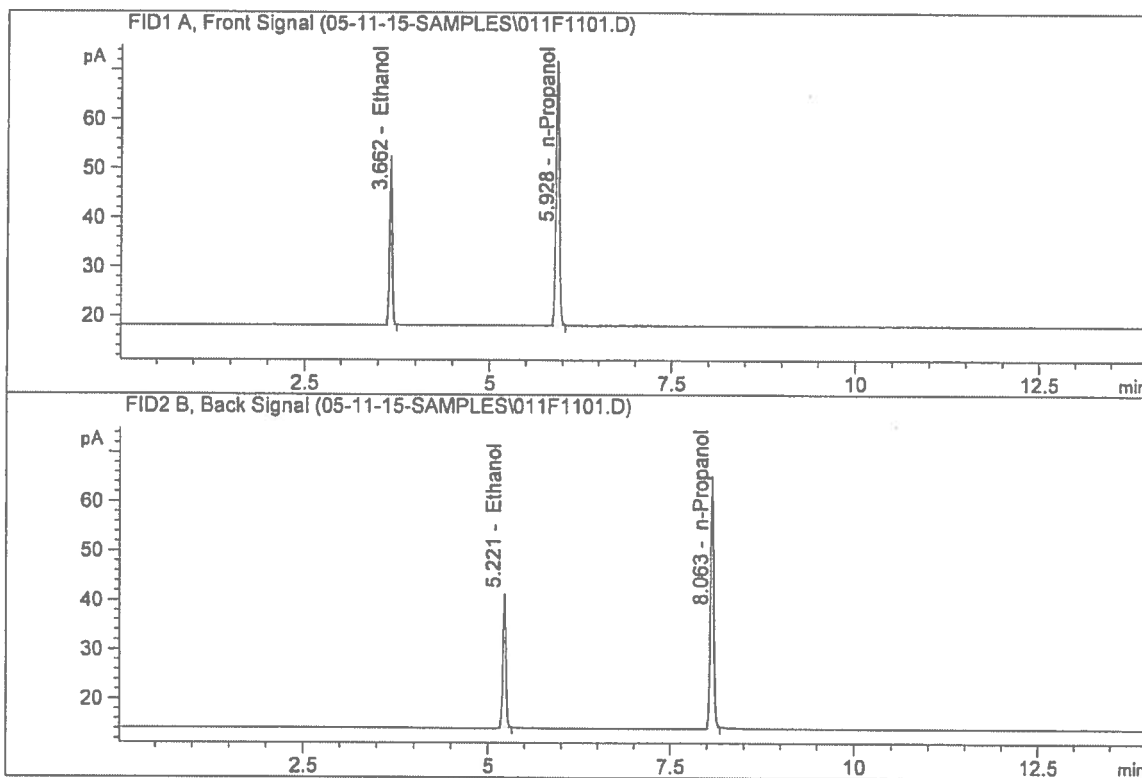
Issued: 01/16/2014

Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 20 #13220 BOT350-A  
 Laboratory : Pocatello  
 Injection Date : May 11, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742043-IT00741010

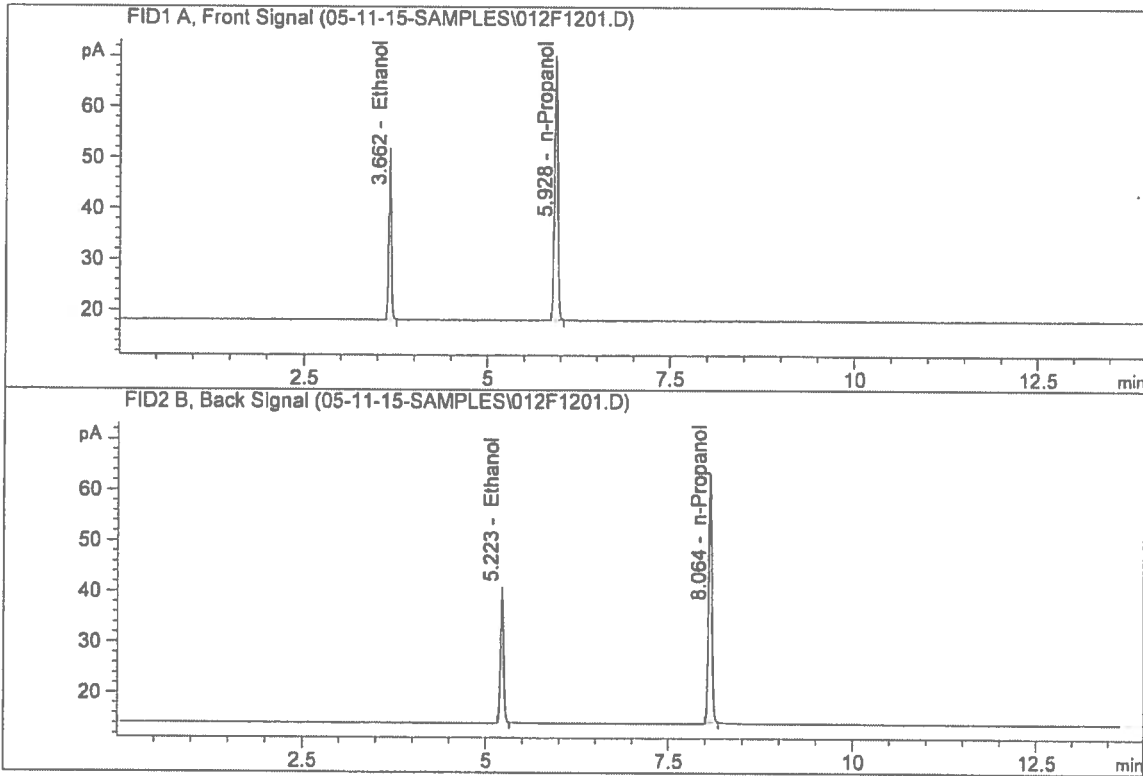


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	84.47588	0.2452	g/100cc
2.	Ethanol	Column 2:	78.69741	0.2438	g/100cc
3.	n-Propanol	Column 1:	168.30919	1.0000	g/100cc
4.	n-Propanol	Column 2:	156.47585	1.0000	g/100cc

*Handwritten signature/initials*

ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 20 #13220 BOT350-B  
 Laboratory : Pocatello  
 Injection Date : May 11, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	82.87099	0.2495	g/100cc
2.	Ethanol	Column 2:	77.07413	0.2481	g/100cc
3.	n-Propanol	Column 1:	162.21037	1.0000	g/100cc
4.	n-Propanol	Column 2:	150.56238	1.0000	g/100cc

*HC*

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: GUTH 20 #13220 BOT210      Analysis Date(s): 11 May 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2503	0.2486	0.0017	0.2494	0.2499	
(g/100cc)	0.2510	0.2499	0.0011	0.2504		

### 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-96JF1032

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.249	0.236	0.262	0.013

	Reported Result	
	$0.2499 \div 1.23 =$	$0.2032$ <del><math>0.2029</math></del> / 210L $= 0.203$ g/210L

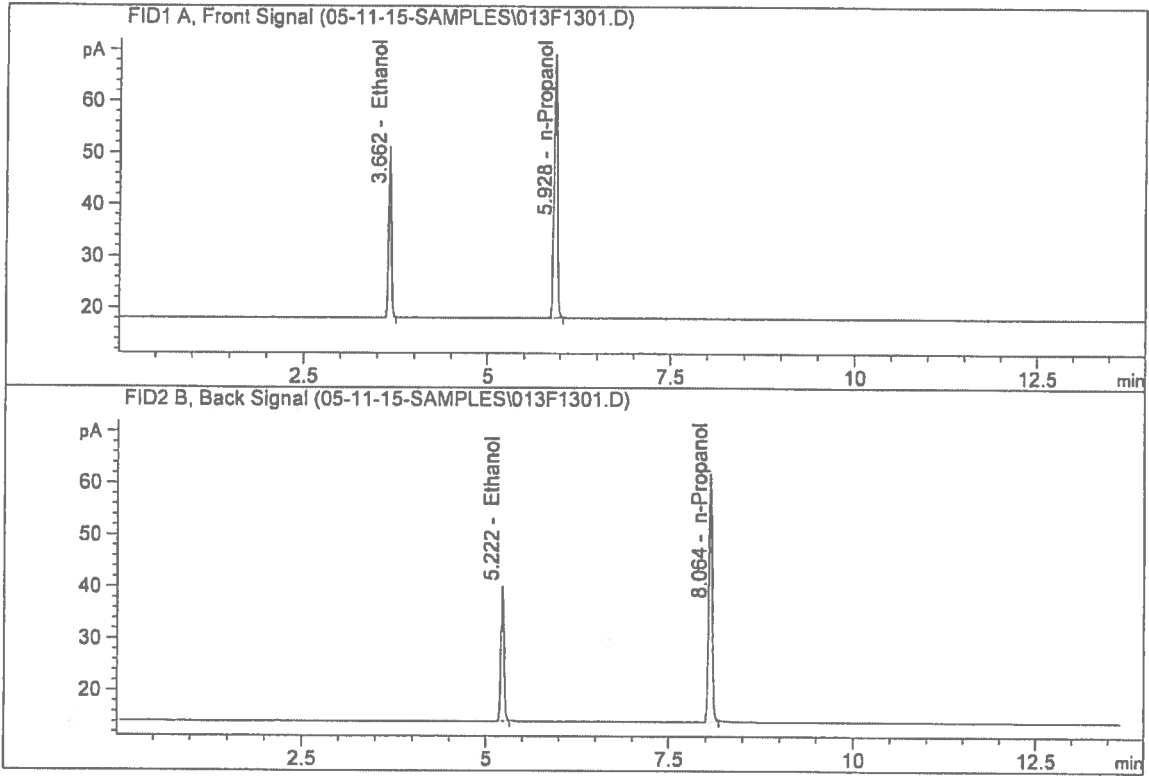
Calibration and control data are stored centrally.

Analyst:     *HC*    

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ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 20 #13220 BOT210-A  
 Laboratory : Pocatello  
 Injection Date : May 11, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742043-IT00741010



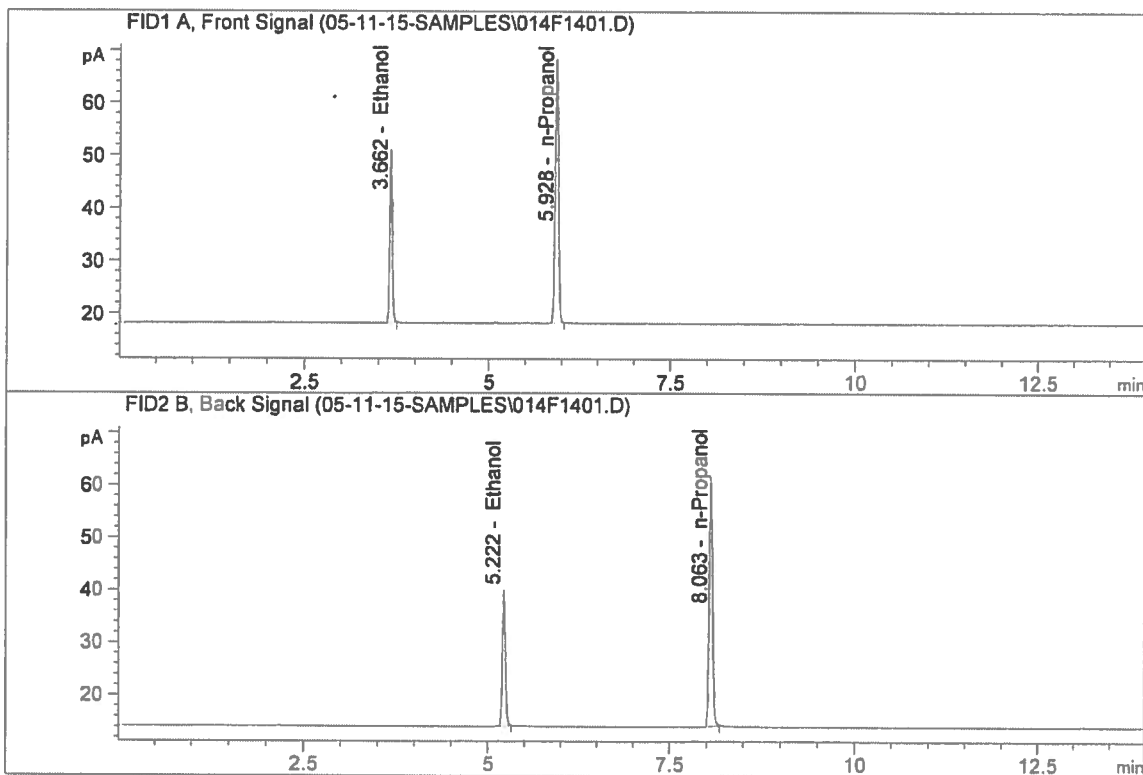
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	81.01694	0.2503	g/100cc
2.	Ethanol	Column 2:	75.19363	0.2486	g/100cc
3.	n-Propanol	Column 1:	158.09047	1.0000	g/100cc
4.	n-Propanol	Column 2:	146.57964	1.0000	g/100cc

*nc*



ISP Forensic Services Blood Alcohol Report

Sample Name : GUTH 20 #13220 BOT210-B  
 Laboratory : Pocatello  
 Injection Date : May 11, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN10742043-IT00741010



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	80.56088	0.2510	g/100cc
2.	Ethanol	Column 2:	74.96976	0.2499	g/100cc
3.	n-Propanol	Column 1:	156.74307	1.0000	g/100cc
4.	n-Propanol	Column 2:	145.41687	1.0000	g/100cc

*Handwritten signature/initials*

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: Guth 0.20 *lot 13220*      Analysis Date(s): 18 Mar 2015 *Bottle #347*

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2486	0.2521	0.0035	0.2503	0.2501	
(g/100cc)	0.2490	0.2509	0.0019	0.2499		

### 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: MD96BC1382/MD94AM10010

### 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

	<b>Reported Result</b>	
	$0.250 \div 1.23$	$0.2033$ <i>MS</i>

*Calibration and control data are stored centrally.*

Analyst:     *HK*    

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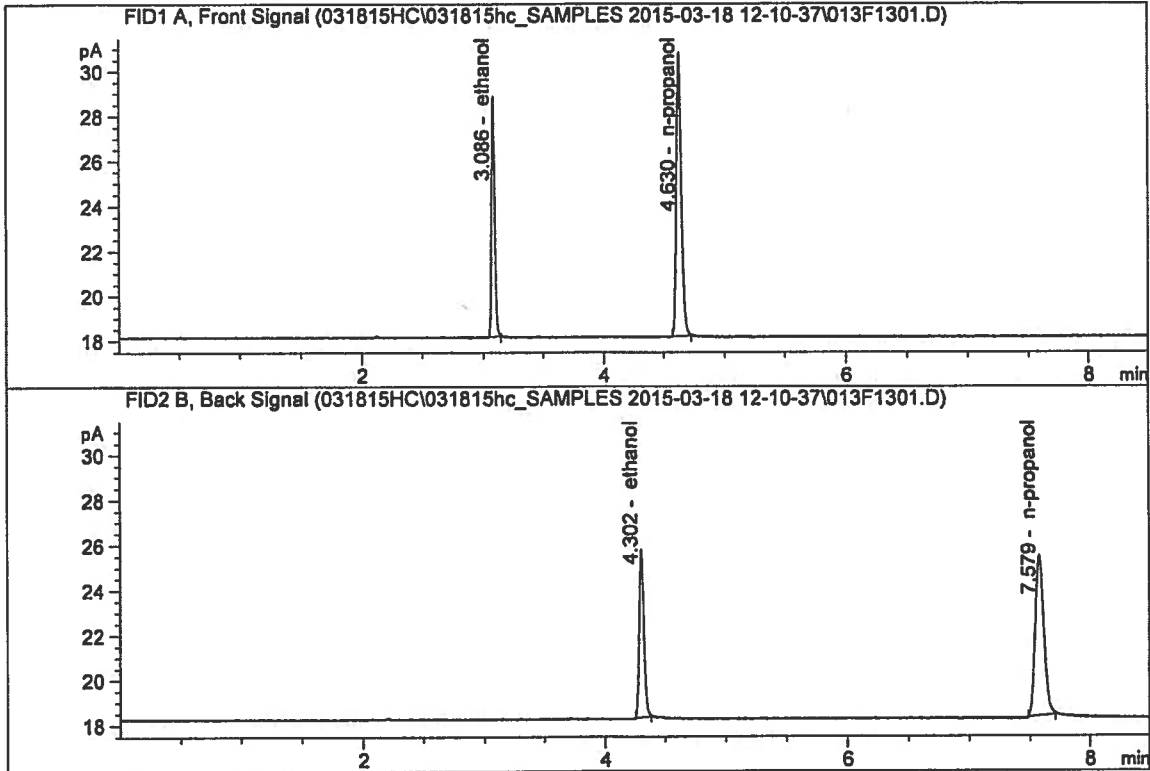
Issued: 01/16/2014

Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : Guth 0.20-A  
 Laboratory : Meridian  
 Injection Date : Mar 18, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

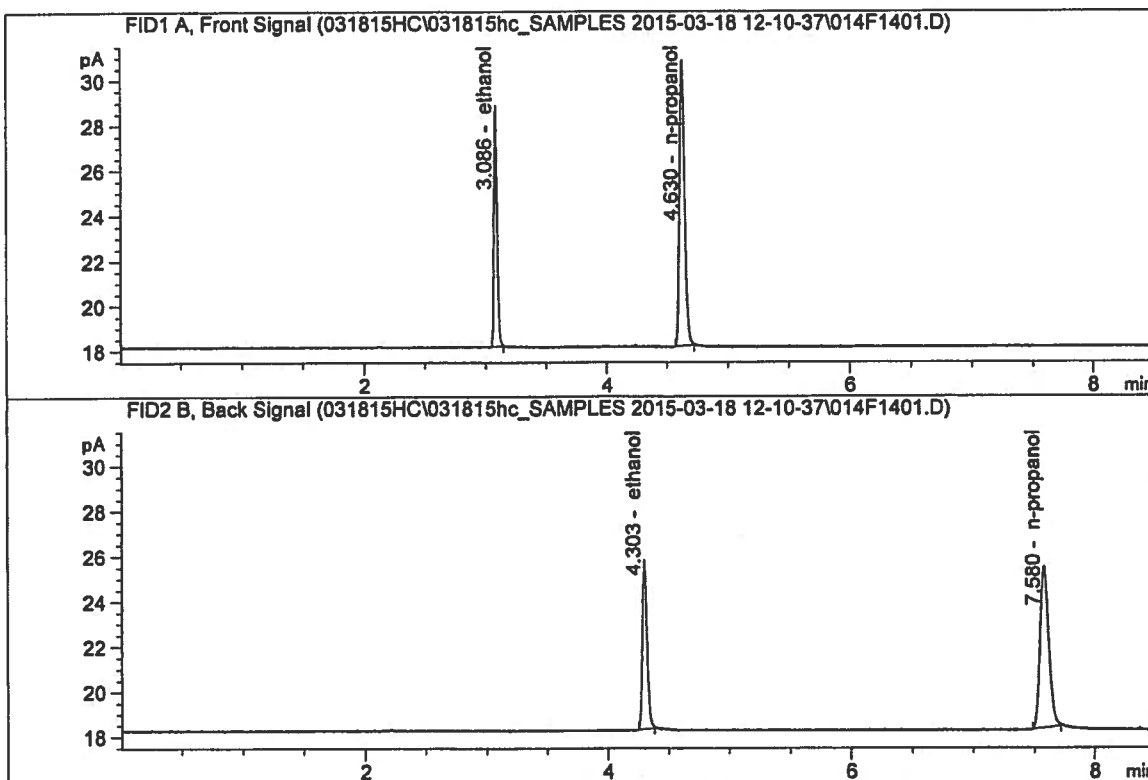


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.69028	0.2486	g/100cc
2.	Ethanol	Column 2:	20.27412	0.2521	g/100cc
3.	n-Propanol	Column 1:	36.34321	1.0000	g/100cc
4.	n-Propanol	Column 2:	35.21139	1.0000	g/100cc

HC

ISP Forensic Services Blood Alcohol Report

Sample Name : Guth 0.20-B  
 Laboratory : Meridian  
 Injection Date : Mar 18, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.74882	0.2490	g/100cc
2.	Ethanol	Column 2:	20.31583	0.2509	g/100cc
3.	n-Propanol	Column 1:	36.39077	1.0000	g/100cc
4.	n-Propanol	Column 2:	35.44890	1.0000	g/100cc

*Handwritten signature/initials*

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: Guth 0.08 lot14070

Analysis Date(s): 24 Mar 2015

Bottle # 346

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2435	0.2394	0.0041	0.2414	0.2407	
(g/100cc)	0.2422	0.2377	0.0045	0.2399		

### 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: MD96BC1382/MD94AM10010

### Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.240	0.228	0.252	0.012

	<b>Reported Result</b>	
	$0.240 \div 1.23$	0.1957

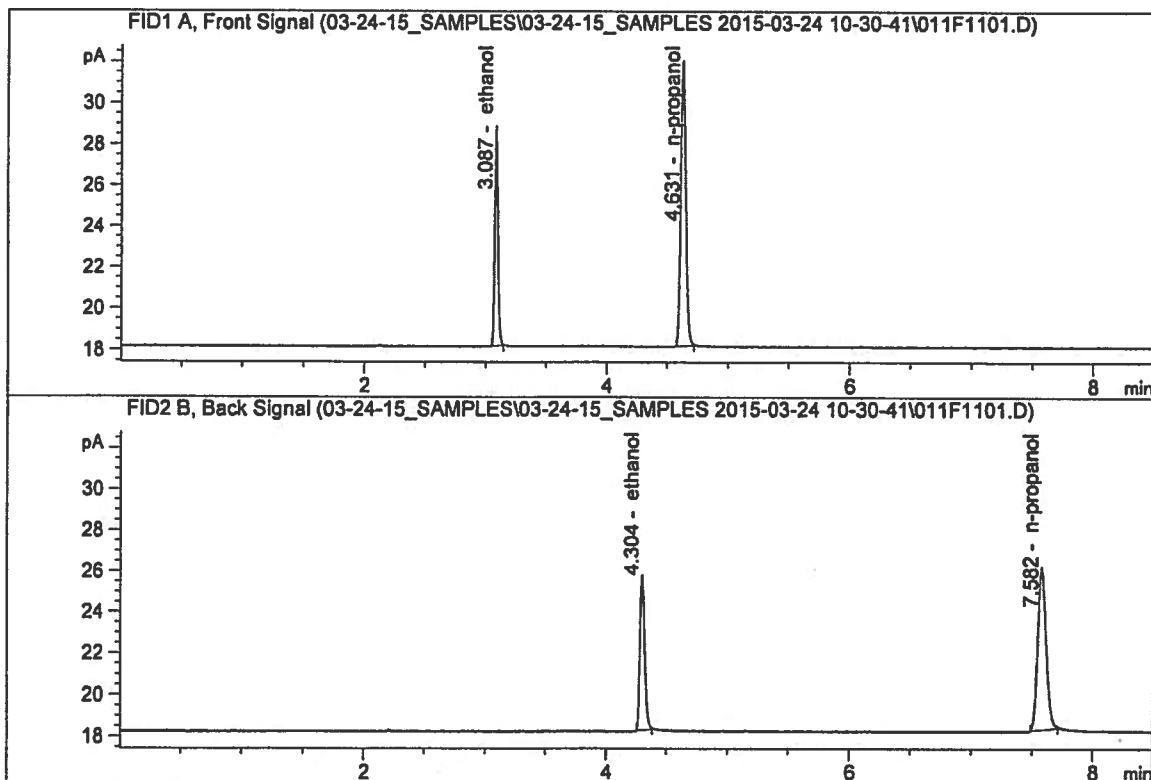
*Calibration and control data are stored centrally.*

Analyst: MB

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ISP Forensic Services Blood Alcohol Report

Sample Name : Guth 0.20 lot13220-A  
 Laboratory : Meridian  
 Injection Date : Mar 24, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

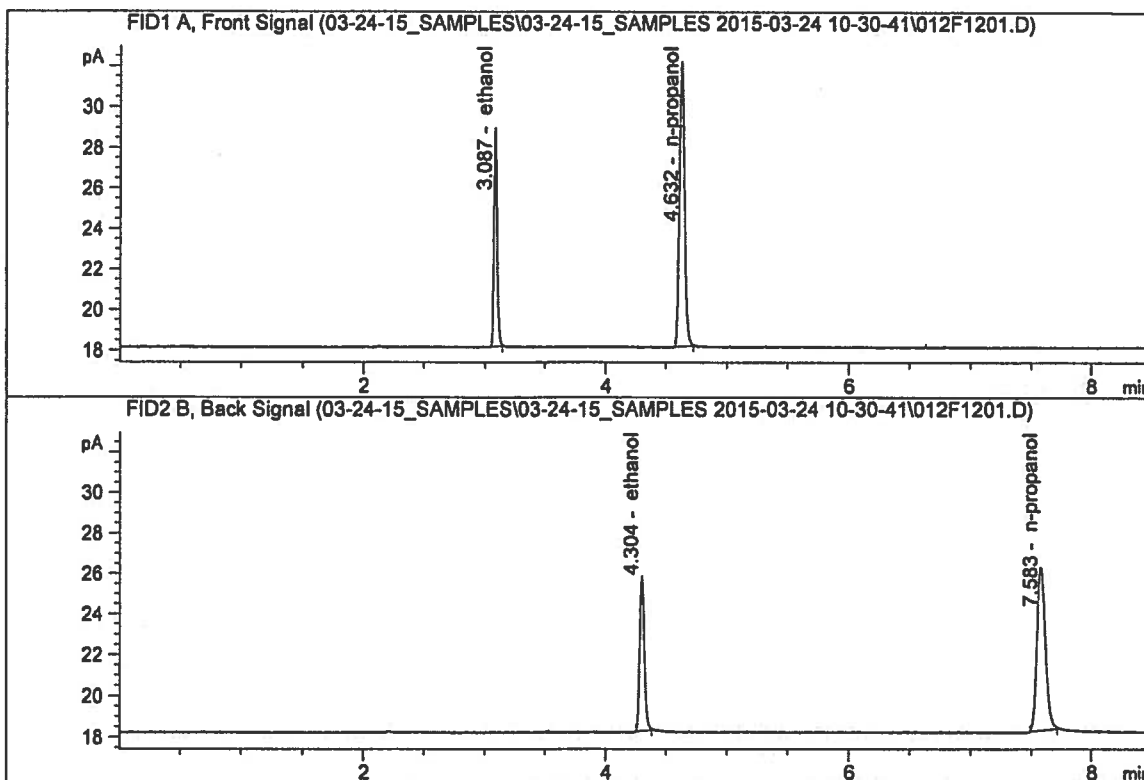


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.80391	0.2435	g/100cc
2.	Ethanol	Column 2:	20.26317	0.2394	g/100cc
3.	n-Propanol	Column 1:	39.83548	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.77186	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : Guth 0.20 lot13220-B  
 Laboratory : Meridian  
 Injection Date : Mar 24, 2015  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.92739	0.2422	g/100cc
2.	Ethanol	Column 2:	20.42621	0.2377	g/100cc
3.	n-Propanol	Column 1:	40.30055	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.35868	1.0000	g/100cc

NB