**Worklist: 3861**

| LAB_CASE | ITEM | ITEM_TYPE | DESCRIPTION |
|---|---|---|---|
| C2019-2147 | 1 | UCK | Alcohol Analysis |
| C2019-2157 | 1 | BCK | Alcohol Analysis |
| C2019-2160 | 1 | BCK | Alcohol Analysis |
| C2019-2161 | 1 | BCK | Alcohol Analysis |
| C2019-2162 | 1 | BCK | Alcohol Analysis |
| C2019-2197 | 1 | BCK | Alcohol Analysis |
| C2019-2211 | 1 | BCK | Alcohol Analysis |
| C2019-2212 | 1 | BCK | Alcohol Analysis |
| C2019-2222 | 1 | BCK | Alcohol Analysis |
| C2019-2302 | 1 | BCK | Alcohol Analysis |
| C2019-2303 | 1 | BCK | Alcohol Analysis |
| C2019-2320 | 1 | BCK | Alcohol Analysis |

## Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

*Analytical Method(s): 1.0*

*Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379*

**Volatiles Quality Assurance Controls** **Run Date(s): 12/05/19**

| Control level | Expiration | Lot # | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|---|---|
| Level 1 | Jan-22 | 1801036 | 0.0812 | 0.0731-0.0893 | 0.0803 g/100cc |
| | | | | | 0.0823 g/100cc |
| | | | | | 0.0814 g/100cc |
| Level 2 | Mar-22 | 1803028 | 0.2035 | 0.1832-0.2238 | 0.2025 g/100cc |
| | | | | | g/100cc |
| | | | | | g/100cc |

| | | | | | |
|---|---|---|---|---|---|
| **Multi-Component mixture:** | **Sep-20** | **Lot #** | FN06041502 | | OK |
| **Curve Fit:** | **Column 1** | 1.00000 | **Column2** | | 0.99999 |

**Ethanol Calibration Reference Material**

| Calibrator level | Target Value | Acceptable Range | Column 1 | Column 2 | Precision | Mean |
|---|---|---|---|---|---|---|
| 50 | 0.050 | 0.045 - 0.055 | 0.0501 | 0.0497 | 0.0004 | 0.0499 |
| 100 | 0.100 | 0.090 - 0.110 | 0.0990 | 0.0983 | 0.0007 | 0.0986 |
| 200 | 0.200 | 0.180 - 0.220 | 0.2001 | 0.1994 | 0.0007 | 0.1997 |
| 300 | 0.300 | 0.270 - 0.330 | 0.2992 | 0.2996 | 0.0004 | 0.2994 |
| 500 | 0.500 | 0.450 - 0.550 | 0.5006 | 0.5008 | 0.0002 | 0.5007 |

**Aqueous Controls**

| Control level | Target Value | Acceptable Range | Overall Results |
|---|---|---|---|
| 80 | 0.080 | 0.076 - 0.084 | 0.080 g/100cc |

Revision: 1

Issue Date: 01/03/2019

Issuing Authority: Quality Manager

# Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_05.12.2019_04.16.07\12-5-2019.S
Data directory path: C:\Chem32\1\Data\12-5-2019-JJA
Logbook: C:\Chem32\1\Data\12-5-2019-JJA\12-5-2019.LOG
Sequence start: 12/5/2019 4:29:48 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 | - | 1.0000 | 001F0101.D | | 0 |
| 2 | 2 | 1 | VOL MIX FN-06041 | - | 1.0000 | 002F0201.D | | 10 |
| 3 | 3 | 1 | ISTD BLANK-1 | - | 1.0000 | 003F0301.D | | 2 |
| 4 | 4 | 1 | QC-1(1)-A | - | 1.0000 | 004F0401.D | | 4 |
| 5 | 5 | 1 | QC-1(1)-B | - | 1.0000 | 005F0501.D | | 4 |
| 6 | 6 | 1 | 0.08 FN04171701- | - | 1.0000 | 006F0601.D | | 4 |
| 7 | 7 | 1 | 0.08 FN04171701- | - | 1.0000 | 007F0701.D | | 4 |
| 8 | 8 | 1 | C2019-2147-1-A | - | 1.0000 | 008F0801.D | | 2 |
| 9 | 9 | 1 | C2019-2147-1-B | - | 1.0000 | 009F0901.D | | 2 |
| 10 | 10 | 1 | C2019-2157-1-A | - | 1.0000 | 010F1001.D | | 6 |
| 11 | 11 | 1 | C2019-2157-1-B | - | 1.0000 | 011F1101.D | | 6 |
| 12 | 12 | 1 | C2019-2160-1-A | - | 1.0000 | 012F1201.D | | 6 |
| 13 | 13 | 1 | C2019-2160-1-B | - | 1.0000 | 013F1301.D | | 6 |
| 14 | 14 | 1 | C2019-2161-1-A | - | 1.0000 | 014F1401.D | | 6 |
| 15 | 15 | 1 | C2019-2161-1-B | - | 1.0000 | 015F1501.D | | 6 |
| 16 | 16 | 1 | C2019-2162-1-A | - | 1.0000 | 016F1601.D | | 3 |
| 17 | 17 | 1 | C2019-2162-1-B | - | 1.0000 | 017F1701.D | | 3 |
| 18 | 18 | 1 | C2019-2197-1-A | - | 1.0000 | 018F1801.D | | 6 |
| 19 | 19 | 1 | C2019-2197-1-B | - | 1.0000 | 019F1901.D | | 6 |
| 20 | 20 | 1 | C2019-2211-1-A | - | 1.0000 | 020F2001.D | | 6 |
| 21 | 21 | 1 | C2019-2211-1-B | - | 1.0000 | 021F2101.D | | 6 |
| 22 | 22 | 1 | C2019-2212-1-A | - | 1.0000 | 022F2201.D | | 4 |
| 23 | 23 | 1 | C2019-2212-1-B | - | 1.0000 | 023F2301.D | | 4 |
| 24 | 24 | 1 | C2019-2222-1-A | - | 1.0000 | 024F2401.D | | 4 |
| 25 | 25 | 1 | C2019-2222-1-B | - | 1.0000 | 025F2501.D | | 4 |
| 26 | 26 | 1 | QC-2(1)-A | - | 1.0000 | 026F2601.D | | 4 |
| 27 | 27 | 1 | QC-2(1)-B | - | 1.0000 | 027F2701.D | | 4 |
| 28 | 28 | 1 | C2019-2302-1-A | - | 1.0000 | 028F2801.D | | 4 |
| 29 | 29 | 1 | C2019-2302-1-B | - | 1.0000 | 029F2901.D | | 4 |
| 30 | 30 | 1 | C2019-2303-1-A | - | 1.0000 | 030F3001.D | | 4 |
| 31 | 31 | 1 | C2019-2303-1-B | - | 1.0000 | 031F3101.D | | 4 |
| 32 | 32 | 1 | C2019-2320-1-A | - | 1.0000 | 032F3201.D | | 4 |
| 33 | 33 | 1 | C2019-2320-1-B | - | 1.0000 | 033F3301.D | | 4 |
| 34 | 34 | 1 | QC-2(2)-A | - | 1.0000 | 034F3401.D | | 4 |
| 35 | 35 | 1 | QC-2(2)-B | - | 1.0000 | 035F3501.D | | 4 |
| 36 | 36 | 1 | QC-1(2)-A | - | 1.0000 | 036F3601.D | | 4 |
| 37 | 37 | 1 | QC-1(2)-B | - | 1.0000 | 037F3701.D | | 4 |
| 38 | 38 | 1 | ISTD BLANK-2 | - | 1.0000 | 038F3801.D | | 2 |
| 39 | 39 | 1 | water-2 | - | 1.0000 | 039F3901.D | | 0 |
| 40 | 40 | 1 | 0.05 DIAGNOSTIC | - | 1.0000 | 040F4001.D | | 4 |
| 41 | 41 | 1 | 0.100 DIAGNOSTIC | - | 1.0000 | 041F4101.D | | 4 |
| 42 | 42 | 1 | 0.200 DIAGNOSTIC | - | 1.0000 | 042F4201.D | | 4 |
| 43 | 43 | 1 | 0.300 DIAGNOSTIC | - | 1.0000 | 043F4301.D | | 4 |
| 44 | 44 | 1 | 0.500 DIAGNOSTIC | - | 1.0000 | 044F4401.D | | 4 |

99 12-7-19

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## Calibration Table

### General Calibration Setting

Calib. Data Modified : Thursday, December 05, 2019 10:15:04 AM
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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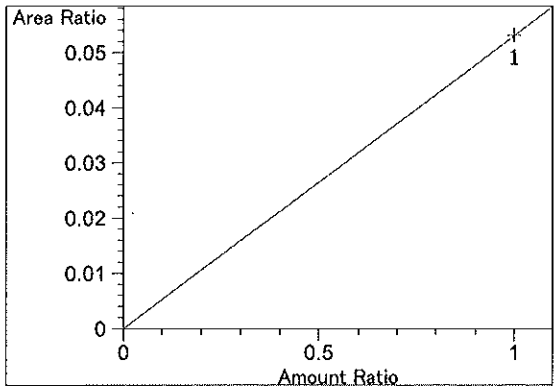
| RT | Sig | Lvl | Amount [g/100cc] | Area | Rsp.Factor | Ref | ISTD | # | Compound |
|---|---|---|---|---|---|---|---|---|---|
| 2.000 | 2 | 1 | 1.00000 | 5.00000 | 2.00000e-1 | No | No | 2 | Difluoroethane |
| 2.000 | 1 | 1 | 1.00000 | 5.00000 | 2.00000e-1 | No | No | 1 | Difluoroethane |
| 2.494 | 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 |
| 3.108 | 1 | 1 | 5.00000e-2 | 9.12254 | 5.48093e-3 | No | No | 1 | Ethanol |
| | | 2 | 1.00000e-1 | 18.17202 | 5.50296e-3 | | | | |
| | | 3 | 2.00000e-1 | 36.86318 | 5.42547e-3 | | | | |
| | | 4 | 3.00000e-1 | 55.40983 | 5.41420e-3 | | | | |
| | | 5 | 5.00000e-1 | 91.23925 | 5.48010e-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 |
| 4.179 | 2 | 1 | 5.00000e-2 | 9.14721 | 5.46615e-3 | No | No | 2 | Ethanol |
| | | 2 | 1.00000e-1 | 18.23848 | 5.48291e-3 | | | | |
| | | 3 | 2.00000e-1 | 36.98948 | 5.40694e-3 | | | | |
| | | 4 | 3.00000e-1 | 55.62798 | 5.39297e-3 | | | | |
| | | 5 | 5.00000e-1 | 91.44080 | 5.46802e-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 |
| 4.941 | 1 | 1 | 1.00000 | 95.92442 | 1.04249e-2 | No | Yes | 1 | n-Propanol |
| | | 2 | 1.00000 | 96.72778 | 1.03383e-2 | | | | |
| | | 3 | 1.00000 | 97.07811 | 1.03010e-2 | | | | |
| | | 4 | 1.00000 | 97.59138 | 1.02468e-2 | | | | |
| | | 5 | 1.00000 | 96.06167 | 1.04100e-2 | | | | |
| 7.618 | 2 | 1 | 1.00000 | 94.10735 | 1.06262e-2 | No | Yes | 2 | n-Propanol |
| | | 2 | 1.00000 | 94.75184 | 1.05539e-2 | | | | |
| | | 3 | 1.00000 | 94.76607 | 1.05523e-2 | | | | |
| | | 4 | 1.00000 | 94.84987 | 1.05430e-2 | | | | |
| | | 5 | 1.00000 | 93.26791 | 1.07218e-2 | | | | |

## Peak Sum Table

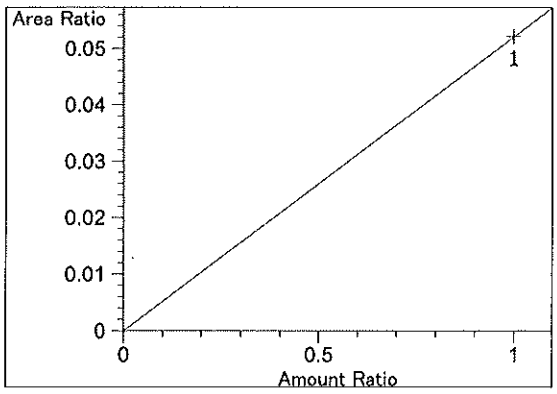
***No Entries in table***

## Calibration Curves

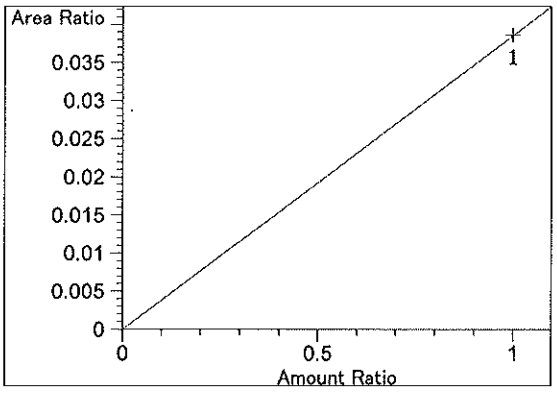



Difluoroethane at exp. RT: 2.000
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.31308e-2
x: Amount Ratio
y: Area Ratio

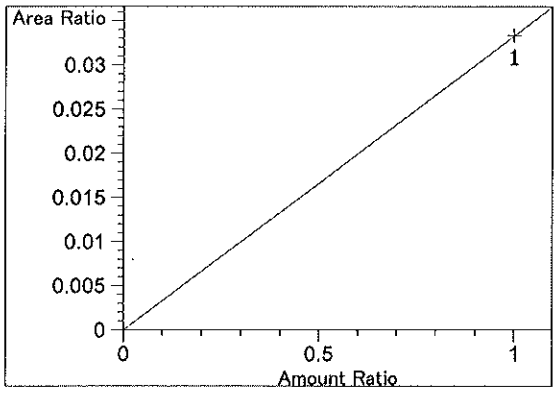
99



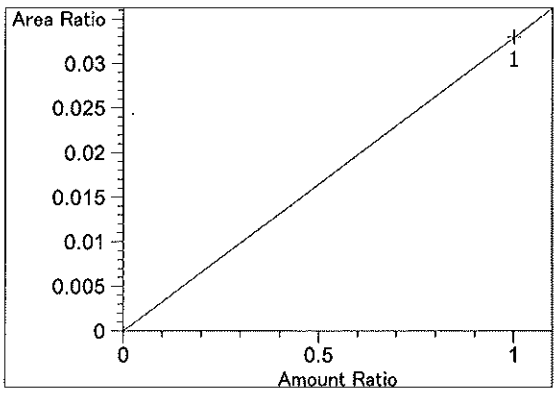

Difluoroethane at exp. RT: 2.000
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 5.21244e-2
x: Amount Ratio
y: Area Ratio




Methanol at exp. RT: 2.494
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.85376e-2
x: Amount Ratio
y: Area Ratio

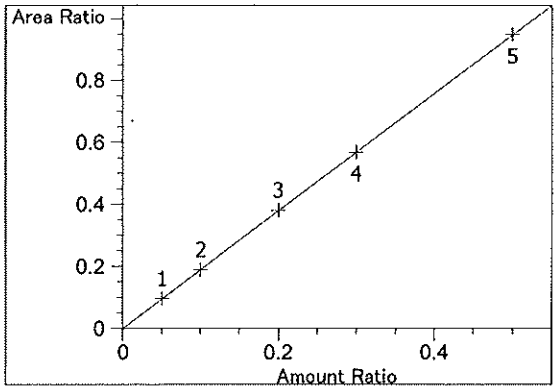



Acetaldehyde at exp. RT: 2.772
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.32878e-2
x: Amount Ratio
y: Area Ratio

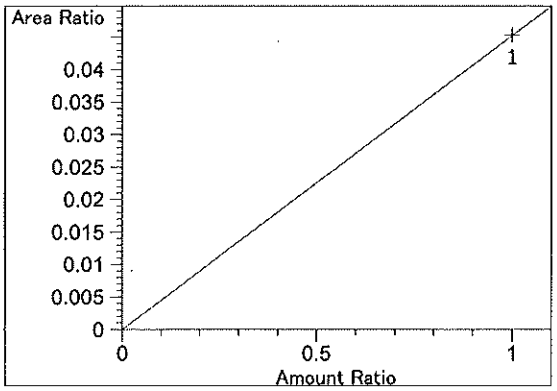



Acetaldehyde at exp. RT: 2.797
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 3.30022e-2
x: Amount Ratio
y: Area Ratio

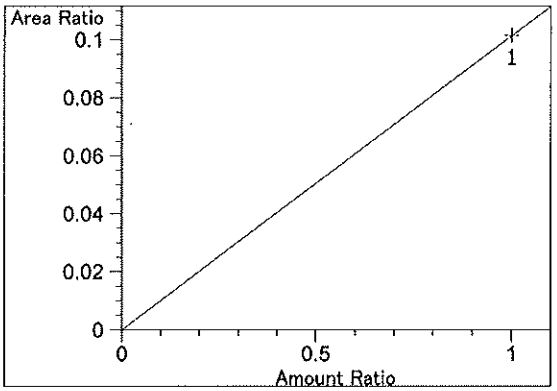
99



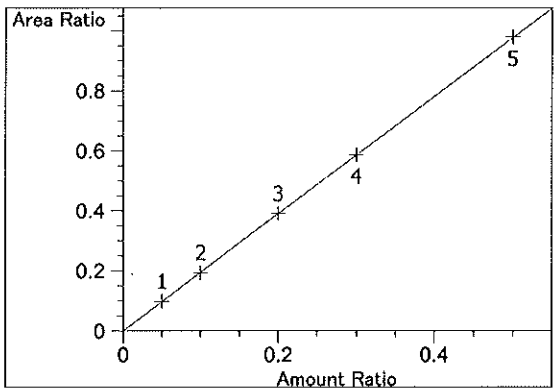

Ethanol at exp. RT: 3.108
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00132
Formula: y = mx
m: 1.89737
x: Amount Ratio
y: Area Ratio




Methanol at exp. RT: 3.211
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 4.52741e-2
x: Amount Ratio
y: Area Ratio

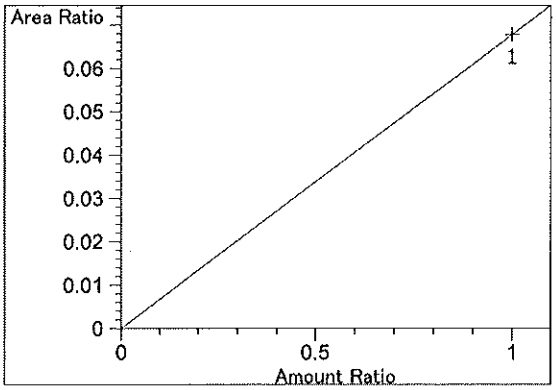



Isopropyl alcohol at exp. RT: 3.715
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.01440e-1
x: Amount Ratio
y: Area Ratio

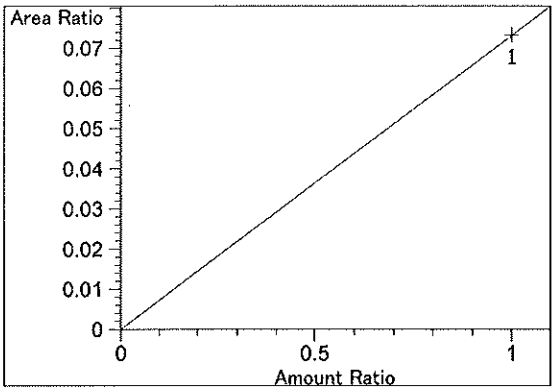



Ethanol at exp. RT: 4.179
FID2 B, Back Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00199
Formula: y = mx
m: 1.95751
x: Amount Ratio
y: Area Ratio

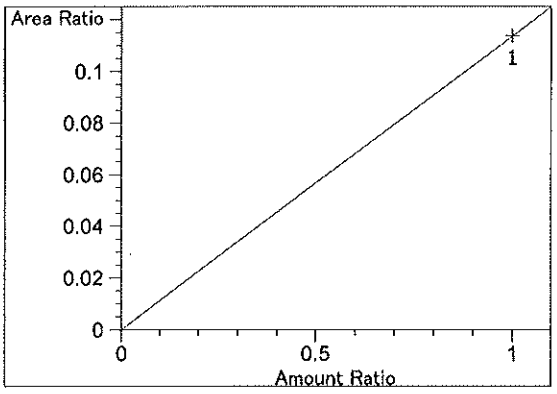
99



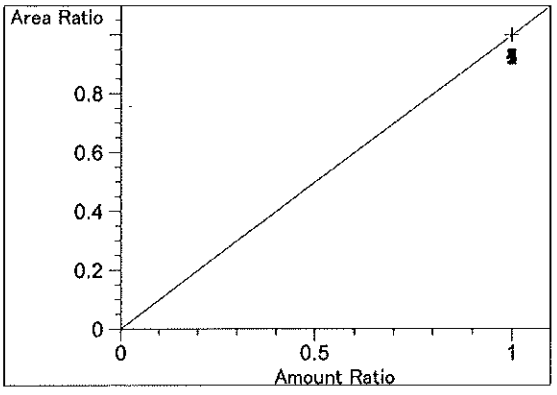

Acetone at exp. RT: 4.530
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 6.77554e-2
x: Amount Ratio
y: Area Ratio




Acetone at exp. RT: 4.549
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 7.32462e-2
x: Amount Ratio
y: Area Ratio

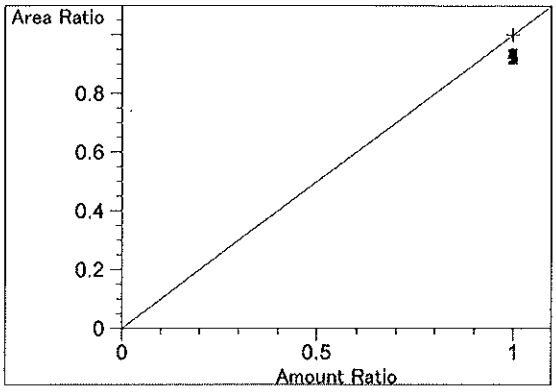



Isopropyl alcohol at exp. RT: 4.870
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.13768e-1
x: Amount Ratio
y: Area Ratio




n-Propanol at exp. RT: 4.941
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx
m: 1.00000
x: Amount Ratio
y: Area Ratio

99




n-Propanol at exp. RT: 7.618
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_05.12.2019_08.50.29\12-5-19cal.S

## Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_05.12.2019_08.50.29\12-5-19cal.S
Data directory path: C:\Chem32\1\Data\12-5-19calJJ
Logbook: C:\Chem32\1\Data\12-5-19calJJ\12-5-19cal.LOG
Sequence start: 12/5/2019 9:04:12 AM
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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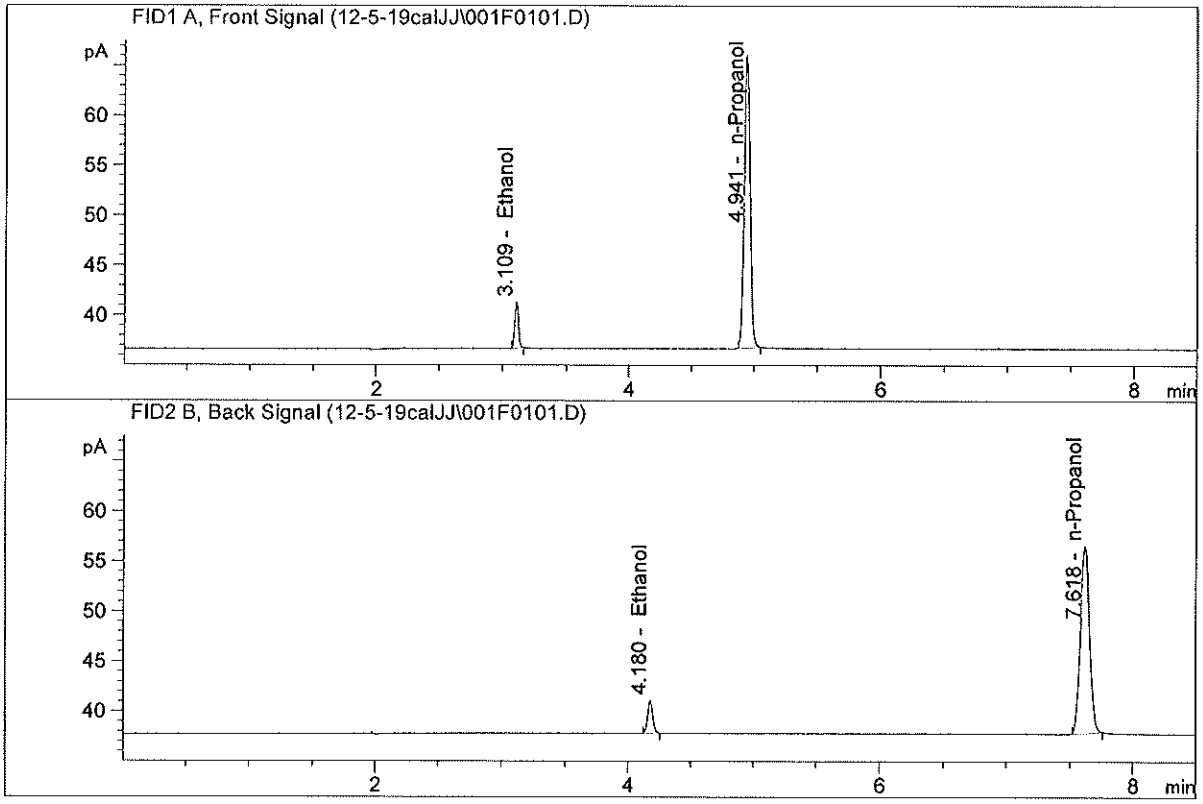
# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.05
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

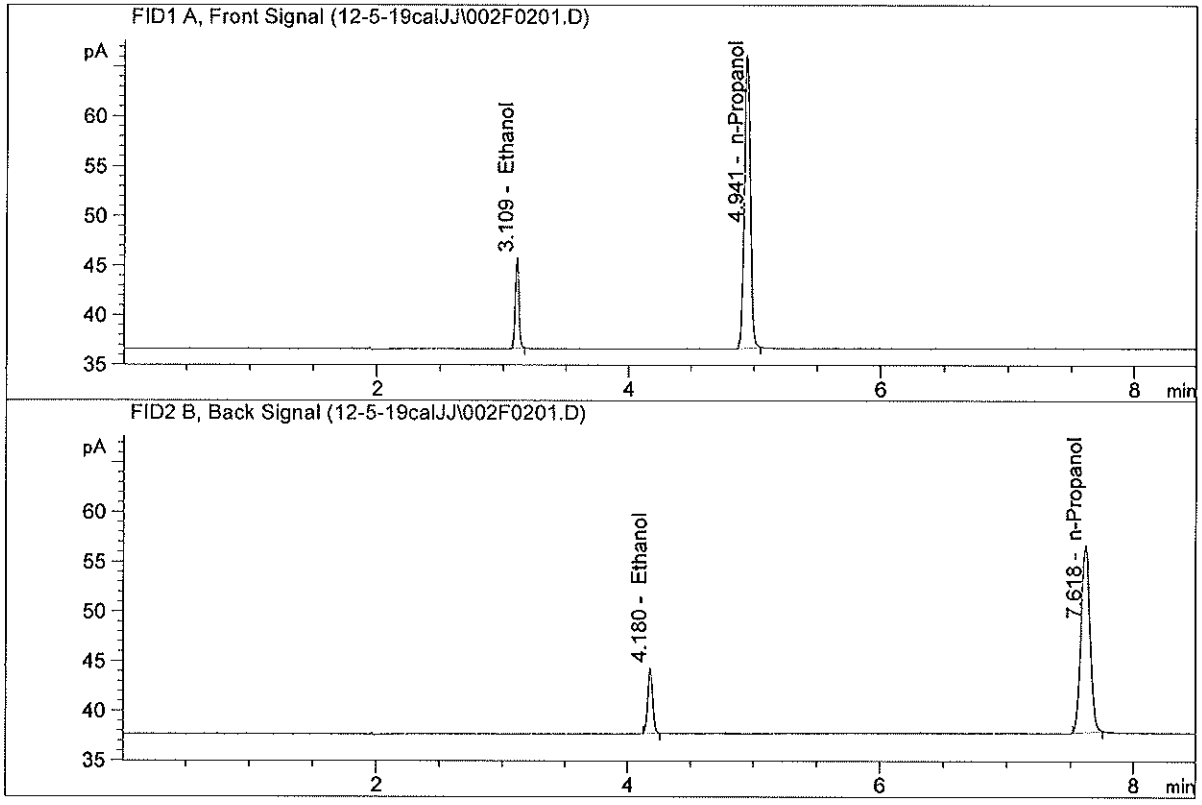



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 9.12254 | 0.0501 | g/100cc |
| 2. | Ethanol | Column 2: | 9.14721 | 0.0497 | g/100cc |
| 3. | n-Propanol | Column 1: | 95.92442 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.10735 | 1.0000 | g/100cc |

99

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

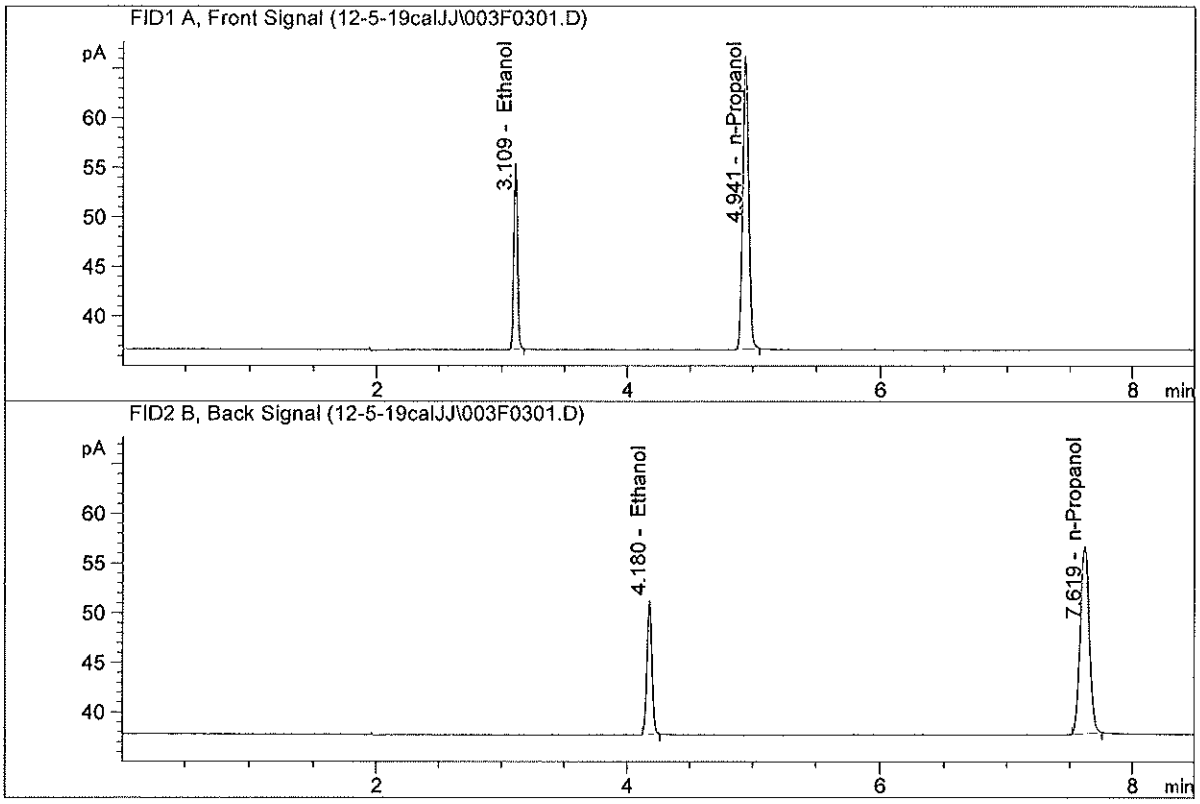



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 18.17202 | 0.0990 | g/100cc |
| 2. | Ethanol | Column 2: | 18.23848 | 0.0983 | g/100cc |
| 3. | n-Propanol | Column 1: | 96.72778 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.75184 | 1.0000 | g/100cc |

99

# ISP Forensic Services Blood Alcohol Report

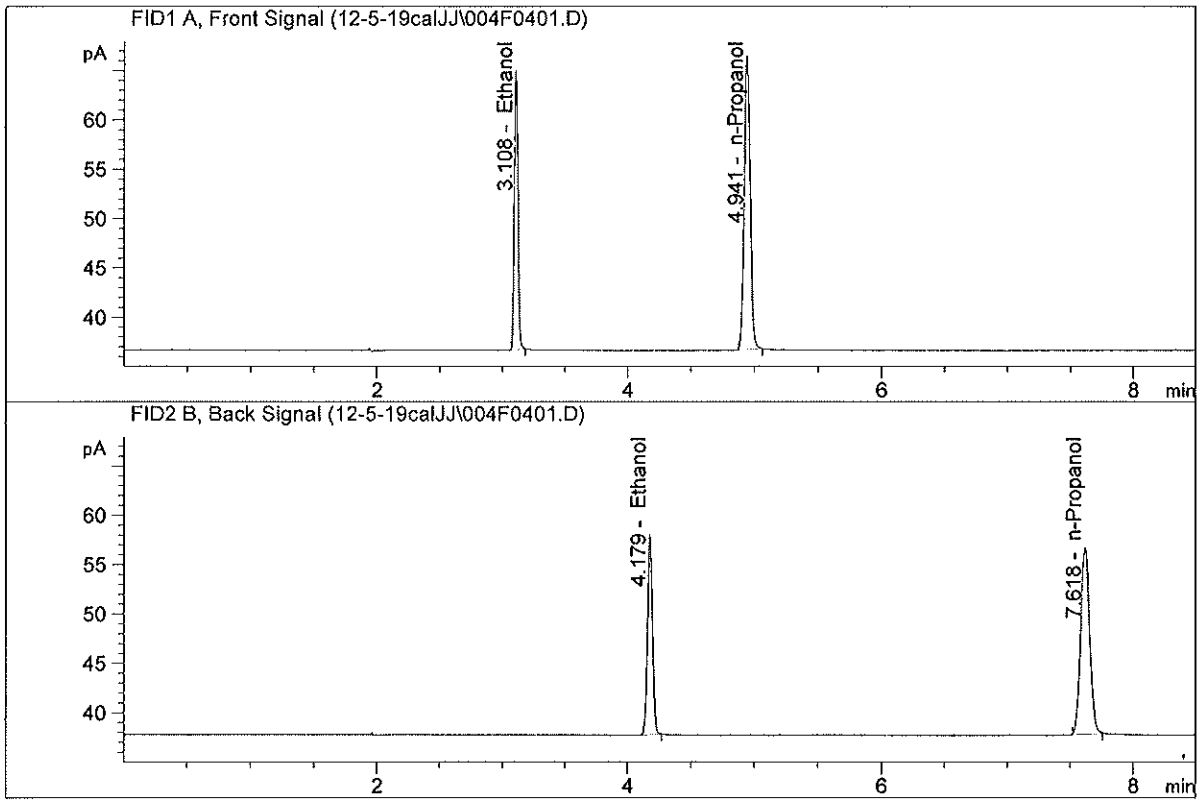
Sample Name : 0.200
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 36.86318 | 0.2001 | g/100cc |
| 2. | Ethanol | Column 2: | 36.98948 | 0.1994 | g/100cc |
| 3. | n-Propanol | Column 1: | 97.07811 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.76607 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

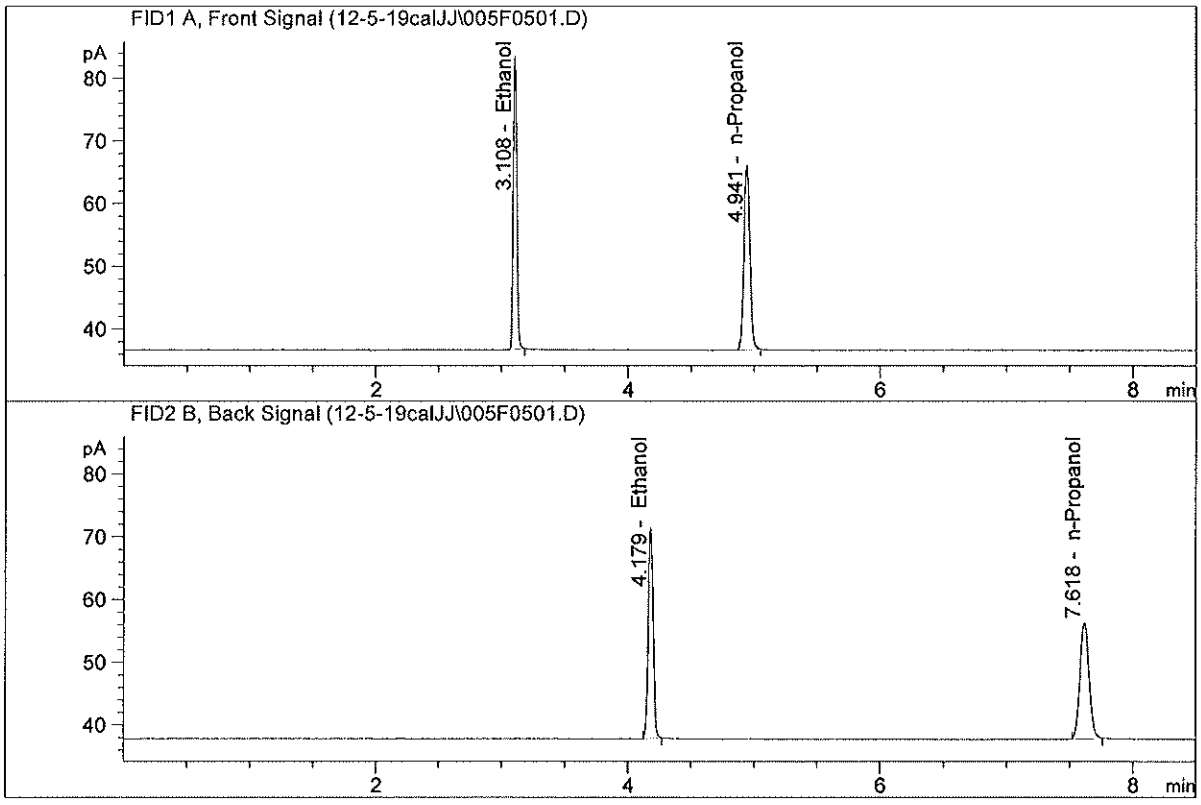
Sample Name : 0.300
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 55.40983 | 0.2992 | g/100cc |
| 2. | Ethanol | Column 2: | 55.62798 | 0.2996 | g/100cc |
| 3. | n-Propanol | Column 1: | 97.59138 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.84987 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

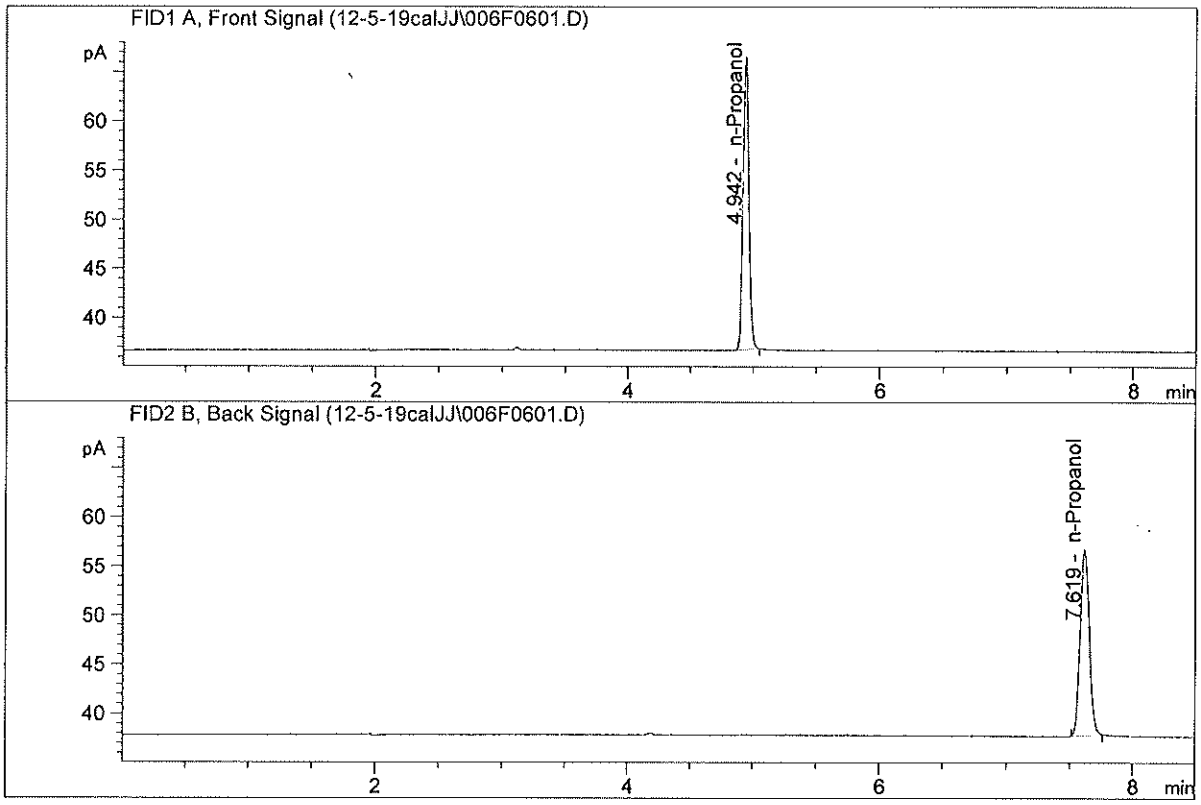
Sample Name : 0.500
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 91.23925 | 0.5006 | g/100cc |
| 2. | Ethanol | Column 2: | 91.44080 | 0.5008 | g/100cc |
| 3. | n-Propanol | Column 1: | 96.06167 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 93.26791 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

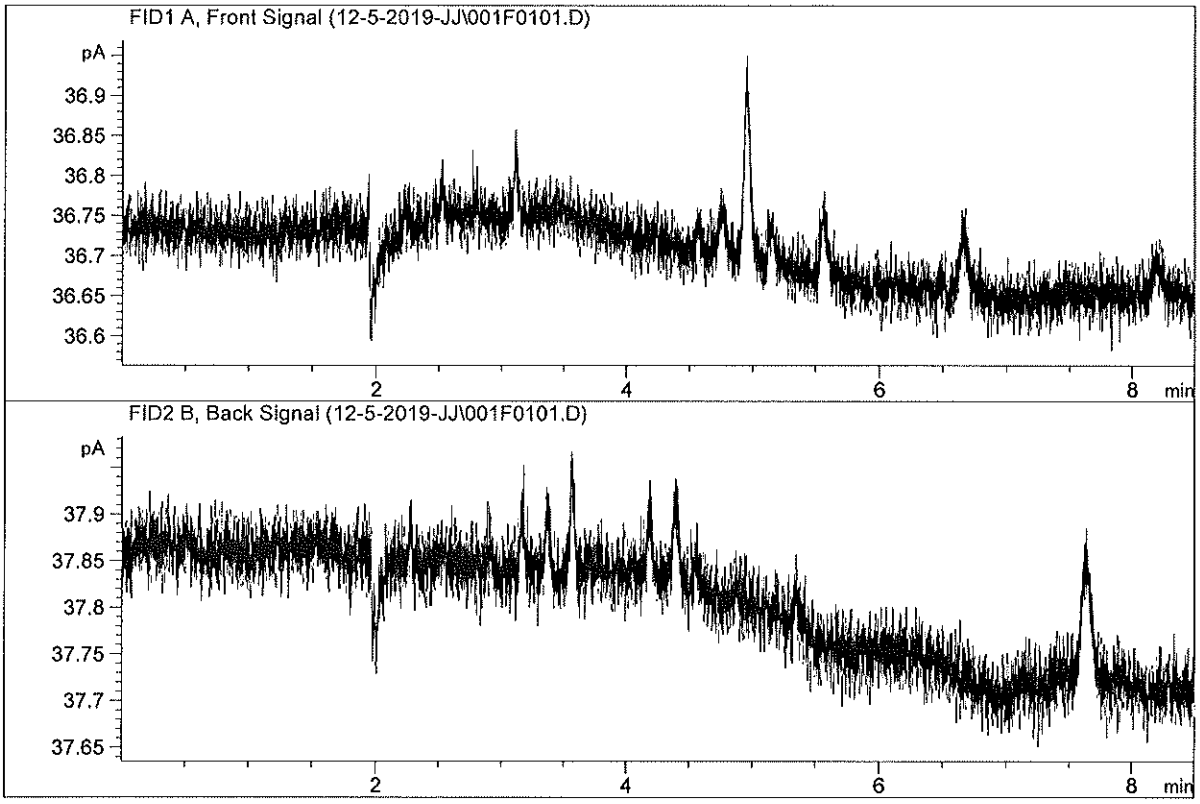
Sample Name : blank
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | 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: | 97.56792 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 95.17321 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

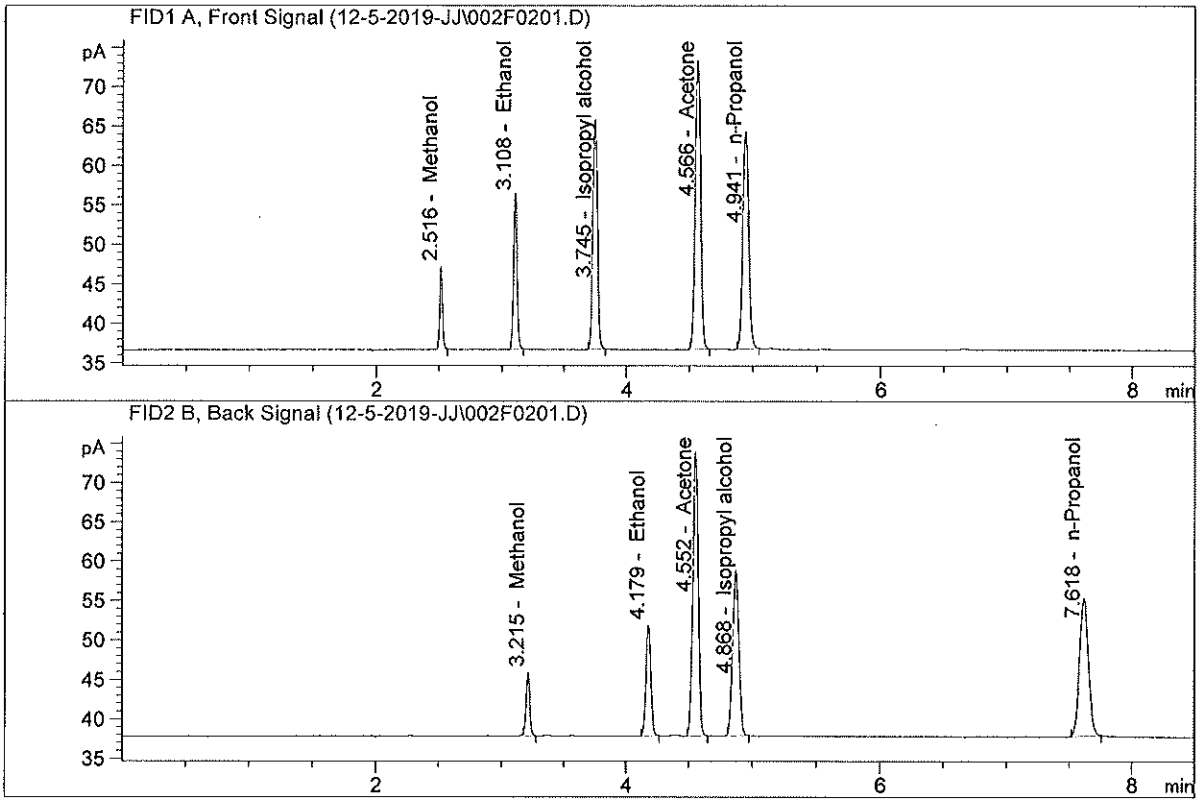
Sample Name : water-1
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | 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-06041502
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 38.64038 | 0.2268 | g/100cc |
| 2. | Ethanol | Column 2: | 38.47209 | 0.2241 | g/100cc |
| 3. | n-Propanol | Column 1: | 89.80675 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 87.70843 | 1.0000 | g/100cc |

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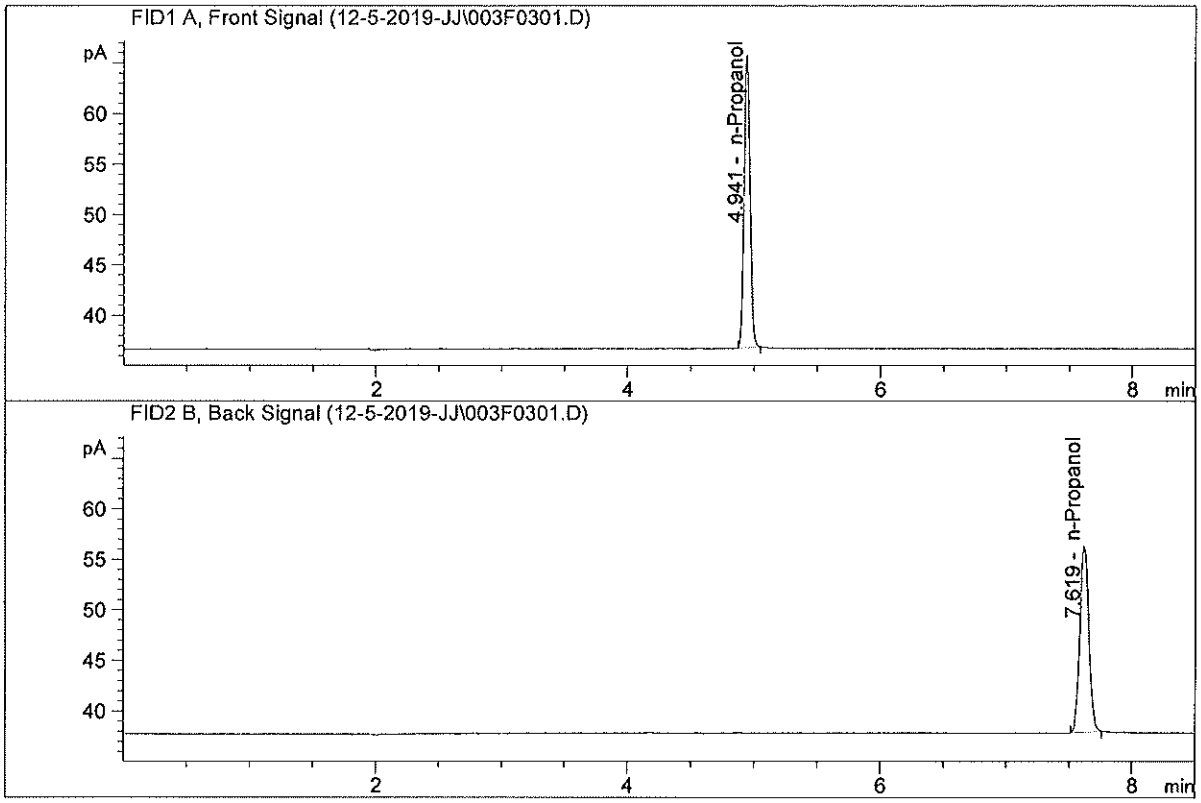
# ISP Forensic Services Blood Alcohol Report

Sample Name : ISTD BLANK-1
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
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: | 94.83993 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 92.67406 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC-1(1)** **Analysis Date(s): 05 Dec 2019**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.0803 | 0.0796 | 0.0007 | 0.0799 | 0.0803 | |
| (g/100cc) | 0.0809 | 0.0806 | 0.0003 | 0.0807 | | |

**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 |
|---|---|---|---|
| 0.080 | 0.076 | 0.084 | 0.004 |

**Reported Result**

**0.080** ✓

***Calibration and control data are stored centrally.***

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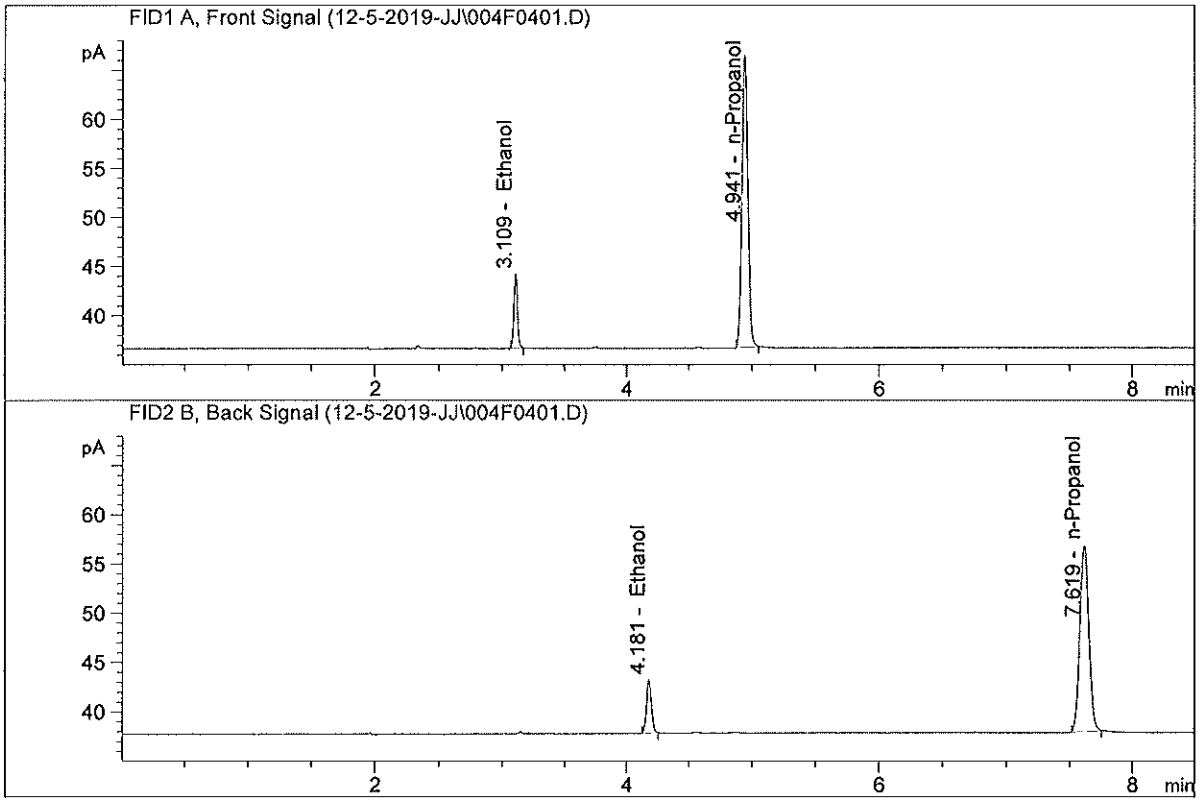
# ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1(1)-A
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 14.81046 | 0.0803 | g/100cc |
| 2. | Ethanol | Column 2: | 14.78474 | 0.0796 | g/100cc |
| 3. | n-Propanol | Column 1: | 97.25905 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.93009 | 1.0000 | g/100cc |

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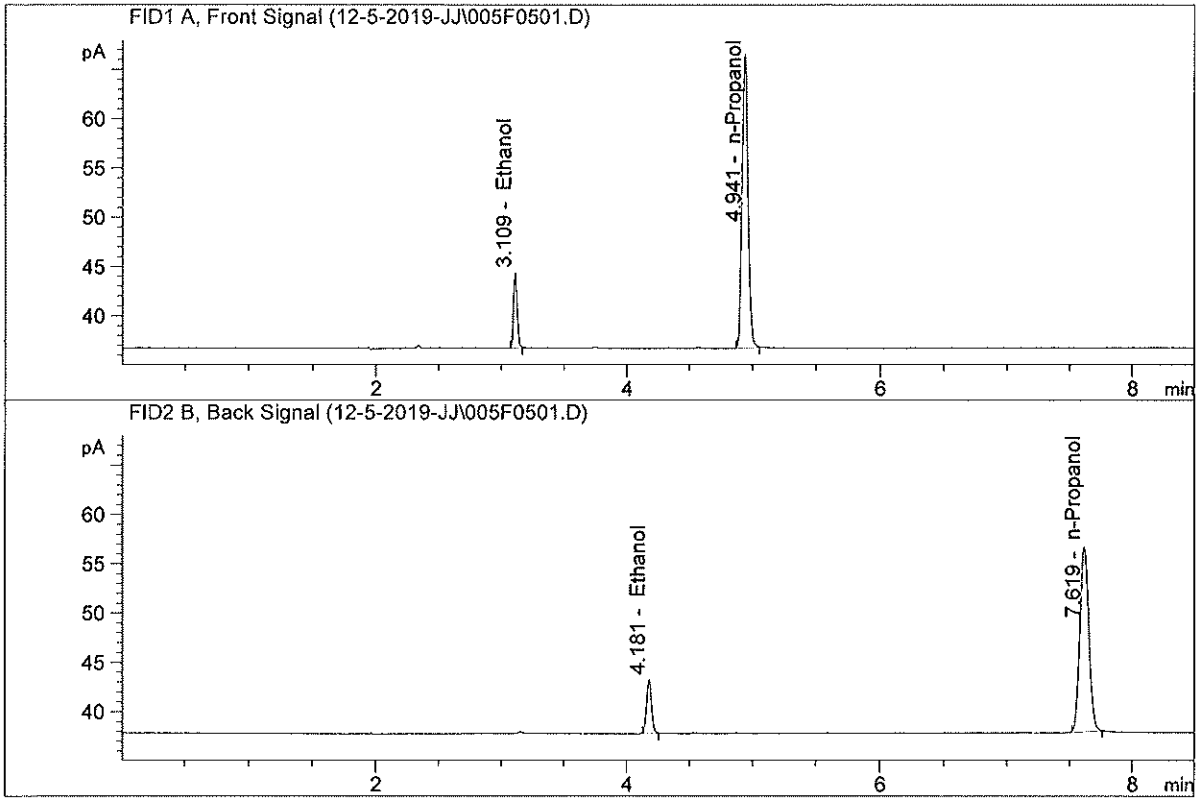
# ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1(1)-B
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 14.94781 | 0.0809 | g/100cc |
| 2. | Ethanol | Column 2: | 14.92608 | 0.0806 | g/100cc |
| 3. | n-Propanol | Column 1: | 97.34953 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.60965 | 1.0000 | g/100cc |

# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: 0.08 FN04171701** **Analysis Date(s): 05 Dec 2019**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.0804 | 0.0799 | 0.0005 | 0.0801 | 0.0806 | |
| (g/100cc) | 0.0810 | 0.0811 | 0.0001 | 0.0810 | | |

**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 |
|---|---|---|---|
| 0.080 | 0.076 | 0.084 | 0.004 |

**Reported Result**

**0.080** ✓

***Calibration and control data are stored centrally.***

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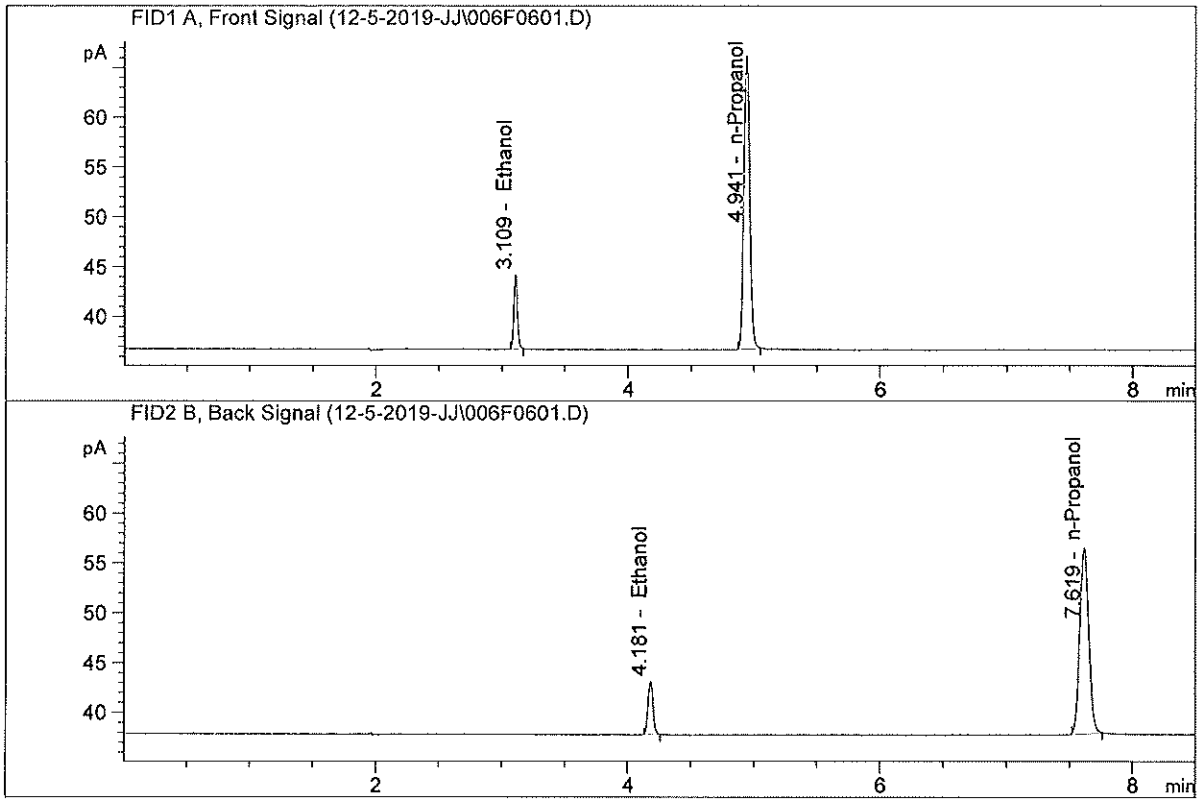
Revision: 1
Issue Date: 01/04/2019
Issuing Authority: Quality Manager

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 14.69433 | 0.0804 | g/100cc |
| 2. | Ethanol | Column 2: | 14.66524 | 0.0799 | g/100cc |
| 3. | n-Propanol | Column 1: | 96.33341 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 93.76625 | 1.0000 | g/100cc |

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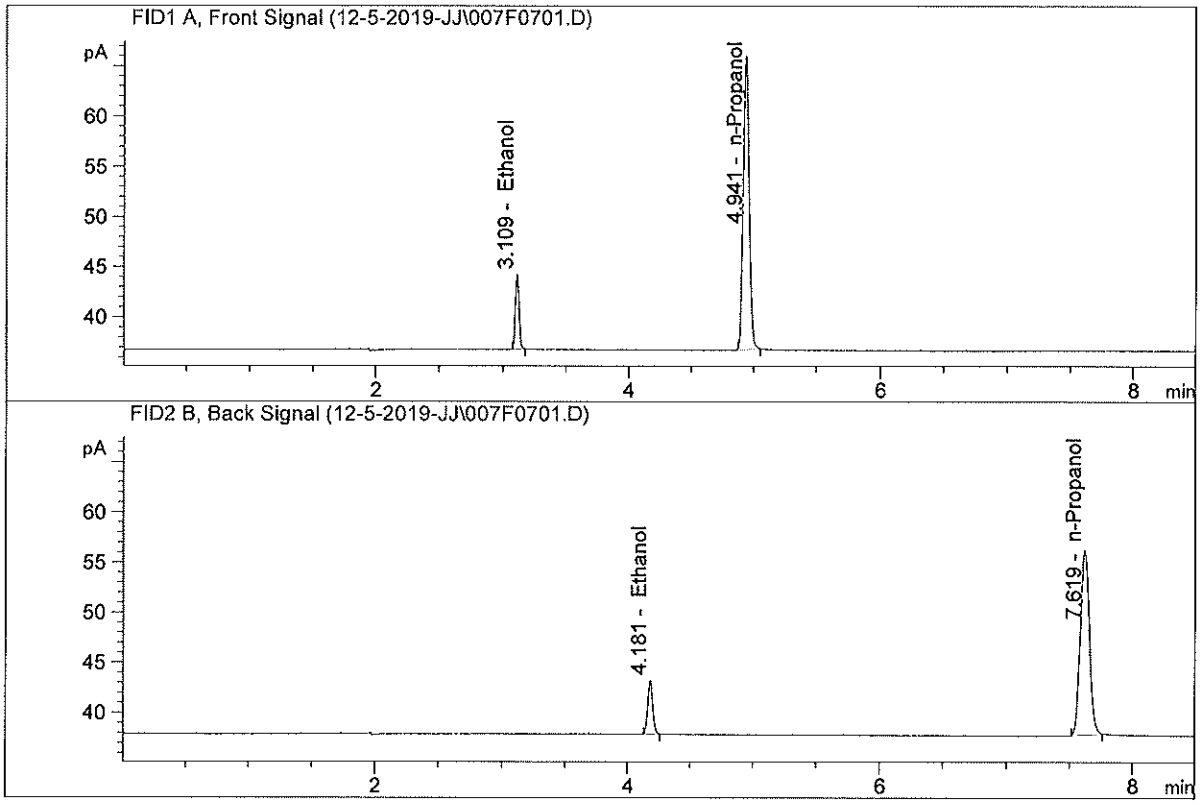
# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 14.69391 | 0.0810 | g/100cc |
| 2. | Ethanol | Column 2: | 14.73884 | 0.0811 | g/100cc |
| 3. | n-Propanol | Column 1: | 95.60921 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 92.86131 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC-2(1)** **Analysis Date(s): 05 Dec 2019**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.2009 | 0.2006 | 0.0003 | 0.2007 | 0.2025 | |
| (g/100cc) | 0.2044 | 0.2044 | 0.0000 | 0.2044 | | |

**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 |
|---|---|---|---|
| 0.202 | 0.191 | 0.213 | 0.011 |

| | Reported Result | |
|---|---|---|
| | 0.202 | |

***Calibration and control data are stored centrally.***

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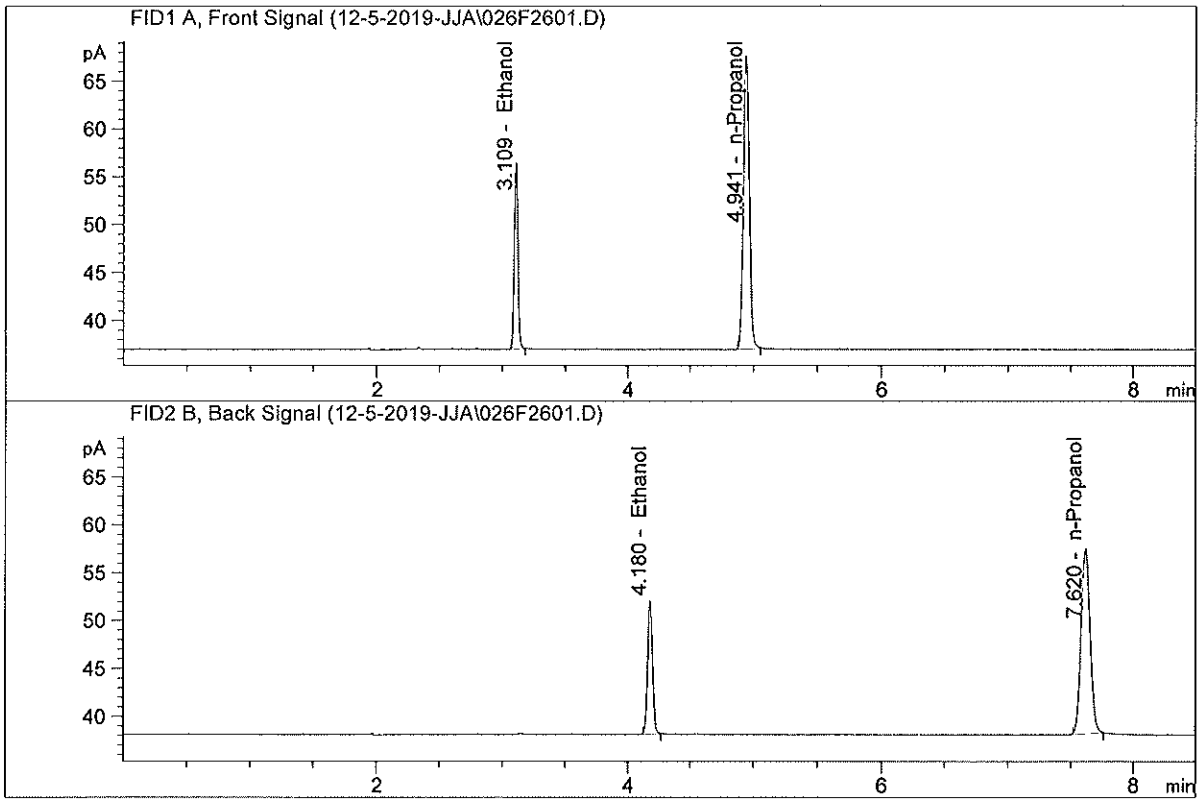
# ISP Forensic Services Blood Alcohol Report

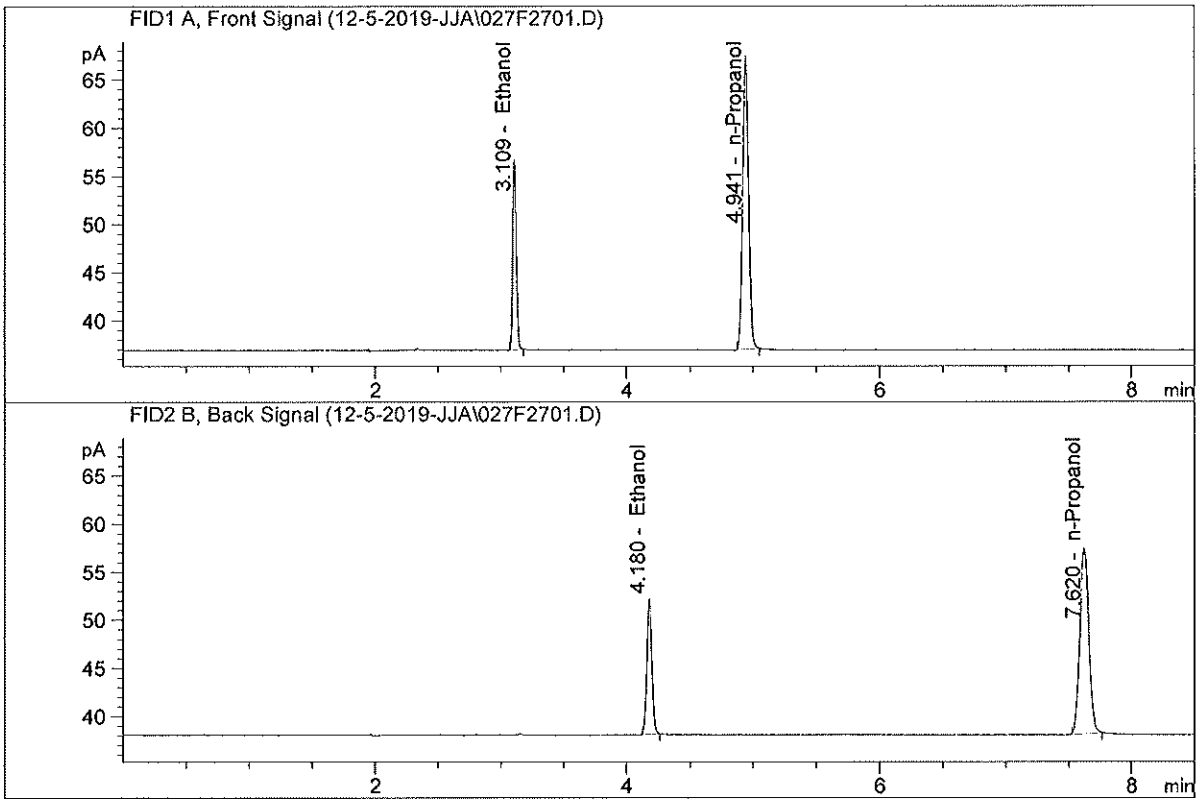
Sample Name : QC-2(1)-A
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 38.24421 | 0.2009 | g/100cc |
| 2. | Ethanol | Column 2: | 38.13163 | 0.2006 | g/100cc |
| 3. | n-Propanol | Column 1: | 100.34389 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 97.10928 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC-2(1)-B
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 38.74524 | 0.2044 | g/100cc |
| 2. | Ethanol | Column 2: | 38.71510 | 0.2044 | g/100cc |
| 3. | n-Propanol | Column 1: | 99.89594 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 96.75040 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.: QC-1(2)** **Analysis Date(s): 05 Dec 2019**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.0827 | 0.0822 | 0.0005 | 0.0824 | 0.0823 | |
| (g/100cc) | 0.0827 | 0.0817 | 0.0010 | 0.0822 | | |

**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 |
|---|---|---|---|
| **0.082** | **0.077** | **0.087** | **0.005** |

| | Reported Result | |
|---|---|---|
| | **0.082** | |

***Calibration and control data are stored centrally.***

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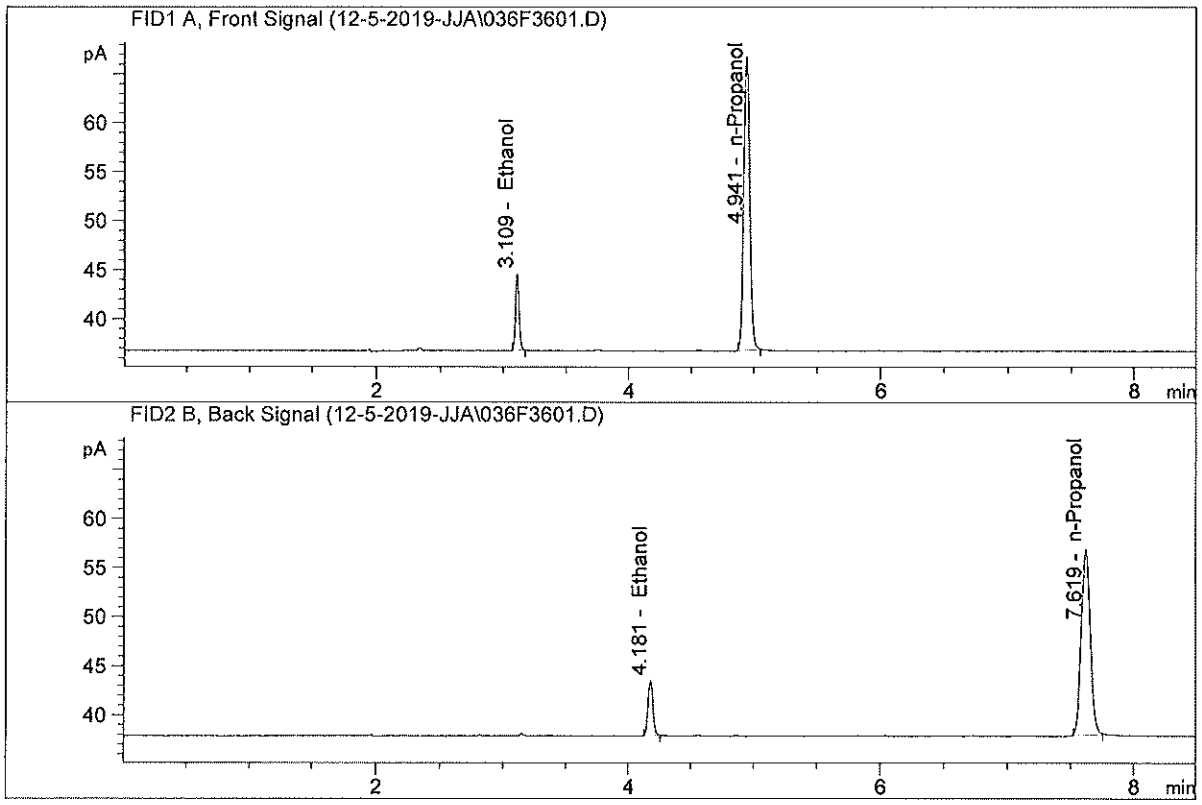
# ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1(2)-A
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005

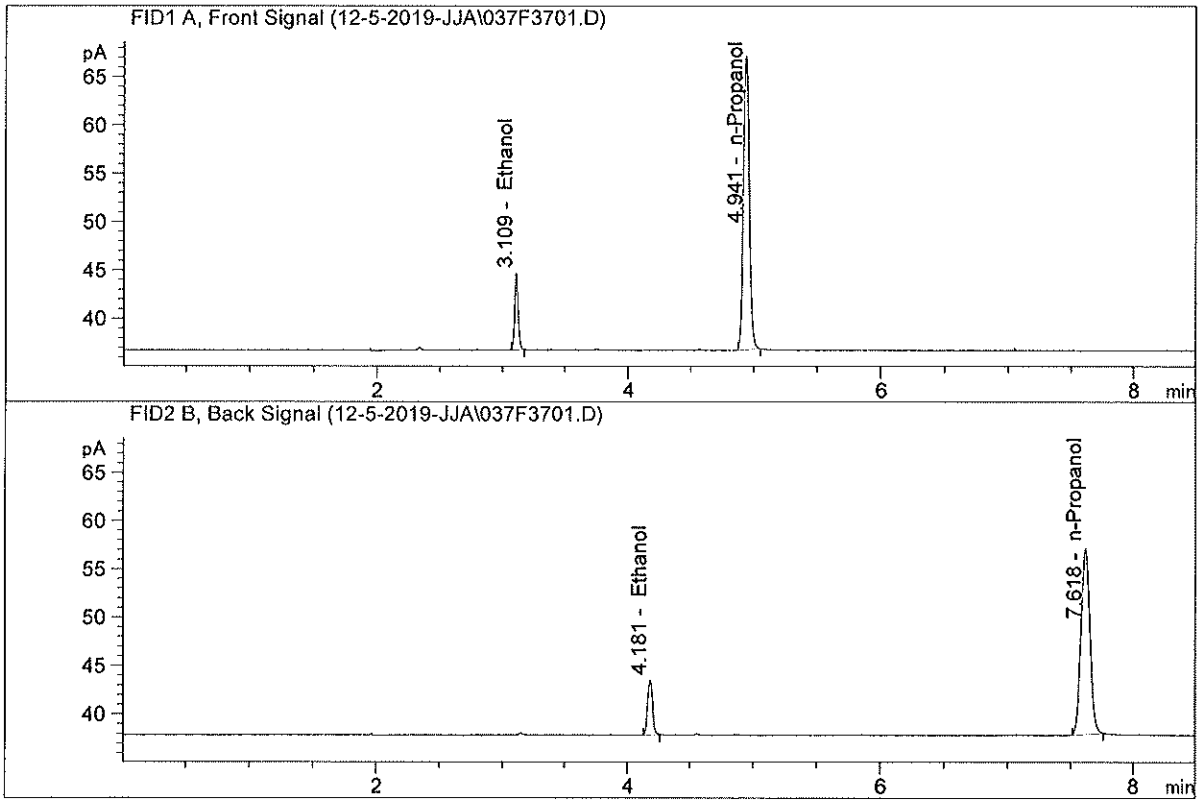



| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 15.43720 | 0.0827 | g/100cc |
| 2. | Ethanol | Column 2: | 15.33383 | 0.0822 | g/100cc |
| 3. | n-Propanol | Column 1: | 98.33455 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 95.25315 | 1.0000 | g/100cc |

99

# ISP Forensic Services Blood Alcohol Report

Sample Name : QC-1(2)-B
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 15.64747 | 0.0827 | g/100cc |
| 2. | Ethanol | Column 2: | 15.46909 | 0.0817 | g/100cc |
| 3. | n-Propanol | Column 1: | 99.67496 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 96.73191 | 1.0000 | g/100cc |

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

**Laboratory No.:** ~~QC-2(2)~~ QC1 12-7-19 **Analysis Date(s): 05 Dec 2019**

| | Column 1 FID A | Column 2 FID B | Column Precision | Mean Value | Over-all Mean | |
|---|---|---|---|---|---|---|
| Sample Results | 0.0821 | 0.0813 | 0.0008 | 0.0817 | 0.0814 | |
| (g/100cc) | 0.0816 | 0.0806 | 0.0010 | 0.0811 | | |

**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 |
|---|---|---|---|
| **0.081** | **0.076** | **0.086** | **0.005** |

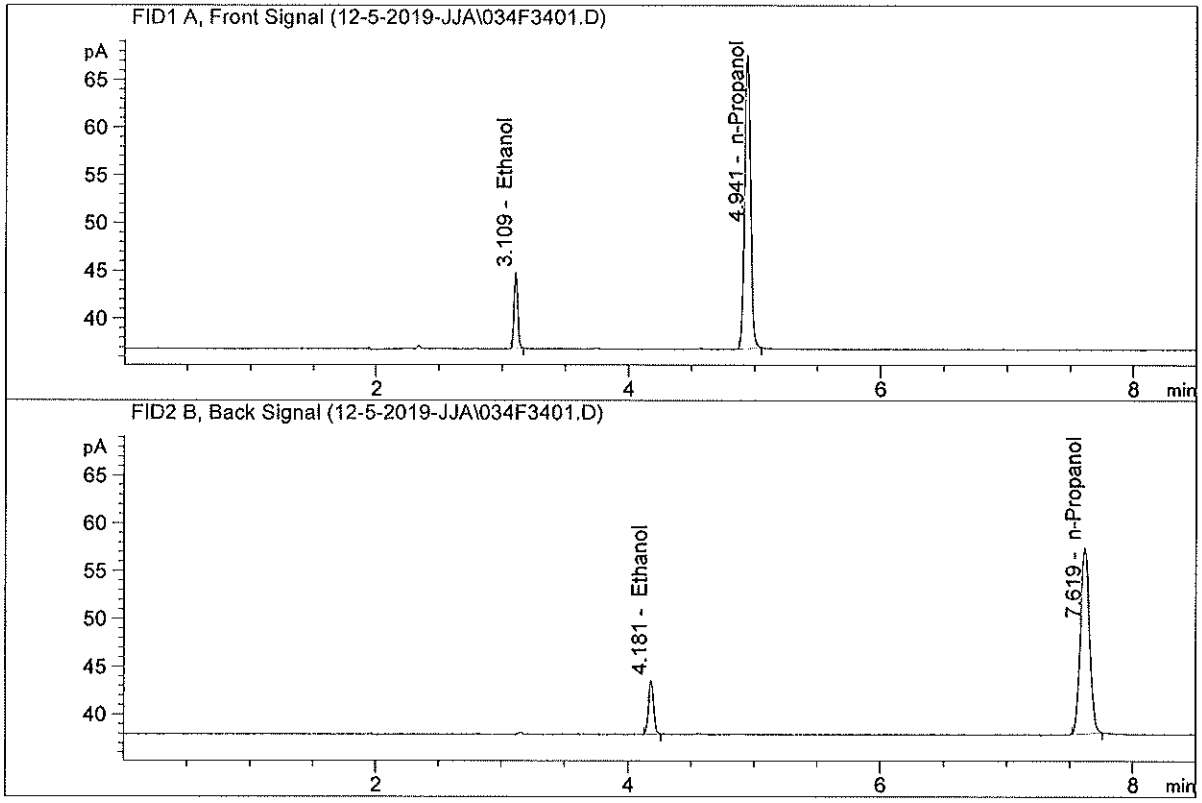
| | Reported Result | |
|---|---|---|
| | **0.081** | |

***Calibration and control data are stored centrally.***

# ISP Forensic Services Blood Alcohol Report

1 99 12-7-19

Sample Name : QC-2(2)-A
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 15.70649 | 0.0821 | g/100cc |
| 2. | Ethanol | Column 2: | 15.54208 | 0.0813 | g/100cc |
| 3. | n-Propanol | Column 1: | 100.85375 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 97.66476 | 1.0000 | g/100cc |

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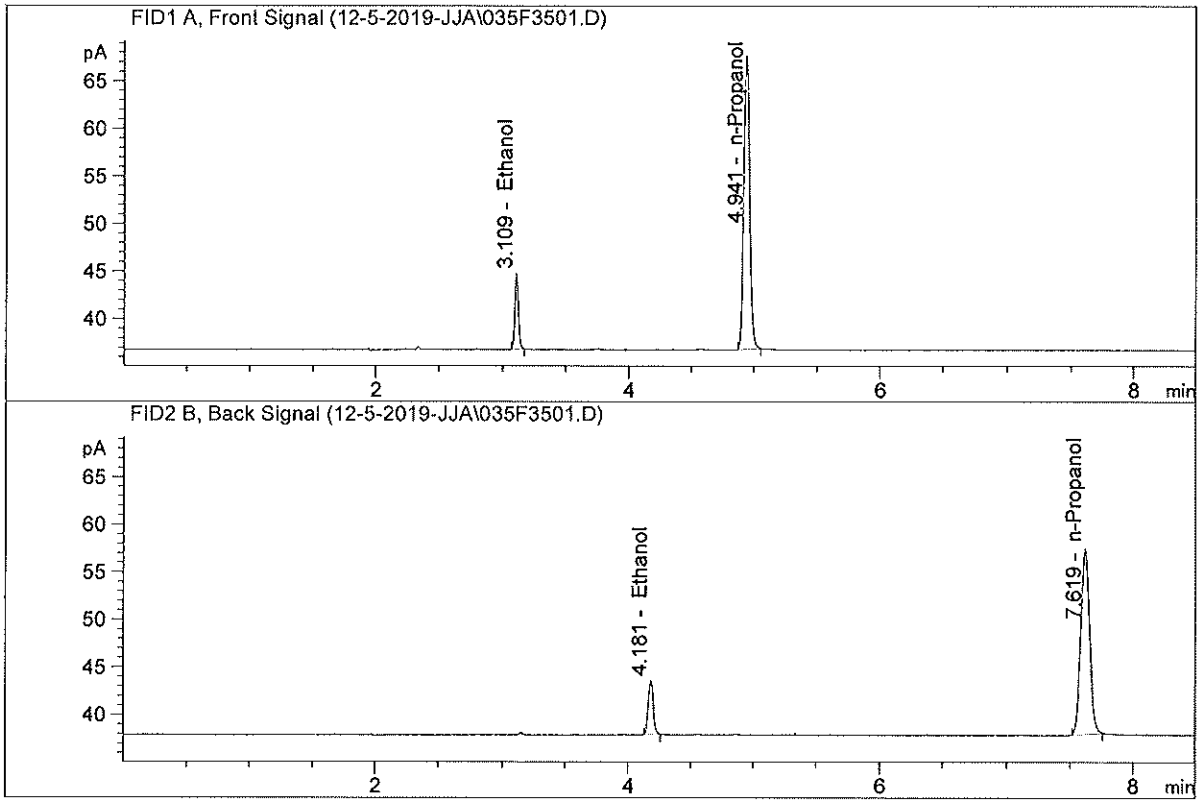
ISP Forensic Services Blood Alcohol Report

1 99 12-7-19

Sample Name : QC-2(2)-B
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 15.66658 | 0.0816 | g/100cc |
| 2. | Ethanol | Column 2: | 15.47164 | 0.0806 | g/100cc |
| 3. | n-Propanol | Column 1: | 101.14286 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 98.06380 | 1.0000 | g/100cc |

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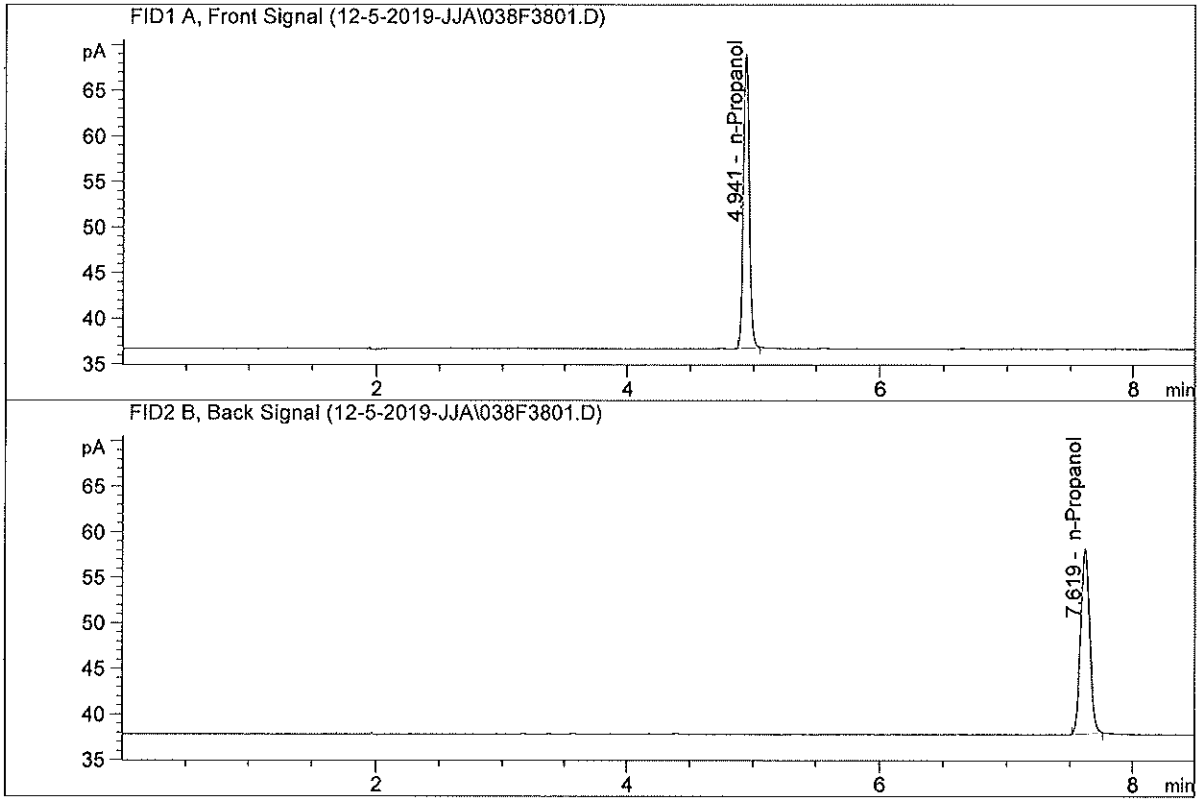
# ISP Forensic Services Blood Alcohol Report

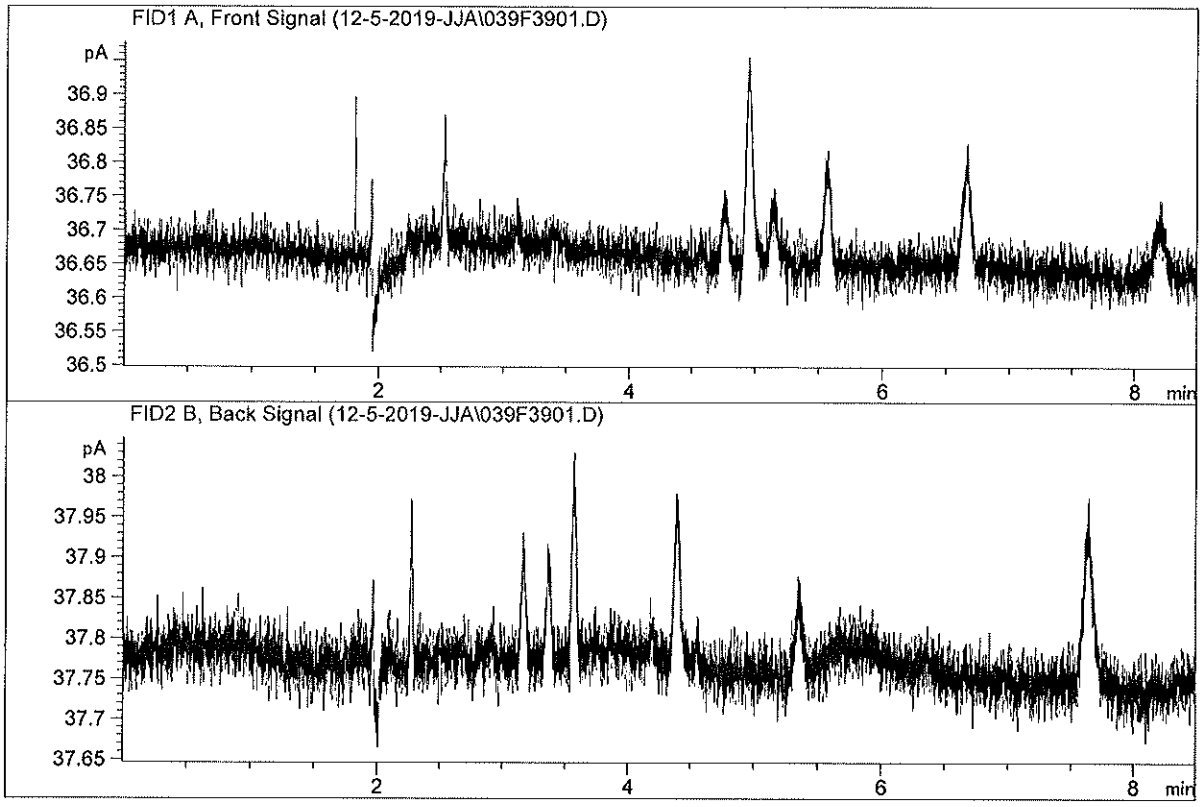
Sample Name : ISTD BLANK-2
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | 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: | 105.38439 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 102.58257 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

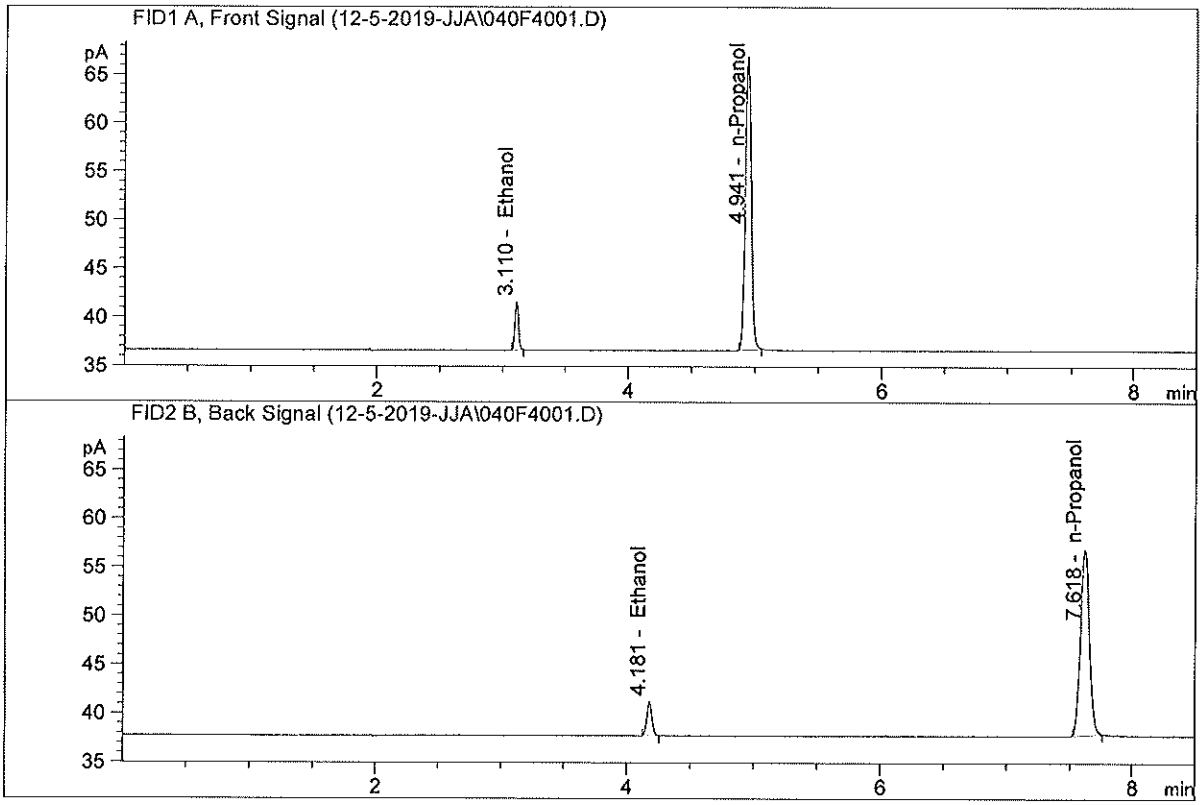
Sample Name : water-2
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | 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

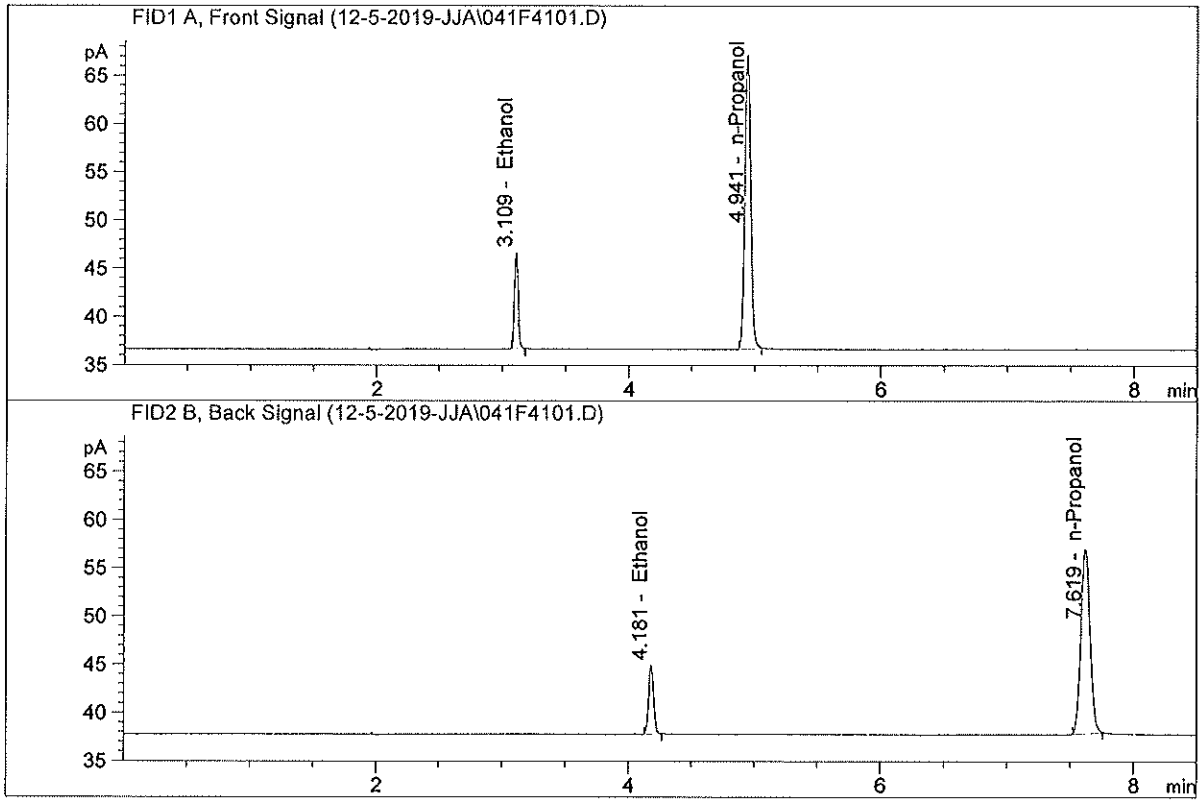
Sample Name : 0.05 DIAGNOSTIC
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 9.85690 | 0.0524 | g/100cc |
| 2. | Ethanol | Column 2: | 9.68586 | 0.0515 | g/100cc |
| 3. | n-Propanol | Column 1: | 99.09427 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 96.04693 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

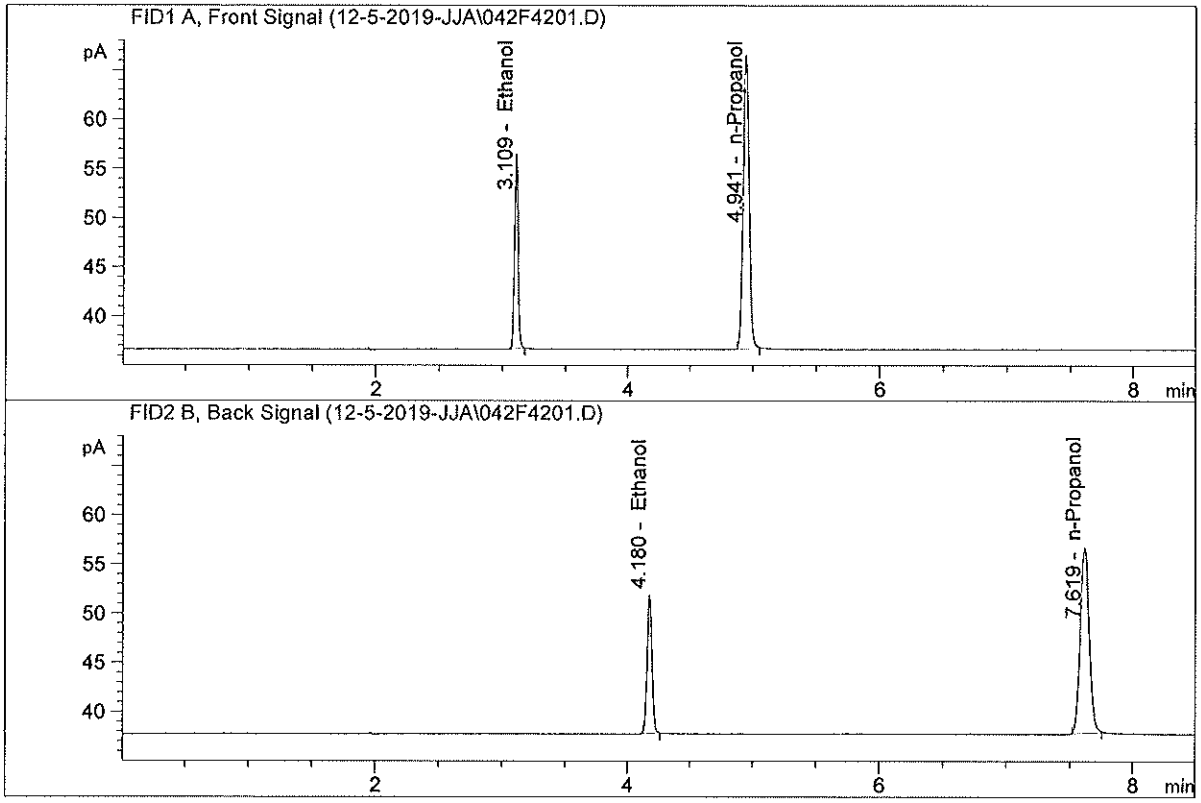
Sample Name : 0.100 DIAGNOSTIC
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 19.79821 | 0.1046 | g/100cc |
| 2. | Ethanol | Column 2: | 19.61580 | 0.1037 | g/100cc |
| 3. | n-Propanol | Column 1: | 99.75466 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 96.60973 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

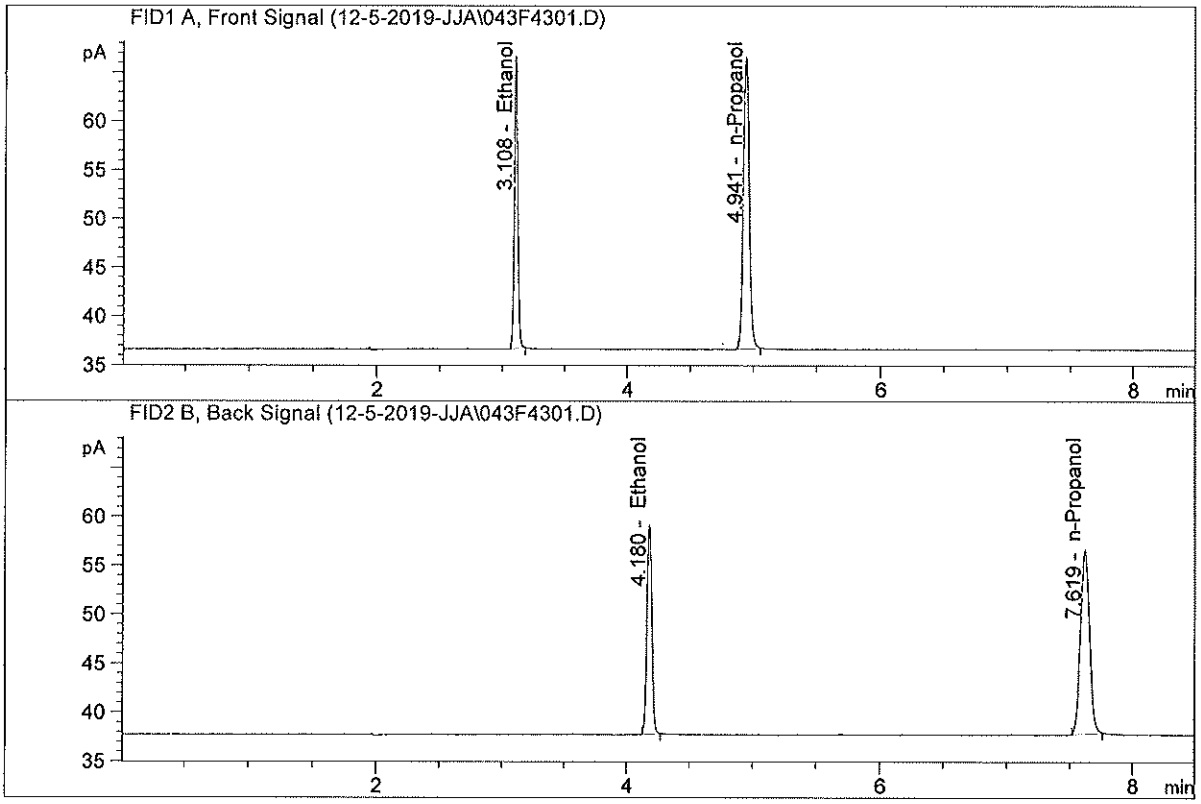
Sample Name : 0.200 DIAGNOSTIC
Laboratory : Coeur d' Alene
Injection Date : Dec 5, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 39.06203 | 0.2101 | g/100cc |
| 2. | Ethanol | Column 2: | 38.82352 | 0.2089 | g/100cc |
| 3. | n-Propanol | Column 1: | 97.98462 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.93333 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

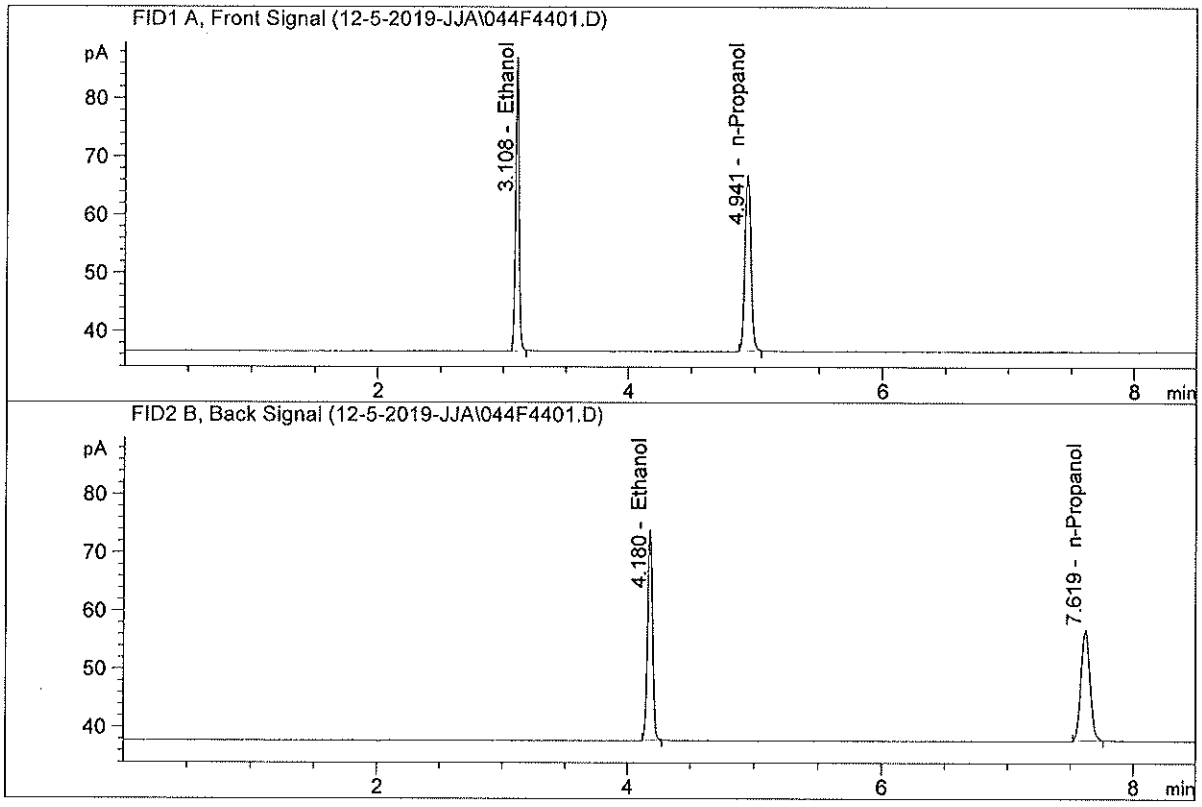
Sample Name : 0.300 DIAGNOSTIC
Laboratory : Coeur d' Alene
Injection Date : Dec 6, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 58.88822 | 0.3160 | g/100cc |
| 2. | Ethanol | Column 2: | 58.71398 | 0.3159 | g/100cc |
| 3. | n-Propanol | Column 1: | 98.21473 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 94.95542 | 1.0000 | g/100cc |

# ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 DIAGNOSTIC
Laboratory : Coeur d' Alene
Injection Date : Dec 6, 2019
Method : ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005




| # | Compound | Column | Area | Amount | Units |
|---|---|---|---|---|---|
| 1. | Ethanol | Column 1: | 98.53806 | 0.5247 | g/100cc |
| 2. | Ethanol | Column 2: | 98.68666 | 0.5274 | g/100cc |
| 3. | n-Propanol | Column 1: | 98.98492 | 1.0000 | g/100cc |
| 4. | n-Propanol | Column 2: | 95.59807 | 1.0000 | g/100cc |