

TO: Eliza Smaltz, Forensic Laboratory Manager

FROM: Allan Kosecki, Blood Alcohol Technical Leader

DATE: 06 May 2020

SUBJECT: Methanol in One Ampoule of Lipomed 0.150 g/dL aqueous control- lot 14082019-C

In blood alcohol run 29Apr20 methanol was detected in headspace vial 31 which contained a Lipomed 0.150 g/dL aqueous control, lot 14082019-C. Methanol was not detected in any of the other vials in the run except the volatile mixture in vial six which is known to contain methanol. The Lipomed controls are purchased in individual one-time use glass snap-top sealed ampoules. There are five ampoules per box. One ampoule of this Lipomed lot had been checked on November 26, 2019 prior to using this lot in casework with no indication of methanol. One vial was also used in each of the seven following blood alcohol runs with no indication of methanol: 05Mar20, 11Mar20, 17Mar20, 24Mar20, 03Apr20, and 15April20.

During run 29Apr20 one ampoule was opened to draw out the one sample that was placed in vial 31. The glass vial was cracked open and a sample pipetted and transferred to a headspace vial which was capped within 30 seconds of opening the ampoule. The ampoule was the only open container in the lab at the time of sample preparation. On April 30, the remaining liquid that was in the cracked open ampoule was transferred directly to a headspace vial using a disposable pipet with no internal standard added. This headspace vial was run on the gas chromatograph and methanol was detected in the chromatograms. This analysis confirms that liquid in the previously sealed ampoule contained methanol. The instrument was not calibrated when analyzing the trouble shooting samples described in this memo since the purpose was detecting methanol, not quantifying ethanol.

There are only two sources of methanol in the toxicology lab: the volatile mixture solution and the bottle of methanol stored in a cabinet that vents into the fume hood. The bottle of methanol is only removed from the storage cabinet when needed to make a new volatiles mixture, typically every few years. The last time the methanol bottle was removed from the cabinet and opened was on July 8, 2019. The bottle of methanol cannot be the source of the methanol in the sample. There is no mechanism for the volatile mixture to contaminate another sample without transfer of each of the mixture's components; therefore, the mixture is not a possible source of the methanol.

Clearly the methanol was inside the one sealed ampoule when received by the laboratory. The lab has fifteen unopened boxes of this lot each containing five ampoules and six ampoules that have been removed from opened boxes. Two of the six ampoules from opened boxes were analyzed on April 30 along with three blank samples. Methanol was not detected in the five samples. One ampoule was randomly selected from each of the previously unopened boxes and analyzed along with two blanks. Methanol was not detected in any of the seventeen samples.

It would be impossible to state that none of the remaining sixty-four ampoules of this lot do not contain methanol without testing each ampoule. In an abundance of caution, the use of Lipomed 0.150 g/dL aqueous control- lot 14082019-C will be discontinued in casework.

# Scottsdale Police Department Crime Lab Volatiles Analysis

|              |                               |                 |                       |
|--------------|-------------------------------|-----------------|-----------------------|
| Sample:      | 14082019-C                    | Vial:           | 31                    |
| Description: | 0.150                         | LIMS ID:        |                       |
| Method:      | ethanol quant.M               | Sequence:       | 29Apr20               |
| Instrument:  | US14173023 CN14160045         | Injection date: | 4/29/2020 11:47:47 AM |
| Data file:   | C:\Chem32\1\Data\29Apr20\31.D | Analyst:        | Canonico <i>EL</i>    |

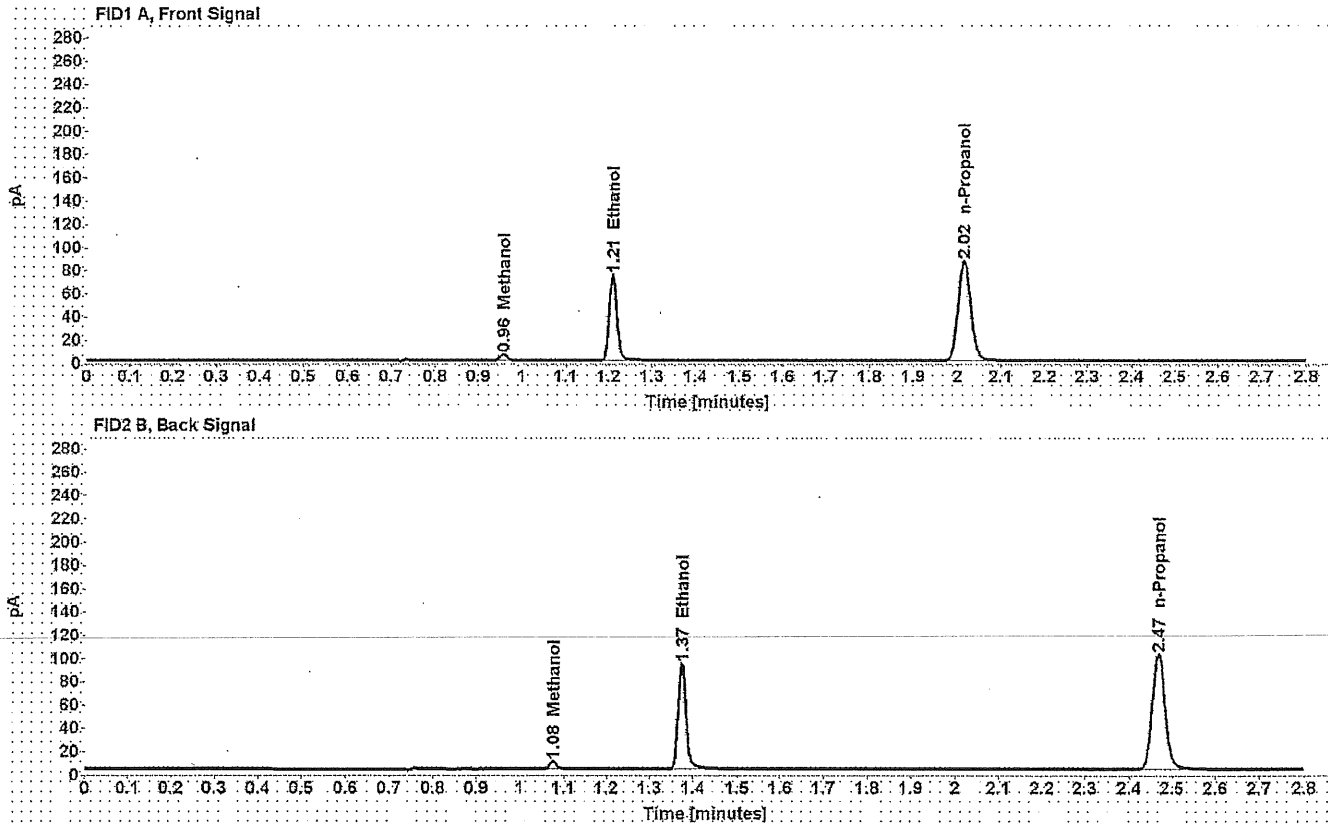


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| Methanol   | -----            | 0.957      | 5.449     |
| >Ethanol   | 0.1504           | 1.209      | 95.353    |
| n-Propanol | -----            | 2.015      | 172.835   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Methanol   | 1.076      | 7.066     |
| Ethanol    | 1.374      | 116.565   |
| n-Propanol | 2.467      | 206.347   |

VOID

Chromatogram from vial 31 in run 29Apr20.

# Scottsdale Police Department Crime Lab Volatiles Analysis

|              |                                  |                 |                       |
|--------------|----------------------------------|-----------------|-----------------------|
| Sample:      | 14082019-C                       | Vial:           | 1                     |
| Description: | 0.150 from seq 29Apr20           | LIMS ID:        |                       |
| Method:      | ethanol quant.M                  | Sequence:       | 30Apr20test           |
| Instrument:  | US14173023 CN14160045            | Injection date: | 4/30/2020 10:41:58 AM |
| Data file:   | C:\Chem32\1\Data\30Apr20test\1.D | Analyst:        | Canonico              |

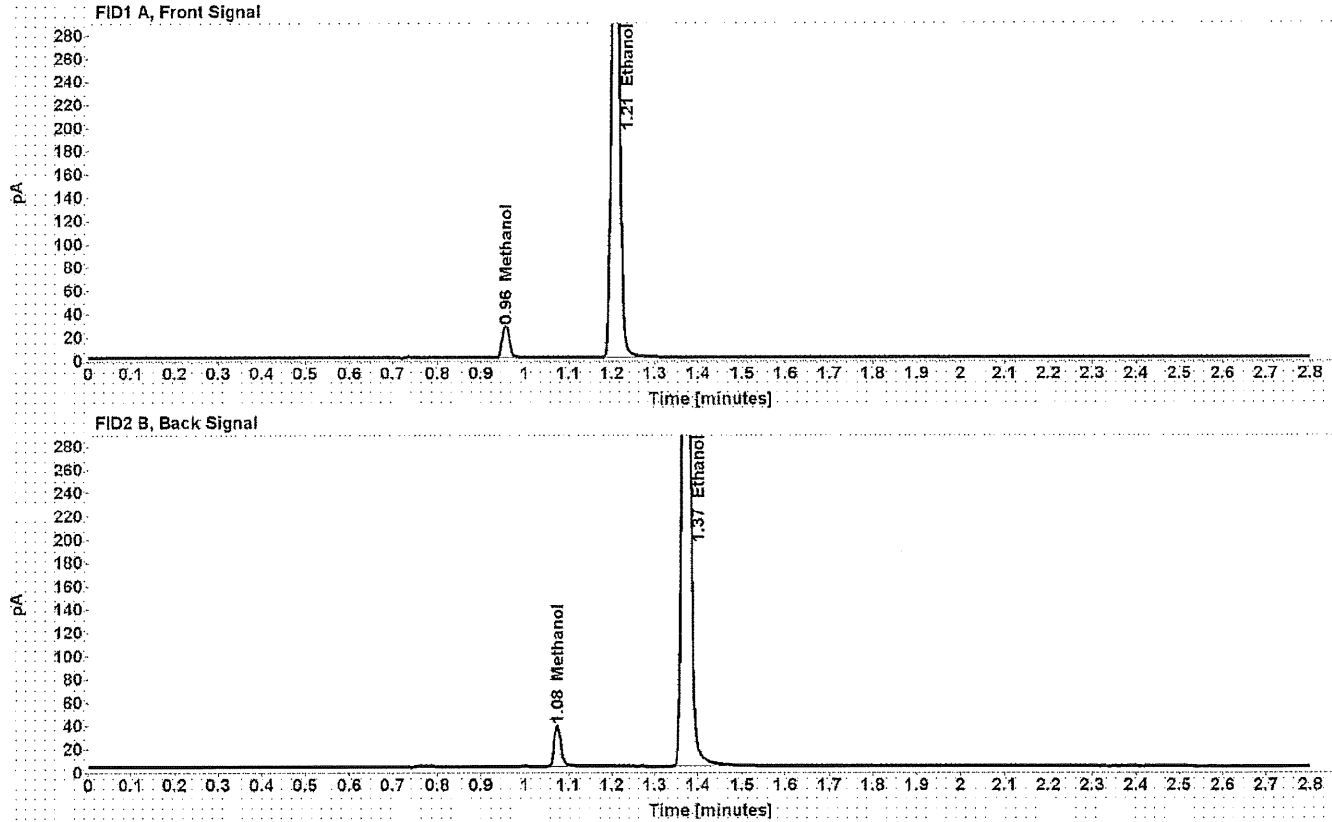


Table 1: FID 1 A (column DB-ALC1)

| Compound | Amount (g/100mL) | Time (min) | Peak Area |
|----------|------------------|------------|-----------|
| Methanol | -----            | 0.956      | 30.857    |
| >Ethanol | 0.0011           | 1.208      | 609.099   |

Table 2: FID 2 B (column DB-ALC2)

| Compound | Time (min) | Peak Area |
|----------|------------|-----------|
| Methanol | 1.075      | 38.807    |
| Ethanol  | 1.373      | 754.802   |

**Chromatogram from remaining liquid in Lipomed ampoule**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|                     |                                    |                        |                       |
|---------------------|------------------------------------|------------------------|-----------------------|
| <b>Sample:</b>      | blank                              | <b>Vial:</b>           | 1                     |
| <b>Description:</b> | Blank                              | <b>LIMS ID:</b>        |                       |
| <b>Method:</b>      | ethanol quant.M                    | <b>Sequence:</b>       | 30Apr20test_2         |
| <b>Instrument:</b>  | US14173023 CN14160045              | <b>Injection date:</b> | 4/30/2020 11:48:52 AM |
| <b>Data file:</b>   | C:\Chem32\1\Data\30Apr20test_2\1.D | <b>Analyst:</b>        | Canonico              |

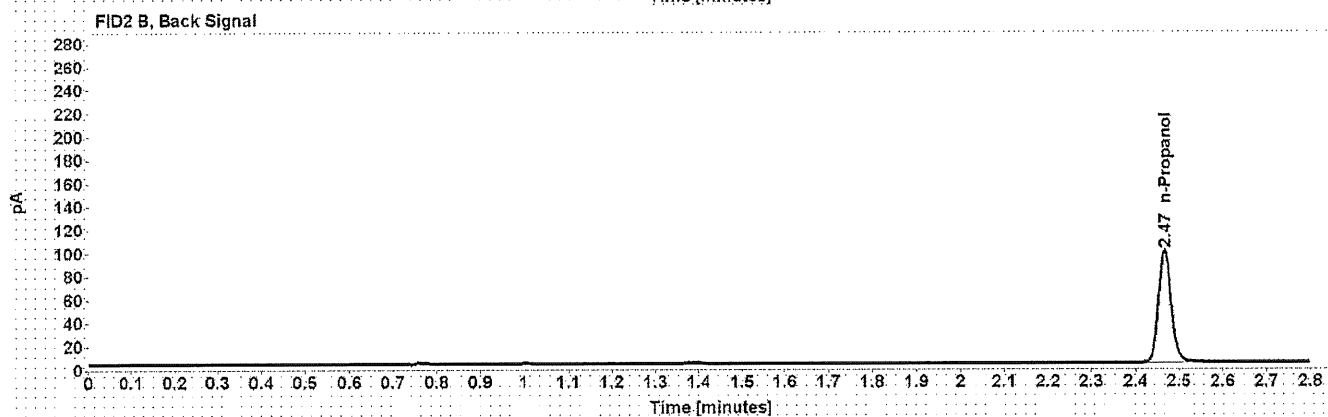
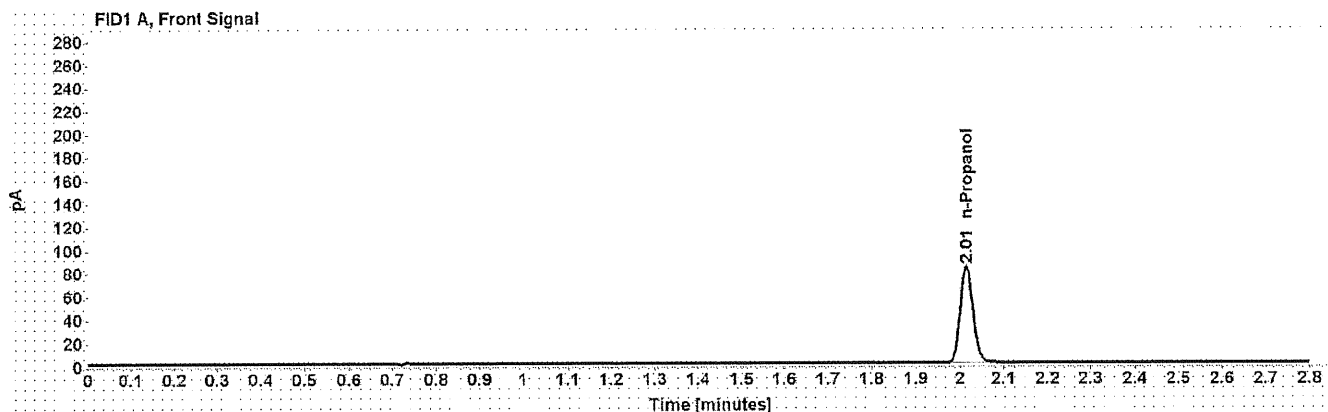


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| n-Propanol | -----            | 2.015      | 166.221   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| n-Propanol | 2.467      | 197.816   |

**Chromatograms from blanks and two ampoules tested from opened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |  |
|---|--|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 2                               |
| <b>Description:</b> 0.150 front row 3                       | <b>LIMS ID:</b>                              |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_2               |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 11:52:51 AM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_2\002F0201.D | <b>Analyst:</b> Canonico                     |

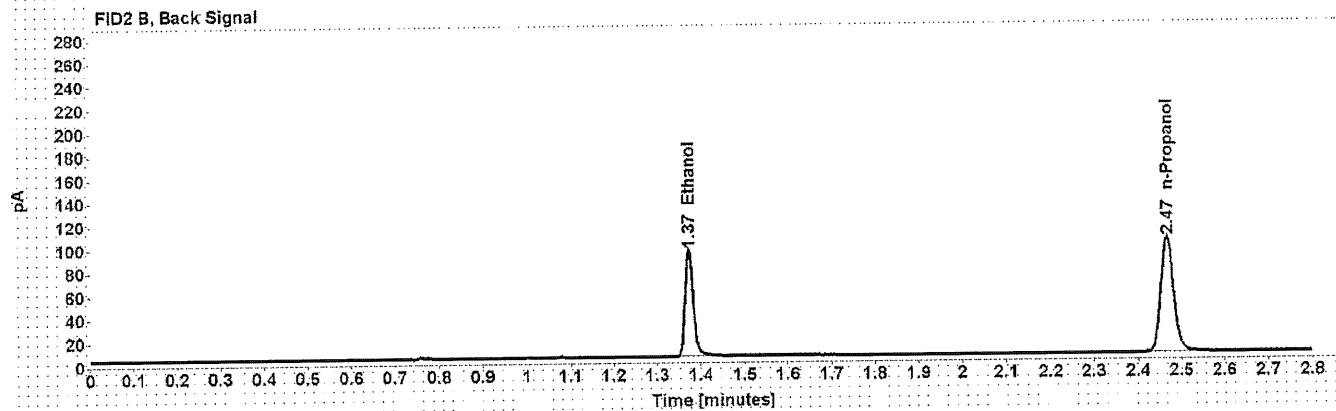
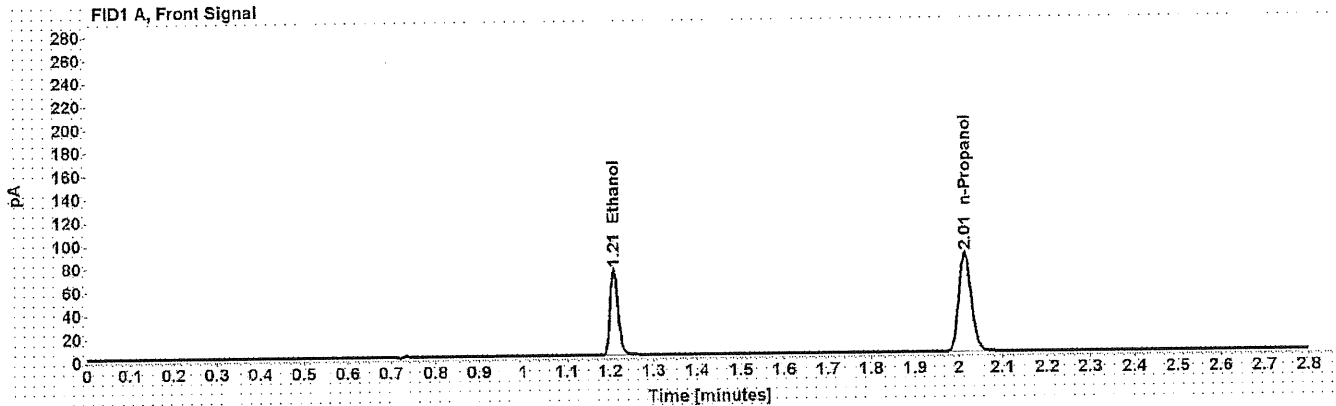


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1602           | 1.209      | 94.864    |
| n-Propanol | -----            | 2.015      | 170.526   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.373      | 116.150   |
| n-Propanol | 2.467      | 203.841   |

**Chromatograms from blanks and two ampoules tested from opened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|              |   |                 |                       |
|--------------|---|-----------------|-----------------------|
| Sample:      | blank                                     | Vial:           | 3                     |
| Description: | Blank                                     | LIMS ID:        |                       |
| Method:      | ethanol quant.M                           | Sequence:       | 30Apr20test_2         |
| Instrument:  | US14173023 CN14160045                     | Injection date: | 4/30/2020 11:56:52 AM |
| Data file:   | C:\Chem32\1\Data\30Apr20test_2\003F0301.D | Analyst:        | Canonico              |

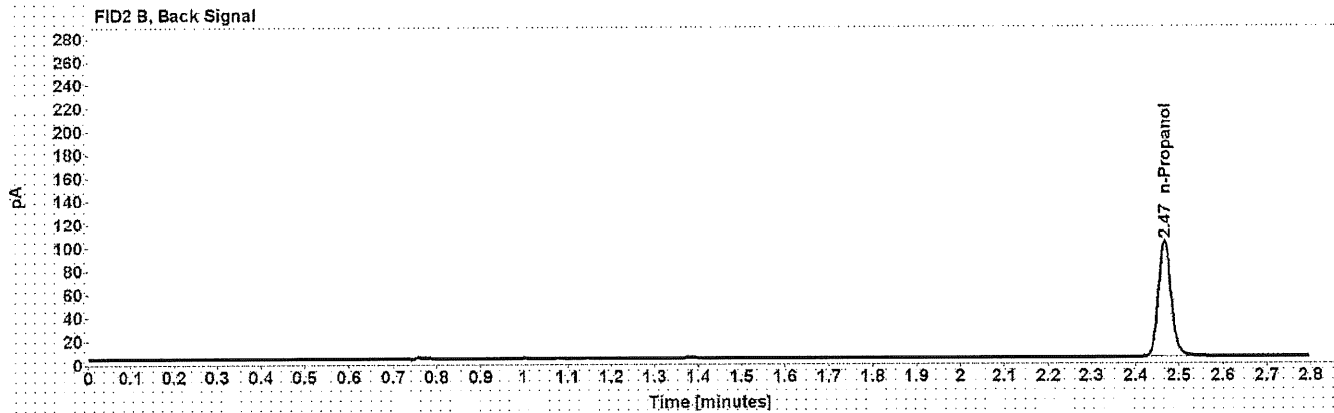
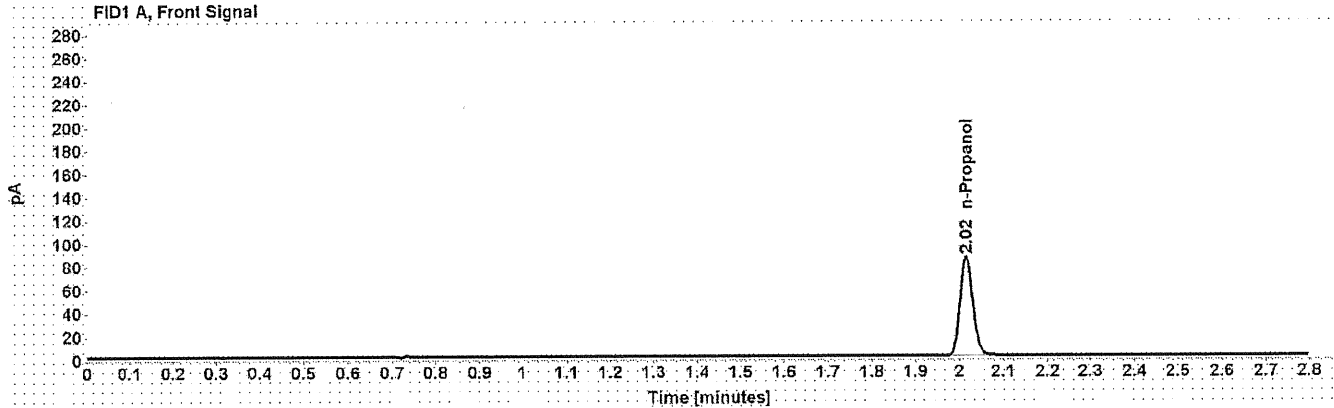


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| n-Propanol | -----            | 2.015      | 170.945   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| n-Propanol | 2.467      | 204.450   |

**Chromatograms from blanks and two ampoules tested from opened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |  |
|---|--|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 4                               |
| <b>Description:</b> 0.150 back row 5                        | <b>LIMS ID:</b>                              |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_2               |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 12:00:52 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_2\004F0401.D | <b>Analyst:</b> Canonico                     |

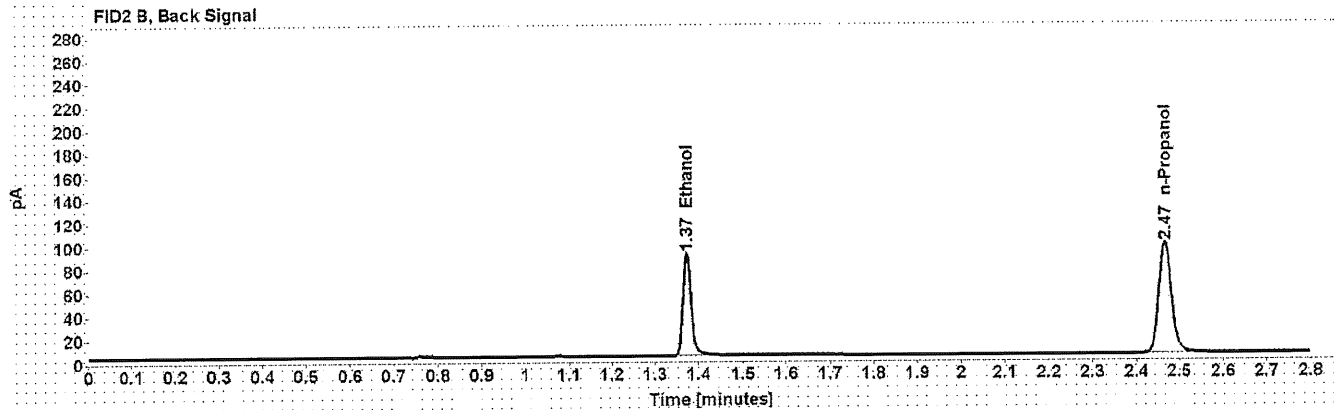
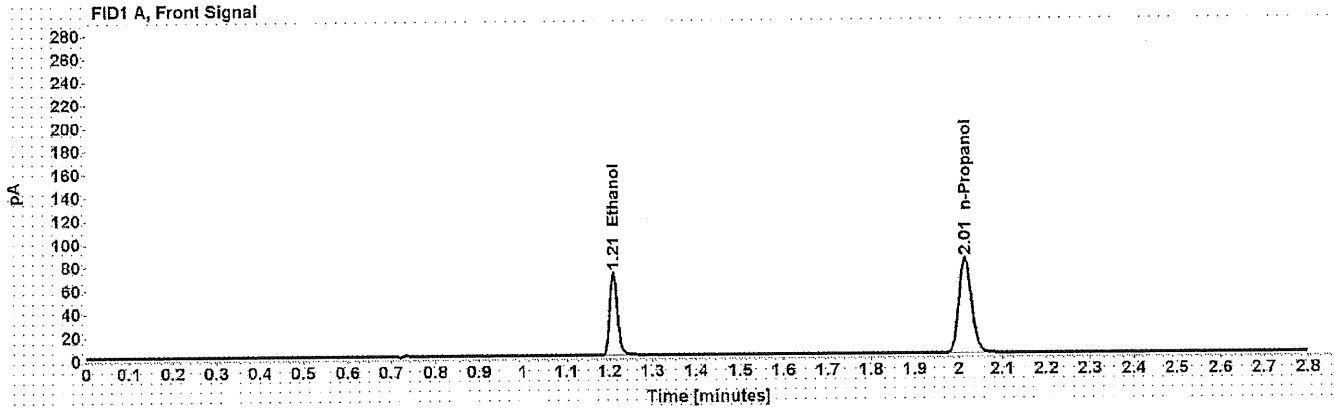


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1607           | 1.209      | 91.449    |
| n-Propanol | -----            | 2.015      | 163.897   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.373      | 111.435   |
| n-Propanol | 2.467      | 196.032   |

**Chromatograms from blanks and two ampoules tested from opened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |  |
|---|--|
| <b>Sample:</b> blank  | <b>Vial:</b> 5                               |
| <b>Description:</b> Blank                                   | <b>LIMS ID:</b>                              |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_2               |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 12:04:52 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_2\005F0501.D | <b>Analyst:</b> Canonico                     |

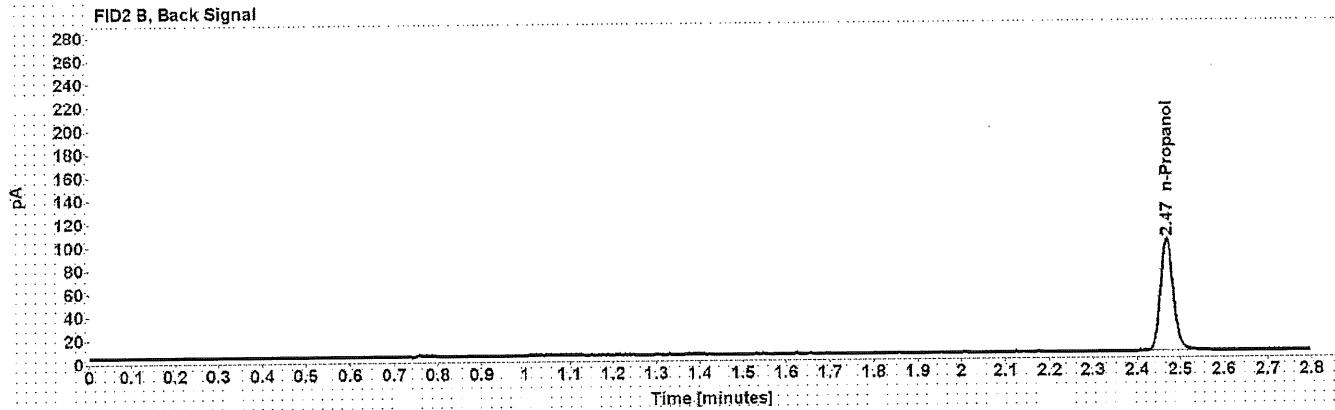
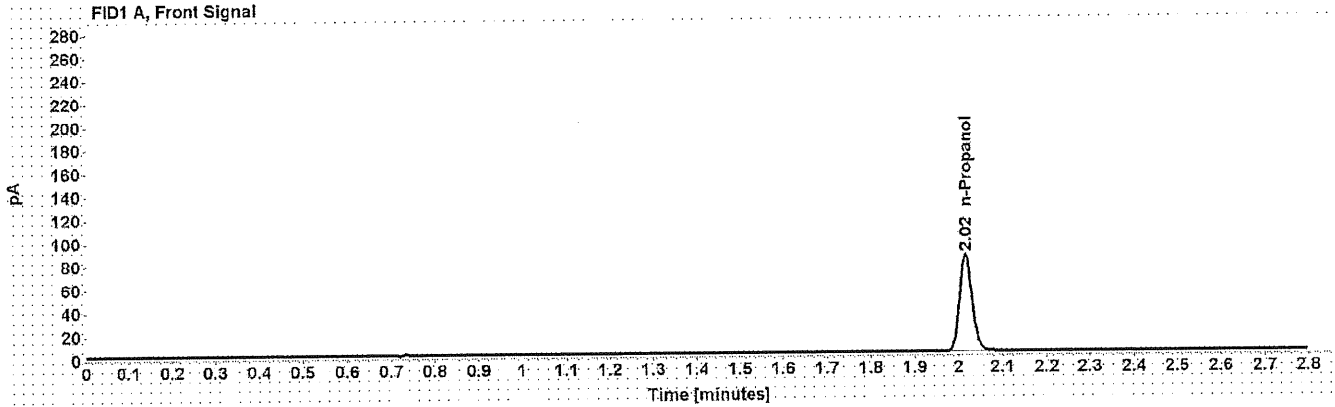


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| n-Propanol | -----            | 2.016      | 167.110   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| n-Propanol | 2.469      | 199.523   |

**Chromatograms from blanks and two ampoules tested from opened boxes**



# Scottsdale Police Department Crime Lab Volatiles Analysis

|  |   |
|--|---|
| <b>Sample:</b> blank                                 | <b>Vial:</b> 1                              |
| <b>Description:</b> Blank                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                       | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045             | <b>Injection date:</b> 4/30/2020 2:25:17 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\1.D | <b>Analyst:</b> LAbbott                     |

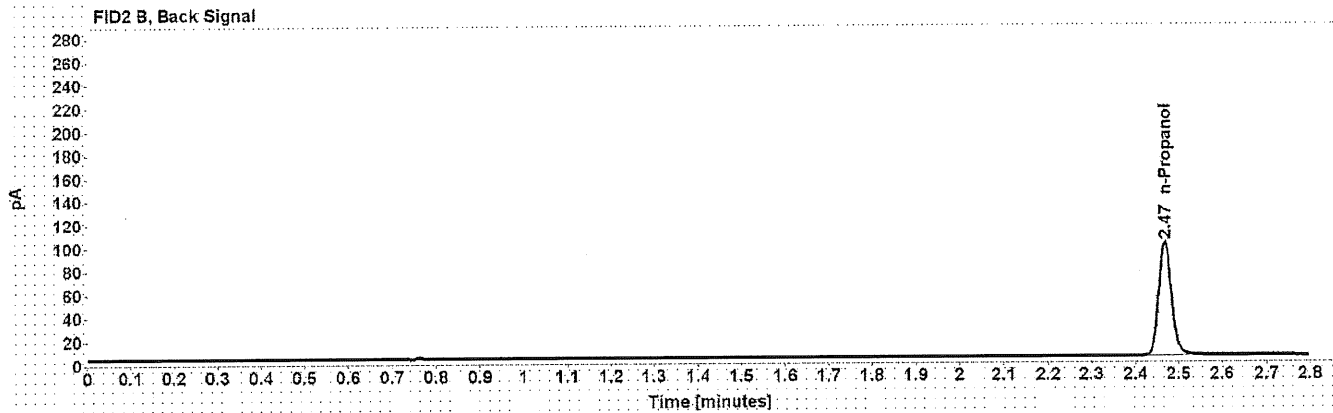
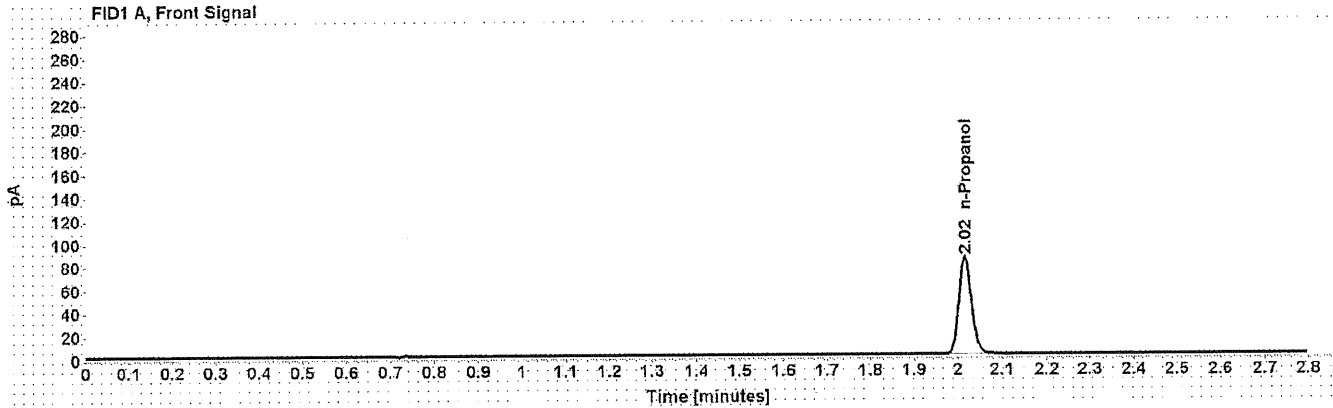


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| n-Propanol | -----            | 2.016      | 168.503   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| n-Propanol | 2.468      | 200.336   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 2                              |
| <b>Description:</b> 0.150 Box 1                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:29:16 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\002F0201.D | <b>Analyst:</b> LAbbott                     |

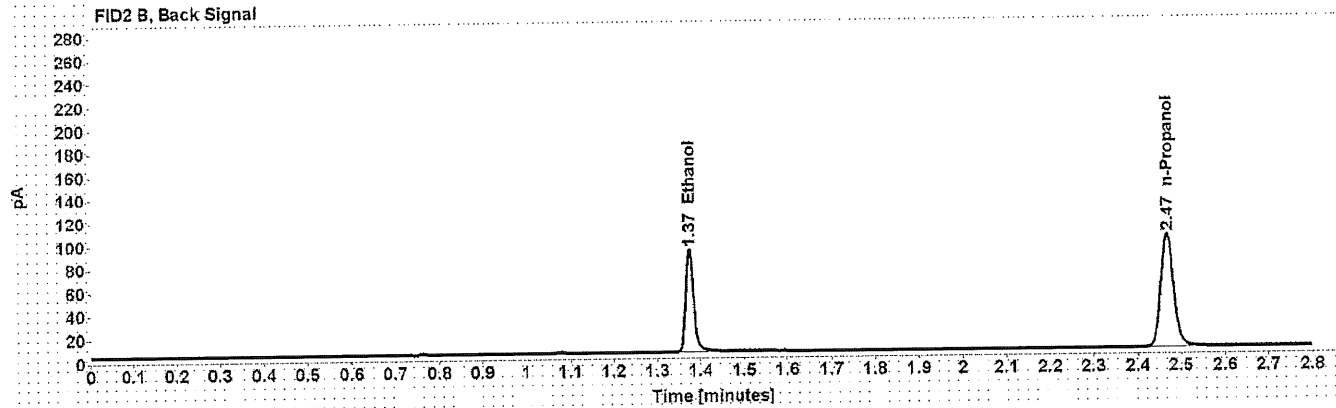
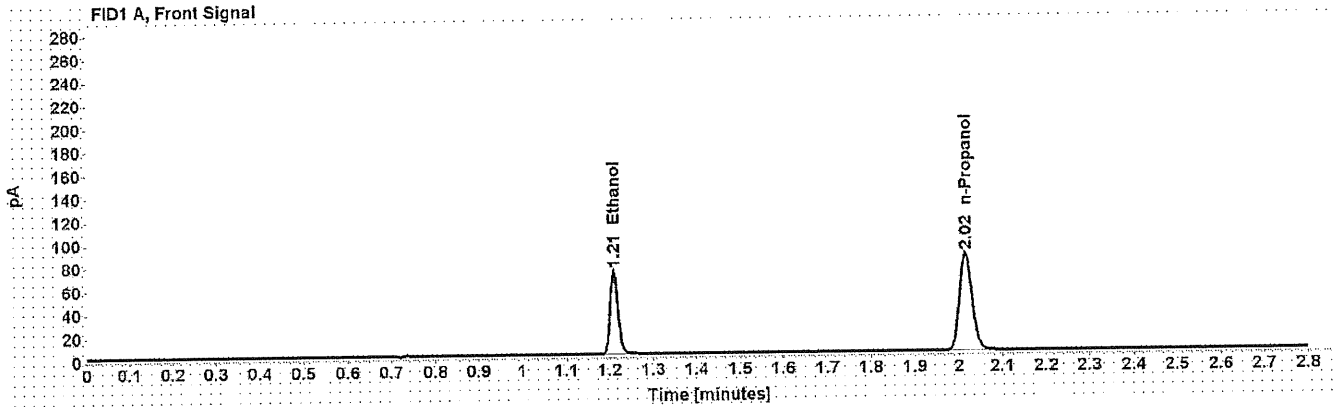


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1577           | 1.210      | 92.103    |
| n-Propanol | -----            | 2.016      | 168.205   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.375      | 112.655   |
| n-Propanol | 2.468      | 201.047   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 3                              |
| <b>Description:</b> 0.150 Box 2                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:33:17 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\003F0301.D | <b>Analyst:</b> LAbbott <i>JA</i>           |

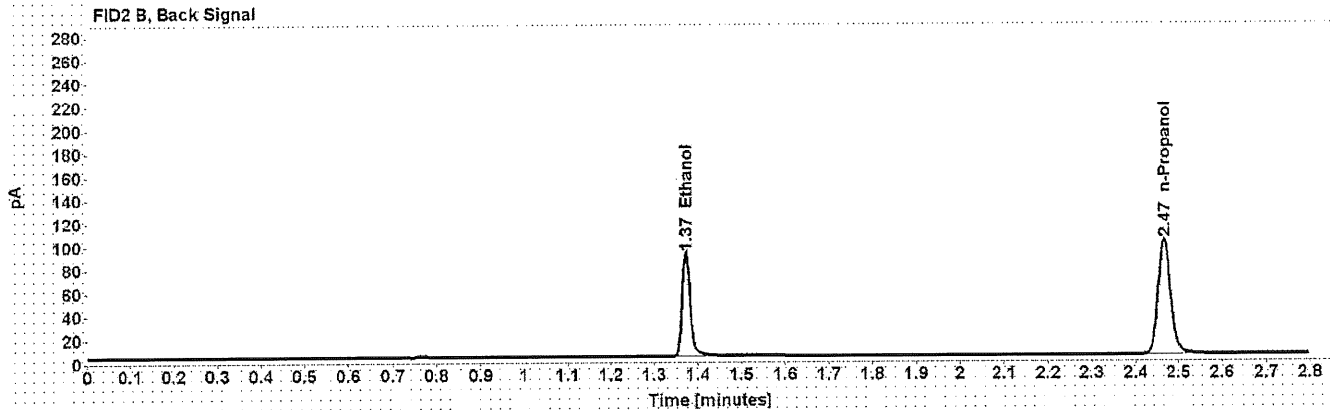
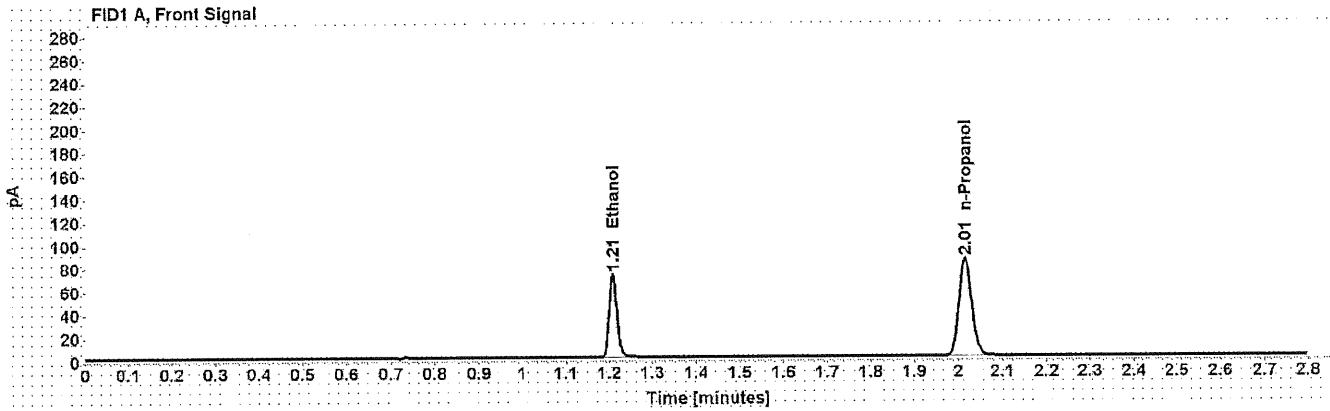


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1566           | 1.209      | 92.248    |
| n-Propanol | -----            | 2.015      | 169.742   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.373      | 113.298   |
| n-Propanol | 2.467      | 203.218   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 4                              |
| <b>Description:</b> 0.150 Box 3                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:37:17 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\004F0401.D | <b>Analyst:</b> LAbbott                     |

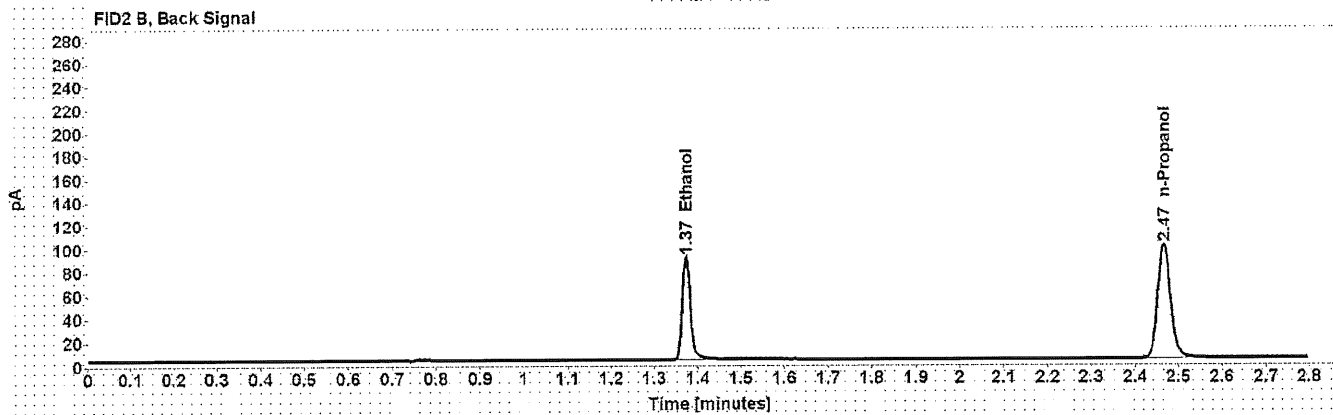
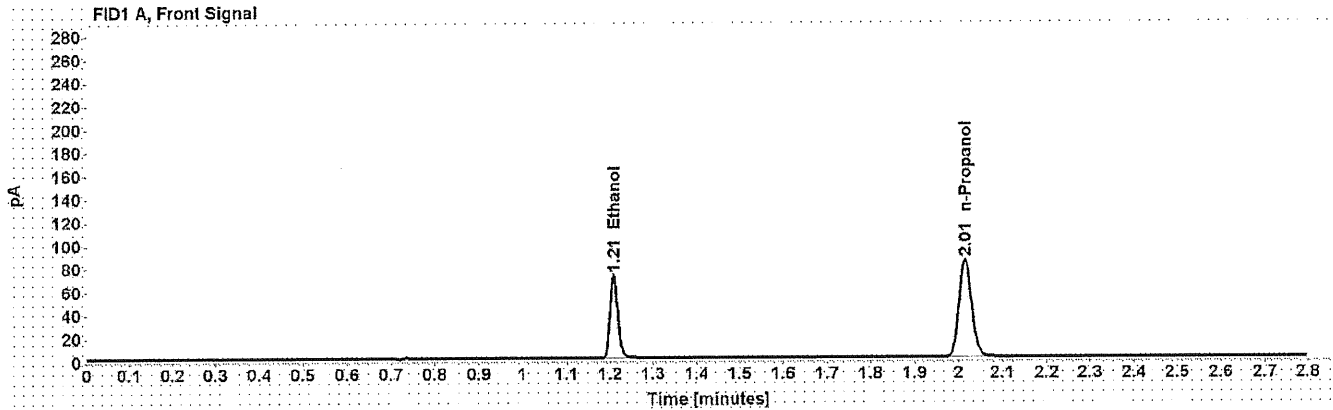


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1565              | 1.209         | 91.570       |
| n-Propanol | -----               | 2.015         | 168.552      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.373         | 112.169      |
| n-Propanol | 2.467         | 201.755      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 5                              |
| <b>Description:</b> 0.150 Box 4                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:41:16 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\005F0501.D | <b>Analyst:</b> LAbbott <i>LA</i>           |

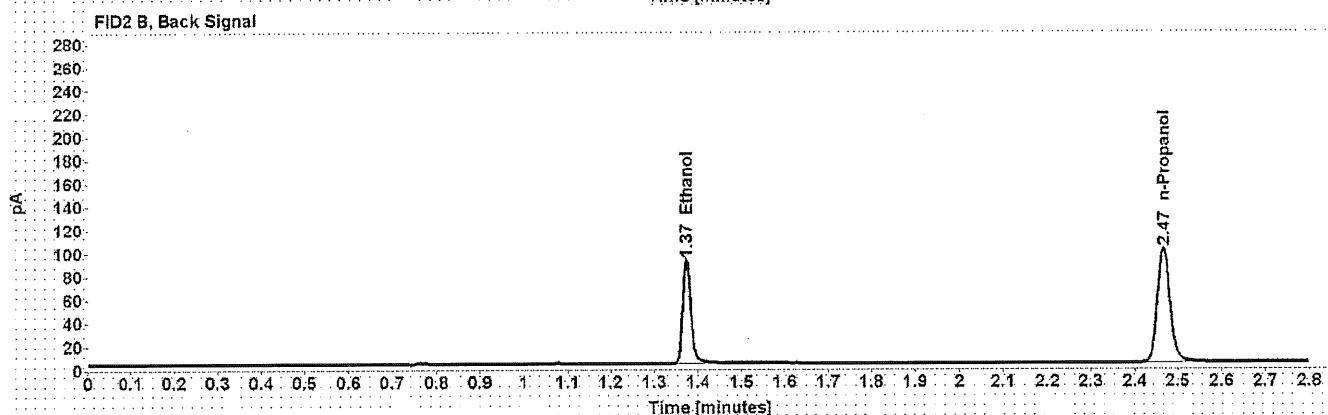
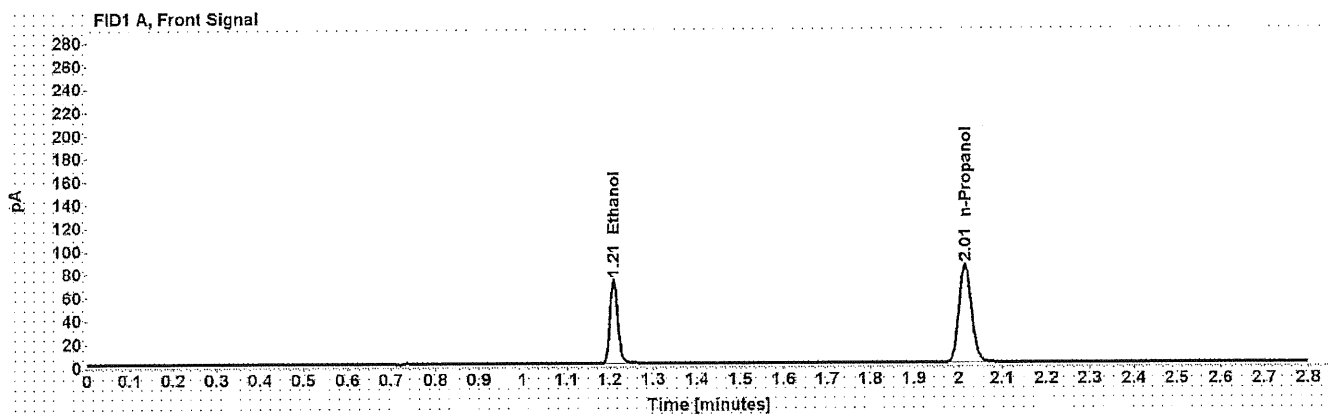


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1577           | 1.209      | 92.750    |
| n-Propanol | -----            | 2.015      | 169.385   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.373      | 113.346   |
| n-Propanol | 2.467      | 202.739   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 6                              |
| <b>Description:</b> 0.150 Box 5                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:45:17 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\006F0601.D | <b>Analyst:</b> LAbbott                     |

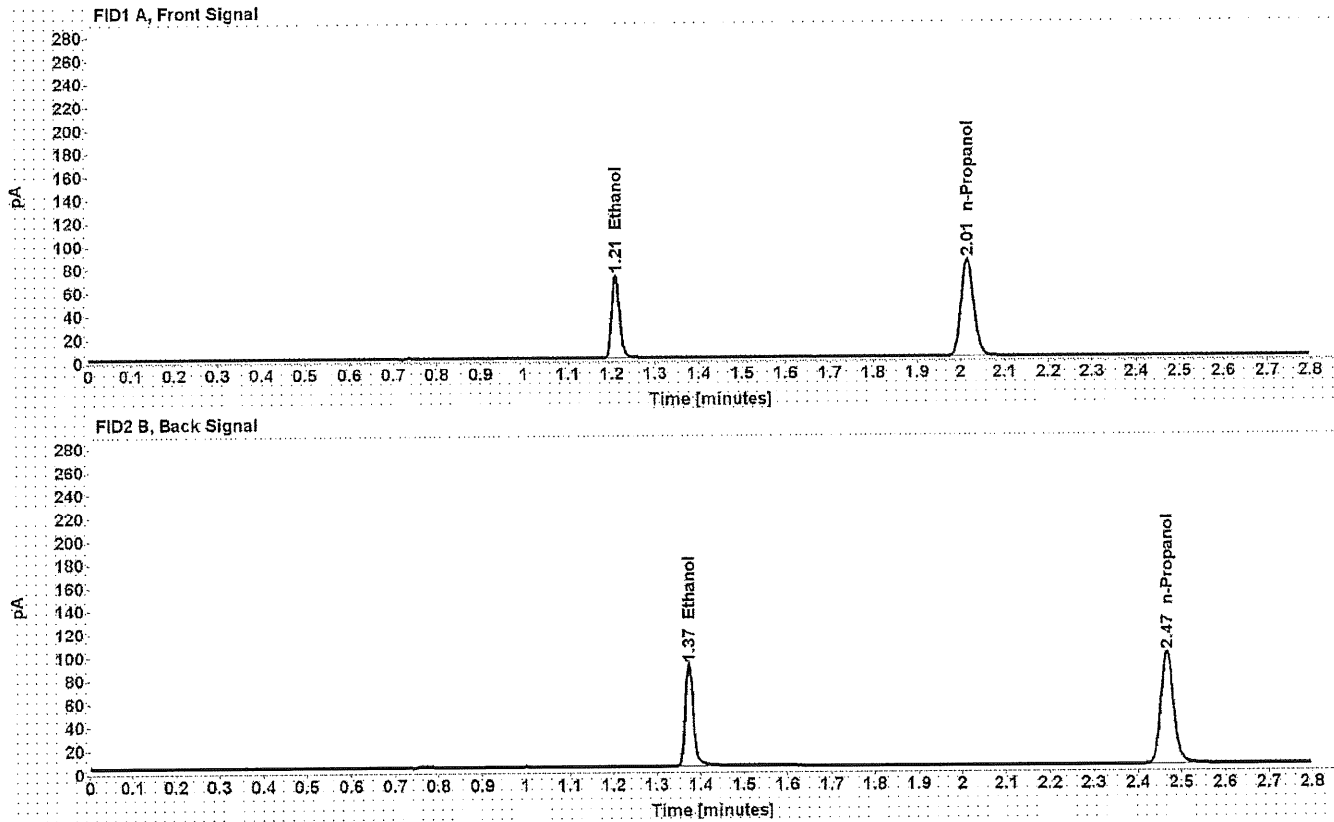


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1569              | 1.209         | 91.263       |
| n-Propanol | -----               | 2.015         | 167.554      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.373         | 111.743      |
| n-Propanol | 2.467         | 200.272      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 7                              |
| <b>Description:</b> 0.150 Box 6                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:49:32 PM |
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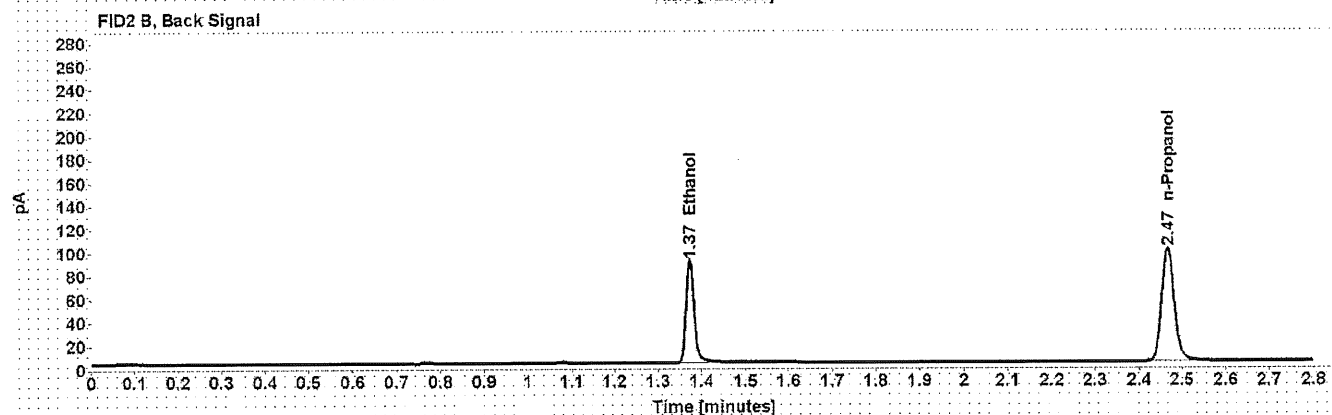
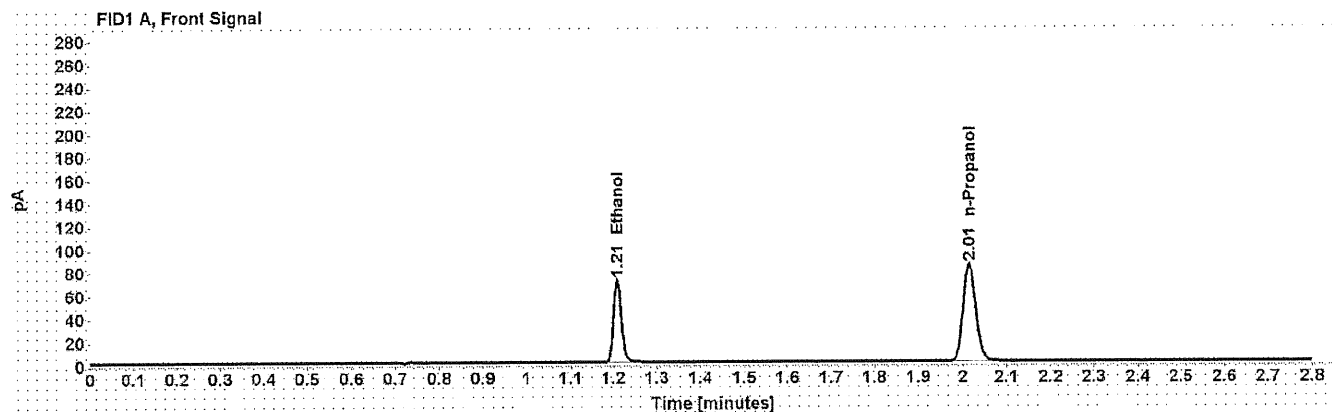


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1568           | 1.209      | 91.554    |
| n-Propanol | -----            | 2.015      | 168.212   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.373      | 111.970   |
| n-Propanol | 2.467      | 201.110   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 8                              |
| <b>Description:</b> 0.150 Box 7                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:53:32 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\008F0801.D | <b>Analyst:</b> LAbbott                     |

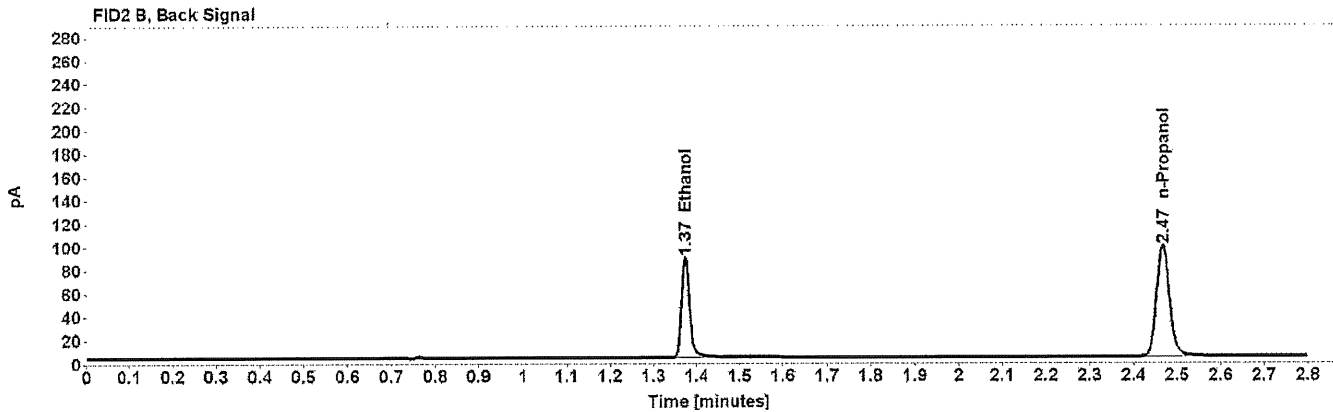
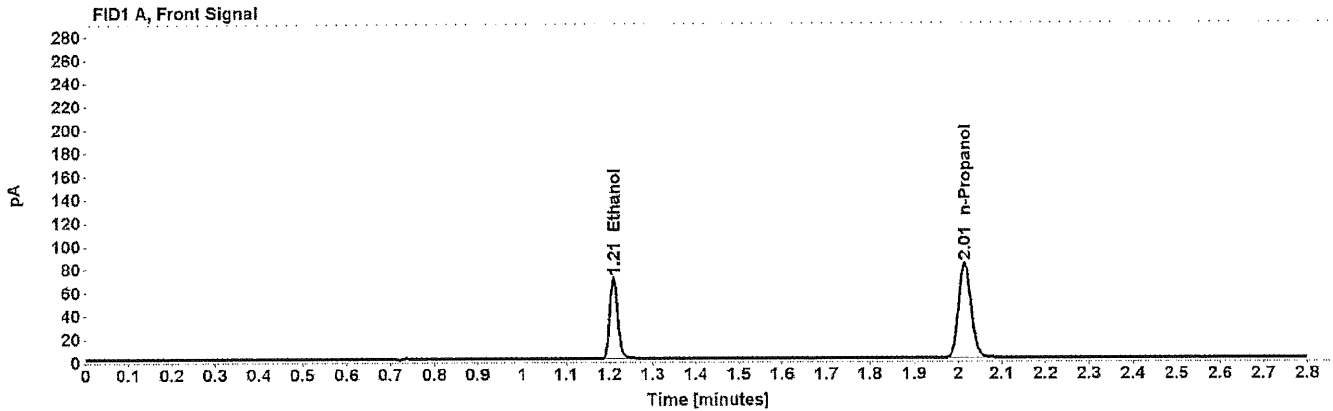


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1570              | 1.209         | 89.636       |
| n-Propanol | -----               | 2.015         | 164.460      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.373         | 109.665      |
| n-Propanol | 2.467         | 196.715      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**



# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 9                              |
| <b>Description:</b> 0.150 Box 8                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 2:57:31 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\009F0901.D | <b>Analyst:</b> LAbbott                     |

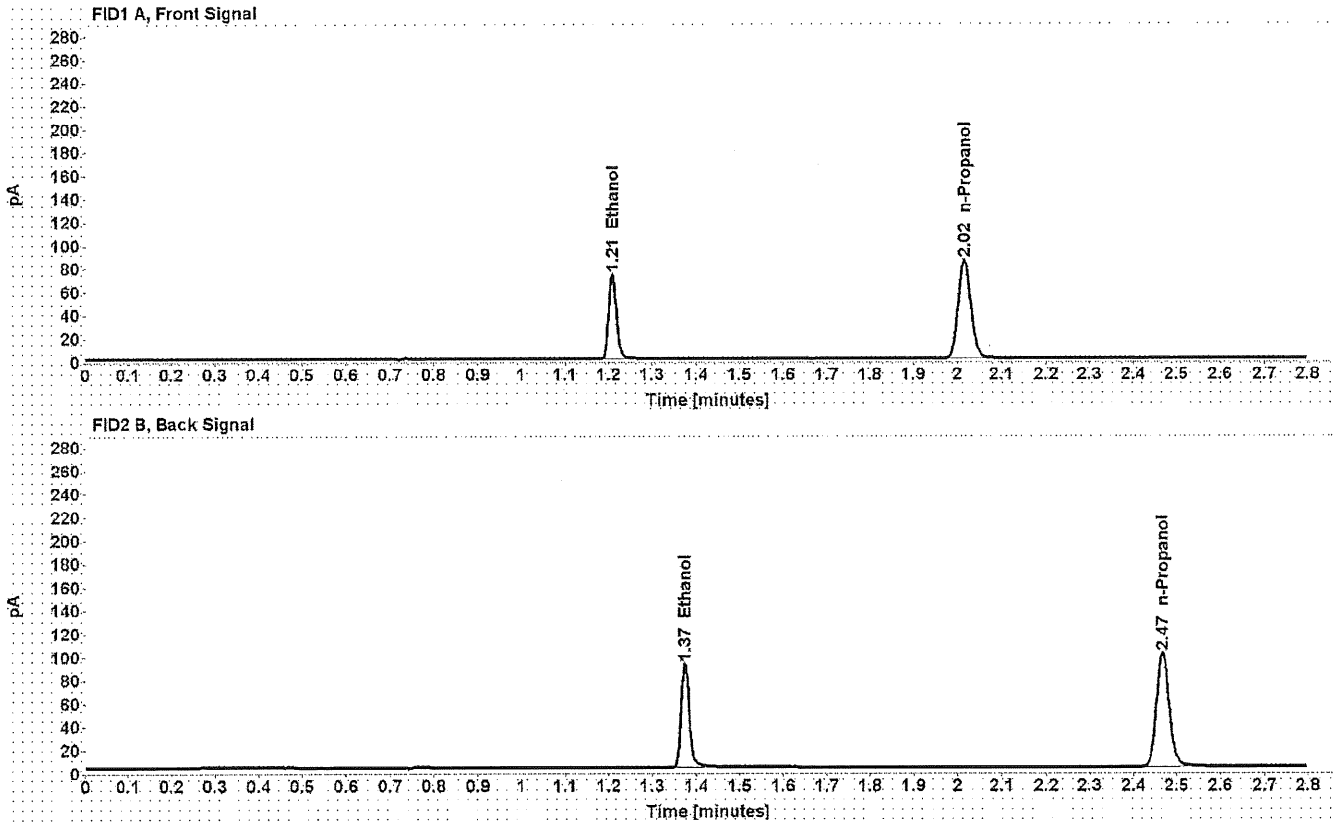


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1591              | 1.209         | 93.653       |
| n-Propanol | -----               | 2.015         | 169.595      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.374         | 114.478      |
| n-Propanol | 2.468         | 202.904      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 10                             |
| <b>Description:</b> 0.150 Box 9                             | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:01:32 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\010F1001.D | <b>Analyst:</b> LAbbott                     |

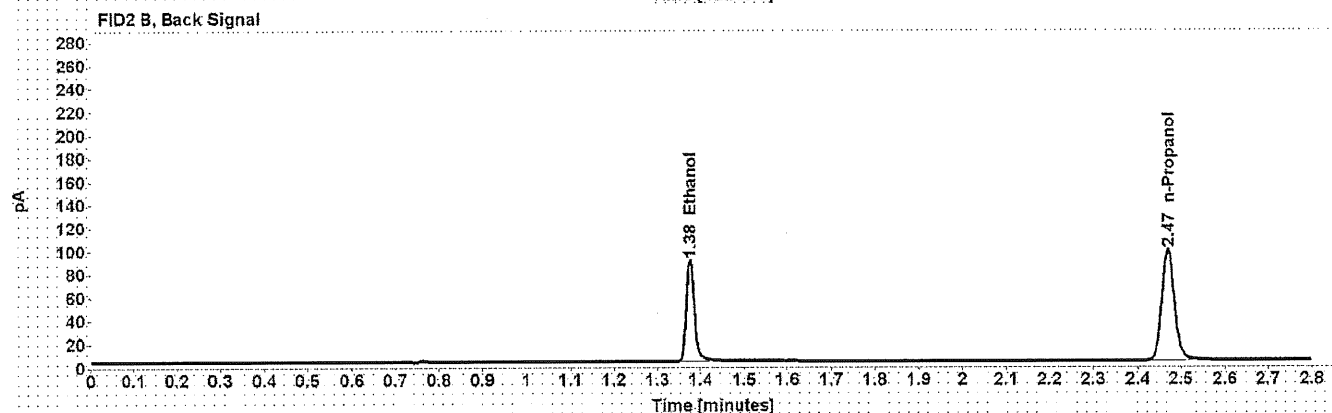
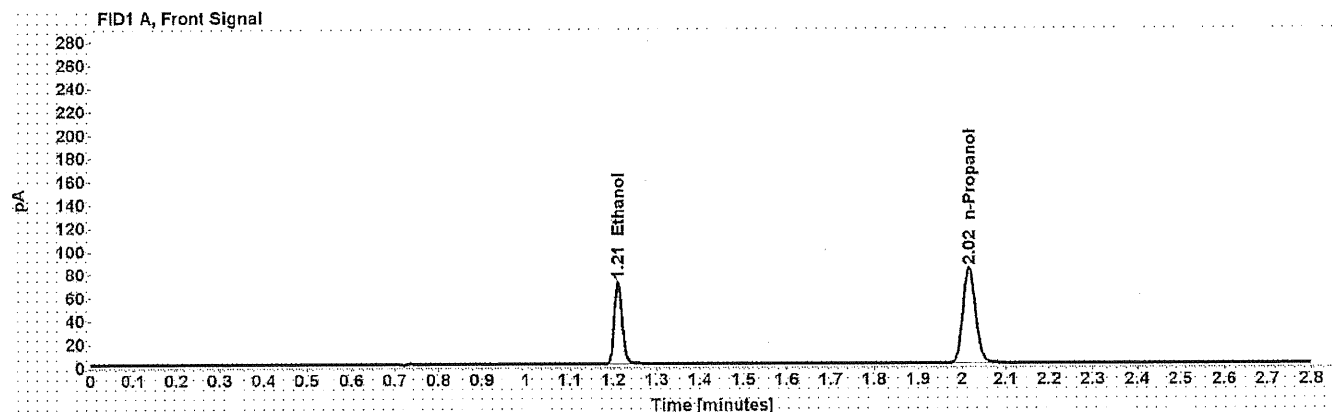


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1588              | 1.210         | 91.177       |
| n-Propanol | -----               | 2.016         | 165.412      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.376         | 111.705      |
| n-Propanol | 2.469         | 197.704      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 11                             |
| <b>Description:</b> 0.150 Box 10                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:05:31 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\011F1101.D | <b>Analyst:</b> LAbbott                     |

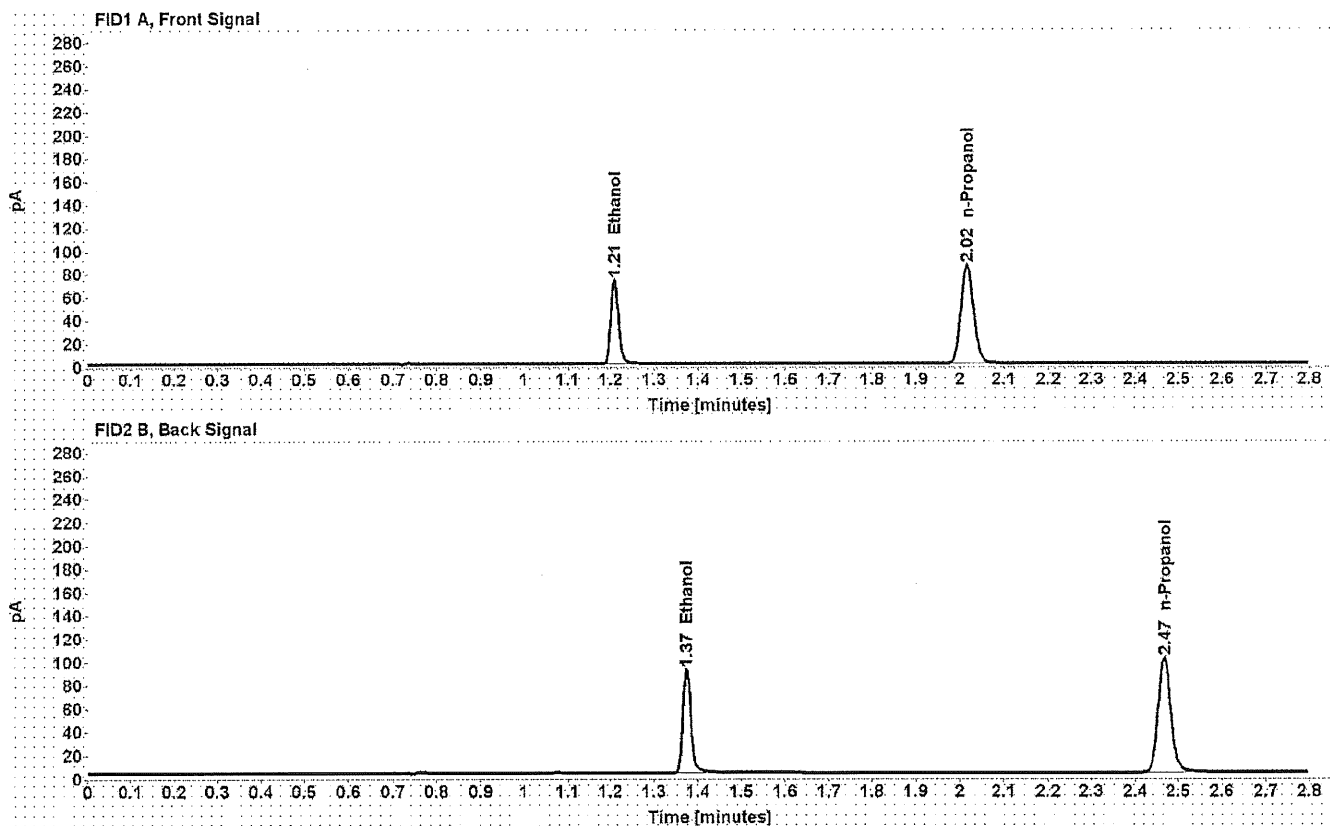


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1577              | 1.209         | 93.116       |
| n-Propanol | -----               | 2.015         | 170.085      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.374         | 113.744      |
| n-Propanol | 2.468         | 203.831      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 12                             |
| <b>Description:</b> 0.150 Box 11                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:09:31 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\012F1201.D | <b>Analyst:</b> LAbbott <i>la</i>           |

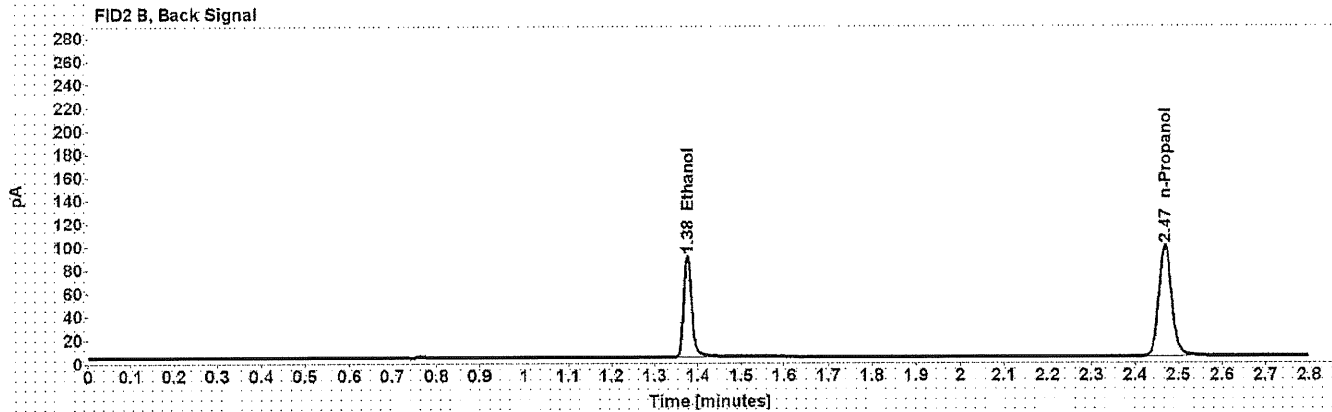
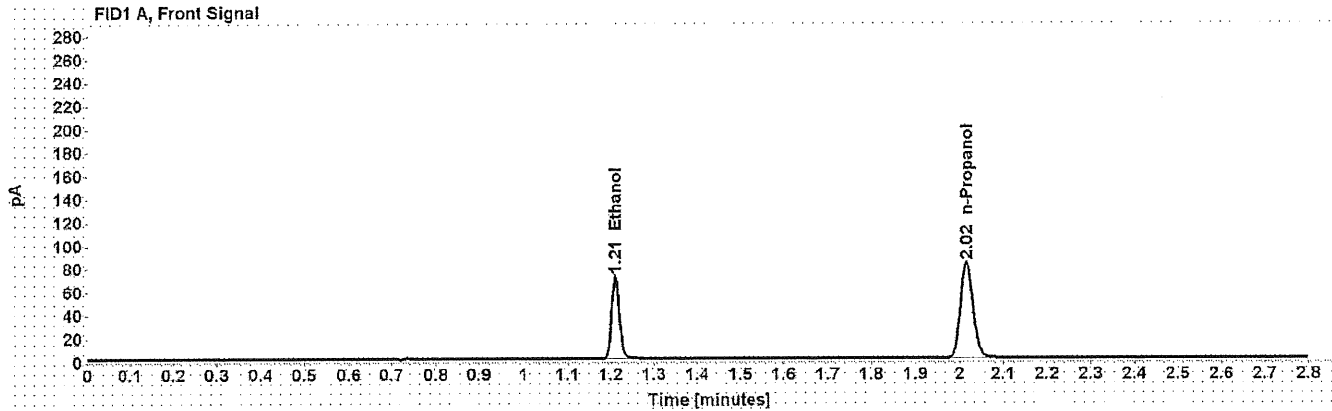


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1584           | 1.210      | 90.810    |
| n-Propanol | -----            | 2.016      | 165.194   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.375      | 110.932   |
| n-Propanol | 2.469      | 197.446   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 13                             |
| <b>Description:</b> 0.150 Box 12                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:13:46 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\013F1301.D | <b>Analyst:</b> LAbbott                     |

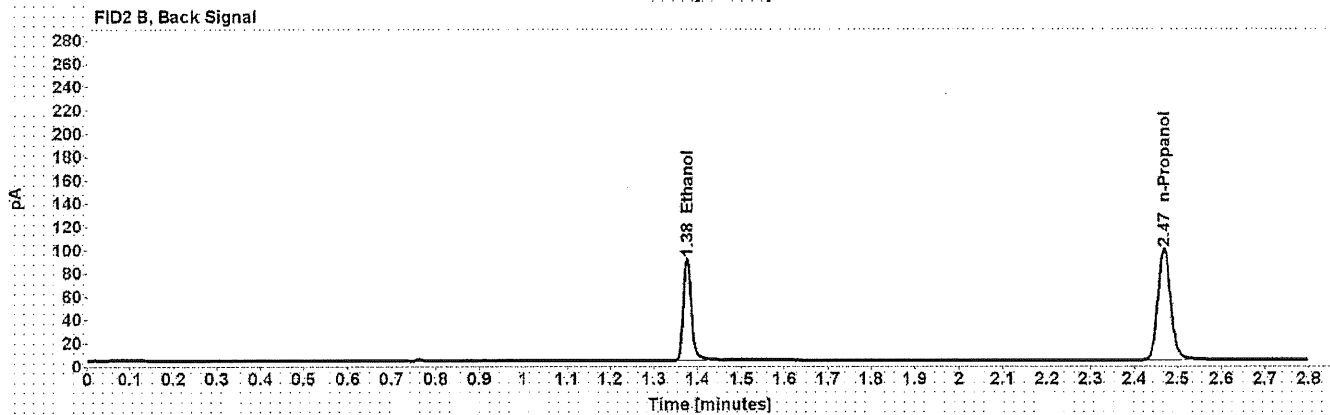
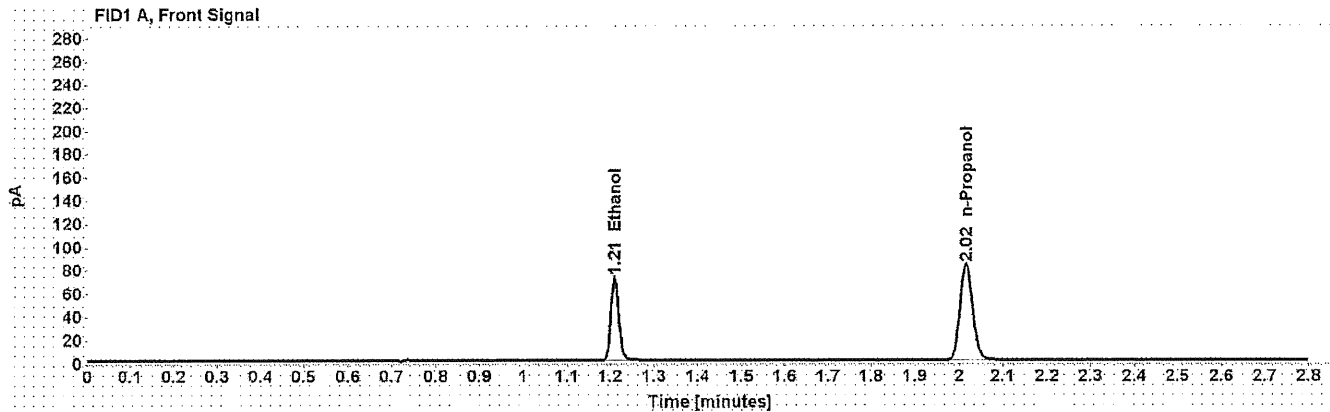


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1590              | 1.210         | 91.650       |
| n-Propanol | -----               | 2.016         | 166.035      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.376         | 112.005      |
| n-Propanol | 2.469         | 198.156      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 14                             |
| <b>Description:</b> 0.150 Box 13                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:17:46 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\014F1401.D | <b>Analyst:</b> LAbbott                     |

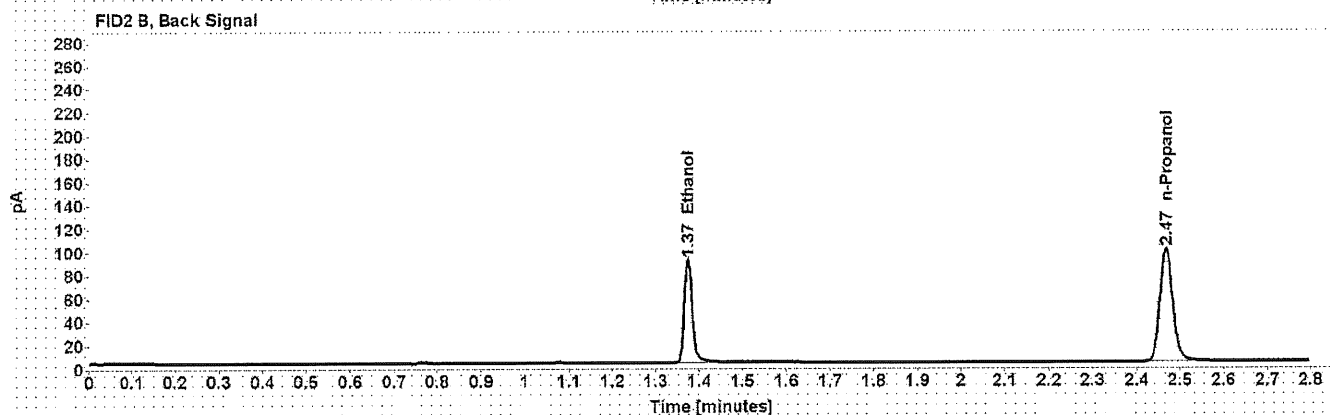
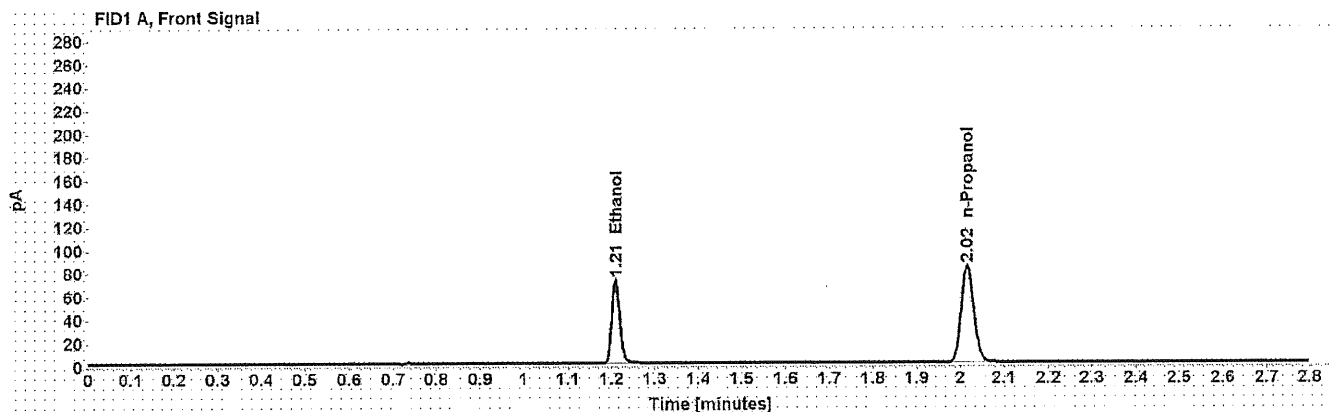


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| >Ethanol   | 0.1586              | 1.210         | 92.332       |
| n-Propanol | -----               | 2.016         | 167.708      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| Ethanol    | 1.375         | 112.820      |
| n-Propanol | 2.468         | 200.503      |

# Scottsdale Police Department Crime Lab Volatiles Analysis

|   |   |
|---|---|
| <b>Sample:</b> 14082019-C                                   | <b>Vial:</b> 15                             |
| <b>Description:</b> 0.150 Box 14                            | <b>LIMS ID:</b>                             |
| <b>Method:</b> ethanol quant.M                              | <b>Sequence:</b> 30Apr20test_3              |
| <b>Instrument:</b> US14173023 CN14160045                    | <b>Injection date:</b> 4/30/2020 3:21:46 PM |
| <b>Data file:</b> C:\Chem32\1\Data\30Apr20test_3\015F1501.D | <b>Analyst:</b> LAbbott                     |

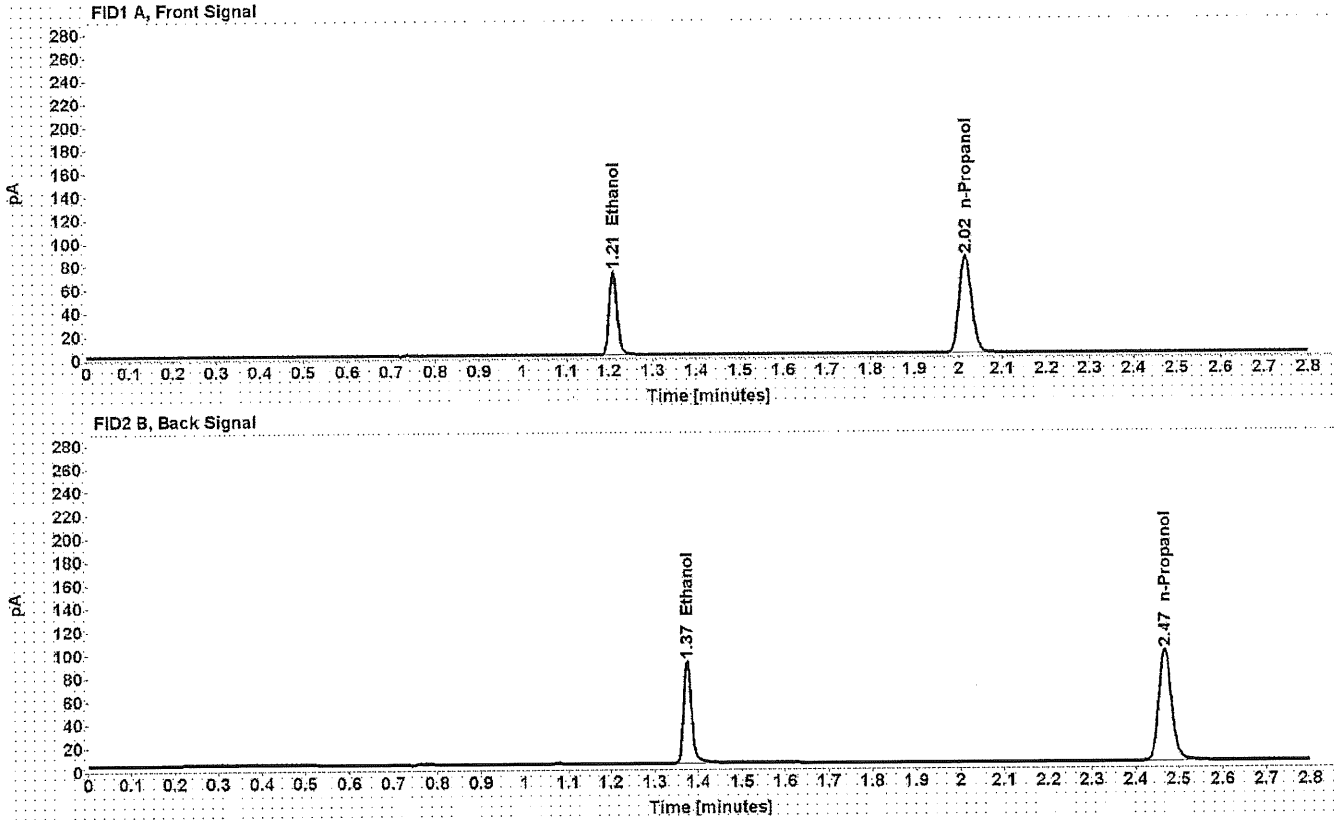


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1588           | 1.210      | 91.754    |
| n-Propanol | -----            | 2.016      | 166.409   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.375      | 112.347   |
| n-Propanol | 2.468      | 199.129   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**

# Scottsdale Police Department Crime Lab Volatiles Analysis

|  |                                      |
|--|--------------------------------------|
| Sample: 14082019-C                                   | Vial: 16                             |
| Description: 0.150 Box 15                            | LIMS ID:                             |
| Method: ethanol quant.M                              | Sequence: 30Apr20test_3              |
| Instrument: US14173023 CN14160045                    | Injection date: 4/30/2020 3:25:46 PM |
| Data file: C:\Chem32\1\Data\30Apr20test_3\016F1601.D | Analyst: LAbbott                     |

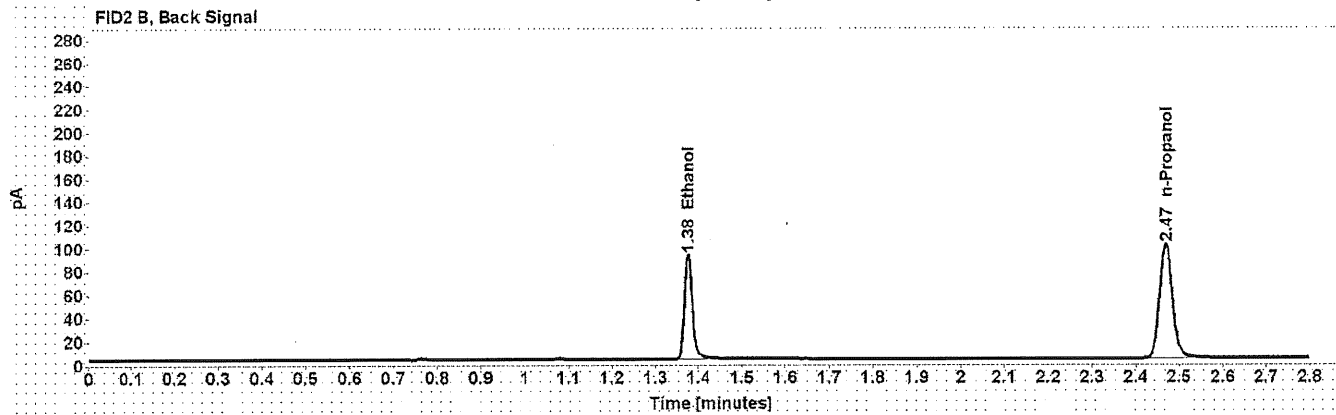
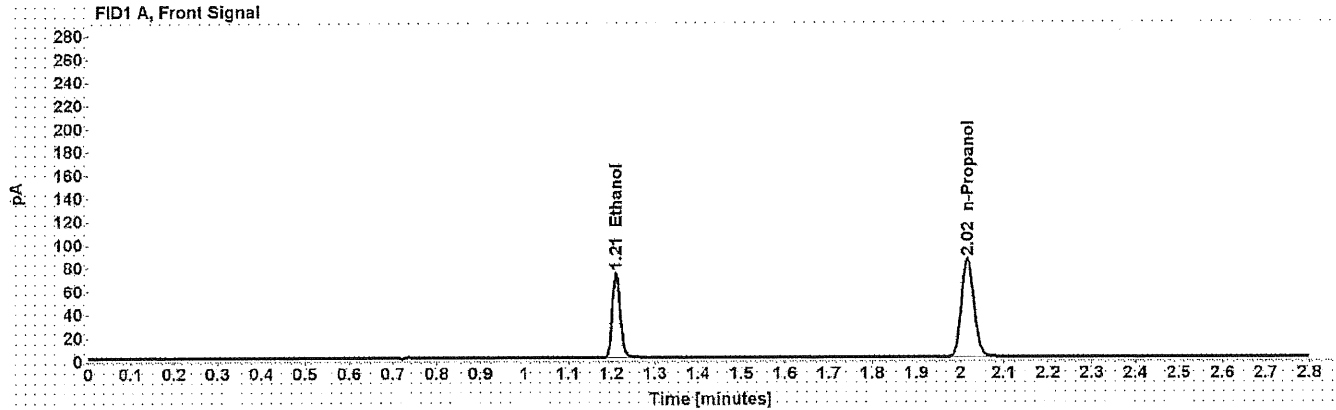


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount (g/100mL) | Time (min) | Peak Area |
|------------|------------------|------------|-----------|
| >Ethanol   | 0.1596           | 1.210      | 94.102    |
| n-Propanol | -----            | 2.016      | 169.845   |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time (min) | Peak Area |
|------------|------------|-----------|
| Ethanol    | 1.376      | 114.846   |
| n-Propanol | 2.469      | 203.122   |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**



# Scottsdale Police Department Crime Lab Volatiles Analysis

|              |   |                 |                      |
|--------------|---|-----------------|----------------------|
| Sample:      | blank                                     | Vial:           | 17                   |
| Description: | Blank                                     | LIMS ID:        |                      |
| Method:      | ethanol quant.M                           | Sequence:       | 30Apr20test_3        |
| Instrument:  | US14173023 CN14160045                     | Injection date: | 4/30/2020 3:29:46 PM |
| Data file:   | C:\Chem32\1\Data\30Apr20test_3\017F1701.D | Analyst:        | LAbbott              |

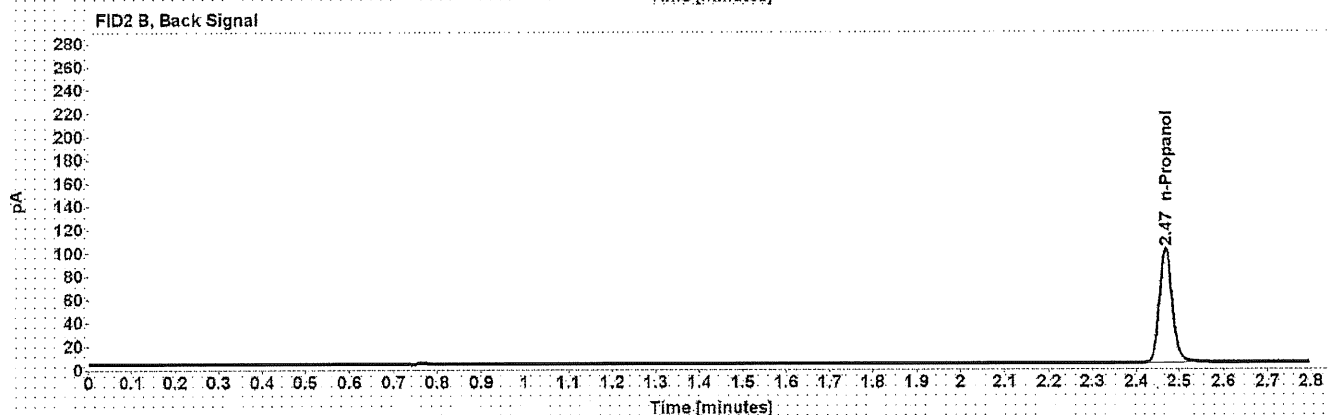
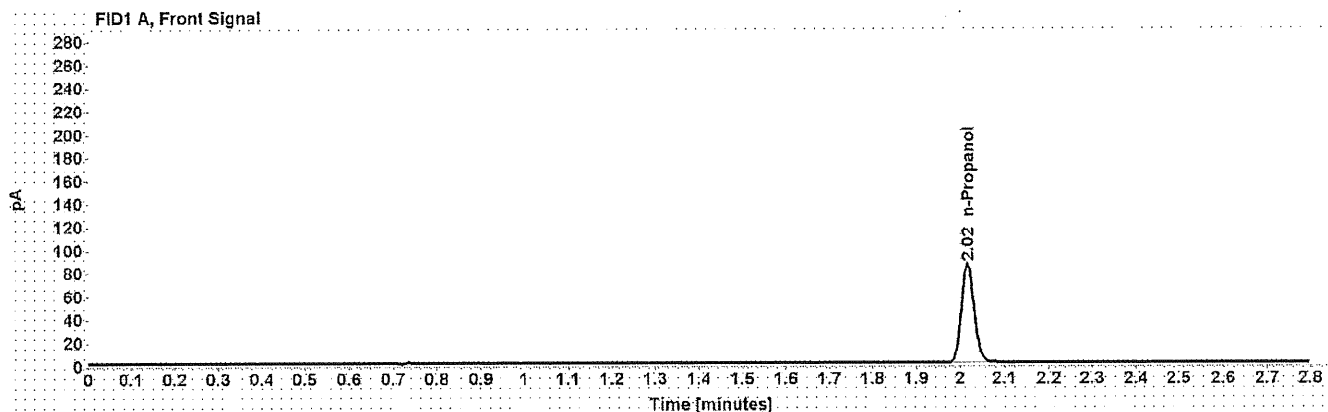


Table 1: FID 1 A (column DB-ALC1)

| Compound   | Amount<br>(g/100mL) | Time<br>(min) | Peak<br>Area |
|------------|---------------------|---------------|--------------|
| n-Propanol | -----               | 2.016         | 170.615      |

Table 2: FID 2 B (column DB-ALC2)

| Compound   | Time<br>(min) | Peak<br>Area |
|------------|---------------|--------------|
| n-Propanol | 2.469         | 203.906      |

**Chromatograms from blanks and fifteen ampoules tested from unopened boxes**