# BAC Resolution Control Standard n-P on Rtx®-BAC Plus 1 and Plus 2 Column Set

**Rtx®-BAC Plus 1**

**Peaks**

<table>
<thead>
<tr>
<th>Conc. (μg/mL)</th>
<th>BAC Plus 1 RT (min.)</th>
<th>BAC Plus 2 RT (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Methanol</td>
<td>0.801</td>
<td>0.741</td>
</tr>
<tr>
<td>2. Acetaldehyde</td>
<td>0.848</td>
<td>0.697</td>
</tr>
<tr>
<td>3. Ethanol</td>
<td>1.012</td>
<td>0.884</td>
</tr>
<tr>
<td>4. Isopropanol</td>
<td>1.238</td>
<td>1.006</td>
</tr>
<tr>
<td>5. Acetone</td>
<td>1.348</td>
<td>0.955</td>
</tr>
<tr>
<td>6. 1-Propanol</td>
<td>1.709</td>
<td>1.401</td>
</tr>
</tbody>
</table>

**Columns**

Rtx®-BAC Plus 1 30 m, 0.32 mm ID, 1.8 μm (cat.# 18004)

and Rtx®-BAC Plus 2 30 m, 0.32 mm ID, 0.6 μm (cat.# 18006)

using Rxi® guard column 5 m, 0.32 mm ID (cat.# 10039)

with Universal “Y” Press-Tight® connector (cat.# 20405-261)

**Sample**

BAC resolution control standard n-P (cat.# 36010)

Conc.: 50 μL of standard was diluted with 950 μL water in a 20 mL headspace vial.

**Injection**

headspace-loop split (split ratio 50:1)

**Headspace-Loop**

Liner: 1 mm straight inlet liner (cat.# 20972)

**Vial Pressure:** 30 psi

**Pressureize Time:** 2 min.

**Loop Pressure:** 20 psi

**Loop Fill Time:** 1 min.

**Oven**

**Oven Temp:** 40 °C (hold 3 min.)

**Carrier Gas**

He, constant flow

**Linear Velocity:** 80 cm/sec.

**Detector**

FID @ 240 °C

**Make-up Gas Flow Rate:** 30 mL/min.

**Make-up Gas Type:** N.

**Instrument**

Agilent/HP6890 GC

The Rtx®-BAC Plus 1 and Plus 2 columns were connected to the injection port using a ~12 inch section of guard column between the injection port and the Universal Y Press-Tight® connector.

**Notes**

Headspace concentrator courtesy of Teledyne Tekmar, Mason, OH.

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**Rtx®-BAC Plus 2**

**Columns**

Rtx®-BAC Plus 2 30 m, 0.32 mm ID, 0.6 μm (cat.# 18006)

**Sample**

50 μL of standard was diluted with 950 μL water in a 20 mL headspace vial.

**Injection**

headspace-loop split (split ratio 50:1)

**Vial Pressure:** 30 psi

**Pressureize Time:** 2 min.

**Loop Pressure:** 20 psi

**Loop Fill Time:** 1 min.

**Oven**

**Oven Temp:** 40 °C (hold 3 min.)

**Carrier Gas**

He, constant flow

**Linear Velocity:** 80 cm/sec.

**Detector**

FID @ 240 °C

**Make-up Gas Flow Rate:** 30 mL/min.

**Make-up Gas Type:** N.

**Instrument**

Agilent/HP6890 GC

The Rtx®-BAC Plus 1 and Plus 2 columns were connected to the injection port using a ~12 inch section of guard column between the injection port and the Universal Y Press-Tight® connector.

**Notes**

Headspace concentrator courtesy of Teledyne Tekmar, Mason, OH.