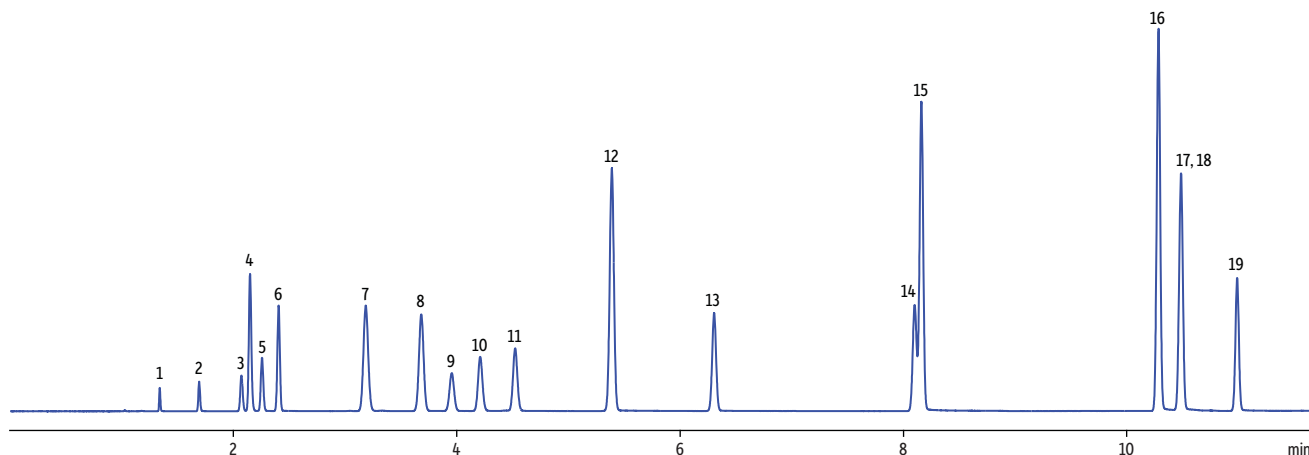
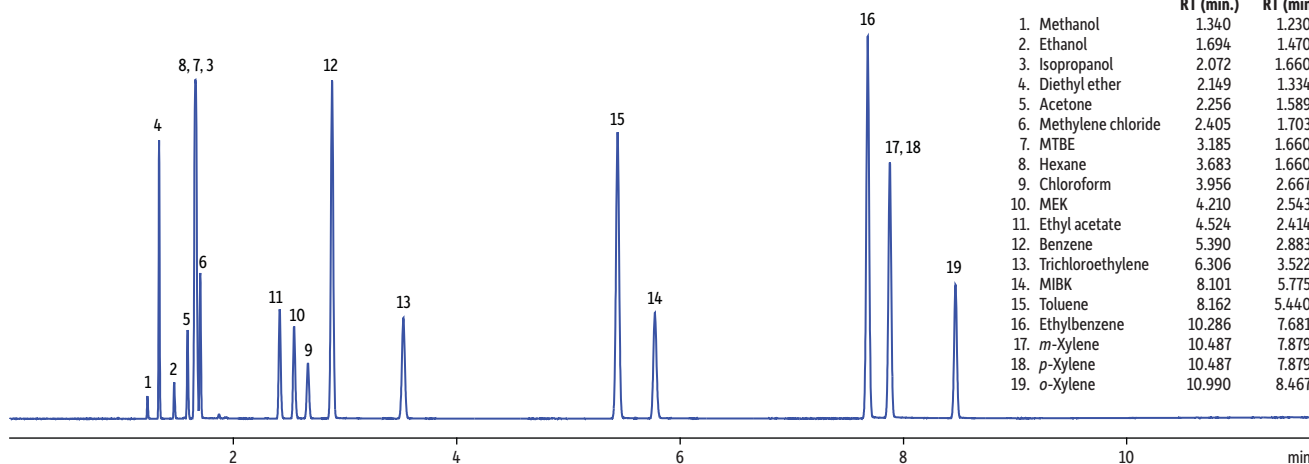


# Inhalants on Rtx<sup>®</sup>-BAC Plus 1 and Plus 2 Column Set

## Rtx<sup>®</sup>-BAC Plus 1



## Rtx<sup>®</sup>-BAC Plus 2



Peaks	BAC Plus 1 RT (min.)	BAC Plus 2 RT (min.)
1. Methanol	1.340	1.230
2. Ethanol	1.694	1.470
3. Isopropanol	2.072	1.660
4. Diethyl ether	2.149	1.334
5. Acetone	2.256	1.589
6. Methylene chloride	2.405	1.703
7. MTBE	3.185	1.660
8. Hexane	3.683	1.660
9. Chloroform	3.956	2.667
10. MEK	4.210	2.543
11. Ethyl acetate	4.524	2.414
12. Benzene	5.390	2.883
13. Trichloroethylene	6.306	3.522
14. MIBK	8.101	5.775
15. Toluene	8.162	5.440
16. Ethylbenzene	10.286	7.681
17. <i>m</i> -Xylene	10.487	7.879
18. <i>p</i> -Xylene	10.487	7.879
19. <i>o</i> -Xylene	10.990	8.467

GC\_CF1162

**Columns** Rtx<sup>®</sup>-BAC Plus 1 30 m, 0.32 mm ID, 1.8 µm (cat.# 18004) and Rtx<sup>®</sup>-BAC Plus 2 30 m, 0.32 mm ID, 0.6 µm (cat.# 18006) using Rxi<sup>®</sup> guard column 5 m, 0.32 mm ID (cat.# 10039) with Universal "Y" Press-Tight<sup>®</sup> connector (cat.# 20405-261)

**Sample**  
 Diluent: Water  
 Conc.: 50 µg/mL each inhalant  
**Injection**  
 Liner: headspace-loop split (split ratio 50:1)  
 1 mm straight inlet liner (cat.# 20972)

**Headspace-Loop**  
 Inj. Port Temp.: 220 °C  
 Instrument: Tekmar HT3  
 Inj. Time: 3 min.  
 Transfer Line Temp.: 125 °C  
 Valve Oven Temp.: 125 °C  
 Sample Temp.: 70 °C  
 Sample Equil. Time: 5 min.  
 Vial Pressure: 30 psi

Pressurize Time: 2 min.  
 Loop Pressure: 20 psi  
 Loop Fill Time: 1 min.

**Oven**  
 Oven Temp: 40 °C (hold 4 min.) to 120 °C at 10 °C/min. (hold 0 min.)  
**Carrier Gas**  
 He, constant flow  
 Linear Velocity: 50 cm/sec.  
**Detector**  
 Make-up Gas: FID @ 240 °C  
 Flow Rate: 30 mL/min.

Make-up Gas Type: N<sub>2</sub>  
**Instrument Notes**  
 Agilent/HP6890 GC  
 The Rtx<sup>®</sup>-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<sup>®</sup> connector.

Headspace concentrator courtesy of Teledyne Tekmar, Mason, OH.