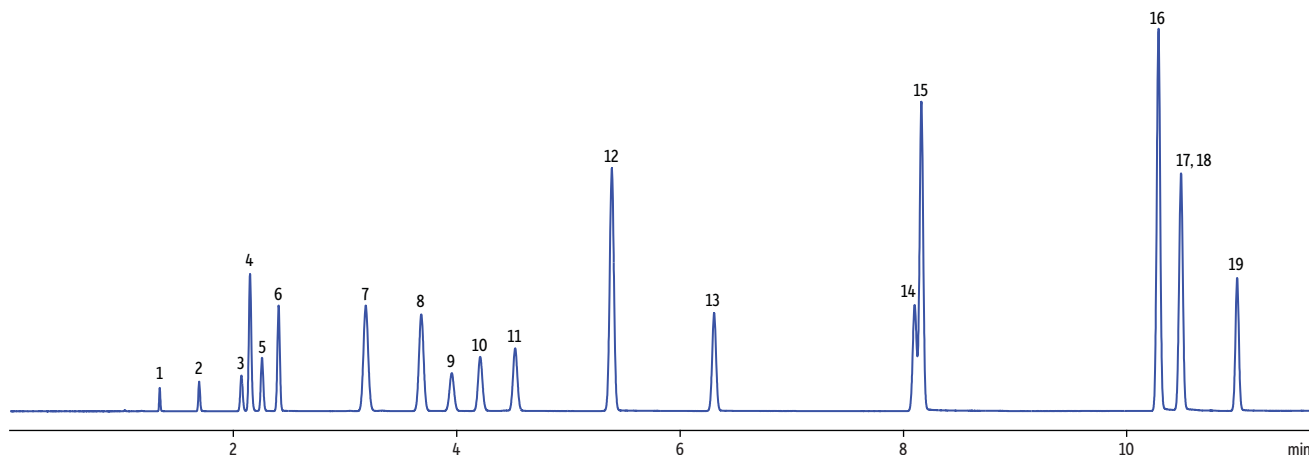
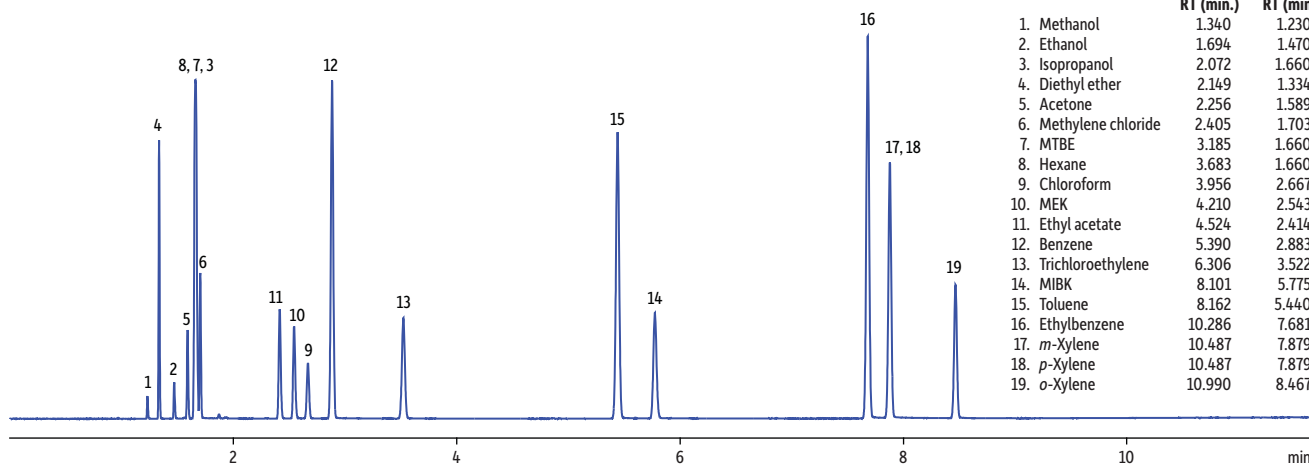


Inhalants on Rtx[®]-BAC Plus 1 and Plus 2 Column Set

Rtx[®]-BAC Plus 1



Rtx[®]-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[®]-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
 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: N₂
Instrument Notes
 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.

Headspace concentrator courtesy of Teledyne Tekmar, Mason, OH.