

## Volatile Organics Analysis

### Rtx®-VMS Columns (fused silica)

(proprietary Crossbond® phase)

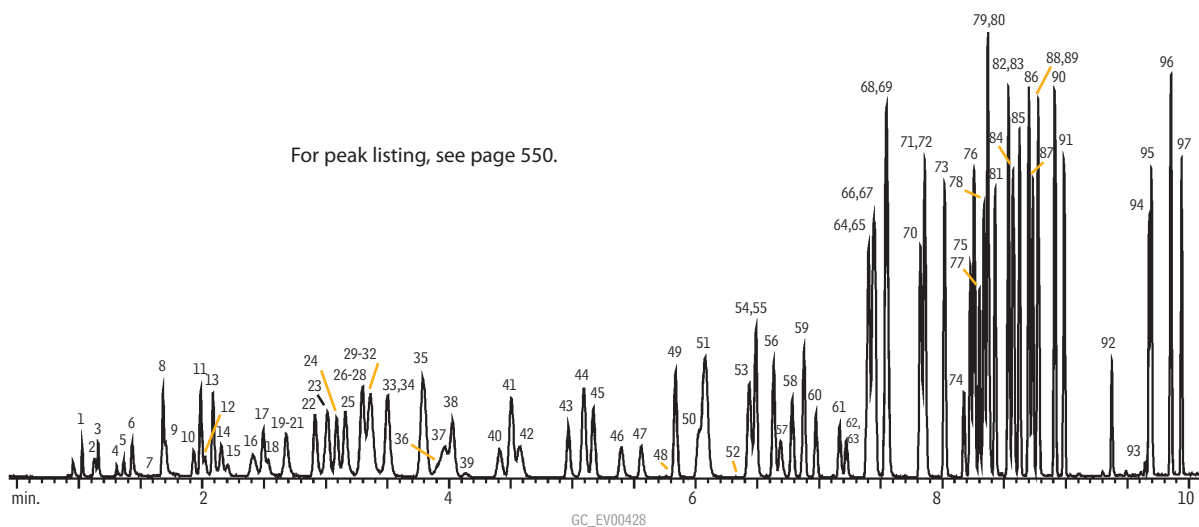
- Application-specific columns for volatile organic pollutants by GC/MS.
- Complete separation of US EPA Method 8260B compounds in less than 10 minutes.
- Stable to 260 °C.
- No known equivalent phases.

Rtx®-VMS columns offer lower bleed, better selectivity, and overall faster analysis for separating volatile organic compounds, such as those listed in US EPA Method 8260B. The Rtx®-VMS stationary phase is a highly stable polymer that provides outstanding analysis of volatile compounds, in combination with sensitive ion traps and Agilent 5973 mass spectrometers. 0.18 and 0.25 mm ID columns allow sample splitting at the injection port, eliminating the added expense and maintenance of a jet separator. A 0.45 mm or 0.53 mm ID column can be directly connected to the purge & trap transfer line in a system equipped with a jet separator.

ID	df	temp. limits	30-Meter	60-Meter	75-Meter
0.25mm	1.40µm	-40 to 240/260°C	19915	19916	
0.32mm	1.80µm	-40 to 240/260°C	19919	19920	
0.45mm	2.55µm	-40 to 240/260°C	19908	19909	
0.53mm	3.00µm	-40 to 240/260°C	19985	19988	19974

ID	df	temp. limits	20-Meter	40-Meter
0.18mm	1.00µm	-40 to 240/260°C	49914	\$450 49915 \$755

### Rapid analysis of volatile organics in US EPA Method 8260B, on an Rtx®-VMS column.



For peak listing, see page 550.

Column: Rtx®-VMS, 20m, 0.18mm ID, 1.00µm (cat.# 49914)  
 Conc.: 10ppb in 5mL of RO water  
 unless otherwise noted; ketones at 2.5X  
 Concentrator: Tekmar LSC-3100 Purge and Trap  
 Trap: Vocabr 3000 (type K)  
 Purge: 11 min. @ 40mL/min. (ambient temperature)  
 Dry purge: 1 min. @ 40mL/min.  
 Desorb preheat: 245°C  
 Desorb: 250°C for 2 min., flow 40mL/min.  
 Bake: 260°C for 8 min.  
 Interface: 0.53mm ID Silcosteel® tubing transfer line  
 1:40 split at injection port. 1mm ID liner.  
 Oven temp.: 50°C (hold 4 min.) to 100°C @ 18°C/min. (hold 0 min.)  
 to 230°C @ 40°C/min. (hold 3 min.)  
 Carrier gas: helium @ ~1.0mL/min. constant flow  
 Adjust dichlorodifluoromethane to a retention time of 1.03 min. @ 50°C.  
 Detector: Agilent 5973 MSD  
 Scan range: 35-300amu