

Volatile Organics Analysis

restek
innovation!

Polymer specially designed for
volatiles analysis by PID/ELCD.

Rtx®-VGC (proprietary Crossbond® phase)

- Application-specific columns for volatile organic pollutants by GC/PID/ELCD. Excellent separation of trihalomethanes.
- Complete US EPA Method 8021A analysis in less than 28 minutes.
- Stable to 260°C.
- No known equivalent phases.

Using computer modeling techniques, we optimized the Rtx®-VGC column for analysis of volatile organic compounds on GC systems equipped with photoionization (PID) and electrolytic conductivity detectors (ELCD). It performs the most difficult separations of volatile organic compounds, such as those listed in US EPA Methods 502.2 and 8021, providing unsurpassed separation in the fastest analysis time, thereby increasing sample throughput. The Rtx®-VGC column provides $\geq 85\%$ resolution of trihalomethanes (THMs) from other volatile compounds. This unique column also achieves excellent separation of gases and early eluting compounds.

Rtx®-VGC Columns (fused silica)

ID	df (μm)	temp. limits	30-Meter	60-Meter	75-Meter	105-Meter
0.25mm	1.40	-40 to 240/260°C	19415	19416		
0.32mm	1.80	-40 to 240/260°C	19419	19420		
0.45mm	2.55	-40 to 240/260°C	19408		19409	
0.53mm	3.00	-40 to 240/260°C	19485	19488	19474	19489

ID	df (μm)	temp. limits	20-Meter	40-Meter
0.18mm	1.00	-40 to 240/260°C	49414	49415

Need a column for a
volatiles analysis?

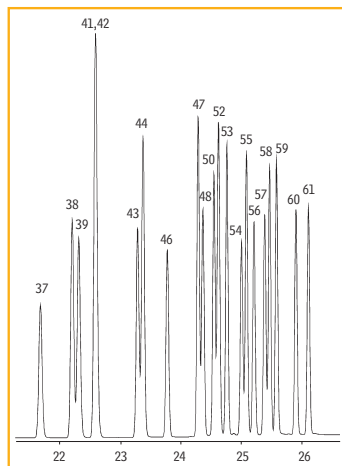
see page 563

Fast separation of US EPA Method 8021 volatile organics: Rtx®-VGC column.

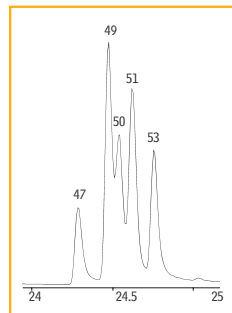
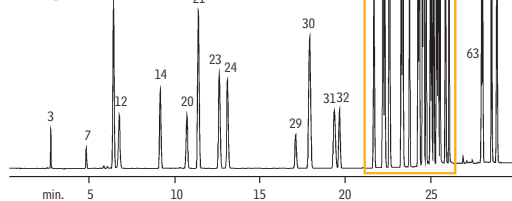
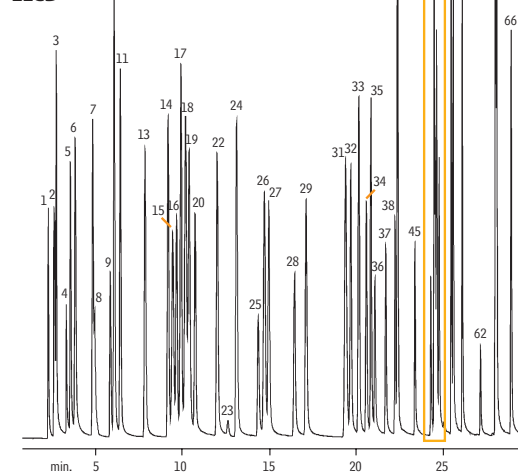
Primary column, dual-column analysis. Confirmation analysis shown on page 566.

Rtx®-VGC

75m, 0.45mm ID, 2.55 μm (cat.# 19409)



See page 565 for the peak list
and run conditions.

**PID****ELCD**

GC_EV00416

Acknowledgement: Finnigan 9001 GC, μGold Tandem Photoionization/HALL® 2000 Electrolytic Conductivity Detector provided courtesy of Thermo Scientific GC & GC/MS Division, 2215 Grand Avenue Pkwy, Austin, Texas 78728