# RESTEK The Advantage

Innovators of High Resolution Chromatography

# Rtx-5MS The True LOW BLEED LEADER!

Every column manufacturer claims to have the lowest bleed capillary column for use with GC/MS. Restek decided to conduct a side-by-side test of several commercially available "MS" columns for bleed, response and performance. Our testing indicates that the Rtx@-5MS is the ideal column for GC/MS applications requiring high sensitivity.

#### **Bleed**

The Rtx@-SMS was compared to two other "MS" columns in an HP 5890 Series II GC with an HP 597 1 Mass Selective Detector. Each column was tested under identical conditions with respect to both GC and MSD param-

eters (e.g. linear velocity, temperatures, tuning, etc.). Figure 1 shows the plot of mass 207, the most characteristic bleed ion of a polysiloxane stationary phase. The Rtx@-5MS column exhibits lower bleed at both 325°C

and 360\*C compared to the other two "MS" columns.

## How important is having a column with low bleed?

Column bleed can ultimately effect sensitivity, spectral quality, and source contamiation. When a column exhibits high bleed, the signal-to-noise (s/n) ratio is reduced. A low s/n ratio results in poor sensitivity and can decrease the quality of analyte spectra. A decrease in spectral quality complicates the interpretation of mass spectra that makes accurate compound identification difficult or impossible. Reduced column bleed is critical for ion trap mass

### In this Issue

Rtx"-5MS Column

pg. 1

Silcosteel\* Packed Columns

pg. 4

Stabilwax Bonded Packed Column

pg. 5

Rtx"-5/Rtx"-50 Columns for Pesticide Analysis

pg 6

How Old isYOUR Capillary Column

pg. 8

Koni's Korner

pg. 10

**ASTM E-19 Meeting** 

pg. 12

SilcoCan'" Canister with Pressure/Vacuum Gauge

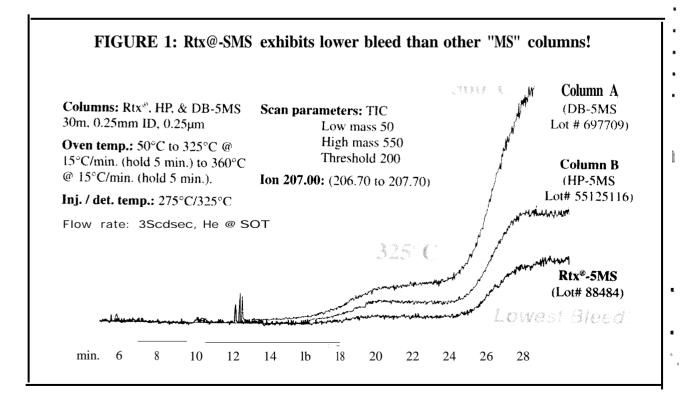
pg. 13

**Peak Performers** 

pg. 14

Restek Behind the Scenes

pg. 16





Restek Corporation

page 1

Advantage