

Rtx[®]-5MS

The Rtx[®]-5MS - True LOW BLEED LEADER!

TABLE I: Rtx[®]-5MS demonstrates better response of active environmental compounds.

Components	Rtx [®] -5MS	DB-5MS	HP-5MS
n-nitroso-di-n-propylamine	0.30	0.28	0.25
2,4-dinitrophenol	0.62	0.53	0.52
4-nitrophenol	0.83	0.82	0.76
4-nitroaniline	0.93	0.69	0.80
pentachlorophenol	1.38	1.30	1.34

spectrometers. The automatic gain control feature of these instruments will significantly reduce sensitivity as column bleed increases during temperature programming. Using low bleed Rtx[®]-5MS columns will result in increased sensitivity of ion trap GC/MS systems. If a column continues to contribute high bleed, it may result in source contamination. A contaminated source should be cleaned, which may take up to a full day, resulting in lost manpower and valuable

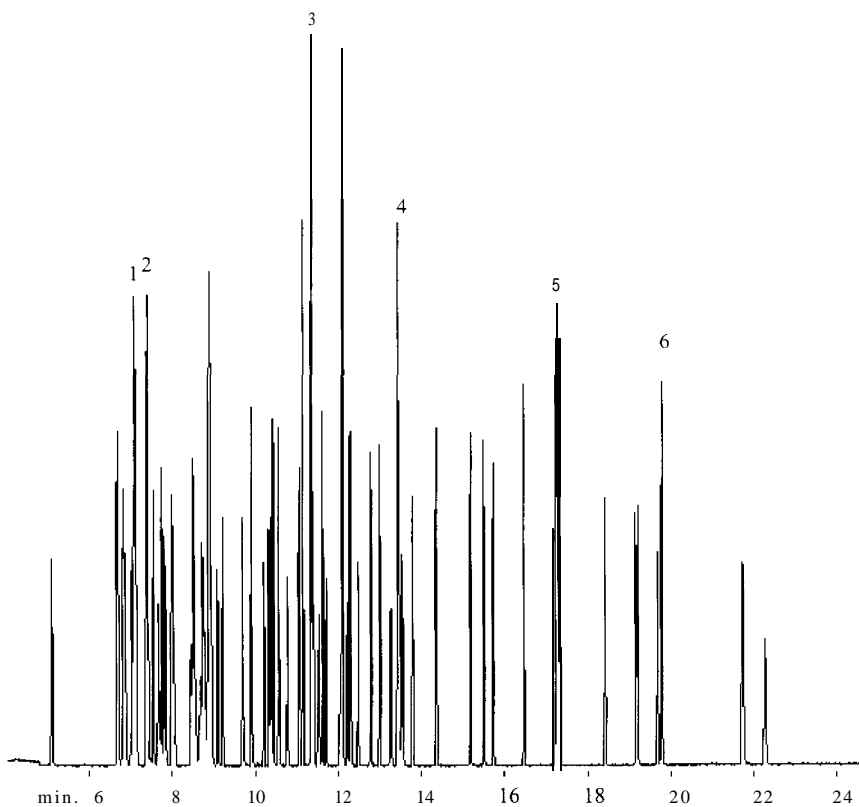
instrument time. Because each Rtx[®]-5MS column is thoroughly tested for low bleed, it is the column of choice for the prevention of these problems.

Inertness

Low bleed levels are important, but inertness is also a critical factor when choosing a capillary column for GC/MS analysis. How do active environmental compounds

respond on the Rtx[®]-5MS compared to other "MS" columns? A 14 component test mixture containing five highly active compounds was injected onto each of the three "MS" columns. The results of

FIGURE 2: The Rtx[®]-5MS GUARD column shows excellent inertness and low bleed for the analysis of semi-volatile pollutants without increasing analysis time.



30m. 0.25mm ID. 0.25um Rtx[®]-5MS
Integra-Guard (cat.# 12623-124)
2.0ul injection of Semi-Volatile
Calibration mix. Concentration: 20ng/ul.

Oven temp.: 45°C (hold 3.5 min.) to 95°C
@ 40C/min.. to 295°C @ 17C/min.
(hold 2 min.), to 320°C @ 40C/min.
(hold 5.9 min.).

Inj/Det. temp.: 250/310C

Linear velocity: 32cm/sec. @ 40°C

Scan rate: 0.8 sec./scan

Scan range: 35-500amu

Flow rate: 1.03ml/min. after EPC

pressure pulse

Ionization: EI

Electron range: 70eV

Splitless hold time: 0.95 min.

Internal Standards:

- 1,4-dichlorobenzene-d4
- naphthalene-d8
- acenaphthene-d10
- phenanthrene-d10
- chrysene-d12
- perylene-d12

Analysis courtesy of Inhccape Testing Services -
Aquatec Laboratories, Burlington, Vermont. Image
file courtesy Thru-Put Systems, Inc.