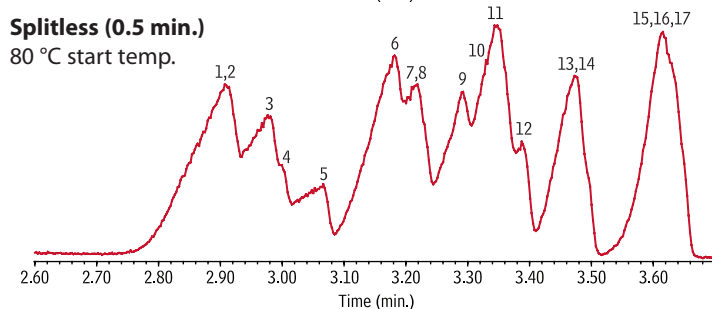
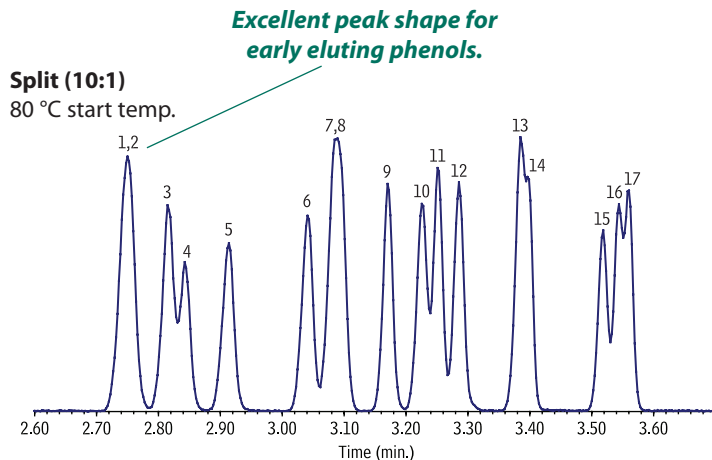


# Peak Shape Comparison of Early Eluting Semivolatiles Using Split (10:1) and Splitless Injection at 80 °C Oven Start Temp.



*High initial oven temperature results in poor focusing.*

GC\_EV1187 & GC\_EV1190

## Peaks

- |                                |                                   |
|--------------------------------|-----------------------------------|
| 1. Phenol-d6 (SS)              | 10. 1,2-Dichlorobenzene           |
| 2. Phenol                      | 11. 2-Methylphenol                |
| 3. Aniline                     | 12. Bis(2-chloroisopropyl) ether  |
| 4. Bis(2-chloroethyl) ether    | 13. 4-Methylphenol/3-Methylphenol |
| 5. 2-Chlorophenol              | 14. N-Nitrosodi-N-propylamine     |
| 6. 1,3-Dichlorobenzene         | 15. Hexachloroethane              |
| 7. 1,4-Dichlorobenzene-D4 (IS) | 16. Nitrobenzene-D5 (SS)          |
| 8. 1,4-Dichlorobenzene         | 17. Nitrobenzene                  |
| 9. Benzyl Alcohol              |                                   |

## Column Sample

Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25  $\mu$ m (cat.# 13623)  
8270 MegaMix® (cat.# 31850), Benzoic acid (cat.# 31879)  
8270 Benzidines Mix (cat.# 31852), Acid Surrogate Mix  
(4/89 SOW) (cat.# 31025), 1,4-dioxane (cat.# 31853)  
Revised B/N Surrogate Mix (cat.# 31887)  
SV Internal Standard Mix (cat.# 31206)

Diluent: Methylene chloride  
Conc.: 40  $\mu$ g/mL

## Injection

Inj. Vol.: 1.0  $\mu$ L  
Liner: 4mm Split Precision® Liner w/ Semivolatiles Wool  
(cat.# 21023-231.5)

Inj. Temp.: 270 °C

## Oven

Oven Temp.: 80 °C (hold 1 min.) to 320 °C at 25 °C/min. to 330 °C at  
5 °C/min. (hold 2 min.)

## Carrier Gas

Flow Rate: He, constant flow

1.2 mL/min.

## Detector

Mode: Scan

## Transfer

Line Temp.: 280 °C

Analyzer Type: Quadrupole

Source Temp.: 250 °C

Quad Temp.: 150 °C

Tune Type: DFTPP

Ionization Mode: EI

Scan Range: 35-550 amu

**Instrument** Agilent 7890A GC & 5975C MSD