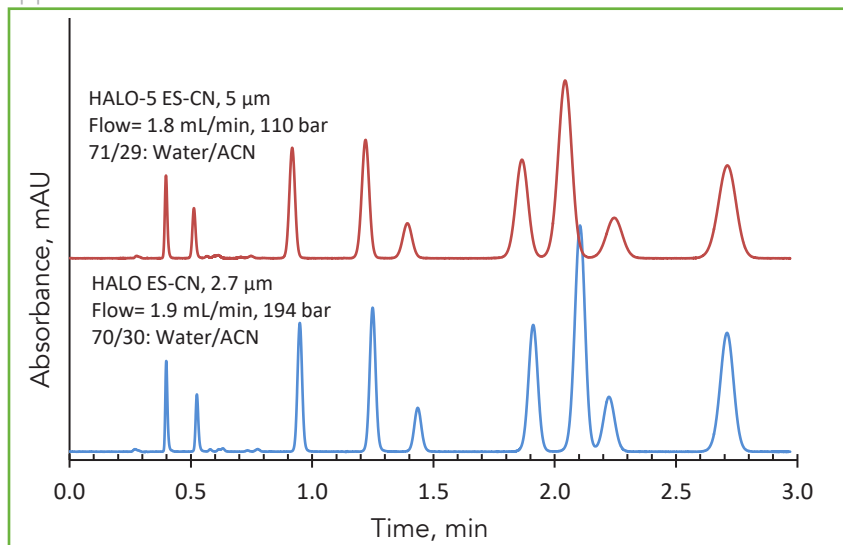




## Comparison of Selectivity of HALO® ES-CN, 5 µm and 2.7 µm Phases

Application Note 87-HA



### PEAK IDENTITIES:

1. Resorcinol
2. Vanillin
3. Benzonitrile
4. Benzoin
5. Nitrobenzene
6. Benzanilide
7. Bisphenol A
8. Diethylphthalate
9. 3,4-Dinitrotoluene

These chromatograms show the similarity in selectivity between the 5 µm and the 2.7 µm HALO® ES-CN phases which allows the easy transfer of methods from one particle size packing to another.

### TEST CONDITIONS:

#### Columns:

- 1) HALO 90 Å ES-CN, 5 µm, 4.6 x 50 mm  
**Part Number:** 95814-404
- 2) HALO 90 Å ES-CN, 2.7 µm, 4.6 x 50 mm  
**Part Number:** 92814-404

**Mobile Phase:** A/B - See chart for ratios

A: Water

B: Acetonitrile

**Flow Rate:** See chart

**Pressure:** See chart

**Temperature:** 30 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 1.0 µL

**Sample Solvent:** Methanol

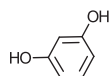
**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

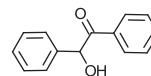
**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14 µL

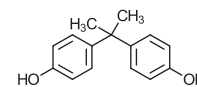
### STRUCTURES:



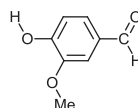
Resorcinol



Benzoin



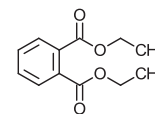
Bisphenol A



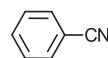
Vanillin



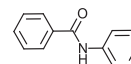
Nitrobenzene



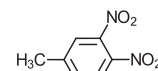
Diethylphthalate



Benzonitrile



Benzanilide



3,4-Dinitrotoluene

