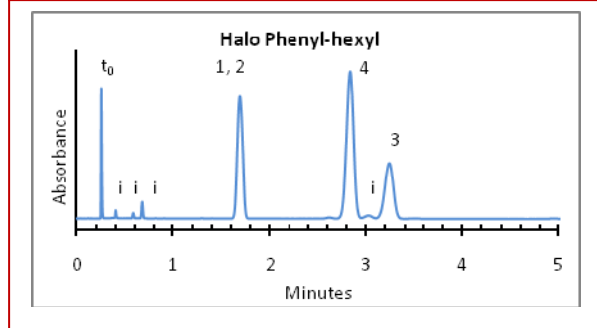
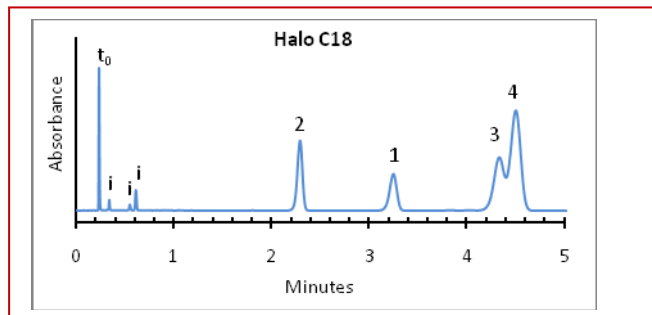
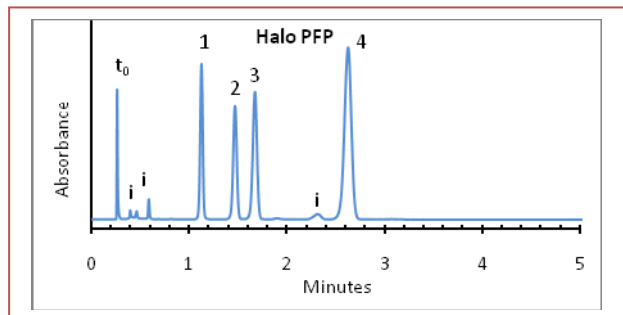


Application Note: 23-N

Separation of Neutral Aromatics on HALO PFP, C18 and Phenyl-Hexyl



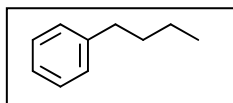
PEAK IDENTITIES:

1. Butylbenzene
2. Acenaphthene
3. 1-Phenylnaphthalene
4. Pyrene
5. I = impurities

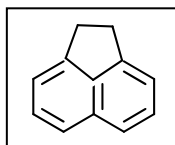
TEST CONDITIONS:

Column: 4.6 x 50 mm, HALO PFP, C18, Phenyl-Hexyl
 Part Numbers: 92814-409, -402, -406, respectively
 Mobile Phase: 30/70-water/methanol
 Flow Rate: 2.0 mL/min.
 Pressure: approximately 250 Bar
 Temperature: 40 °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

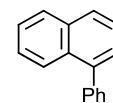
STRUCTURES:



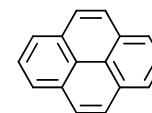
Butylbenzene



Acenaphthene



1-Phenylnaphthalene



Pyrene

The separation of nonpolar aromatic compounds on these three Halo bonded phases under the same conditions show differences in selectivity that can be utilized in optimizing difficult separations.