

# Application Report 402

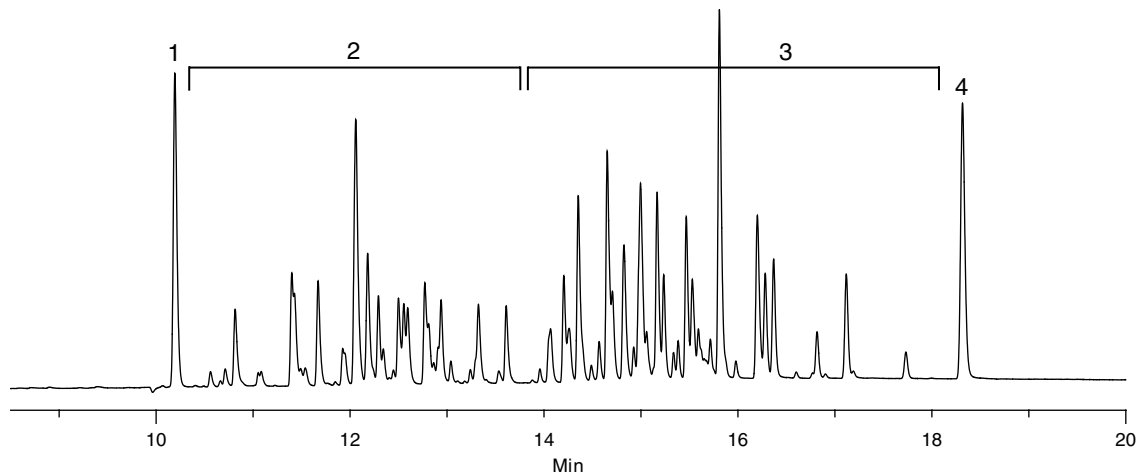
**Author:** Katherine Stenerson  
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## Aroclors on the SLB-5ms

Aroclors are commercial mixtures of PCB congeners. Due to their stability, they have been used in many different industrial and commercial applications. Because of their toxicity and ability to bioaccumulate, production of these materials ceased in 1977. This application demonstrates the separation of two common Aroclor mixtures, Aroclor 1016 and Aroclor 1260 on the SLB-5ms

### Key Words

Aroclor, PCB, SLB-5ms, US EPA Method 608, US EPA Method 8082, 28471-U, 46846-U



G003580

### Conditions

column: SLB-5ms, 30 m x 0.25 mm I.D., 0.25  $\mu$ m (28471-U)  
oven: 100 °C (2 min.), 15 °C/min. to 330 °C (3 min.)  
inj.: 250 °C  
det.: ECD, 330 °C  
carrier gas: helium, 25 cm/sec., constant  
injection: 2  $\mu$ L, splitless (0.75 min.)  
liner: 4 mm I.D., single taper  
sample: Aroclor standard mix 1 (46846-U) diluted to 500 ppb/50 ppb (Aroclors/surrogates) in n-hexane

### Peak IDs

1. Tetrachloro-m-xylene (surr.)
2. Aroclor 1016
3. Aroclor 1260
4. Decachlorobiphenyl (surr.)