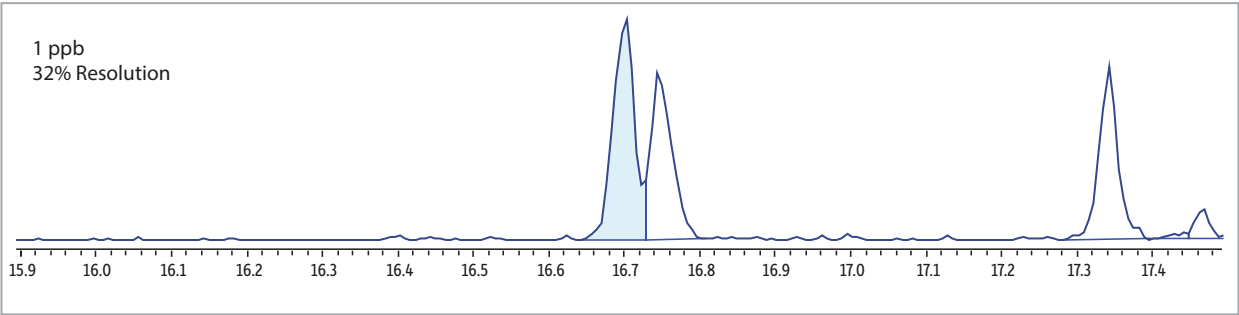
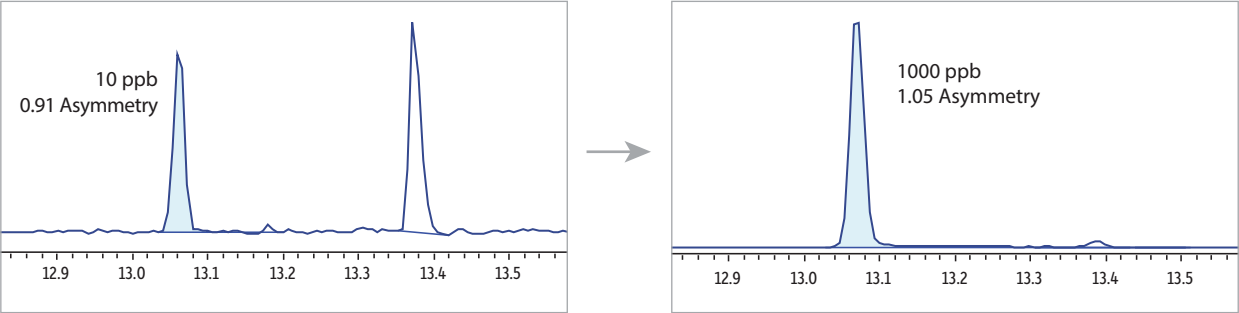


Select EPA 8270E Semivolatiles on RMX-5Sil MS by GC-MS/MS (Shimadzu Chromatogram)

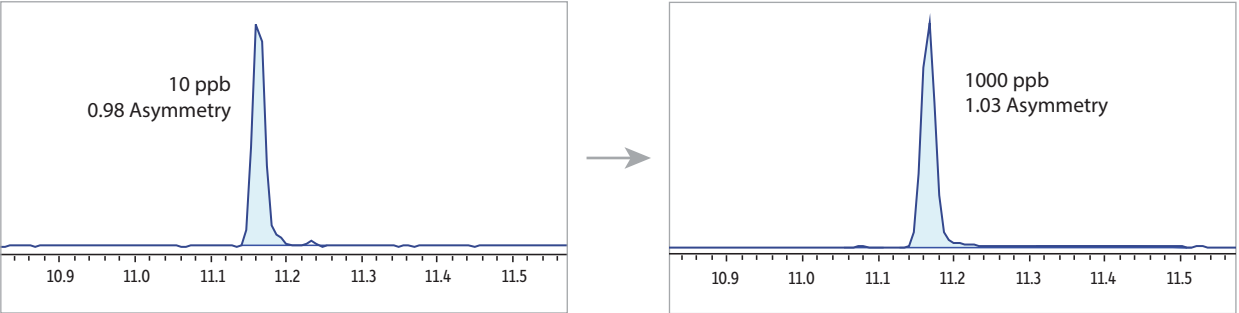
Benzo[b]- and [k]- fluoranthene; 252 --> 250.1 m/z



Benzidine; 184 --> 156.1 m/z



Pentachlorophenol; 265.9 -->166.9 m/z



Time (min)
GC_EV1535

Column RMX-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 17323)
Injection
Inj. Vol.: 1 µL split (split ratio 5:1)
Liner: 3.5 mm Topaz single taper inlet liner w/wool (cat.# 23336)
Inj. Temp.: 275 °C
Oven
Oven Temp.: 40 °C (hold 1.5 min) to 280 °C at 20 °C/min to 320 °C at 5 °C/min (hold 1 min)
Carrier Gas
He, constant flow
Linear Velocity: 39.5 cm/sec @ 40 °C
Detector
Acquisition Type: SRM/MRM
Source Temp.: 230 °C
Transfer Line Temp.: 300 °C
Analyzer Type: Triple Quadrupole
Ionization Mode: EI
Collision Gas: Ar
Tune Type: PFTBA
Tune Emission Current: 60 µA
Notes Shimadzu Nexis GC-2030 with Shimadzu GCMS-TQ8050 NX ultra-fast mass spectrometer with EI source and UFSweeper high-efficiency collision cell
Acknowledgement Shimadzu

Peaks	ts (min)	Transition 1	Collision energy	Transition 2	Collision energy 2
1. Benzidine	13.062	184.00>156.10	24	184.00>167.10	24
2. Benzo[b]fluoranthene	16.691	252.10>250.10	36	250.10>248.10	36
3. Benzo[k]fluoranthene	16.746	252.10>250.10	36	250.10>248.10	36
4. Pentachlorophenol	11.159	265.90>164.90	26	265.90>166.90	26