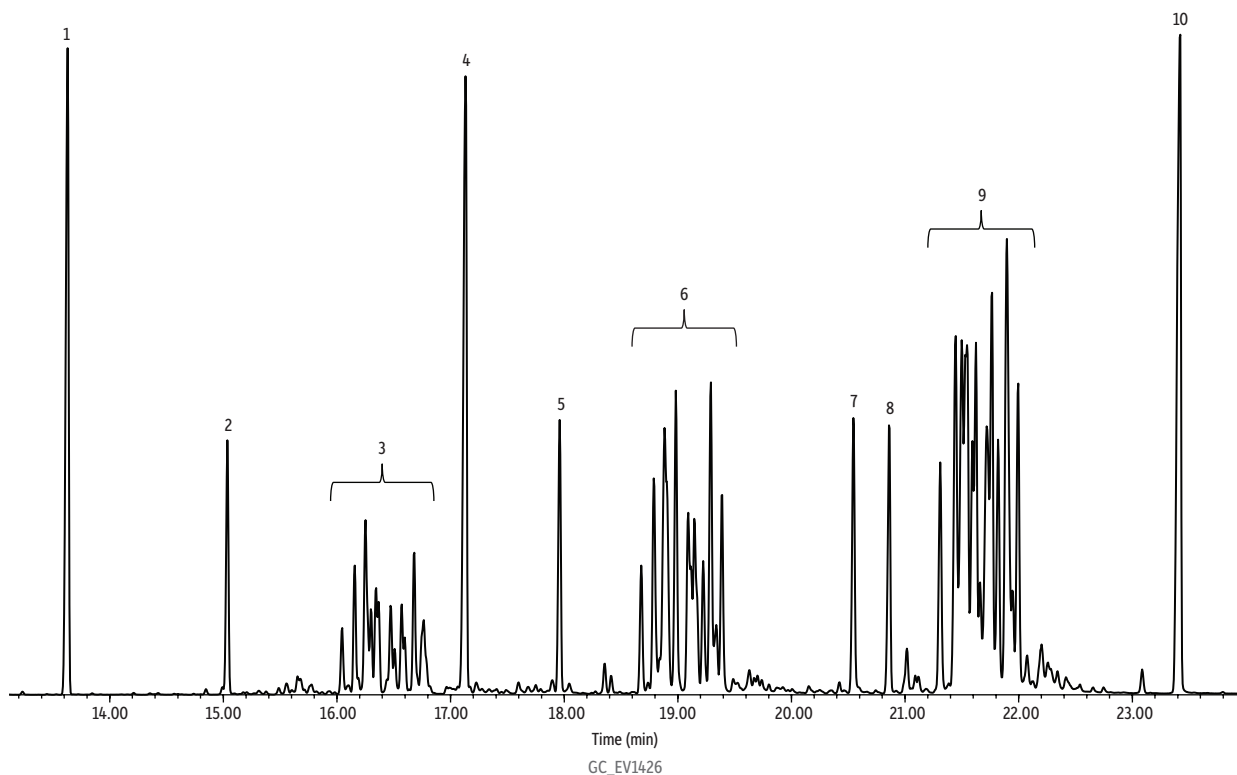


Nonylphenol, Bisphenol A, 4-*tert*-Octylphenol, Nonylphenol Monoethoxylate, and Nonylphenol Diethoxylate on the Rxi®-5Sil MS by ASTM D7065-11 (Constant Flow)



Peaks	t _R (min)	Conc. (µg/mL)	On-Column (ng)
1. Acenaphthene-D10	13.6	25	2.5
2. 4- <i>tert</i> -Octylphenol	15.4	32	3.2
3. Nonylphenol	15.9–17.0	160	16
4. Phenanthrene-D10	17.1	25	2.5
5. 4-Nonylphenol	18.0	32	3.2
6. Nonylphenol monoethoxylate	18.5–20.0	320	32
7. 4-Nonylphenol monoethoxylate	20.5	32	3.2
8. Bisphenol A	20.9	32	3.2
9. Nonylphenol diethoxylate	21.0–22.3	640	64
10. Chrysene-D12	23.4	25	2.5

Column Sample Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
 Method 525.2 internal standard mix (cat.# 31825)
 AccuStandard® nonylphenol calibration standard (cat.# M-1626)
 Dichloromethane

Diluent:
Injection
 Inj. Vol.: 1.0 µL split (split ratio 10:1)
 Liner: Premium 4 mm Precision® liner w/wool (cat.# 23305.5)
 Inj. Temp.: 290 °C

Oven
 Oven Temp.: 50 °C (hold 2 min) to 320 °C at 10 °C/min (hold 5 min)
 Carrier Gas: He, constant flow
 Flow Rate: 1.44 mL/min

Detector
 Mode: Scan
 Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	3.0	45-500	0.8

Transfer Line
 Temp.: 290 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Extractor Lens: 9 mm ID
Source Temp.: 325 °C
Quad Temp.: 150 °C
Solvent Delay
 Time: 3.0 min
Tune Type: DFTPP
Ionization Mode: EI
Instrument
Notes Agilent 7890B GC & 5977A MSD
 The use of constant flow, rather than constant pressure, yields a faster analysis and more constant peak widths throughout the chromatogram.