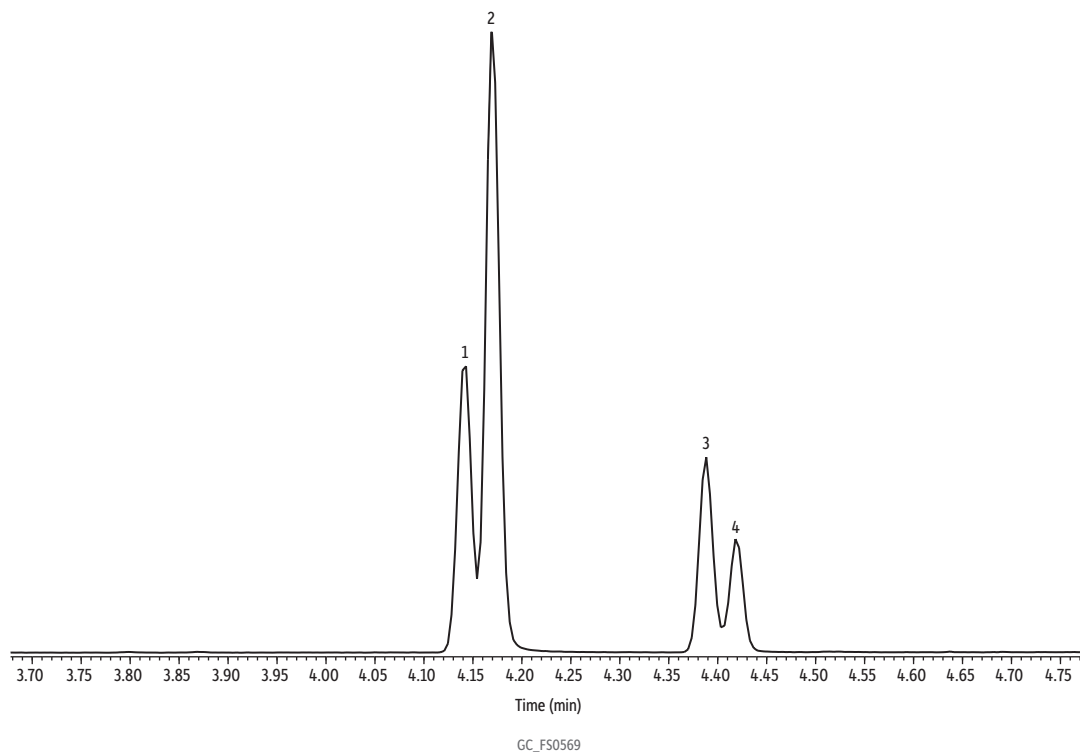


Fast Analysis of 3-MCPD and 2-MCPD on Rxi-17Sil MS



Peaks	Retention Time (min)	Concentration (ng/mL)
1. 3-MCPD-d5 PBA derivative	4.143	100
2. 3-MCPD PBA derivative	4.169	200
3. 2-MCPD-d5 PBA derivative	4.388	100
4. 2-MCPD PBA derivative	4.418	100

Column Rxi-17Sil MS, 20 m, 0.18 mm ID, 0.18 µm (cat.# 14102)
Sample See notes
Diluent: Isooctane
Injection
 Inj. Vol.: 1 µL PTV split (split ratio 10:1)
 Liner: Topaz 2.0 mm ID straight inlet liner w/wool (cat.# 23314)
 Inlet Temp. Program: 120 °C to 165 °C at 300 °C/min (hold 10 min) to 320 °C at 300 °C/min (hold 8 min)
Oven
 Oven Temp.: 120 °C (hold 0.5 min) to 200 °C at 18.5 °C/min to 330 °C at 35 °C/min
Carrier Gas He, constant flow
Flow Rate: 1 mL/min
Detector MS
Mode: SIM
SIM Program: 147, 150, 196, 201 m/z, 50 ms dwell
Transfer Line Temp.: 320 °C
Analyzer Type: Quadrupole
Source Type: Inert
Source Temp.: 230 °C
Quad Temp.: 150 °C
Ionization Mode: EI
Instrument Agilent 7890A GC & 5975C MSD
Notes Standards were derivatized with 20 µL phenylboronic acid (saturated solution in diethyl ether), dried, and then reconstituted in 1 mL isooctane. Final concentrations are given in the peak table.