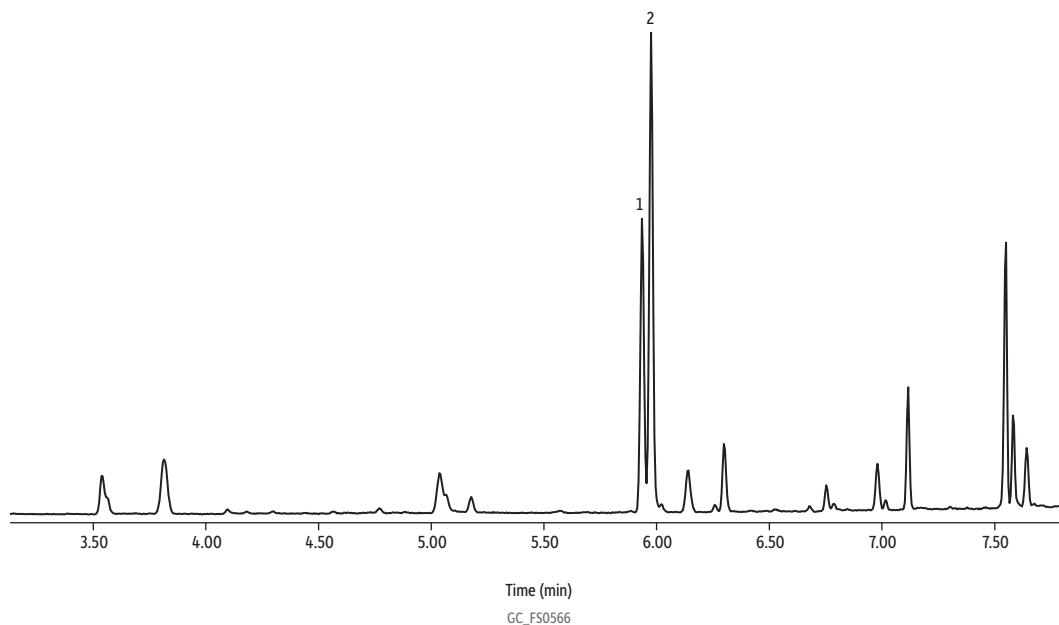


### 3-Monochloropropane-1,2-Diol (3-MCPD) Esters in Olive Oil on Rxi-17Sil MS



Peaks	Retention Time (min)	Concentration (µg/g)
1. 3-MCPD-d5 PBA derivative	5.937	1.81
2. 3-MCPD PBA derivative	5.977	2.94

**Column** Rxi-17Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 14123)  
**Sample** Extracted olive oil  
**Diluent:** Isooctane  
**Injection**  
 Inj. Vol.: 1 µL split (split ratio 10:1)  
 Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)  
 Inj. Temp.: 280 °C  
**Oven**  
 Oven Temp.: 120 °C (hold 0.5 min) to 180 °C at 12 °C/min to 330 °C at 25 °C/min (hold 5 min)  
**Carrier Gas** He, constant flow  
**Flow Rate:** 1.4 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 Temp.:** 230 °C  
**Quad Temp.:** 150 °C  
**Instrument** Agilent 7890A GC & 5975C MSD  
**Notes** The olive oil sample was spiked with 3-MCPD-d5 ester and prepared according to AOCS method Cd 29c-13.