

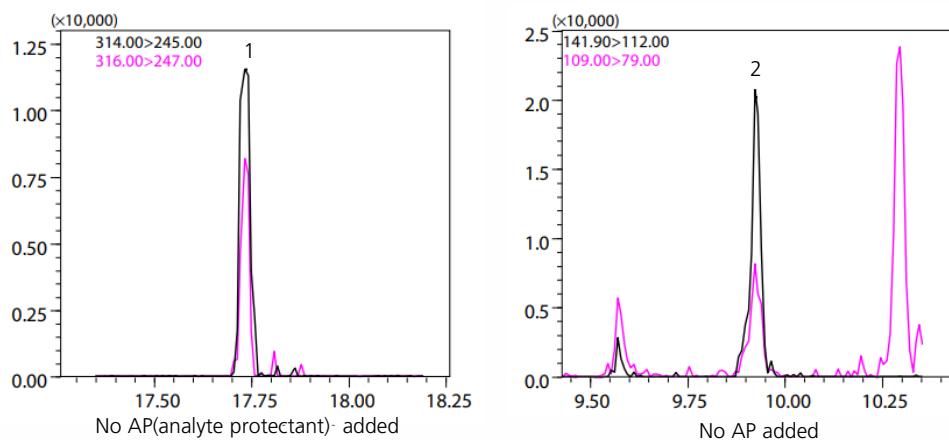
**CoreFocus**  
Report  
No.386

GCMS AOC SH Series

**SH-I-5Sil MS/SH-I Guard column**

**Study of a Method for Coping with Matrix Effects in Pesticide Residue Analysis**

**Keywords: Pseudo-Matrix**



**Instrument Used**

GCMS : GCMS-TQ™ 8050  
 Autosampler : AOC-20i+s  
 Column : SH-I-5Sil MS (30 m x 0.25 mm I.D., 0.25 µm)  
 P/N : 221-76127-30  
 Pre-column : SH-I Guard column (1.5 m x 0.25 mm I.D.)  
 \*P/N : 227-36303-01  
 Insert liner : Topaz®liner, splitless single taper w/wool

**GC Conditions (AP added)**

Vaporizing chamber temp. : 250 °C  
 Injection volume : 2 µL  
 Injection mode : Splitless  
 Carrier gas control : Linear speed (44.1 cm/s)  
 Column oven temp. : 105 °C (3 min) - (10 °C /min) - 130 °C - (4 °C /min) - 200 °C - (8 °C /min) - 290 °C (6 min)

**GC Conditions (PEG added)**

Vaporizing chamber temp. : 250 °C  
 Injection volume : 2 µL  
 Injection mode : Splitless  
 Carrier gas control : Linear speed (47.2 cm/s)  
 Column oven temp. : 50 °C (1 min) - (25 °C /min) - 125 °C - (10 °C /min) - 300 °C (15 min)

**MS Conditions**

Interface temp. : 250 °C  
 Ion source temp. : 230 °C  
 Ionization method : EI  
 Measurement mode : MRM  
 Event time : 0.3 s  
 Loop time : 0.5 s

\*P/N : 227-36303-01 (5 m, 0.25mm ID) was cut to 1.5m and used it in 1.5m.

Source : Application News M279 ([JP](#), [ENG](#))

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