

CoreFocus
Report
No.386

GCMS

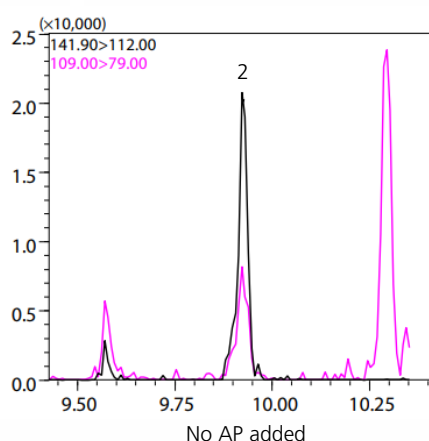
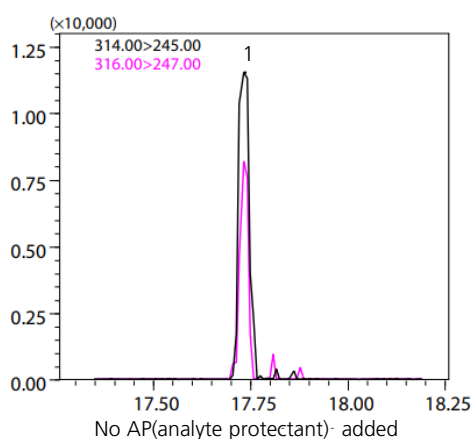
AOC

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



1. Iprodione
2. Demeton-S-methyl (5ppb each)

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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