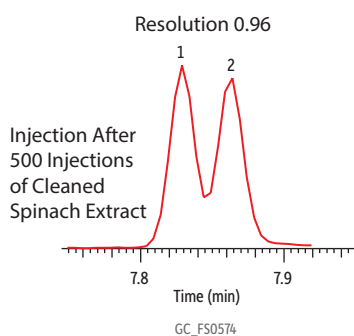
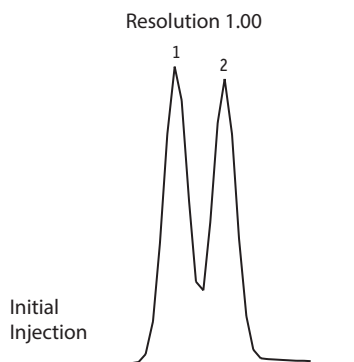


Permethrins Resolution Stability on Low-Pressure GC Column Kit (500 Injections, Spinach Matrix)



Peaks	tr (min)	Conc. (ng/mL)	Parent Ion	Product Ion	Collision Energy
1. <i>cis</i> -Permethrin	7.82	90	183	153	12
2. <i>trans</i> -Permethrin	7.86	90	183	153	12

Column	Low-pressure GC column kit (factory-coupled restrictor column [5 m x 0.18 mm ID] and Rtx-5ms analytical column [15 m, 0.53 mm ID, 1 µm plus 1 m integrated transfer line on the outlet end]) (cat.# 11800)
Standard/Sample	QuEChERS performance standards kit (cat.# 31152)
Diluent:	Acetonitrile
Conc.:	9 µg/mL
Injection	
Inj. Vol.:	1 µL split (split ratio 100:1)
Liner:	Topaz 4.0 mm ID single taper inlet liner w/ wool (cat.# 23447)
Inj. Temp.:	250 °C
Oven	
Oven Temp.:	70 °C (hold 1 min) to 320 °C at 35 °C/min (hold 5 min)
Carrier Gas	He, constant flow
Flow Rate:	2 mL/min
Detector	TSQ 8000
Transfer Line Temp.:	290 °C
Analyzer Type:	Quadrupole
Source Temp.:	325 °C
Solvent Delay Time:	2 min
Instrument	Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS
Sample Preparation	The spinach matrix was prepared from 10 g of homogenized spinach extracted with QuEChERS EN salts (cat.# 25849) and cleaned up with dSPE containing magnesium sulfate, PSA, C18-EC, and GCB (cat.# 26219). The matrix extract was then spiked with 30 µL of each of the QuEChERS performance mixes for a final concentration of 9 ppm, and the internal standard triphenyl phosphate (TPP) was added at a final concentration of 10 ppm.
Notes	Between the first and last run, 500 injections of spinach extract spiked with internal standard (TTP) were made.