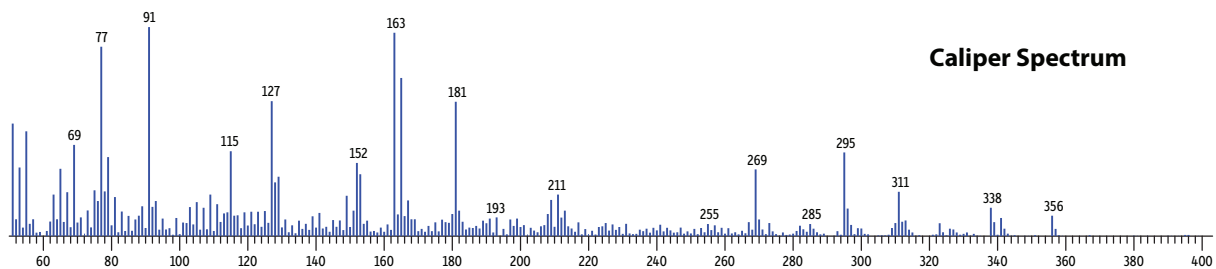
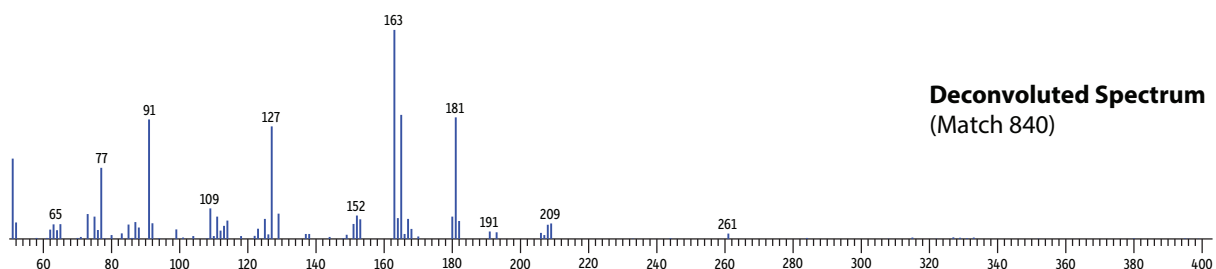


Sample and Reference Mass Spectra for Incurred Cypermethrin in a QuEChERS Extract of Marijuana by GCxGC on Rxi®-5Sil MS and Rtx®-200

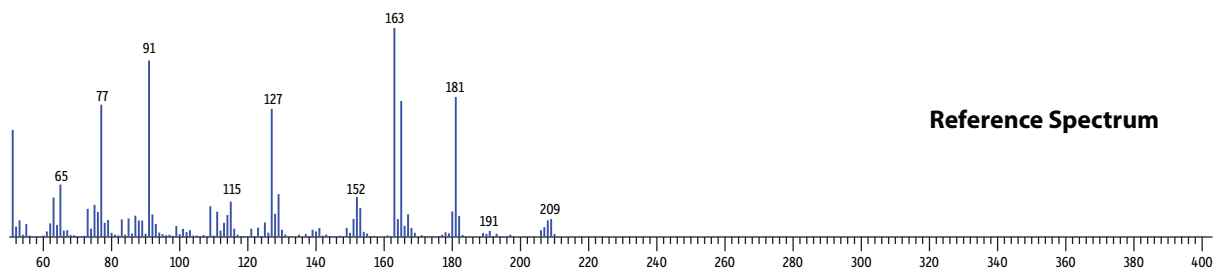
Peaks	t _R 1 (sec)	t _R 2 (sec)
1. Cypermethrin 2	2,304	1.54



Caliper Spectrum



Deconvoluted Spectrum (Match 840)



Reference Spectrum

GC_FF1206

Column Rxi®-5Sil MS 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Rtx®-200 1.3 m, 0.25 mm ID, 0.25 µm (cat.# 15020)

Sample
Diluent: Toluene
Injection: 1 µL splitless (hold 1 min)
Inj. Vol.: Premium 4 mm ID single taper/gooseneck inlet liner w/wool (cat.# 23303.1)
Liner: 250 °C
Inj. Temp.: 40 mL/min
Purge Flow:

Oven
Oven Temp: Rxi®-5Sil MS: 80 °C (hold 1 min) to 310 °C at 5 °C/min
Rtx®-200: 85 °C (hold 1 min) to 315 °C at 5 °C/min
He, corrected constant flow (2 mL/min)

Carrier Gas
Modulation
Modulator Temp. Offset: 20 °C
Second Dimension Separation Time: 3 sec
Hot Pulse Time: 0.9 sec

Cool Time between Stages: 0.6 sec
Detector TOFMS
Transfer Line Temp.: 290 °C
Analyzer Type: TOF
Source Temp.: 225 °C
Electron Energy: 70 eV
Mass Defect: -20 mu/100 u
Solvent Delay Time: 5 min
Tune Type: PFTBA
Ionization Mode: EI
Acquisition Range: 45-550 amu
Spectral Acquisition Rate: 100 spectra/sec
Instrument LECO Pegasus® 4D GCxGC-TOFMS
Notes Rtx®-200 (cat.# 15020) is a 15 m column. A 1.3 m section was used as the second dimension column.