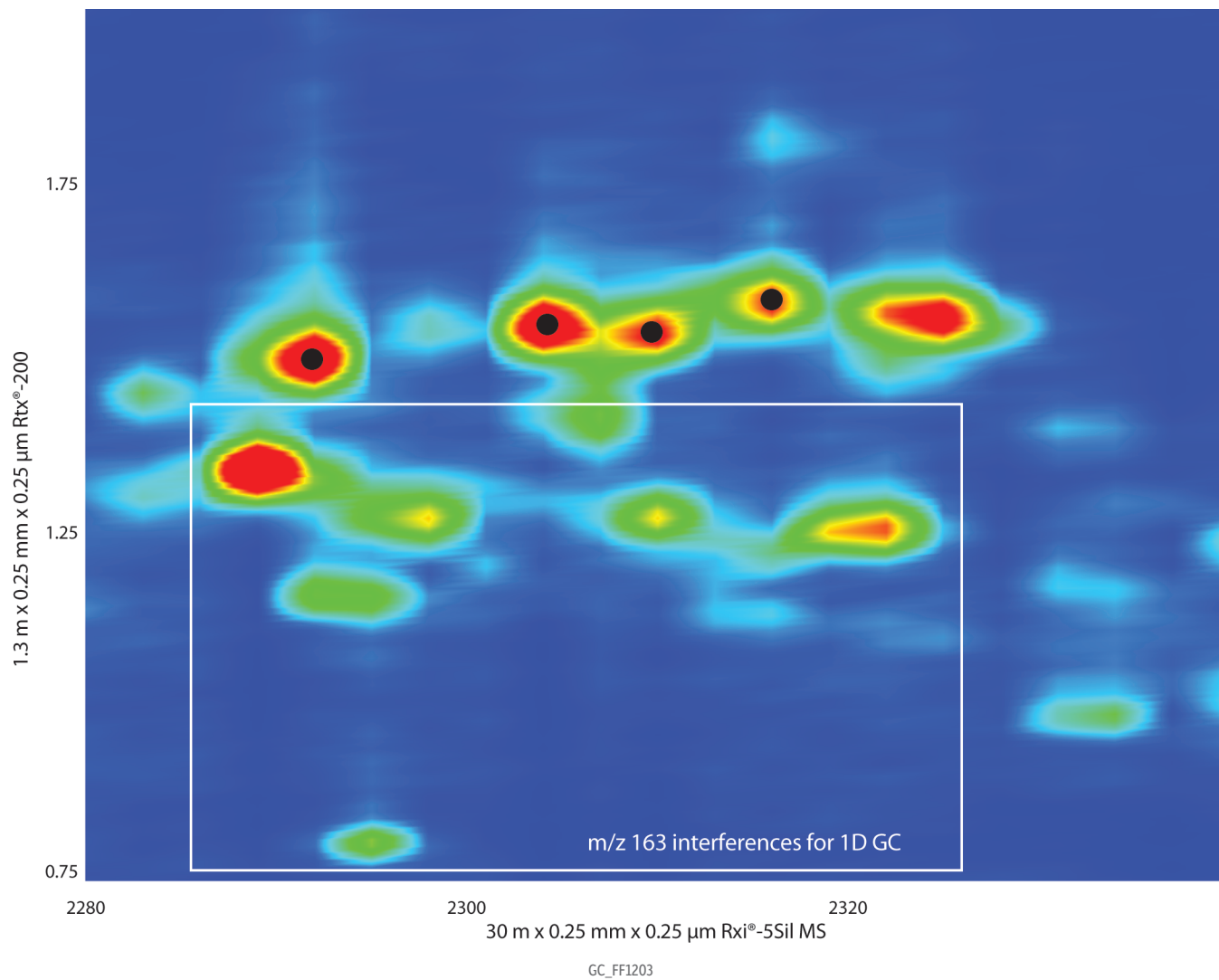


Incurred Cypermethrins in a QuEChERS Extract of Marijuana by GCxGC on Rxi-5Sil MS and Rtx-200

Peaks	RT 1 (sec.)	RT 2 (sec.)
1. Cypermethrin 1	2292	1.50
2. Cypermethrin 2	2304	1.54
3. Cypermethrin 3	2310	1.53
4. Cypermethrin 4	2313	1.58



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
Inj. Vol.: 1 µL splitless (hold 1 min.)
Liner: Premium 4mm Single Taper w/Wool (cat.# 23303)
Inj. Temp.: 250 °C
Purge Flow: 40 mL/min.

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
Transfer Line Temp.: 290 °C
Analyzer Type: TOFMS
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.