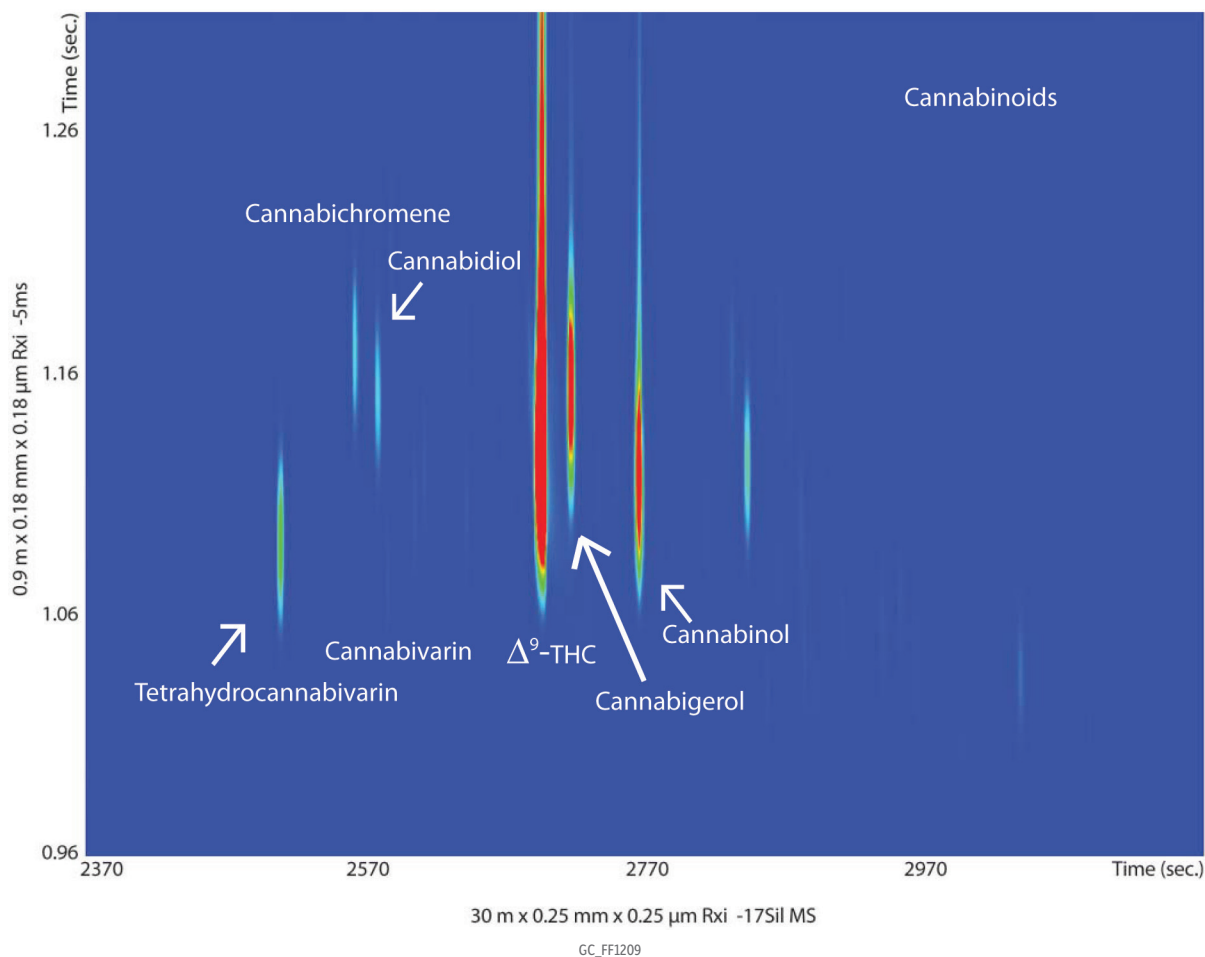


QuEChERS Extract of Cannabis on Rxi-17Sil MS and Rxi-5ms by GCxGC-TOFMS (Zoomed in on cannabinoids region)



Column
 Rxi-17Sil MS 30 m, 0.25 mm ID, 0.25 μm (cat.# 14123)
 Rxi-5ms 0.9 m, 0.18 mm ID, 0.18 μm

Injection
 Inj. Vol.: 1 μL split (split ratio 20:1)
 Liner: Premium 4 mm Precision inlet liner w/wool (cat.# 23305.1)
 Inj. Temp.: 275 °C

Oven
 Oven Temp: Rxi-17Sil MS: 40 °C (hold 1 min) to 320 °C at 5 °C/min (hold 3 min)
 Rxi-5ms: 45 °C (hold 1 min) to 325 °C at 5 °C/min (hold 3 min)
 He, corrected constant flow (2 mL/min)

Carrier Gas Modulation
 Modulator Temp. Offset: 20 °C
 Second Dimension Separation Time: 2 sec
 Hot Pulse Time: 0.6 sec
 Cool Time between Stages: 0.4 sec

Detector
 Transfer Line Temp.: 310 °C
 Analyzer Type: TOF
 Source Temp.: 250 °C
 Electron Energy: 70 eV
 Mass Defect: -20 mu/100 u
 Solvent Delay Time: 4.5 min
 Tune Type: PFTBA
 Ionization Mode: EI
 Acquisition Range: 45-500 amu
 Spectral Acquisition Rate: 200 spectra/sec

Instrument
 LECO Pegasus 4D GCxGC-TOFMS

Sample Preparation
 Sample: Up to 2 g of finely ground cannabis in a 50 mL polypropylene centrifuge tube.

Extraction: Add 10 mL acetonitrile and 10 mL of organic-free water, then shake thoroughly. Soak 1 hour, then aggressively vortex 30 minutes. Add Q-sep packet (cat.# 26235), shake 1 minute, then centrifuge 5 minutes at 3000 g with Q-sep 3000 centrifuge (cat.# 26230).