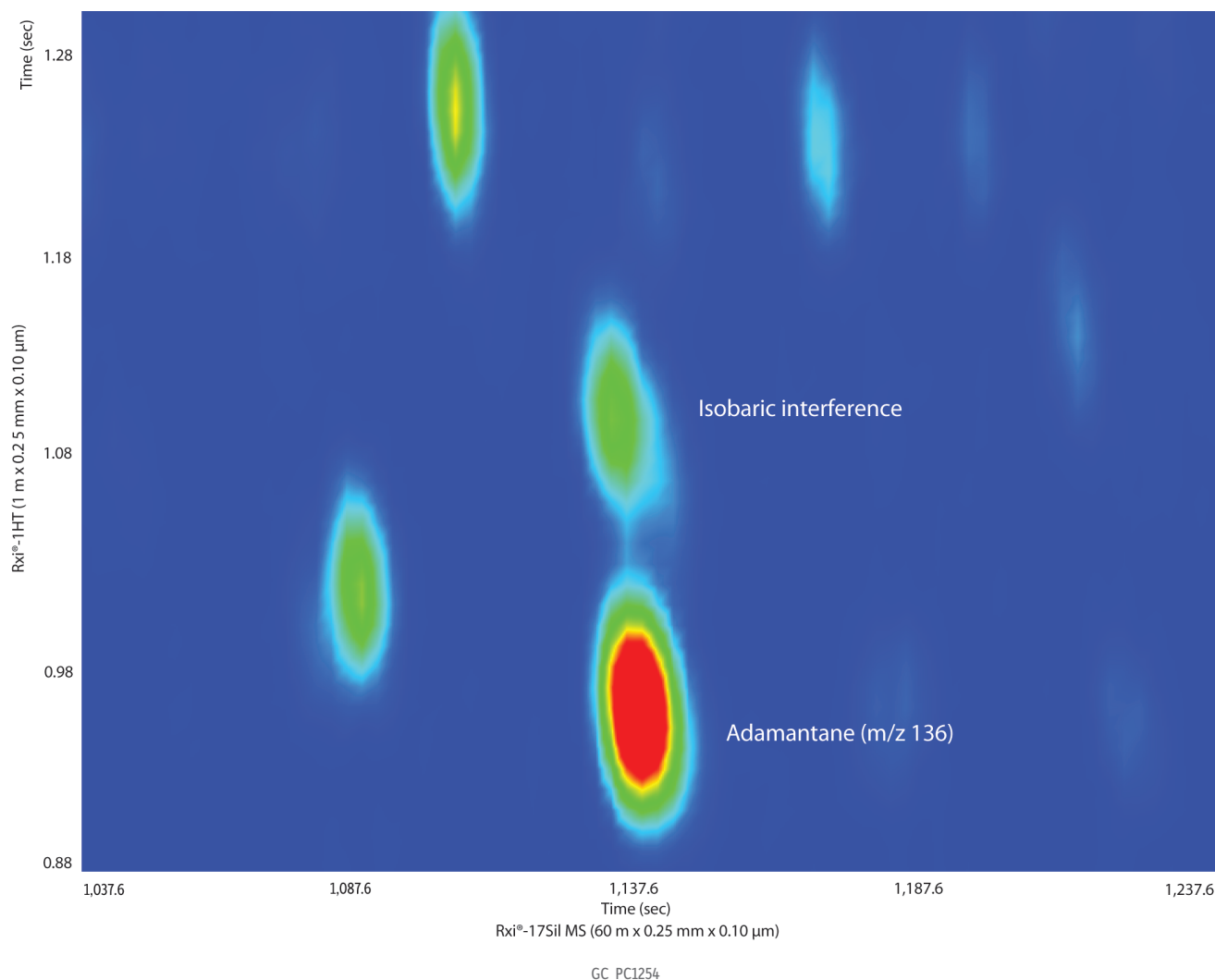


Separation of Adamantane from Isobaric Interference on Rxi17Sil MS and Rxi-1HT (GCxGC-TOFMS, m/z 136)



Column	Rxi-17Sil MS 60 m, 0.25 mm ID, 0.10 μm (cat.# custom) Rxi-1HT 1 m, 0.25 mm ID, 0.10 μm (cat.# 13950)	Modulation	Modulator Temp. Offset: 20 °C
Sample	Riser pipe oil from Deepwater Horizon oil spill SV internal standard mix (5 ng/μL) (cat.# 31206)	Second Dimension	Separation Time: 2.8 sec
Diluent:	Methylene chloride	Hot Pulse Time:	1.0 sec
Conc.:	10 mg/mL	Cool Time between	Stages: 0.4 sec
Injection		Detector	MS
Inj. Vol.:	1.0 μL split (split ratio 10:1)	Mode:	
Liner:	Premium 4 mm Precision liner w/wool (cat.# 23305)	Transfer Line Temp.:	300 °C
Inj. Temp.:	275 °C	Analyzer Type:	TOF
Oven		Source Temp.:	250 °C
Oven Temp.:	Rxi-17Sil MS: 40 °C (hold 1 min) to 320 °C at 2.5 °C/min (hold 7 min) Rxi-1HT: 45 °C (hold 1 min) to 325 °C at 2.5 °C/min (hold 7 min)	Electron Energy:	-70 eV
Carrier Gas	He, corrected constant flow (1 mL/min)	Mass Defect:	100 mu/100 u
		Ionization Mode:	EI
		Acquisition Range:	45 to 550 amu
		Spectral Acquisition	Rate: 100 spectra/sec
		Instrument	LECO Pegasus 4D GCxGC-TOFMS