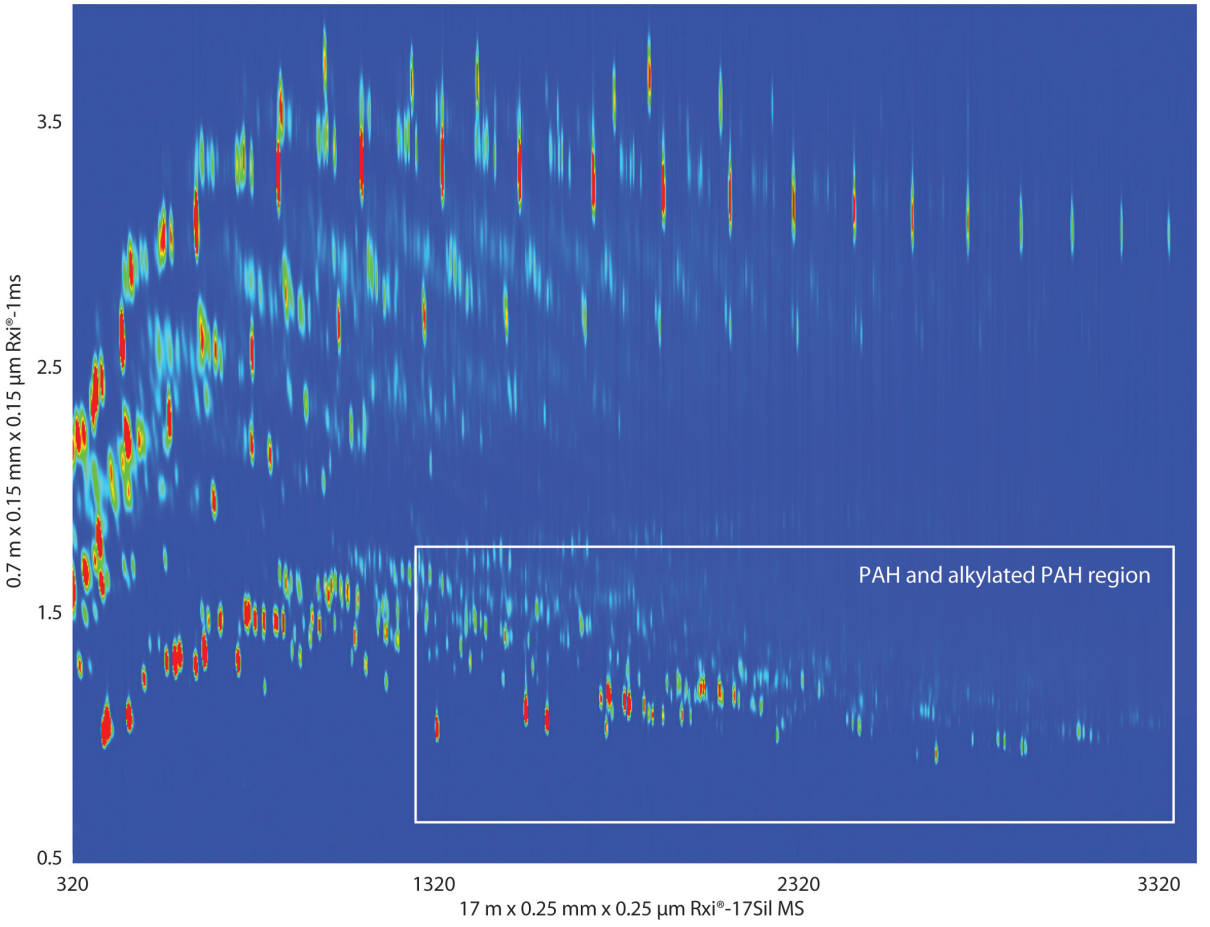
GCxGC Contour Plot of Riser Pipe Oil in 2010 Gulf Oil Spill (Rxi®-17Sil MS and Rxi®-1ms)



GC_EV1229

Column	Rxi®-17Sil MS 30 m, 0.25 mm ID, 0.25 µm (cat.# 14123) Rxi®-1ms 1.2 m, 0.15 mm ID, 0.15 µm (cat.# 43800)
Sample	
Diluent:	Methylene chloride
Injection	
Inj. Vol.:	1 µL splitless (hold 1 min)
Liner:	Premium 4mm Single Taper w/Wool (cat.# 23303.1)
Inj. Temp.:	250 °C
Purge Flow:	40 mL/min
Oven	
Oven Temp.:	Rxi®-17Sil MS: 40 °C (hold 1 min) to 320 °C at 3.5 °C/min (hold 4 min) Rxi®-1ms: 45 °C (hold 1 min) to 325 °C at 3.5 °C/min (hold 4 min)
Carrier Gas	He, corrected constant flow (2.2 mL/min)
Modulation	
Modulator Temp. Offset:	20 °C
Second Dimension Separation Time:	4 sec
Hot Pulse Time:	1.4 sec
Cool Time between Stages:	0.6 sec

Detector	TOFMS
Transfer Line Temp.:	300 °C
Analyzer Type:	TOF
Source Temp.:	250 °C
Electron Energy:	70 eV
Mass Defect:	50 mu/100 u
Solvent Delay Time:	5 min
Tune Type:	PFTBA
Ionization Mode:	EI
Acquisition Range:	45-550 amu
Spectral Acquisition Rate:	200 spectra/sec
Instrument	LECO Pegasus 4D GCxGC-TOFMS
Notes	Rxi®-1ms (cat.# 43800) is a 10 m column. A 1.2 m section was used as the second dimension column.
Acknowledgement	Dr. Ed Overton, Professor Emeritus at Louisiana State University, for providing the riser pipe oil sample.

Restek Corporation 110 Benner Circle Bellefonte, PA 16823
814-353-1300 • 800-356-1688 • Fax: 814-353-1309 • www.restek.com