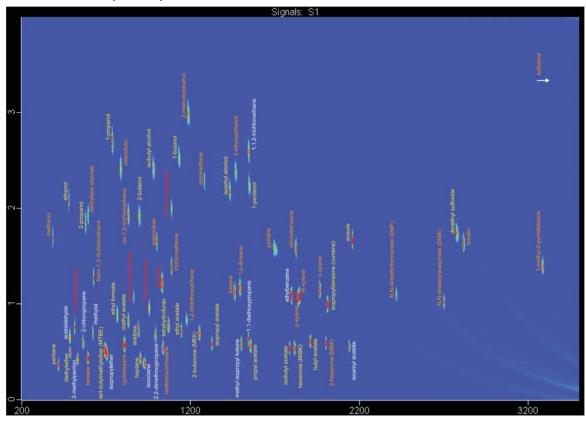
Organic Volatile Impurities Rtx®-200 & Rtx®-WAX (GCxGC)



GC PH00888

Columns: Rtx®-200, 60m, 0.25mm ID, 1.0µm (cat.# 15056)

Rtx®-Wax, 2m, 0.18mm ID, 0.3µm (custom) 0.2µL mix of 69 neat organic volatile impurities Agilent 6890 with LECO liquid nitrogen cryojet modulator Sample:

Instrument: Inj.:

split/splitless, split ratio 600:1; gas saver: 20mL/min. after 1 min.;

4mm ID split inlet liner w/wool (cat.# 20781); injection with band formation (fast injection)

Inj. temp.:

Carrier gas: helium, constant flow

hentini, Constant now
1.5ml/min.

Rtx*-200: 35°C (9 min.) to 220°C @ 3°C/min. (hold 1 min.);

Rtx*-Wax: 65°C (9 min.) to 250°C @ 3°C/min. (hold 1 min.)

modulator offset: 30°C; 2nd dimension separation: 4 sec.; hot pulse: 0.3 sec.;

cool between stages: 1.7 sec. Oven temp.:

Modulation:

Det: FID @ 250°C; hydrogen: 40mL/min.; air: 450mL/min.; make-up gas: 45mL/min.; sampling rate: 200Hz

did you **know**?

GCxGC Separations

Separation of the complete list of International Conference on Harmonization Class 1, Class 2, and Class 3 organic volatiles requires at least two, and often three, separate analyses on differing capillary GC columns. While many laboratories do not monitor for the complete list, separation of OVIs still is a challenge, often characterized by long run times and incomplete separations.

Using comprehensive GCxGC, it is possible to resolve all of these target compounds, in a single analysis, with less than a 1-hour run time. In this approach, two columns of differing selectivity are used to separate the compounds in a 2-dimensional plot, as shown above. Various detectors also can be employed, including time-of-flight mass spectrometry, to yield reliable information for the entire target compound list in a single analysis.

For more about GCxGC, visit our website and search for GCxGC.



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