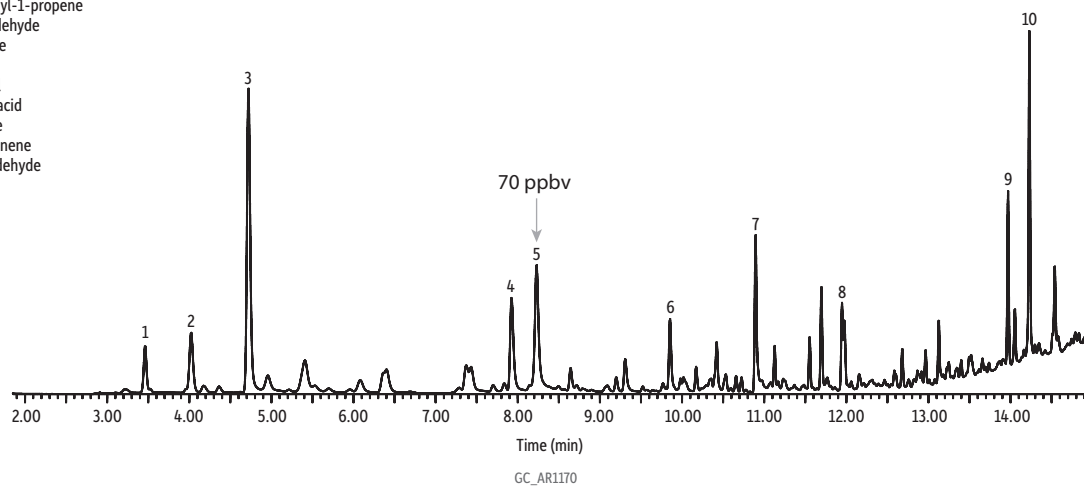


16-Hr Laboratory Air Sample with radiello 145

Peaks

1. Propene
2. 2-Methyl-1-propene
3. Acetaldehyde
4. Acetone
5. Hexane
6. Butanal
7. Acetic acid
8. Toluene
9. D-Limonene
10. Benzaldehyde



Column Rtx-VMS, 60 m, 0.25 mm ID, 1.40 μ m (cat.# 19916)
with MXT low-dead-volume connector (cat.# 20536)
Standard/Sample Laboratory air sample
Injection on-column
Oven
Oven Temp.: 40 °C (hold 7 min) to 250 °C at 30 °C/min (hold 2 min)
Carrier Gas He, constant flow
Flow Rate: 2.0 mL/min
Detector MS
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
2	8.80	38	226

Transfer Line Temp.: 250 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Extractor Lens: 6 mm ID
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 70 eV
Tune Type: BFB
Ionization Mode: EI
Preconcentrator Markes Unity

Trap 1 Settings
Type/Sorbent: radiello 145
Desorb temp.: 350 °C
Desorb flow: 50 mL/min
Desorb time: 300 sec

Trap 2 Settings
Type/Sorbent: Air Toxics
Cooling temp.: 30 °C
Desorb temp.: 310 °C
Desorb time: 3 sec

Instrument Agilent 7890B GC & 5977A MSD

Sample Preparation The radiello 145 passive air sampler (RAD145) utilizes a stainless steel net cartridge packed with 350 mg of graphitized charcoal (Carbograph 4). Airborne volatile organic compounds (VOCs) were adsorbed to the charcoal and then thermally desorbed and analyzed by GC-MS.

Trap 1 conditions were used for radiello desorption. Trap 2 conditions were used for Unity desorption.