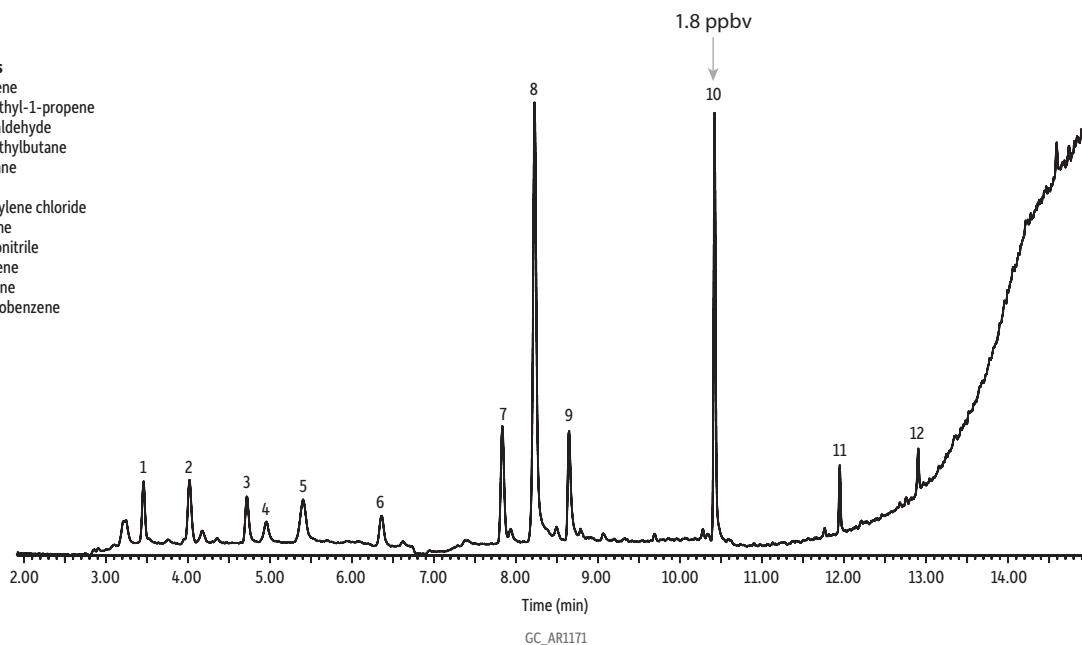


## 4-hr Shipping Facility Air Sample with radiello 145

- Peaks**
1. Propene
  2. 2-Methyl-1-propene
  3. Acetaldehyde
  4. 2-Methylbutane
  5. Pentane
  6. Furan
  7. Methylene chloride
  8. Hexane
  9. Acetonitrile
  10. Benzene
  11. Toluene
  12. Chlorobenzene



**Column** Rtx-VMS, 60 m, 0.25 mm ID, 1.40  $\mu$ m (cat.# 19916)  
with MXT low-dead-volume connector (cat.# 20536)

**Sample** Shipping facility 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

**Notes** 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.