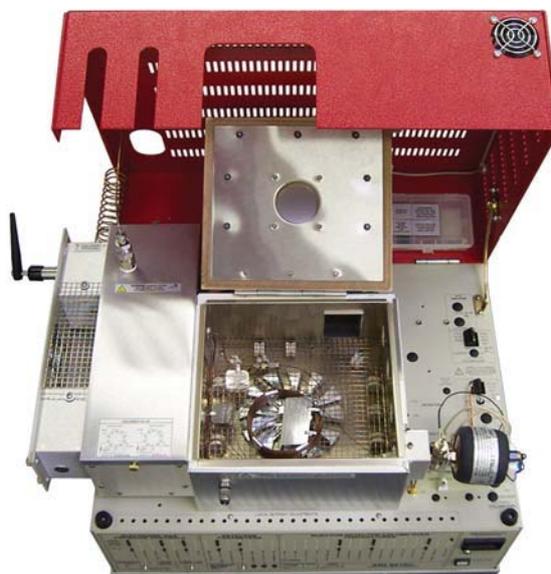


# Environmental & BTEX GC Systems

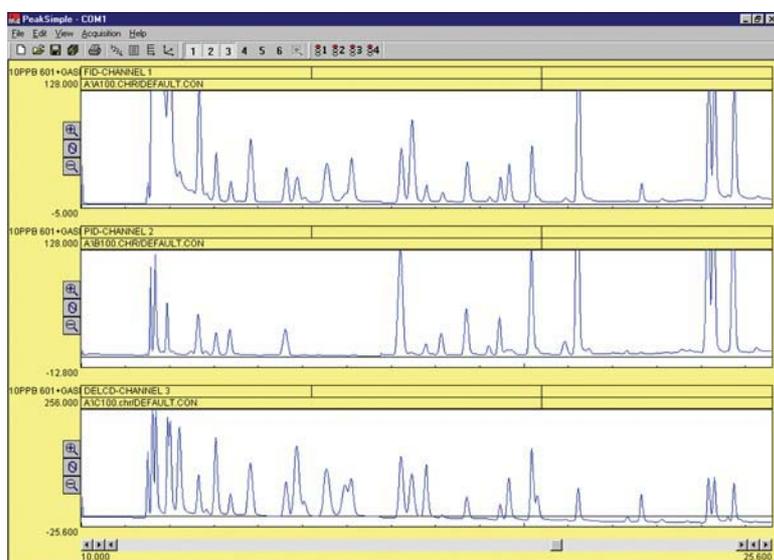
- **PID Detector**
- **FID/DELCD Combination Detector**
- **Built-in Method 5030 or 5030/5035 compliant Purge & Trap**
- **Built-in, "whisper quiet" Air Compressor**
- **4 channel PeakSimple Data System**
- **60 meter Capillary Column**
- **...on the compact 8610C chassis**

## Optional Equipment:

- Thermal Desorber for semivolatiles
- An additional gas sampling valve
- A vacuum pump interface for air sampling
- Additional detectors

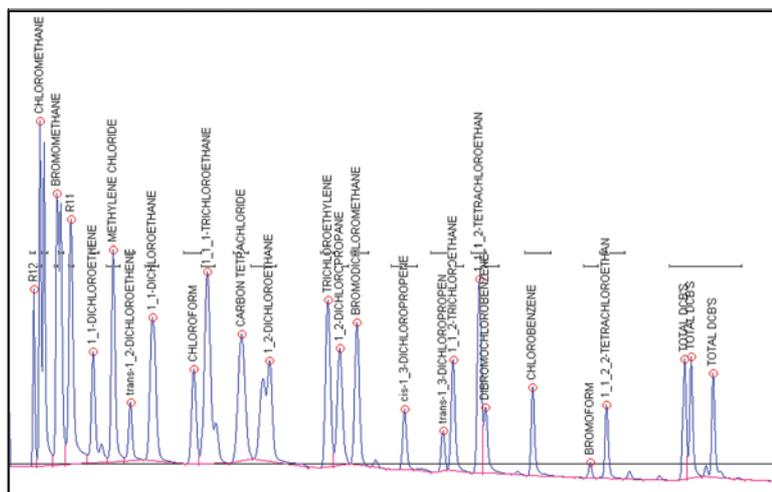


For laboratory or mobile field testing where space and versatility are critical, choose the Environmental GC system. Equipped with Method 5030 or 5030/5035 compliant Purge & Trap, PID and FID/DELCD detectors, it will easily generate certification quality data for EPA Methods 8021, 8010, 8015, TO-14 and many others. With the optional thermal desorber, you can quickly screen for pesticides, PCBs, diesel and other semivolatiles. The standard on-column injection port allows for syringe injection and a second injector may be installed if desired. For users who do not need the chlorine/bromine selective DELCD detector, the same GC configuration minus the DELCD is available as the BTEX GC.

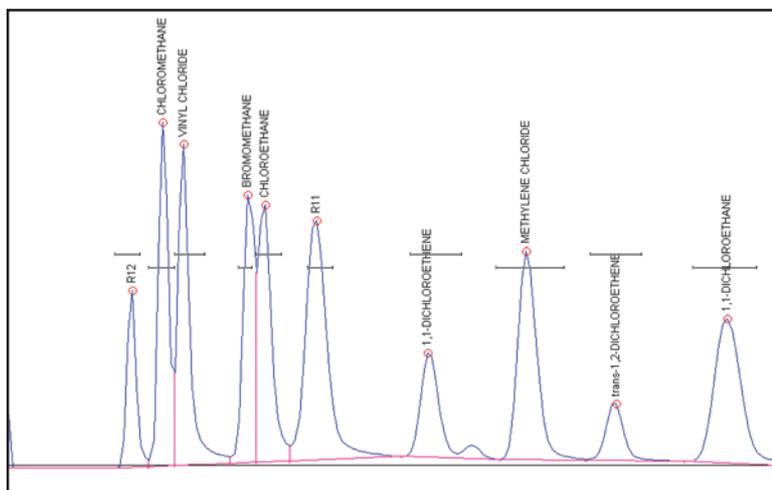


These three chromatograms are from an analysis of Method 8021 standard plus gases on an SRI Environmental GC system. Peak identities can be confirmed by comparing the results from the three different detectors. Peaks which often coelute, such as benzene and carbon tetrachloride, can still be measured since the PID responds only to the benzene, while the DELCD only responds to the carbon tetrachloride.

# Environmental & BTEX GC Systems



The DELCD chromatogram is shown at left in more detail and with the peaks labeled for identification. The DELCD is completely selective for compounds containing chlorine and/or bromine. Other analytes do not respond at all, even at very high levels. The DELCD actually operates on the FID's exhaust gases; therefore, all contaminants are precombusted by the FID to CO<sub>2</sub> and H<sub>2</sub>O.



The first few peaks in the 8021 standard, including vinyl chloride, are of special interest to many analysts. The chromatogram to the left shows the expanded detail of the first few peaks in the analysis (the VOC gases). Note the exceptionally good resolution and peak shape delivered by the SRI system with its dual trap technology.

Please see pages 76-77 for more information on the Method 5030/5035 Purge & Trap.

**8610-0059 Environmental GC System**

**8610-0050 BTEX GC: same as the Environmental GC, but with PID and FID detectors only (no DELCD detector)**

**8690-5052 Upgrade to Method 5030/5035 compliant Purge & Trap**



OPTIONS & UPGRADES: Thermal Desorber, split/splitless and PTV injectors, 6 channel USB data system, NPD detector, additional column(s), autosampler  
(VOLTAGE: for 110VAC, use "part number-1" [ex: 8610-0059-1] for 220VAC, use "part number-2")