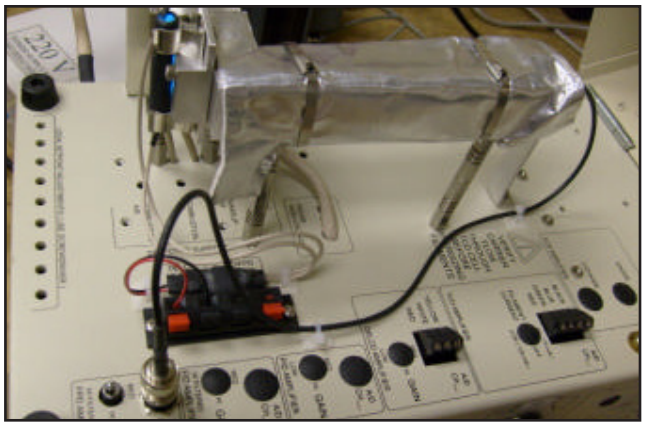
ASD - Aromatic Selective Detector

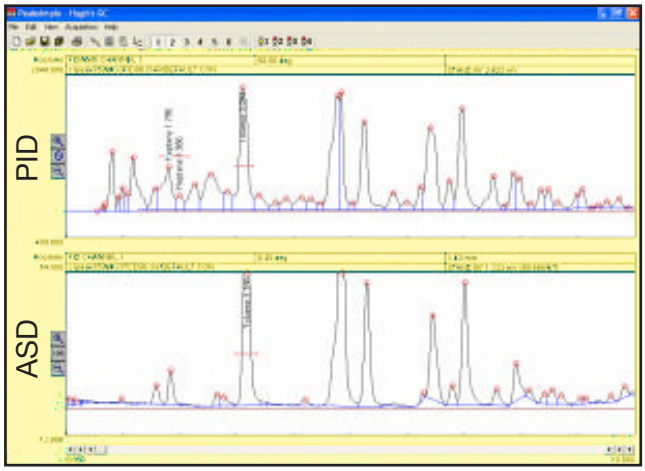
- **Heated to permit use with a GC and semi-volitile analystes such as gasoline and diesel**
- **Detects down to 100ppm**
- **Conversion of transmittance to absorbance is done with the PeakSimple Software**



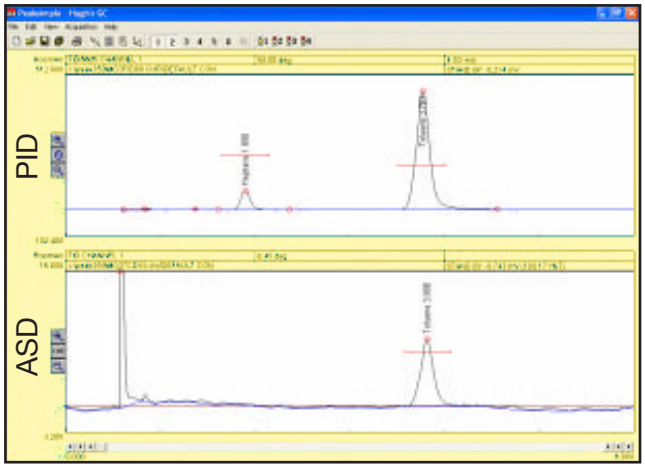
The SRI Aromatic Selective Detector (ASD) is useful for the detection of aromatic compounds like benzene and toluene even in the presence of interfering molecules like gasoline.

The ASD consists of a 15cm long heated tube with a mercury lamp mounted at one end and a photodiode at the other. It can be mounted on an SRI GC or on the separate Model 110 chassis which is then connected to any GC. The ASD detects only those molecules which absorb the 254nm wavelength produced by the mercury lamp. Aromatic compounds such as Benzene and Toluene absorb strongly at this wavelength while aliphatic compounds such as Hexane and Heptane do not.

This chromatogram shows the comparative response of the PID and ASD to .2µl gasoline. The PID detects all the gasoline compounds while the ASD detects only the aromatics.



Notice the comparative chromatograms here showing the response of the PID and ASD detectors plumbed in series to an injection of 1000ppm each Heptan and Toluene. The ASD shows no response to the Heptane but good response to the Toluene.



8690-0006	**ASD detector**