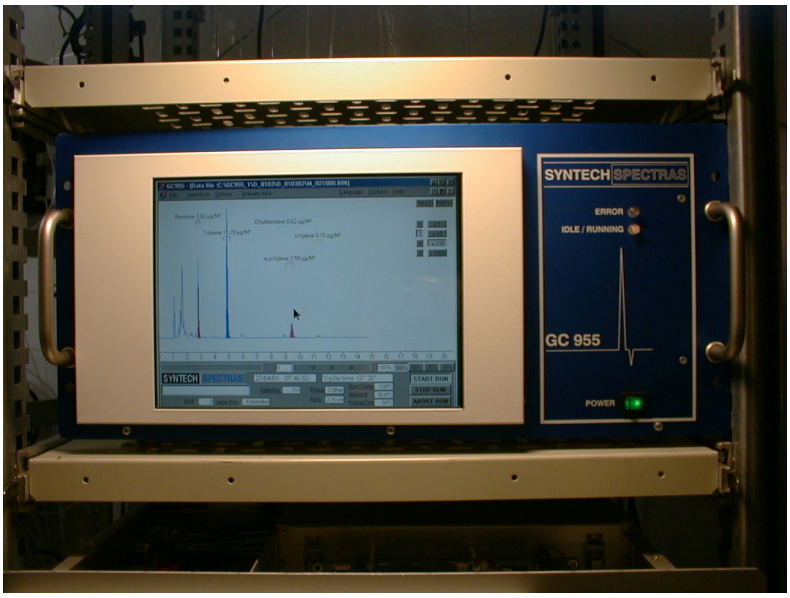
The Syntech Spectras GC955 series 600 C6-C10 analyser

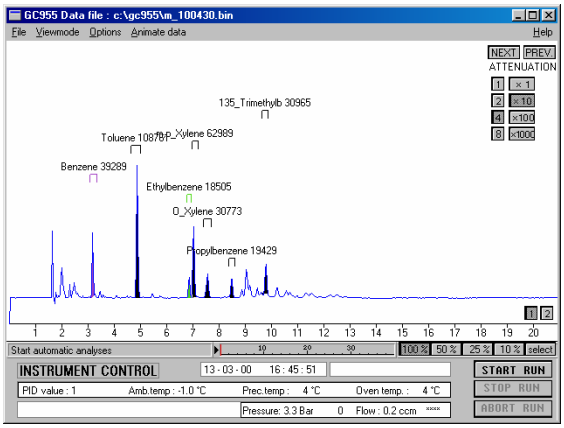
The Syntech Spectras GC955 series 600 C6-C10 analyser is built for the measurement of high boiling hydrocarbons in ambient air.
For research in the ozone problematic the monitoring of high boiling hydrocarbons is important. (A complete installation consists of 2 instruments, a C2-C5 monitor is added.)
The instrument can also be used for the monitoring of BTX, benzene, toluene and xylenes.
The Syntech Spectras machines are built by specialists in the ambient air monitoring: small adaptations to your needs can be made at low costs, calibrations are made according to the customers' specified range.



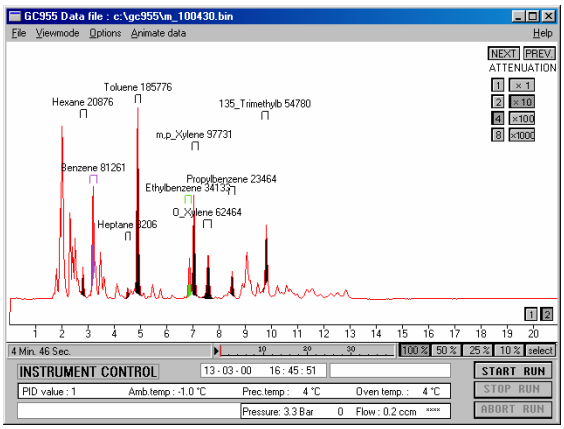
The instrument is a gaschromatograph with a built-in preconcentration system. Hydrocarbons are preconcentrated on Tenax GR, desorbed thermically and separated on an EPA624 equivalent column, to reach optimal separation from interfering hydrocarbons. Analysis is done by a photo ionisation detector and a flame ionisation detector. This ensures high sensitivity and good identification. (For use as a BTX monitor a photo ionisation detector is sufficient, so a cheaper GC855 can be used).

In the GC a standard industrial PC with Windows is used. This means that the whole PC structure is available to handle also the results of measurements: data are interpreted and saved on the internal hard disk. Data can also be transferred by network and modem connection. Besides this, analog and digital output options are available to communicate with other data logging systems using several data protocols.

Simple operation, good reliability and low maintenance cost are important to us. With a network of distributors in Europe and beyond you can be sure that your instrument comes complete with an individualised training and that support is available to help if you do encounter problems.



Chromatogram of a measurement of C6 to C10, PID



Chromatogram of a measurement of C6 to C10, FID

615 Ozone precursors fraction C6-C10	PID and /or FID detector. Lowest detection level for benzene 0.4 $\mu g/m^3$ (0.15 vppb). Range: up to 300 ppb. *Included items: SERIES 600, column DB1 or AT624, 30m, 0.32 mm ID, 1.8 µm film, cycle time 30 min, temp program 20 - 90 °C*
consumption of gas	instrument air: dry and clean, 3 bar, 250 ml/min nitrogen, quality 5.0, 4 bar, 25 ml/min hydrogen, quality 5.0 at 20 ml/min
dimensions	19" rack, 5 standard Height Units, depth 37.2 cm net
power demand	220 V AC, 200 VA (110 V AC available)
included hardware	computer Pentium III class, hard disk ≥40Gb, 2.5 ",display LCD 10.4 " colour, various data connection options
included software	Windows XPe, control of instrument: direct control via keyboard or mouse, or via remote host (RS232 / modem), ethernet, data exchange protocols available on demand
Option	One PC can control 2 gaschromatographs