

The Syntech Spectras GC955 series 600/800 POCP / VOC analyser

The Syntech Spectras GC955 series 600/800 VOC analyser is built for the measurement of ozone precursors (POCP) in ambient air.

The immission measurement of more than 30 components with a wide boiling point range over 300 K is in practice online and in the field with just one gas chromatograph not or only with extreme compromises possible.

The Syntech Spectras solution is an analytical system consisting of two sample systems and two separate column systems: one for the C2-C5 and one for the C6-C10 fraction.



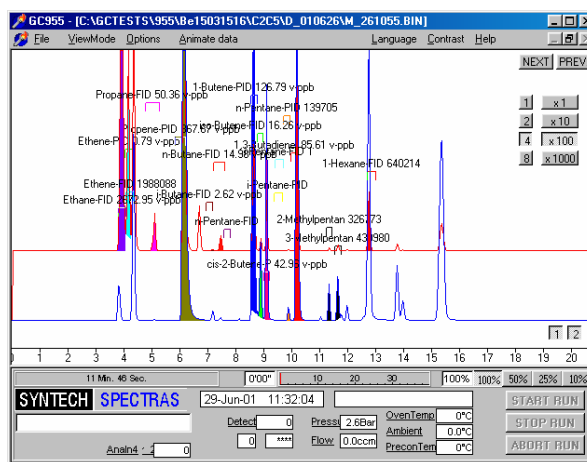
Complete installation for an ozone precursor instrument, two gas chromatographs, including gas supply

In one system 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.

The Syntech Spectras machines are built by specialists in ambient air monitoring: small adaptations to your needs can be made at low costs, calibrations are made according to the customers' specified range.

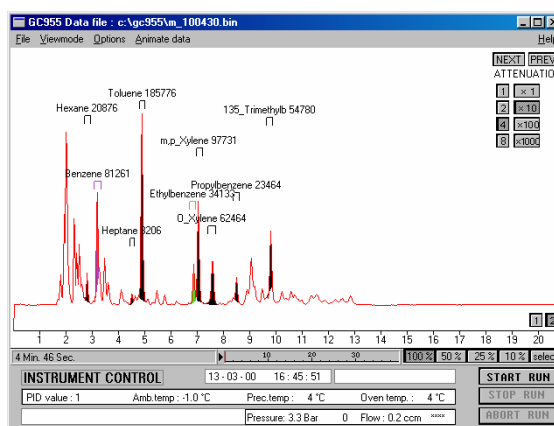
Simple operation, good reliability and low maintenance cost are important to us. With a network of distributors in Europe and beyond you can be sure that your instrument comes complete with an individualised training and that support is available to help if you do encounter problems.

The system one is a gas chromatograph with a built-in cooled preconcentration system. Hydrocarbons are preconcentrated on Carbosieves SIII at 5 °C, desorbed thermally and separated on a combination of two columns, a capillary film column and a capillary PLOT column. In this way the low boiling hydrocarbons can be separated. Analysis is done by a photo ionisation detector and a flame ionisation detector. This ensures high sensitivity and good identification.



Chromatogram of a measurement of C2-C5 PID (low), FID (high)

The system two is a gas chromatograph with a built-in preconcentration system. Hydrocarbons are preconcentrated on Tenax GR, desorbed thermally 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.



Chromatogram of a measurement of C6 to C10, FID

For detailed information see sheets:

- “The Syntech Spectras GC955 series 800 C2-C5 analyser”
- “The Syntech Spectras GC955 series 600 C6-C10 analyser”