



**Fact Sheet**



# UV Spectrometry

**The advantages of UV Spectrometry** and the identification of chemical compounds

## **OUR SERVICES**

- Chromatography
- Breath Analysis
- Drug Development
- R&D Cooperation
- Clinical Trials

**Read about our patented technology with endless potential in Life Science**

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## Spectrometry with high sensitivity

There are several benefits of using UV spectrometry together with gas chromatography. The UV detection for GC has several essential capabilities. UV spectrometry operates without the requirement for reduced pressure environments. As a result, analytical system has a short start-up time. Our patent "*Device for UV-Spectrometric analysis of gaseous compounds*" makes us the leader of Gas Chromatography – Ultraviolet Analysis. Many organic compounds amenable to chromatographic separations show an absorption spectrum in the UV-vis regions, making it ideal for chemical analysis and Life Science.

Today, competitors cannot combine gas chromatography with UV spectrometry without using our patent. Therefore, competitors are trying to sell UV-vis detectors as a separate analytical system. These systems are not very sensitive as they have limitations in how deep they can measure. These systems can show 190-350nm. We have developed a special know-how over 15 years and our systems can detect even further down in the UV spectra, reaching down to 150nm.

There are number of advantages of being able to make measurements in the vapor phase and certain chemical compounds has its peak in the UV spectrum making UV spectrometry ideal for analytical and medical chemistry. The UV spectra is not influenced by solvent effects and the wavelength range is not limited by the cut off wavelength of a solvent.

## Gas Chromatographic – Ultraviolet Analysis

Visit our website for more information about our GC-UV technology.

## 3D Software

Read about our 3D software that is unique to traditional GC-MS software.



**Chromatography & Life Science**



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