

Shimadzu extends ultra fast mass spectrometry range

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Singapore: Shimadzu UK has launched a high-end liquid chromatography mass spectrometer, the LCMS-8080, which delivers best-in-class sensitivity, high quality data and fast cycle times. An extension of its Ultra Fast Mass Spectrometry (UFMS) range, the new model's high speed capabilities increase productivity in the laboratory by delivering accurate measurements, first time.

Ideal for users requiring information rich analyses, the LCMS-8080 can be used across a wide range of applications including food safety testing, drugs of abuse screening as well as in clinical, environmental and ADME laboratories. The instrument delivers high quality and accurate data over long periods of use due to its simple and rapid method development.

The innovative Coaxial Hot Gas Desolvation source is fundamental in delivering the LCMS-8080's enhanced sensitivity as it focuses the ion plume and improves ionisation efficiency. This is further enhanced by Hot Source Induced Desolvation which removes solvent noise, followed by high performance pumping and a multi-orthogonal inlet. The LCMS-8080's class-leading sensitivity allows accurate quantitation of low level analytes. Plus, the model provides outstanding ruggedness when measuring target compounds in complex matrices.

Its compact footprint frees up the use of costly lab space, while its robust characteristics increase uptime by reducing instrument down time. Shimadzu offers prepackaged methods to enable rapid installation of the LCMS-8080. This means that individual components can easily be reused when new methods have been developed, which reduces the amount of rework

necessary and boosts productivity.

Shimadzu's software is purpose built for chromatography and quantitation, providing a single platform for Shimadzu's liquid chromatography (LC), gas chromatography (GC), LCMS and GCMS. The intuitive and unified operation flow and new functionalities enable more efficient data processing. Analyses which use both GC-MS/MS and LC-MS/MS for the same sample, such as multi-target quantitative analysis in food safety testing, benefit from the unified graphical user interface of software which reduces training needs across the laboratory and minimises the total cost of ownership.

The LCMS-8080 is compatible with Nexera UHPLC which offers high carryover specifications and the highest pressure rating of any UHPLC. Users can be confident in the analyses as the high end instrument delivers excellent stability and reliability in data acquisition, even when rapidly switching the ionization polarity.