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Japan's Shimadzu announces release of LCMS-TQ RX Series High-Performance LCMS

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Japan-headquartered Shimadzu Corporation has released the LCMS-8060RX, LCMS-8050RX, and LCMS-8045RX triple quadrupole high-performance liquid chromatograph mass spectrometers globally.

The three models in the LCMS-TQ RX series carry onward the basic functionality of Shimadzu triple quadrupole (TQ) liquid chromatograph mass spectrometers (LC-MS), while providing even higher sensitivity, stability, and convenient operability. Shimadzu is releasing this series for manufacturers and contract analysis organisations in the pharmaceutical, environmental, and food product sectors.

In the pharmaceutical, environmental, and food product sectors, regulations have become stricter, and there is an increasing demand to obtain reliable data with highly stable instruments. In particular, the global market for TQ LC-MS instruments with their high sensitivity and selectivity is expected to grow by at least 8 % annually, and the objectives and sectors where they are applied have diversified.

In routine analysis applications, which account for 40 % of the TQ LC-MS market, a number of samples are measured consecutively, so data reliability and shortened downtime are important. In addition to basic performance, such instruments must provide both stability and operability.

With the LCMS-TQ RX series, the data reliability has been heightened by stabling the sample ionisation with the ion source improved. This series is equipped with functions that check the instrument status prior to measurements, and automatically implement calibration (tuning), as well as ecology mode for minimising standby power consumption, thereby achieving high-efficiency laboratory operations with a low environmental impact.