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Japan's Shimadzu, HORIBA release LC-Raman System for multi-R&D applications

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Both companies have jointly developed a new LC-Raman system by combining the strengths of their respective technologies



Shimadzu Corporation and HORIBA have released a new LC-Raman system that combines a Shimadzu high-performance liquid chromatograph (HPLC) with a HORIBA Raman spectrometer for the Japanese domestic market.

The product is the result of joint development work that started in August 2020 and represents the world's first system to combine these technologies. Combining LC separation technology with Raman visualization technology not only significantly increases measurement accuracy and efficiency, it is expected to offer new measurement value by detecting unknown components.

Markets involved in ensuring the safety and health of people, such as healthcare, pharmaceuticals, and life sciences, and markets involved in developing advanced materials, have been changing at a rapid pace in recent years. For research and development in such fields, it is important to have measuring methods that are as accurate and efficient as possible.

Shimadzu liquid chromatographs provide superior "separation" technology for isolating target measurement components from sample mixtures, which is a key strength for accurate quantitative analysis of target components. HORIBA Raman spectrometers provide superior "visualization" technology for discriminating between different molecular structures, which is a key strength for predicting unknown components. Both products have the largest share of their respective product markets in Japan.

Image caption- From the left is Kyoko Watanabe, Product Manager, LC Business Unit, Analytical & Measuring Instruments Division, Shimadzu; Masami Tomita, Deputy General Manager, Analytical & Measuring Instruments Division, Shimadzu; Professor Haruko Takeyama, Faculty of Science and Engineering, Waseda University ; Kentaro Nishikata, General Manager, R&D Division, HORIBA; and Mikiko Uchigashima, Deputy Project Manager, Bio/Life Science Project, HORIBA