# Press Release

A-GB-15014 **|** November 17, 2015

**Nexera MX**

## Accelerates workflow and improves analytical efficiency

**Nexera MX: high-speed LC-MS meets unique autosampler /**
**Ultra-fast multianalyte LC-MS system maximizes operating efficiency /**
**Doubles the sample processing capability of conventional LC-MS systems**

In the year of its 140th anniversary, Shimadzu, one of the world leaders in analytical instrumentation, has released the new Nexera MX ultra-fast multianalyte LC-MS system. It offers up to double the sample processing capability of the conventional approach. The Nexera MX features two analytical flow lines in a single LC-MS system. This setup maximizes operating efficiency by alternating between the two lines for injecting of samples. Capable of rapidly processing large numbers of samples, the Nexera MX will help to improve the workflow of customers.

**High-speed LC-MS meets unique autosampler**

The processing sequence in LC-MS-based analysis involves sample aspiration and injection, target component elution and detection, analytical column rinsing and equilibration. In this process, the mass spectrometer must wait in standby mode except during data acquisition. Demands have therefore increased for LC-MS systems that offer maximum uptime while minimizing the time required for steps other than data acquisition.

The Nexera MX satisfies such needs by combining the superior high-speed analytical performance of Shimadzu LC-MS systems with the SIL-30ACMP autosampler designed with a unique flow line structure and high-speed sample injection capability. This combination dramatically improves analytical efficiency and maintains ease-of-operation.

**Features**

1. **Flow line design optimized for rapid analysis of large numbers of samples**

   The Nexera MX features two independent analytical flow lines: one line can be used to perform LC-MS analysis while the other line is busy equilibrating the analytical column and preparing to inject the next sample.
   This configuration maximizes the efficiency of LC-MS data acquisition.
   The system also includes the high-speed SIL-30ACMP autosampler, which is capable of injecting samples in just seven seconds. This eliminates the previous bottleneck involved in processing large numbers of samples. The autosampler also reduces carryover to nearly zero, so that the next sample can be aspirated and injected without rinsing. Consequently, it enables continuous analysis at a cycle time of 20 seconds per sample.

2. **User interface significantly improves analytical workflow**

   Each operating button in MX Solution, the dedicated software for the Nexera MX system, is arranged in a visual, easy-to-understand layout. This enables reliable performance of the entire series of analytical operations, from system startup, registering and analyzing of samples to shut down. This user-friendly interface ensures that even those with little experience in use of analytical instruments can operate the system intuitively, smoothly, and with minimal human error.

3. **Easy to analyze massive amounts of LC-MS data**

   The Nexera MX system also includes LabSolutions Insight software, providing assistance with quantitative analysis of large volumes of data. The software not only helps to extract measurement results quickly for target compounds from the massive amounts of LC-MS data generated, but can also display color-coded quantitative results automatically in five levels for each concentration range. This allows quick screening of samples for the presence of target compounds, abnormal values or other evaluations.

**Web summary**

Shimadzu, one of the world leaders in analytical instrumentation, has released the new Nexera MX ultra-fast multianalyte LC-MS system. It combines superior high-speed analytical performance of Shimadzu LCMS systems with the SIL-30ACMP autosampler designed with a unique flow line structure and high-speed sample injection capability. This combination dramatically improves analytical efficiency. The Nexera MX system also includes the LabSolutions Insight software, providing assistance with quantitative analysis of large volumes of data.



**Figure 1:** Nexera MX - high-speed LC-MS meets unique autosampler: this combination accelerates the workflow of customers and dramatically improves analytical efficiency

Web link: www.shimadzu.eu/nexera-mx

140th anniversary of Shimadzu Corporation

For more information please visit www.shimadzu.com/about/topics/140th.html

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