From front to back, the TripleTOF 6600+ System can help you analyze your samples faster and without compromising between speed, resolution and sensitivity. Explore the technological advances that give this system the performance edge.

**Produce more ions**
IonDrive™ Turbo V Ion Source increases ion production by using enhanced gas flow dynamics and heater configuration. This delivers higher sensitivity and provides increased robustness and uptime for your LC-MS analyses.

**Focus more ions**
LINAC® Collision Cell technology provides ultimate ion focusing along with efficient and rapid ion transmission to help eliminate cross-talk and achieve a lower duty cycle for enhanced sensitivity.

**Detect more ions, faster**
Get 5 orders of linear dynamic range with the 4-channel MCP detector with ADC processing, which operates at low bias voltage to improve robustness and lifetime. Perform up to 100 MS/MS scans per second with information-dependent acquisition (IDA) and up to 200 MS/MS scans per second with SWATH® Acquisition.

**Capture more ions**
Patented curtain gas technology protects the ion optics from sample matrix and helps the QJet® Ion Guide maximize ion capture and efficiently transfers molecules of interest from the source to the mass analyzer.

**Resolve more ions**
Time-of-flight mass analyzer uses 15kV ion acceleration and a 2-stage reflectron mirror to enhance spectral resolution (40K FWHM) and provide low ppm mass measurement accuracies in both MS and MS/MS mode.

**Condensed data file sizes**
Simplify and streamline data storage and portability, without losses in data quality, completeness, or security.

**Flexibility to match the configuration to your needs**
From nanoflow to high-flow LC, or with CESI.
Enhanced versatility to take on any challenge
Discover the benefits of the TripleTOF® 6600+ System for these selected applications

Your lab can take on new challenges and projects with a platform that offers maximal versatility. Get up and running with new workflows quickly by leveraging a familiar system with the widest breadth of applications available.

**Lipidomics**
- Avoid common MS level quantification problems. The seamless flow injection analysis (FIA) method for quantitative and qualitative lipidomics discovery uses an automated and untargeted MS/MSMS workflow.
- **Read More Here>**

**Proteomics**
- Balance throughput and sensitivity for large-scale quantitative proteomics studies with microflow SWATH, and dig deeper into your proteome with variable window SWATH Acquisition.
- **Read More Here>**

**Metabolomics**
- Improve quantitative coverage and gain structural information on detectable metabolites. A simple, single-injection variable window SWATH Acquisition workflow, helps provide both confidence in identification and accurate quantification of the metabolome.
- **Read More Here>**

**Drug metabolism**
- Be confident you’re not missing low-level or toxic metabolites or catabolites in your sample by utilizing a single-injection, comprehensive SWATH Acquisition workflow.
- **Read More Here>**

**Biologics analysis**
- Sensitivity and large dynamic range enable comprehensive biotherapeutic characterization as well as low-level host cell protein detection.
- **Read More Here>**

**Targeted quantification**
- Whether targeting proteins, lipids, or small molecule analytes, obtain high-quality quantification with the MRM® workflow and 5 orders of linear dynamic range.
- **Read More Here>**

**Food and environmental**
- Perform research at the forefront of science. The power of SWATH Acquisition enables you to detect contaminants regular workflows can miss.
- **Read More Here>**

**Forensics**
- Acquire all the analytes in your evidence and see a true profile of your sample. SWATH Acquisition creates a digital archive of your sample so re-analysis is not subjected to sample degradation.
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Take a deeper look into complex samples with the sensitivity and linear dynamic range of the TripleTOF 6600+ System.