

Confident Quantitation

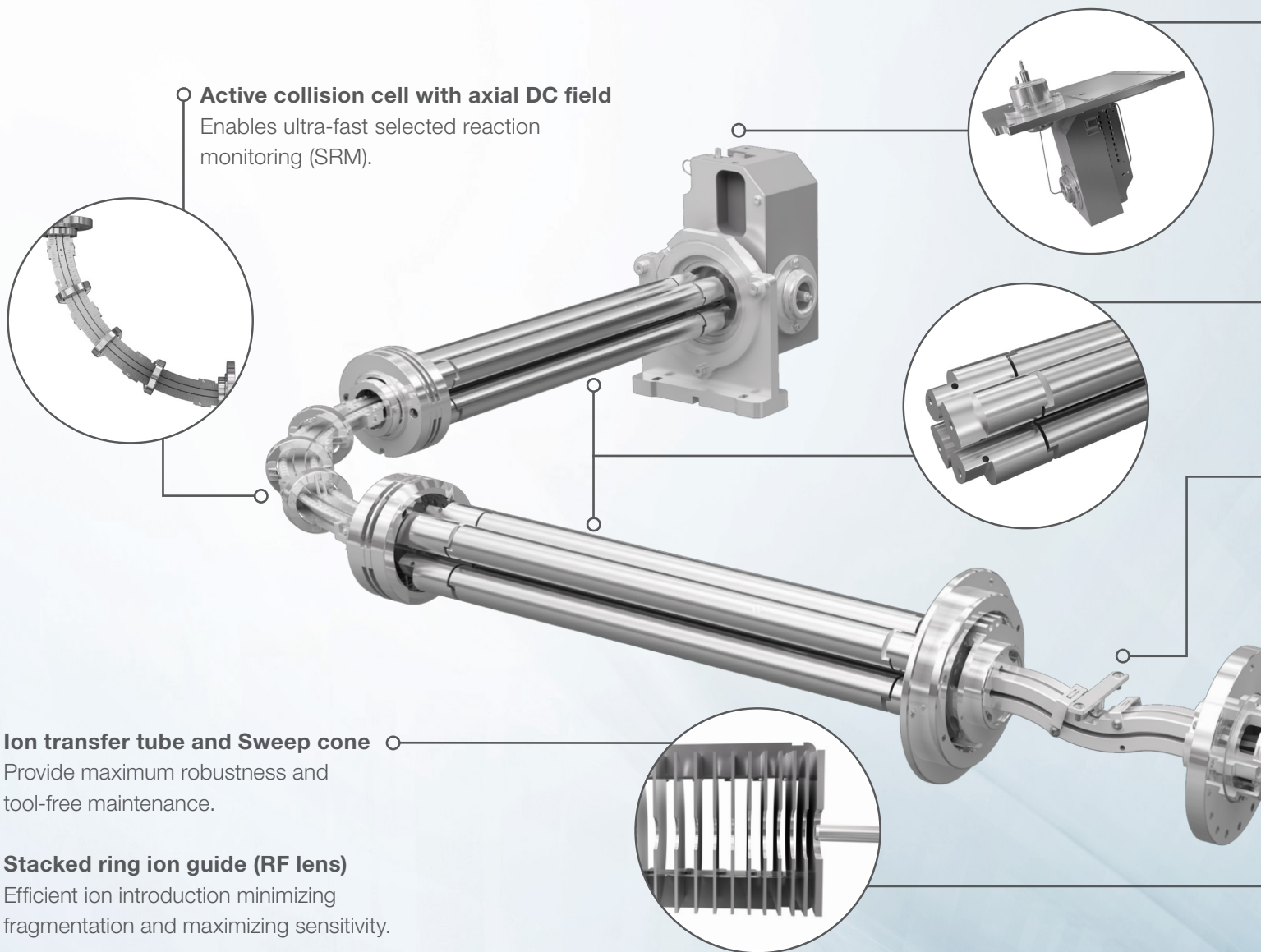
Robust and reliable
performance day after day



Thermo Scientific TSQ Quantis
triple-stage quadrupole mass spectrometer

Experience confident quantitation:

TSQ Quantis Triple-Stage Quadrupole MS with **AIM+** Technology



Active collision cell with axial DC field

Enables ultra-fast selected reaction monitoring (SRM).

Ion transfer tube and Sweep cone

Provide maximum robustness and tool-free maintenance.

Stacked ring ion guide (RF lens)

Efficient ion introduction minimizing fragmentation and maximizing sensitivity.

Quantitative throughput with confidence

Your time is precious and you can't afford delays. You need a system that you can trust to deliver results day after day. The TSQ Quantis MS enables robust, reliable quantitation with the sensitivity required to meet your workflow needs. Designed with ease-of-use in mind to ensure quality data from every user in every lab.

Sensitive, selective, fast

Advances to the ion source, mass analyzer and RF electronics result in the sensitivity, speed, reliability and consistency to confidently quantify compounds, day after day.

Robust, reliable, reproducible

The TSQ Quantis MS is designed for stable, reliable performance, and incorporates innovative approaches to increase robustness and reduce maintenance. Every TSQ Quantis MS will produce data that you can have confidence in.

Active Ion Management Plus (AIM+)

The next step in precision design delivers the ultimate in ion management, inception to detection, from the Thermo Scientific™ OptaMax™ NG ion source housing to the enhanced electron multiplier. AIM+ incorporates segmented quadrupoles and enhanced RF electronics to further optimize ion management precision, reliability, speed, and reproducibility.

Designed to Ensure Your Confidence in Results

To achieve your business and scientific goals, you need results you can count on. Regardless of your application, the Thermo Scientific™ TSQ Quantis™ triple-stage quadrupole mass spectrometer enables targeted quantitation workflows that ensure high quality results and confidence through innovative designs that provide exceptional reliability, consistency, robustness, and the sensitivity you need to meet your workflow needs.

Enhanced dual-mode discrete-dynode electron multiplier detector

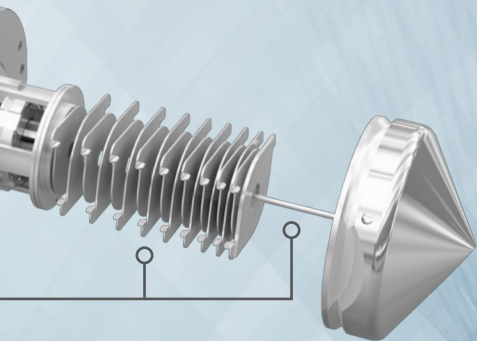
Extends multiplier lifetime with increased surface area. Maintains excellent linearity and dynamic range.

Segmented quadrupoles: H SRM (0.4 Da FWHM)

Enhances ion transmission and consistency to ensure excellent sensitivity and reproducible results across instruments and over time for increased productivity.

Ion beam guide with neutral blocker

Provides robust performance and maximum sensitivity by blocking neutrals and efficiently transmitting ions.



OptaMax NG ion source APCI ready

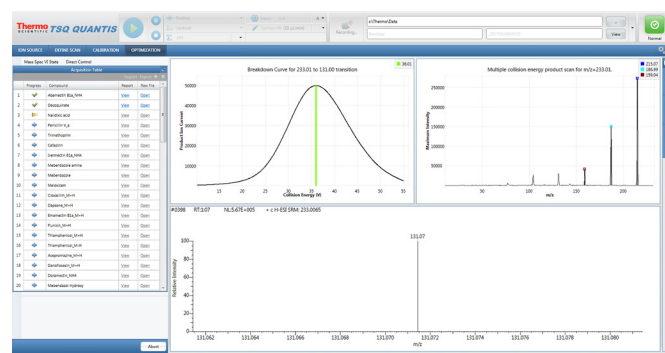
Automates all gas and voltage connections for ease-of-use. Provides optimizable spray position for ultimate performance in HESI or APCI mode.

Everyday usability for every user

The TSQ Quantis mass spectrometer provides practical ease-of-use and performance features to increase productivity.

- Simple maintenance (no need to break vacuum)
- More compounds per sample—more samples per day
- Automated compound optimization
- SRM visualization and optimization
- Streamlined data review and reporting

Automated Compound Optimization—User defined list of compounds optimized automatically



Keep up with regulatory limits in Environmental and Food Safety testing



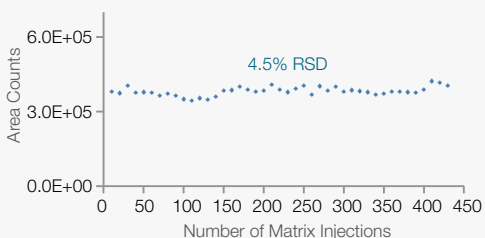
The TSQ Quantis mass spectrometer enables environmental and food safety testing labs to address regulatory requirements with ease.

- Robust analysis of analytes in complex matrices with confidence

- Achieve desired productivity faster with automated compound optimization and application-specific methods and reports

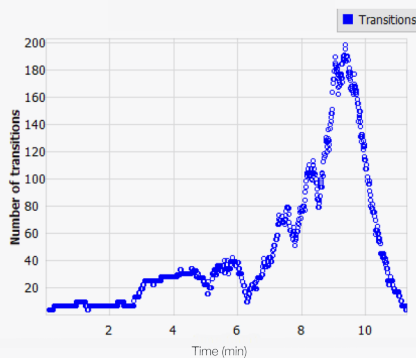
- Outstanding speed enabling quantitation of hundreds of compounds simultaneously while meeting regulatory limits

Robust performance - maximize uptime



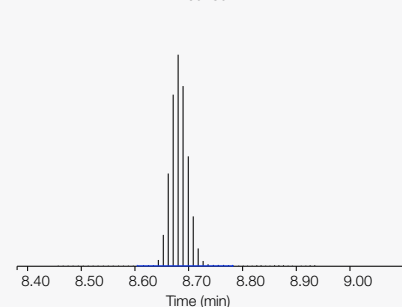
Atrazine in leek.
More than 400 injections over multiple days with consistent performance.

Increase productivity - monitor more compounds per unit time with excellent quantitative performance at low dwell times.



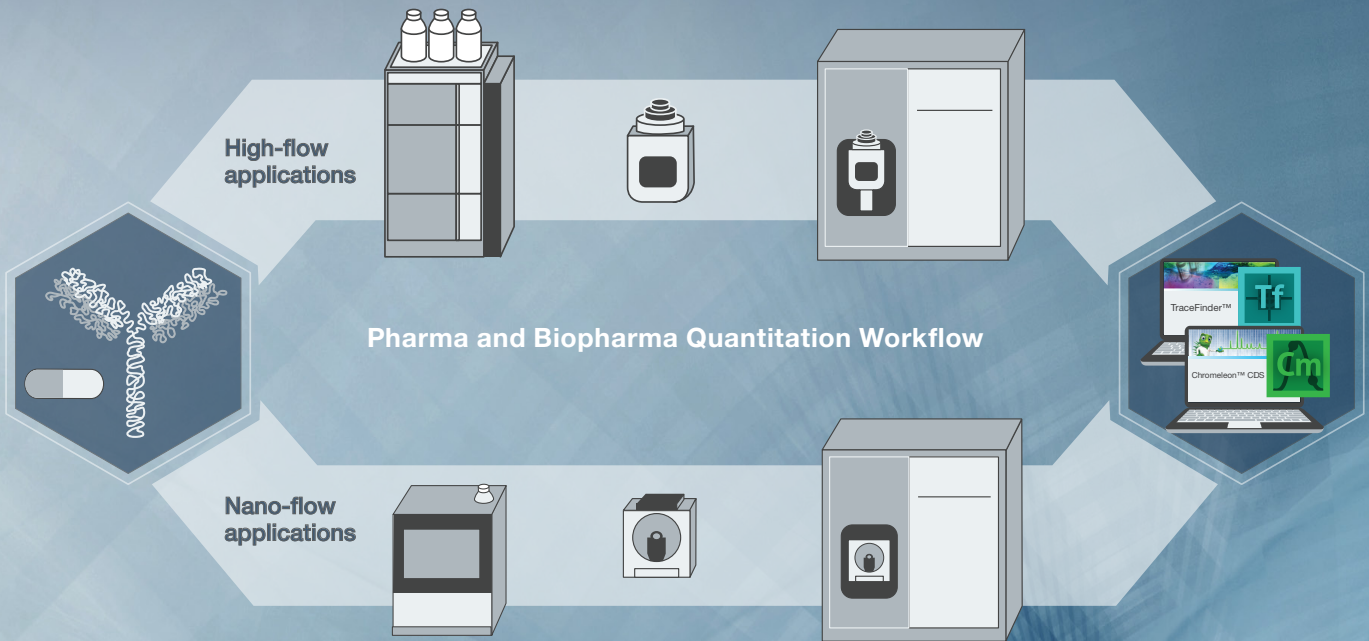
SRM visualization from Instrument Control Software 3.0 displaying the number of transitions per unit time.

Azoxystrobin in leek, 1ppb. Monitored at 2.5msec dwell time. AA: 465485



~160 transitions monitored simultaneously with polarity switching. Excellent reproducibility (%RSD 2.3) at 10X below the MRL.

Simplify your **pharma** and **biopharmaceutical** challenges

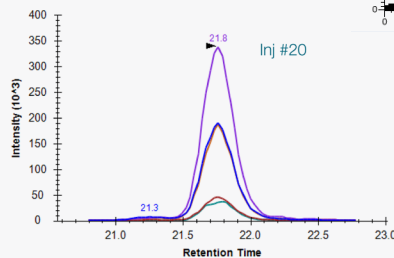
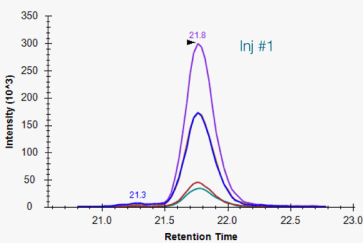
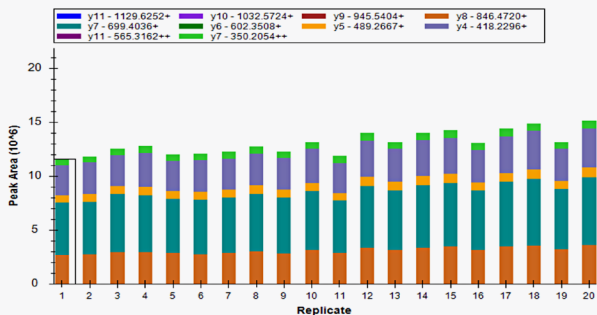


The usability, robustness and reliability of the TSQ Quantis mass spectrometer enable around-the-clock operation and maximize productivity in pharma and biopharmaceutical labs.

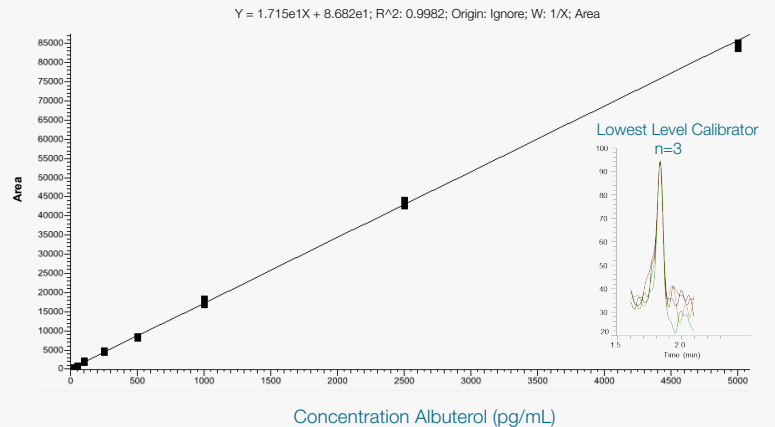
- Consistent, robust, and reliable performance for around-the-clock performance

- Ease-of-use that ensures quality data, regardless of user expertise
- Sensitivity and reproducibility to quantitate any molecule in complex biologic matrices

Consistent Ion Ratios for confident peptide quantitation



Excellent linearity and reproducibility across the dynamic range



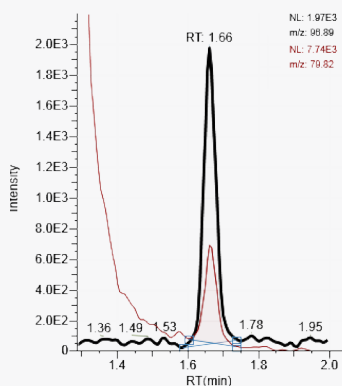
Obtain more confidence in **Clinical Research** and **Forensic Toxicology** Results



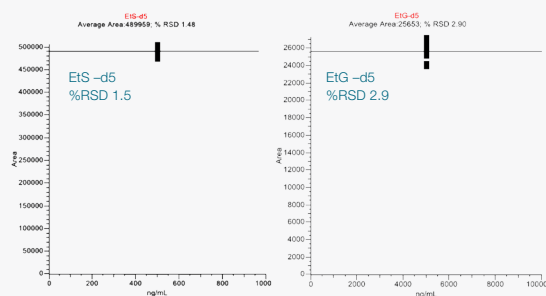
The TSQ Quantis mass spectrometer's reliability and sensitivity allow you to report results with confidence. Effortless method set up with industry leading multi-channel solutions and automated reporting enable robust high-throughput quantitation.

- Robust and consistent, able to run thousands of samples with no loss of performance
- Simple, tool-free routine maintenance
- Sensitivity and reproducibility make challenging assays easy

Excellent precision for the most challenging quantitative assays.

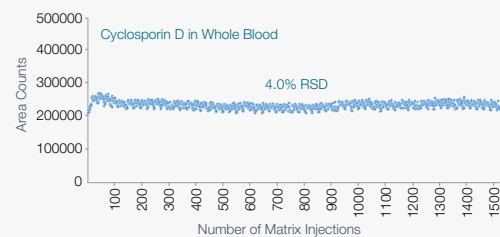


50 pg on column for Ethyl Sulfate



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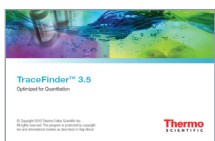
Robust and consistent performance under challenging conditions



More than 1,500 injections with consistent performance.

Workflow-driven software, solutions, and support streamline your applications

From instrument optimization and troubleshooting to routine method development and reporting, integrated workflow solutions streamline everyday tasks. TraceFinder software supports food safety, pharmaceutical and biopharmaceutical, and clinical research and forensic toxicology applications with comprehensive workflows that reduce time to results and increase day-to-day productivity.



TraceFinder

One software for all applications, from method development to report generation



AppsLab method library

A comprehensive repository for application methods, data sets, and application notes



Chromeleon

Superior instrument control, automation, data processing, and ability to address regulatory requirements

Our global Centers of Excellence, in-your-lab training using your methods, and AppsLab Library of Analytical Applications, ensure your success.

Thermo Scientific inlet solutions

The TSQ Quantis mass spectrometer can be paired with a range of high-performance Thermo Scientific inlet systems.

- Thermo Scientific™ Vanquish™ UHPLC system
- Thermo Scientific™ Vanquish™ Flex Binary and Quaternary UHPLC systems
- Thermo Scientific™ Transcend™ II system
- Thermo Scientific™ Prelude SPLC™ system with multiplexing
- Thermo Scientific™ Dionex™ ICS-5000⁺ Capillary HPLC™ system
- Thermo Scientific™ Dionex™ Integrion™ HPLC™ system



Transforming triple-stage quadrupole mass spectrometers

The TSQ Quantis MS is a next generation triple quadrupole built on a foundation of state-of-the-art hardware and software components designed to provide unprecedented confidence in quantitation day after day.



Find out more at thermofisher.com/Altis-Quantis

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