Ultivo Triple Quadrupole Mass Spectrometer

UNBELIEVABLY POWERFUL
REMARKABLY SMALL

Agilent Technologies

TRIPLE QUADRUPOLE MASS SPECTROMETER

MEET ULTIVO
IT'S A PINT-SIZED POWERHOUSE

Decades of innovation have brought us into a new era of mass spectrometry with the design of Agilent's revolutionary Triple Quadrupole LC/MS. Ultivo is packed full of the same power and accuracy you'll find in the big guys but at a fraction of the size. It's on a transformative mission to reshape expectations, reinvent capabilities, and redefine what's possible when small meets powerful.

Ultivo LC/TQ is here to prove that small is big again, with key enabling technologies that allow you to:

Increase Sample Throughput

The Vortex Collision Cell combines faster scanning with the confidence you need to do more, and quickly.

Produce Better Results

The Cyclone Ion Guide gets more ions to the detector. More ions means better, more reproducible results.

Advance Efficiency

The efficiency-optimized InfinityLab LC Series is the perfect partner for high-throughput mass spectrometry.

Optimize Lab Technician Productivity

The VacShield enables lab personnel to quickly and seamlessly maintain the MS, freeing up valuable time to focus on science.

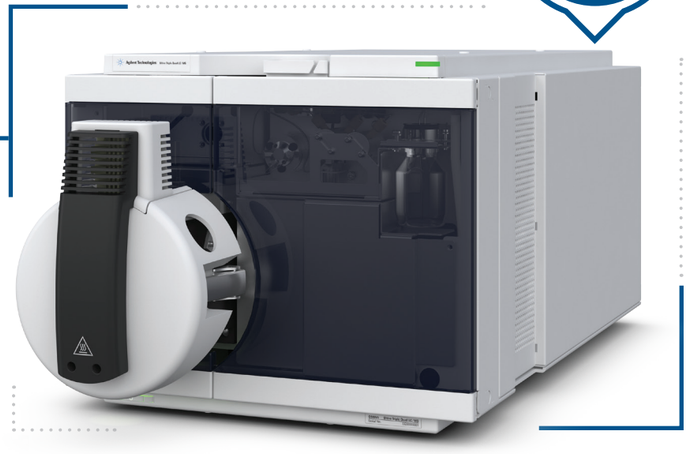
Reduce Instrument Downtime

Intelligent diagnostics use intuitive readbacks to pinpoint issues quickly.

Maximize Laboratory Real Estate

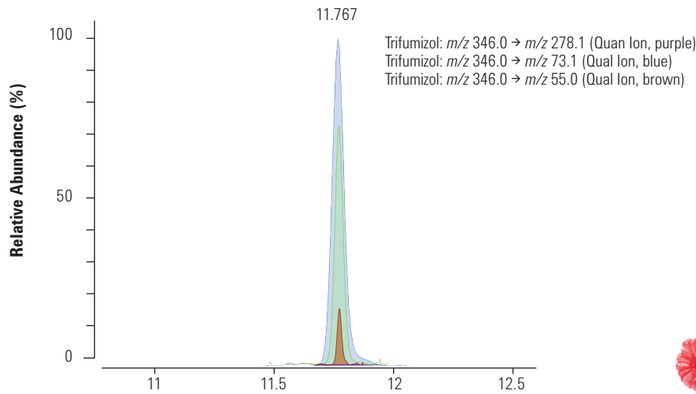
The footprint of Ultivo LC/TQ is 70% smaller than that of similar LC/TQs with all of the power of the big guys. You can triple your lab's capacity in the same space.

SMALLER FOOTPRINT 70%



WELCOME TO A NEW ERA OF MASS SPECTROMETRY

For years, food and environmental analysis laboratories have struggled to do more with less—and do it faster. The Ultivo LC/TQ gives you the performance and confidence to meet increasing sample throughput demands, expand your analytical capacity in your current space, and deliver data quality that your clients expect.



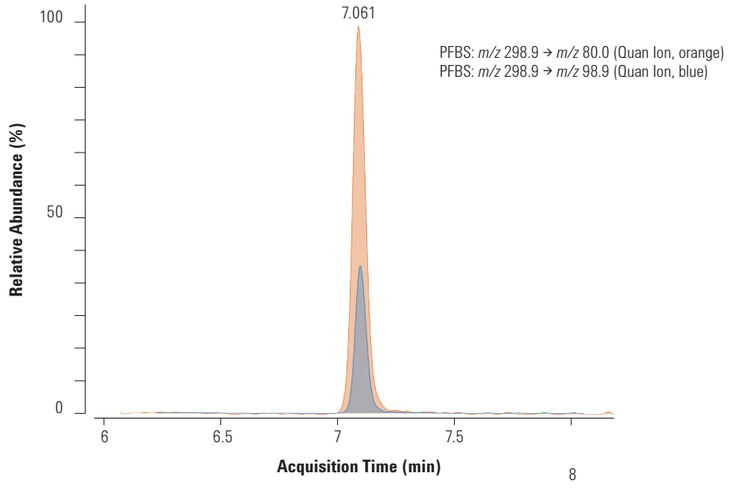
Quantitative analysis of pesticide residues in avocado matrix. Trifumizol is shown at 1.0 ng/g, demonstrating the excellent quantitative performance of Agilent Ultivo LC/TQ.

Fine-tuned for difficult food matrices

Ultivo LC/TQ is fine-tuned for accuracy and precision, with the selectivity and sensitivity needed to confidently monitor for, and identify, contaminants, helping keep the food supply safe.

High-performance analysis for newly emerging pollutants

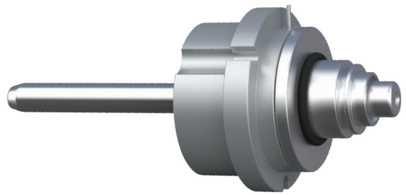
New environmental contaminants emerge daily—you need a lab partner that can keep up. Ultivo LC/TQ seamlessly integrates with MassHunter software to enable powerful data collection, processing, and reporting tools to make sure you are always ready for the next sample.



Agilent Ultivo LC/TQ provides robust and accurate measurement of perfluorobutane sulfonate at sub-ppb levels (0.5 ppb).

INNOVATIONS FOR ENHANCED RESULTS

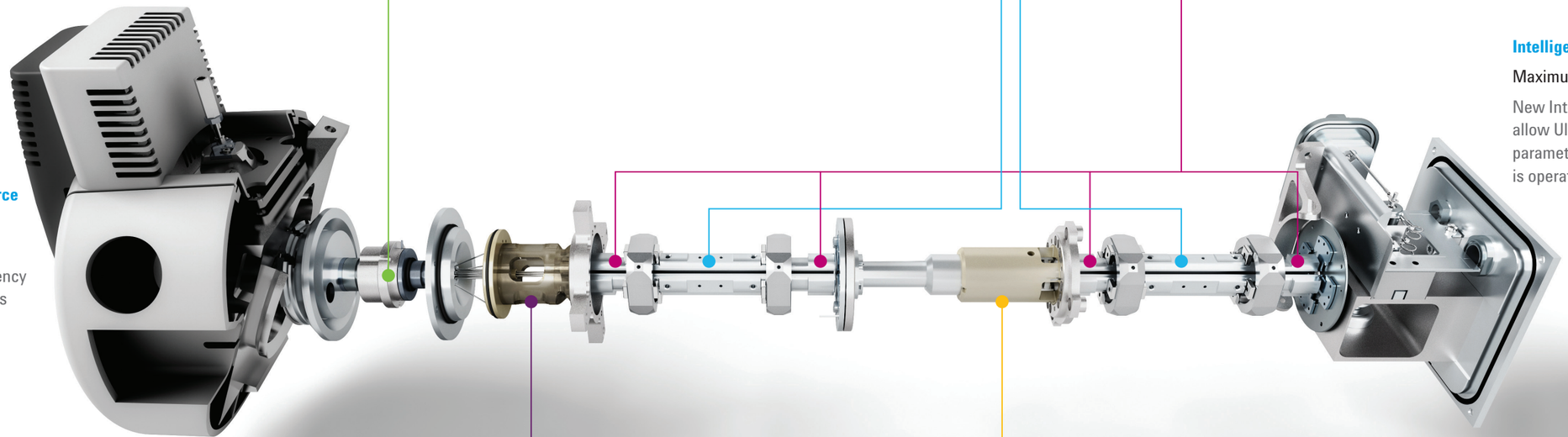
We specifically designed Ultivo with new technologies to maximize quantitative performance, enhance instrument reliability and robustness—not to mention it also promotes more uptime and a quick return on investment.



VacShield

Increased throughput, less downtime

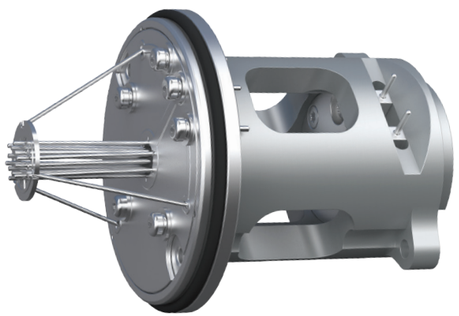
Ion injector maintenance is simple, fast, and trouble-free



Agilent Jet Stream Ion Source

More ions created, better MS results

Enhanced desolvation efficiency over a wide range of LC flows



Cyclone Ion Guide

More ions, increased signals, improved results

Maximum performance in a smaller footprint

Ultivo Hyperbolic Quadrupole Assembly

A truly hyperbolic surface for better mass transmission and improved analytical results

Virtual Pre/Post-Filters

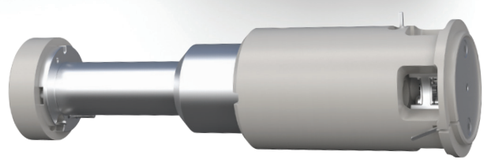
Maximum ion transmission at entrance and exit of resolving quadrupoles

Reduces fringe-field effects, allowing for faster switching, enabling more MRMs to be performed

Intelligent Diagnostics

Maximum instrument operation

New Intelligent Diagnostics tools allow Ultivo to monitor several parameters in real time to ensure it is operating at peak performance



Vortex Collision Cell

Optimum ion transmission, enhanced MS/MS performance

Efficient collimation of the ion beam with zero crosstalk

ENHANCING PRODUCTIVITY. IMPROVING YOUR EXPERIENCE.

USE MASSHUNTER AND QUANT-MY-WAY FOR PERSONALIZATION AND EFFICIENCY

An unbelievably powerful performance

When Ultivo is powered with Agilent MassHunter, you'll receive new features like an updated user interface and data collection modes that make your method and worklist interactions easier. Experience 50% faster autotune—optimizing response and producing more uptime—along with intelligent diagnostic readbacks. All this combined makes your MS analyses faster and more productive.

Simplifying your MassHunter analysis

With the Quant-My-Way tool, choose how to customize your MassHunter Quantitative Analysis experience. It allows you to streamline your workflow and expose specific features for each assay you're running while minimizing the capabilities you don't need.

ADVANCE YOUR WORKFLOW CAPABILITIES

The 70% smaller footprint allows Ultivo to fit right into an Agilent InfinityLab LC System Series, giving you triple the bench space of a similar LC/TQ.

Bench size 6 feet or 1.8 meters

Ultivo and the **Agilent 1260 Infinity II Prime LC** make the perfect partner in compatibility. Both offer convenient and easy use along with functionality for everyday analysis.

The **Agilent 1290 Infinity II LC** completely integrates with Ultivo to achieve higher sample capacity, exceptional reliability, and breakthrough technologies that maximize efficiency.

Column ID Tag

Confidence in analytical efficiency and traceability

Agilent InfinityLab Poroshell 120 columns provide exceptional efficiency for all instruments, from standard HPLC systems to 1300 bar UHPLC systems. A column ID tag gives you at-a-glance details about usage.

The Agilent Value Promise: Ten Years of Guaranteed Performance

Agilent offers the industry's only ten-year value guarantee. We guarantee you at least ten years of instrument use from your date of purchase or we will credit you with the residual value of that system toward an upgraded model. It's our way of assuring you of a safe purchase now and protecting your investment.

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