



XeVO™ | TQ-S micro

Defining Compact Performance

Robust Sensitivity Beyond Expectations

Waters™

From the inherently robust Xevo family, the Xevo TQ-S micro tandem quadrupole mass spectrometer provides superior performance per square inch and exceptional analytical flexibility.

RELIABLE PERFORMANCE

Achieve your objectives in full with operational performance you can rely on. A Xevo TQ-S micro study analysing mycotoxins in wheat flour (a complex matrix that can contaminate LC/MS instrumentation) showed consistent performance over 5 days of continuous use with 1000 injections and only 5-9% relative standard deviation (RSD) for peak areas¹

MAXIMIZING UPTIME

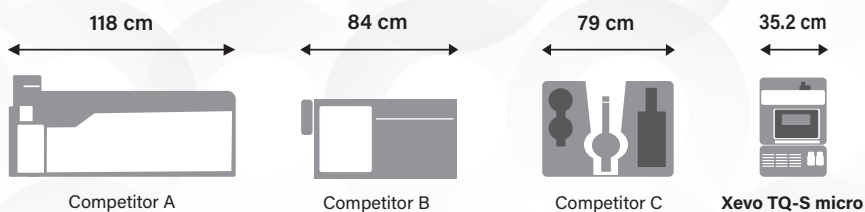
Get the most from your instrument and avoid time-consuming repair visits. Customers using the Xevo TQ-S micro will on average not need an unplanned service visit during the warranty period and for 3 years after²

ACHIEVE MORE WITH LESS

- The Xevo TQ-S micro is 2-3X narrower than other instruments in its class reducing laboratory space overhead costs
- Use of the Xevo TQ-S micro provides up to 34% lower electricity power consumption and associated heat production than other instruments in its class³

FLEXIBILITY TO MEET YOUR ANALYTICAL NEEDS

With the most commonly used atmospheric pressure ionization source of ESI as standard, simply change chromatographic inlet or ionization source to extend your analytical capacity and meet changing demands



With benchspace at a premium, choose an instrument designed to maximize performance per square inch.

1. Reference figure 1 on page 3
2. Source Waters internal service data on unplanned service visits for Xevo TQ-S micro issues that occur globally. Note that warranty period used is 1 year and planned visits for regular scheduled Performance Maintenance are recommended to ensure trouble-free operation.
3. Reference table 1 on page 4

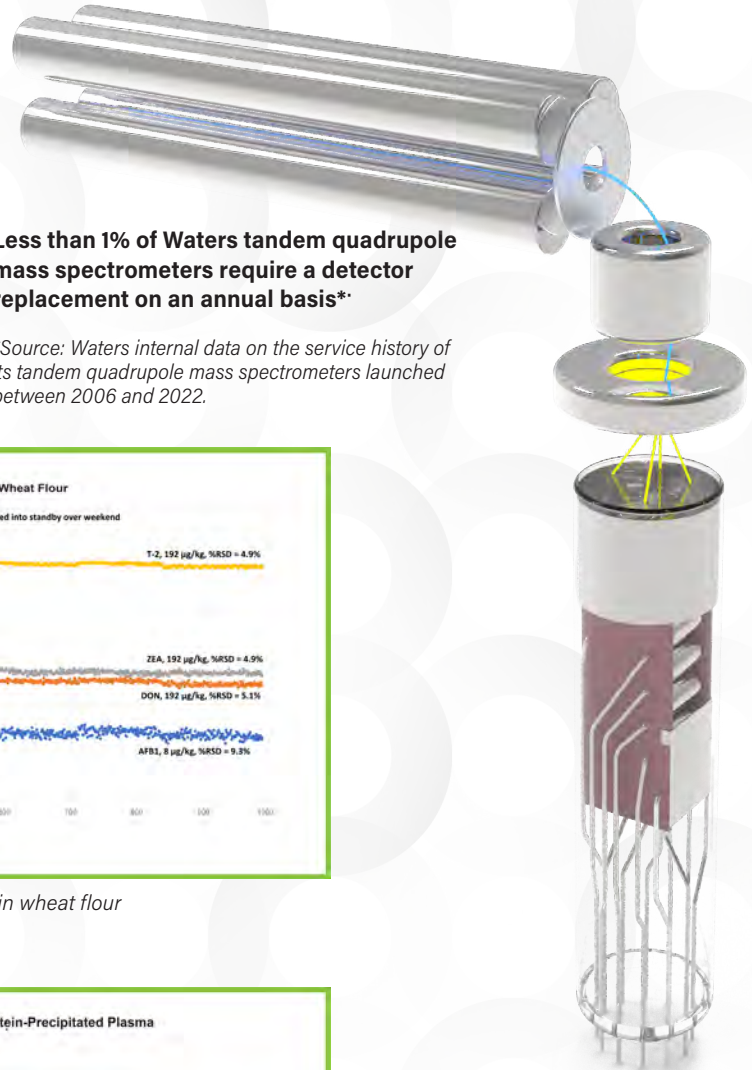
Reliable Performance

Keeping variability to a minimum

Be confident that you will have reliable data over multi-day studies. Two experiments using the Xevo TQ-S micro provide evidence for the longer term stability of this instrument. By monitoring peak areas whilst running continuous injections you can see that the Xevo TQ-S micro won't let you down.

Experiment 1 - 4 mycotoxins in wheat flour showed consistent performance over 5 days of continuous use with 1,000 injections and only 5-9% RSD for peak areas.

Experiment 2 - Acetaminophen in protein precipitated plasma also showed consistent performance over 6 ½ days of continuous use with 2,400 injections and only 4% RSD for peak areas.



Less than 1% of Waters tandem quadrupole mass spectrometers require a detector replacement on an annual basis*

**Source: Waters internal data on the service history of its tandem quadrupole mass spectrometers launched between 2006 and 2022.*

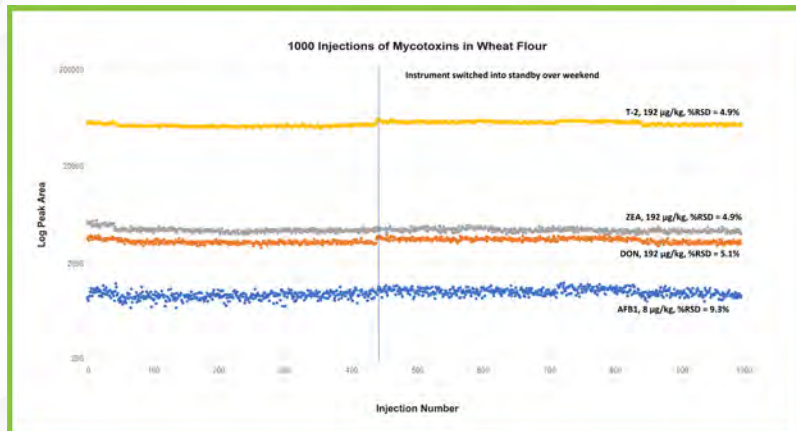


Figure 1: Experiment 1 showing data for mycotoxins in wheat flour

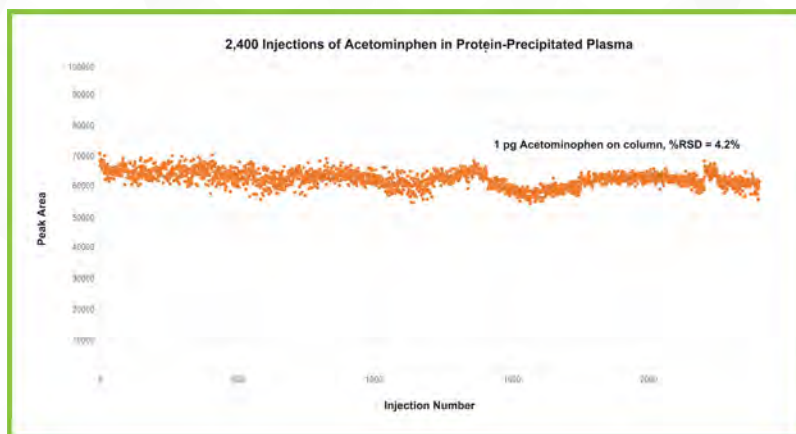


Figure 2: Experiment 2 - Acetaminophen in protein precipitated plasma

Improving Efficiency

Lower operational costs and improved sustainability

As a leading technology innovator in chromatography, mass spectrometry, and thermal analysis instruments and software, Waters shares a common mission with our customers: to leave the world a better place than we found it. Many of our customers are actively working to address environmental sustainability in balance with the need to continually reduce operational costs. The Xevo TQ-S micro consumes less electricity than other instruments in its class and therefore produces less heat – lessening the need for air conditioning and lowering costs.

	Waters Xevo TQ-S micro	Competitor B	Competitor A	Competitor C
Power	1250 W ¹	1452 W	1600 W	1960 W
Heat output	4,263 Btu/h	4,950 Btu/h	5,456 Btu/h	6,500 Btu/h

Table 1: Power and heat outputs for mid tier TQ products, conversion factor 1W = 3.41 Btu/h

1. [XeVO TQ-S micro Site Preparation Guide](#)

Note that power stated for scroll pump configuration. Option for rotary pump configuration is available.

“ The biggest impact on laboratory setup costs was controlling the LC-MS/MS heat output and energy usage.... It’s not just lab build setup, when you calculate running costs, especially important in the current energy crisis, the savings are substantial. We now see a route to improve our analytical capability, improve our environmental footprint and by doing so make significant cost savings, this impact is such that it now helps drive our strategy for purchase. ”

Paul Holme, CEO at Alderley Analytical

[DECOUPLING ANALYTICAL INSIGHTS EBOOK](#)

Ultimate Productivity

Achieve more with flexible software solutions

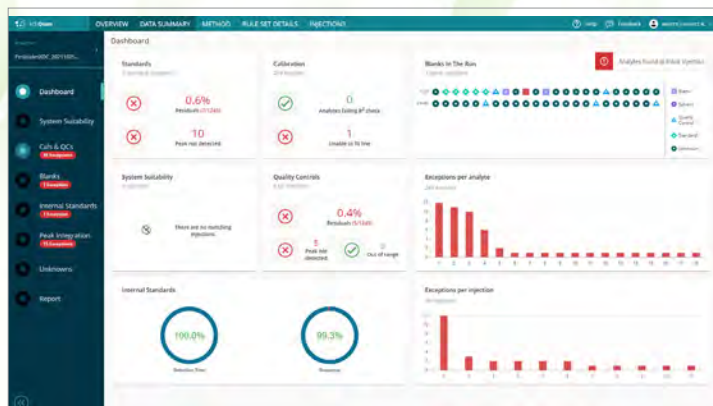
In an ever-changing environment, flexibility can help protect against future unknowns. The Xevo TQ-S micro is available on both our waters_connect™ and MassLynx™ Software platforms, providing the ultimate flexibility to choose a future-proof solution to meet your lab requirements.

waters_connect

Our modern, app-based software platform, waters_connect, delivers efficiency and usability benefits, including the unique Exception Focused Review (XFR) functionality that can save up to 50% of your data review time, ensuring your lab is as productive as possible.

MassLynx

Our tried and well-established MassLynx Software package delivers market-leading versatility and flexibility for all application areas.



* For specific configuration requirements consult with your Waters Representative.

Flexibility

Flexibility - choose the optimal separation and ionization technique for your application

Waters market-leading separation technologies include the ACQUITY™ UPLC™ family of LC systems and APGC™. Application flexibility is further enhanced by the range of quickly interchangeable ion source options made possible by universal ion source architecture.



ACQUITY Premier

“ The Xevo TQ-S micros are running essentially 24/7, and the only downtime is when we switch projects. We’ve really been able to expand the capabilities by adding on sample manager systems, so we can robotically run those instruments unattended for 48 to 72 hours. We run them over the weekend or overnight, and because of that capability, we’re able to do a lot of work. ”

Dr. Christopher R. McCurdy, Director of the Translational Drug Development (TDD) Core at University of Florida

[READ MORE](#)

“ For PAHs we’re on the absolute maximum performance of the system - but we only inject 1 microlitre so that we can reduce matrix effects and keep the system a lot cleaner than with normal GC-MS. The less you can inject the better it is. We only have to clean the system once a year and even then it’s not very dirty. ”

Jaco de Koning, APGC with Xevo TQ-S micro customer, Head of Research and Development, Food Contaminant Cluster, Eurofins LabCo.



Xevo TQ-S cronos



Xevo TQ-S micro



Xevo TQ Absolute

Optimal Support

Ensure your success with world-renowned services

Waters Service and Support helps maintain system peak performance, minimize downtime, address scientific application challenges, and support stringent compliance requirements.

Waters award-winning consistent quality support and professional services ensure your success wherever your laboratory is located in the world. With Waters Service and Support offerings* for your Xevo TQ-S micro, you can:

GET UP AND RUNNING QUICKLY

Get the onsite training and consultation you need to integrate the Xevo TQ-S micro into your laboratory and assist with data migration and method transfer needs with Waters Professional Services.

MEET YOUR LAB'S UNIQUE REQUIREMENTS

Protect your high-performance instrument investment with the comprehensive portfolio of service plans such as Waters FlexCHOICE™, which provides access to the most in-depth and up-to-date knowledge of the advanced science and technologies within Waters systems.

FACILITATES COMPLIANCE

Simplify the process of qualification, validation, and recordkeeping so that your business can focus on delivering products to market with Waters Compliance Services – so you can meet the regulations in your industry and in the countries where you conduct business.

REDUCE TOTAL COST OF OWNERSHIP

FlexCAPITAL™** is designed to support continuous laboratory operation while satisfying the budgeting challenges of a constantly shifting landscape. Minimize total cost of ownership while optimizing instrument performance and protecting your organization from security risks associated with outdated software platforms.

LEVERAGE YOUR EXISTING TECHNOLOGY

With the FlexUP technology renewal program, you can upgrade your older tandem quadrupole mass spectrometry system to the Xevo TQ-S micro – improving performance, results, and productivity while controlling costs and mitigating compliance risk.

**Availability of offerings varies by country. Contact Waters or your local Waters representative for details.*

*** FlexCAPITAL payment plan options and availability may vary by country. Other restrictions may apply. Contact Waters or your local Waters representative for details. Subject to Credit Approval.*

XeVO™ | TQ-S micro

waters.com/TQSmicro

For your local sales
office, please visit
waters.com/contact



Waters™

Waters, waters_connect, Xevo, FlexCHOICE, FlexCAPITAL, FlexUP, ESCi, APGC, ACQUITY, UPLC, UniSpray, and MassLynx are trademarks of Waters Corporation. All other trademarks are the property of their respective owners.

©2024 Waters Corporation, July 24-12272 720005046 Rev A

Waters Corporation
34 Maple Street
Milford, MA 01757 U.S.A.
T: 1 508 478 2000
F: 1 508 872 1990
waters.com