

[XEVO TQ-GC]

THE PERFECT ADDITION - **TO YOUR LABORATORY**



TQ-GC

Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

Xevo TQ-GC

CONSISTENT HIGH PERFORMANCE TO SURPASS REGULATORY LIMITS

- Reduce training costs by the use of common GC-MS/MS and LC-MS/MS workflows – a perfect addition to your laboratory.
- Comprehensive application coverage powered by Quanpedia™ database driven workflow.
- Easily surpass regulatory limits with fit-for-purpose performance in difficult matrices.

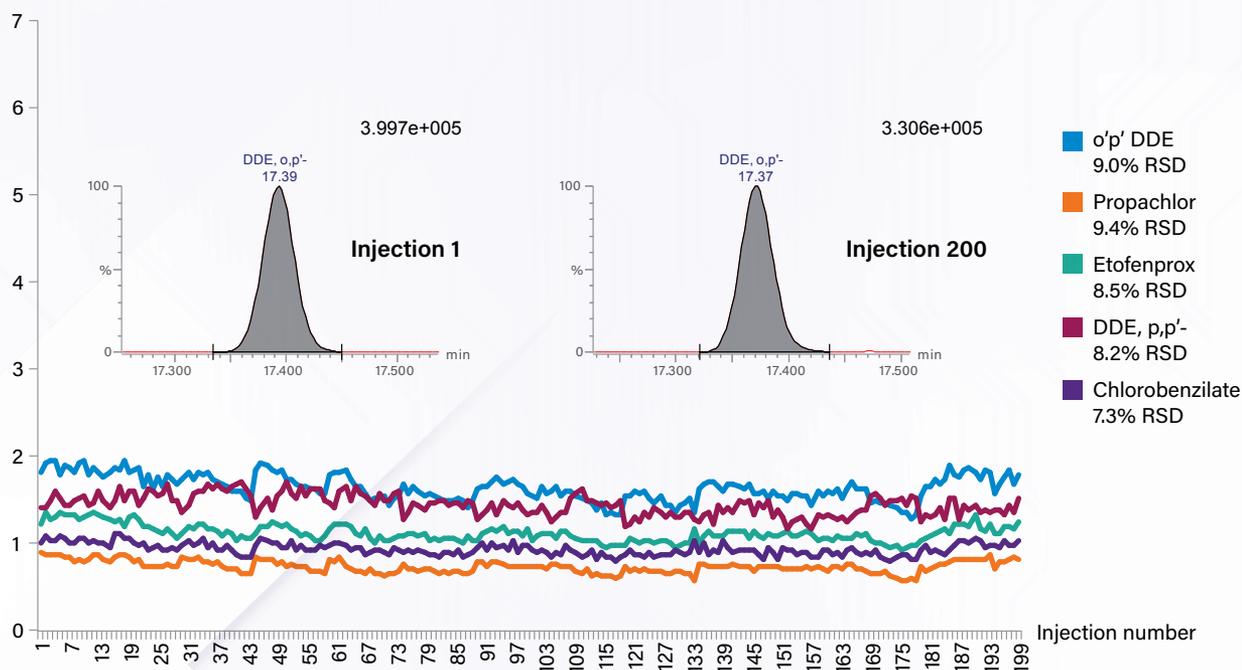
Demands to meet regulations are increasing pressure on laboratories, and in order to meet these challenges laboratories must be able to develop and run methods that provide high-quality, consistent results, day in and day out.

The Xevo™ TQ-GC allows routine quantitation of multiple contaminants in matrix sample. The consistent high performance allows regulatory limits to be comfortably passed reducing the need for frequent user intervention and re-optimization.

Laboratories can also develop methods rapidly using Quanpedia, which allows fast response to changes in legislative demands and for customized methods. All the speed, sensitivity, and reliability you have come to expect from Xevo now with GC-MS/MS.



Xevo TQ-GC Mass Spectrometry System.



Repeatability from replicate (n=200) injection of grape extract containing five pesticides at 0.01 mg/kg.

RIGOROUSLY TESTED DESIGN ENGINEERED TO MAXIMIZE UPTIME

For busy laboratories, high system uptime and predictable maintenance schedules are increasingly important. To meet these challenges we have developed a system that:

- is rigorously tested to produce consistent results over multiple concurrent injections giving you complete confidence (see data above).
- ensures time spent for user intervention for maintenance is low and can be scheduled to fit around the laboratory workload, allowing you to maximize system utilization.
- includes intelligent software that automatically optimizes the MS settings and checks the system is ready to run injections.



Xevo TQ-GC ionization source showing the tool-free, quick-change, twist lock ionization chamber.

COMPREHENSIVE APPLICATION COVERAGE

USER CENTERED, DATABASE DRIVEN WORKFLOWS

- Rapid creation and modification of analytical methods enabled by database driven, user centered Quanpedia, which is regularly updated and easily accessed via marketplace.waters.com.
- Method development times are reduced by including automatic scheduling of MRMs to account for any shift in retention times due to column maintenance.
- Generation of GC-MS acquisition and processing methods is performed automatically.

Select a pre-existing method or generate a customized method.

Automatically generate GC and MS acquisition methods and processing method.

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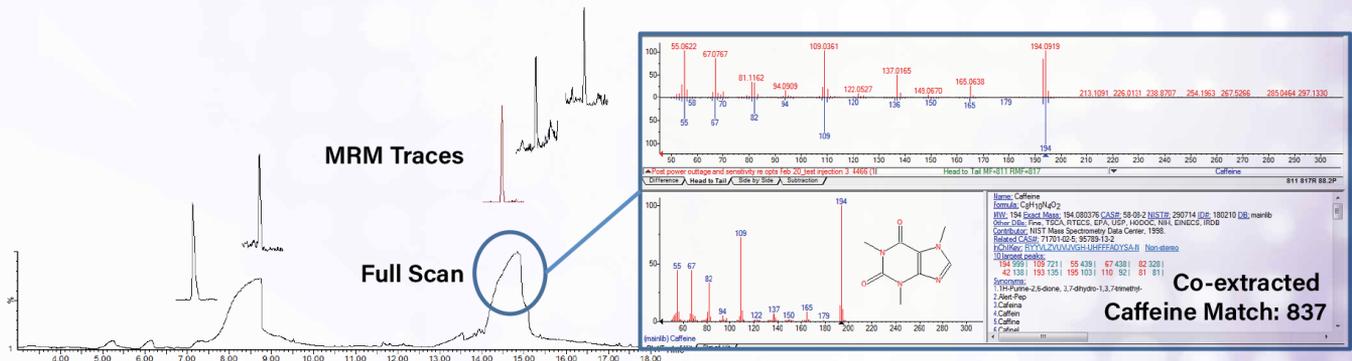
Reviewable results with minimal method development



CONFIRMING COMPOUNDS IN COMPLEX MATRICES

Laboratories are increasingly looking to gain more information from their samples, and for the ability to take advantage of information from legacy data. Therefore, to enable full characterization of a sample from a single injection, RADAR provides full scan MS and MRM data in one acquisition and is enabled with a single click in the MS method editor.

- Detect analytes that are not specifically targeted and perform NIST library confirmation.
- Characterize unexpected contaminants while performing routine quantitation.
- Improve method development and aid in troubleshooting by discovering matrix interferences.

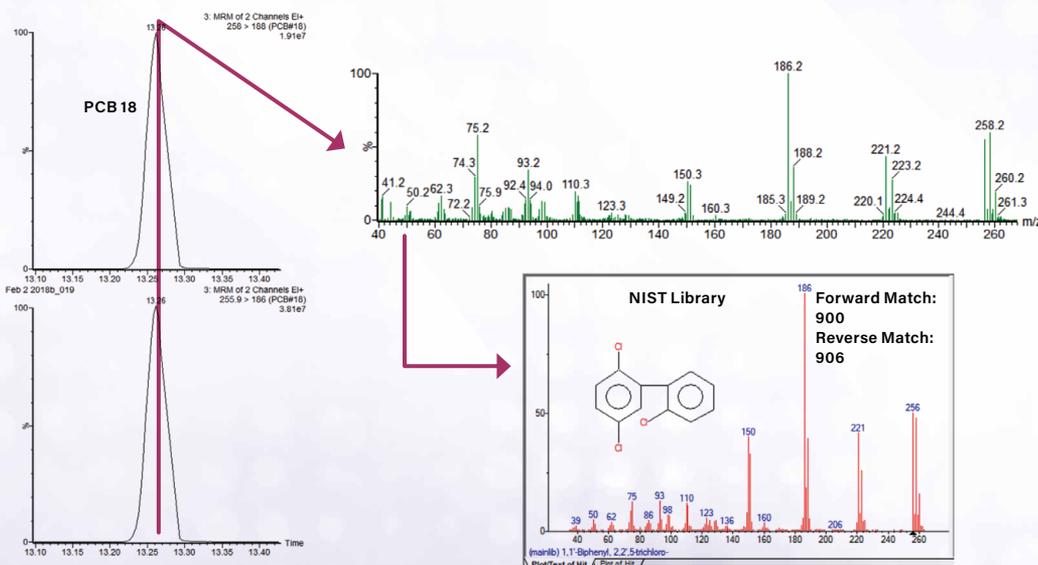


Use of RADAR and NIST library search to identify a co-extracted compound in green tea matrix.

PICs

For added confidence in results, a product ion confirmation scan (PICs) can be simply enabled within the method. This produces not only MRM confirmation but MS or MS/MS spectra that can be used to further identify an analyte of interest.

PICs of PCB 18 confirmed with NIST library search



FIT-FOR-PURPOSE PERFORMANCE

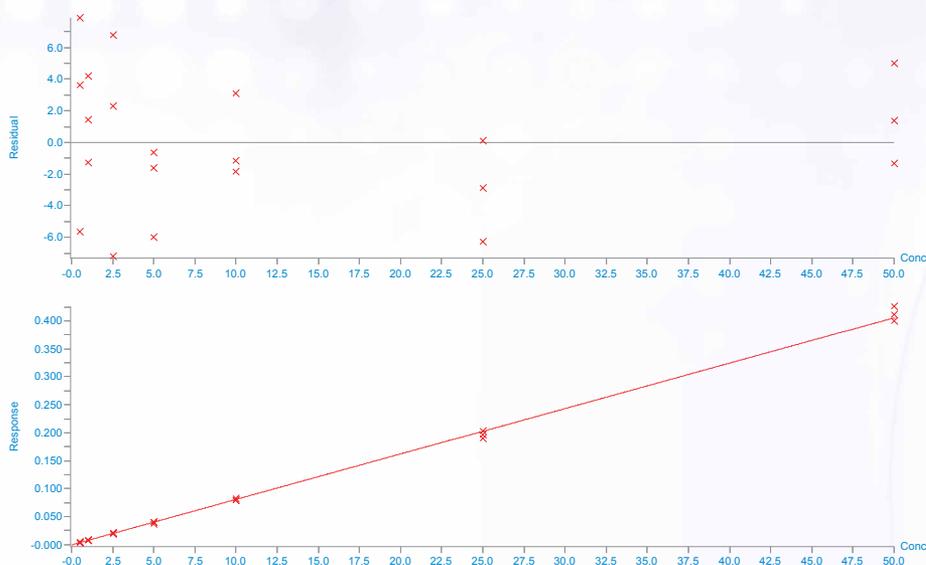
EASILY SURPASS REGULATORY LIMITS

The performance needs for many methods are driven by legislative requirements, and many diligent analysts would like to work comfortably below these limits. The Waters™ Xevo TQ-GC is designed with this performance in mind. Not only high-performance but reliable and predictable.

The need to process large data sets can be time-consuming. By utilizing TargetLynxXS™, which is common across LC and GC platforms, users are able to:

- Simplify full analyte quantitation
- Rapidly review results
- Customize sample reports

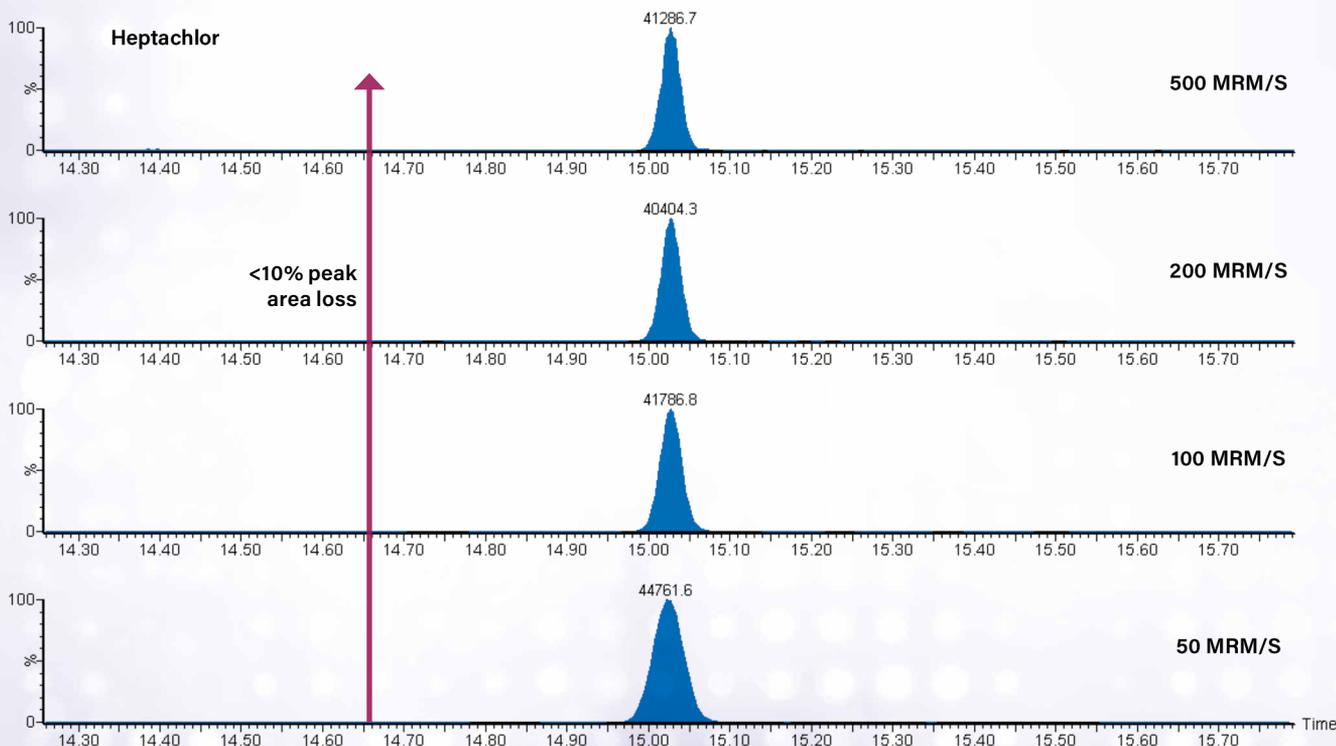
Multiple Reaction Monitoring (MRM) performance in matrix sample



Triple bracketed calibration curve 0.5 to 50 ppb of DDD o,p in apple matrix.

In a busy analytical laboratory one way to shorten turnaround times is to increase the number of components in a single analytical run, allowing more compounds per analysis. The Waters Xevo TQ-GC enables acquisition rates of up to 500 MRM/sec without significant degradation in performance. This means more MRM transitions can be added to a run while still achieving the results required.

Repeatable Performance at High Speed



The Perfect Addition

Waters offers GC-MS/MS and LC-MS/MS technologies with a common software platform, maximizing compound coverage and simplifying workflows. The Xevo family combined with Waters sample preparation portfolios and informatics allows you to cover a wide variety of matrices, target analytes, and methods with greater efficiency and minimal training. All supported by Waters' team of analytical experts standing by to accelerate your application and reporting success.



Xevo TQ-GC

GC WITH THE POWER OF XEVO



DisQuE Dispersive Sample Preparation

FLEXIBLE, COMPLIANT SAMPLE PREPARATION SOLUTIONS FOR RAPID, MULTI-RESIDUE SCREENING



Xevo TQ-S micro

ULTIMATE SENSITIVITY AND RELIABILITY



Oasis PRiME HLB Solid Phase Extraction and Sample cleanup

SIMPLER, FASTER, CLEANER CLEANUP FOR GC ANALYSIS

Xevo[®]

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