

Designed for the
Routine, Prepared
for the **Unexpected**

SQ Detector 2



Waters™

Compatible With the Broadest Range of Chromatography Platforms

With the ever-changing analytical demands of the modern laboratory and the increasing requirement to obtain more information about your samples, conventional chromatography detection methods can sometimes fall short.

Mass detection is widely recognized as a reliable method to derive more meaningful information from your samples, but it is still often seen as a technique that requires an expert user.

The Waters™ SQ Detector 2 is a **simple**, **robust**, and **versatile** mass detector, compatible with the broadest range of chromatographic platforms. Our proven technology ensures every analyst can consistently generate the highest quality data with minimal training.

The SQ Detector 2 is a cost-effective, information-rich solution that everyone in the lab can use.

ACQUITY™ PREMIER SYSTEM

Designed with MaxPeak™ HPS Technology and offering true UPLC™ performance, the ACQUITY Premier System facilitates fast analysis times and improves resolution and sensitivity, even for your most challenging separations.



ACQUITY ARC™ PREMIER SYSTEM

A modern, flexible HPLC platform designed with MaxPeak HPS Technology for robust method development and routine testing applications.



ACQUITY UPLC H-CLASS PLUS SYSTEM

Get the flexibility of quaternary or binary solvent blending with the advanced performance of UHPLC analysis.



ACQUITY UPC²™ SYSTEM

Complimentary to both LC and GC, the ACQUITY UPC² convergence chromatography system provides the separation power of normal-phase chromatography with the ease-of-use of reversed-phase LC.



ACQUITY ADVANCED POLYMER CHROMATOGRAPHY (APC™) SYSTEM

Achieve the highest resolution size-based separations for polymer and oligomer characterization, within short analytical run times.



LC PREP AUTOPURIFICATION SYSTEM

Versatile HPLC and SFC solutions, capable of purifying micrograms to kilograms of material.

For the full range of compatible separations systems, please talk to your local Waters representative.

Built on a Solid Foundation

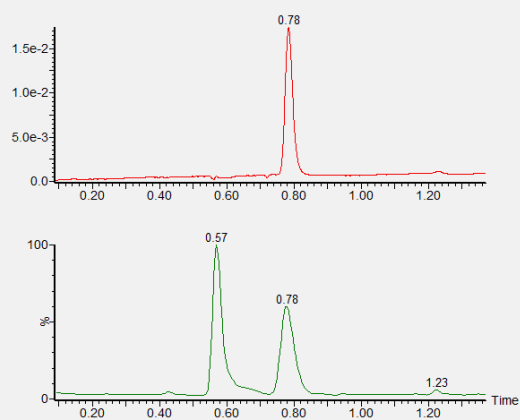
EASY TO USE

IntelliStart™ Automated System
setup for the non-expert user.

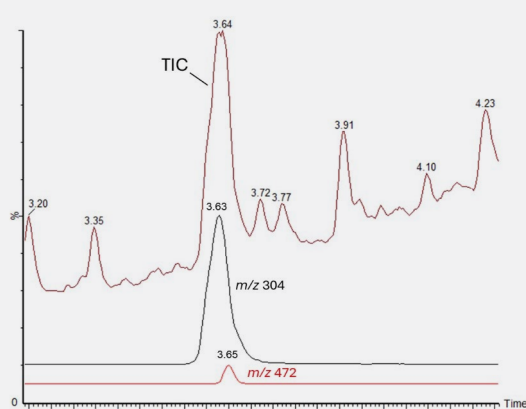
Confidently acquire data
with optimum sensitivity.

Superior service support to
ensure your continued success.

*The ACQUITY PREMIER System
featuring the SQ Detector 2.*



*Small molecule example, top chromatogram is UV data
bottom chromatogram is MS Data generated on SQ
Detector 2.*



Example of co-eluting peaks.

Robust & Reliable

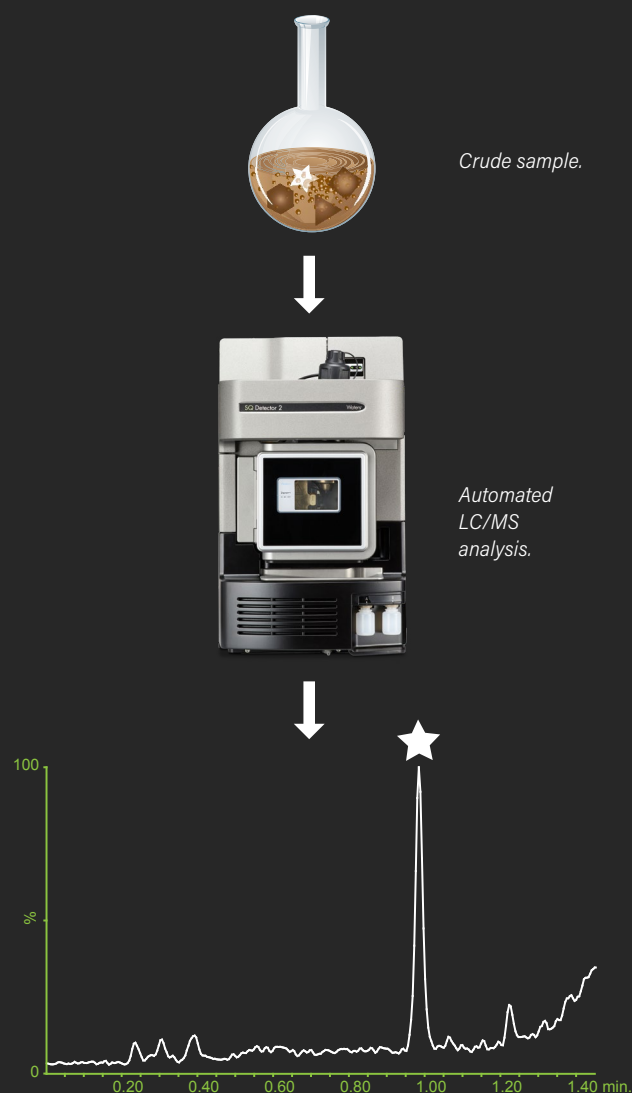
- Robustness by design ensuring high quality analysis with maximum uptime.
- Built on the success of patented Z-spray technology and unrivalled in its tolerance to involatile LC buffers and long-term stability with difficult sample types.

- Seamless integration with Analytical Quality by Design (AQbD) workflows.
- Intuitive interface and user-friendly controls for ease of operation.

With the SQ Detector 2 and OpenLynx™ Open Access Software, mass confirmation is easier and quicker than ever before.

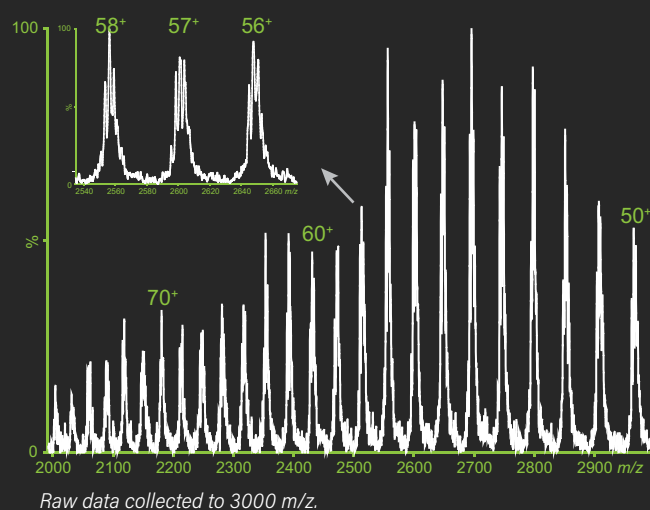
With the 3000 m/z mass range available on the SQ Detector 2, mass confirmation of large molecules is easier than ever before, allowing you to see higher mass peaks and giving you more confidence in your mass assignments.

EFFORTLESS MASS CONFIRMATION

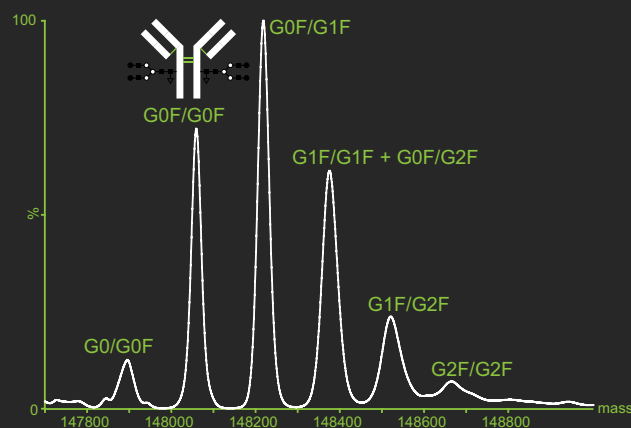


Confirmation of desired expected masses and information about other components.

RELIABLE MASS CONFIRMATION FOR LARGE MOLECULES



DECONVOLUTING THE DATA SHOWS THE MASS OF THE INTACT ANTIBODY



The extended mass range of the SQ Detector 2 enables mass confirmation and glycoprofiling of large biotherapeutics such as monoclonal antibodies (mAbs, ~148kD).

Versatile

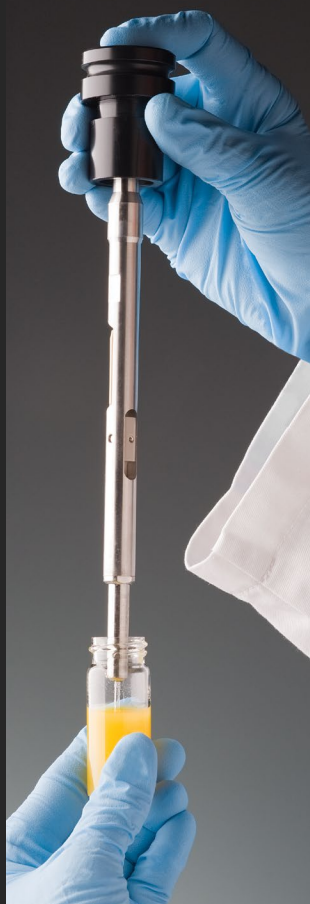
- Compatible with a wide range of chromatographic and non-chromatographic sample introduction techniques.
- Universal ion source architecture to service the widest range of applications.

- Direct analysis with the Atmospheric Solids Analysis Probe (ASAP) allowing for rapid and direct analysis of wide range of solids and liquids, eliminating the need for chromatography or sample preparation.

Whether you need to quickly screen key compounds/ ingredients or check incoming raw materials for consistency and composition, the SQ Detector 2 with the Atmospheric Solids Analysis Probe (ASAP) can help. Needing no chromatography and little or no sample preparation, you can go from sample to result in under a minute.

RAPID, COST EFFECTIVE SCREENING WITH MINIMAL SAMPLE PREPARATION

Dip the probe into the sample.



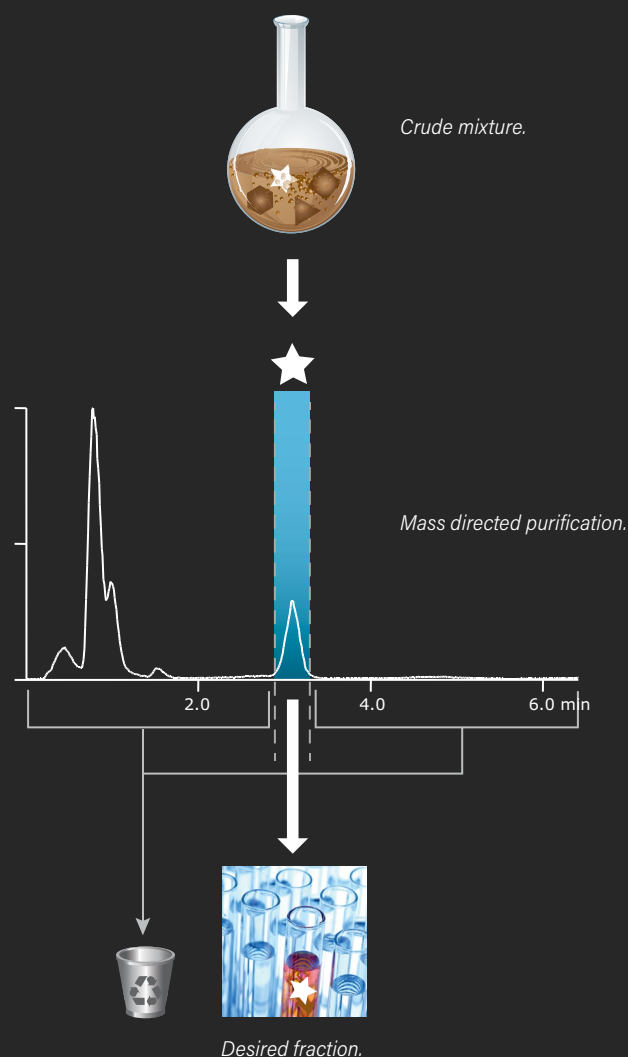
Insert the probe into the instrument for data acquisition.



<15 seconds

Using the SQ Detector 2 as part of a Waters AutoPurification System provides you with the most accurate way to collect the purest fractions possible. Compatible with both HPLC and SFC based systems, mass-directed purification can even be set up with OpenLynx Open Access Software for the ultimate in ease of use.

SIMPLE, ACCURATE PURIFICATION



Achieve More With Flexible Software Solutions

In an ever-changing environment, flexibility can help protect against future unknowns. The SQ Detector 2 is available on both our MassLynx™ and Empower™ Software Platforms.

Our versatile, easy-to-use software platforms will help increase productivity and meet your laboratories requirements.

SIMPLY EFFORTLESS START UP.

IntelliStart simplifies your system setup with a user-friendly interface that automates routine tasks and reduces the burden of complicated operation. This technology means that you don't need to be an MS expert, allowing anyone to quickly and confidently generate reproducible MS data of the highest quality.

INTELLI**START**™



Automated MS resolution and calibration checks



Simple setup of diverse experiments



Automated LC/MS system check



Automated system monitoring



THE SQD2 DETECTOR IS A MASS SPECTROMETER PROVIDING OPTIMUM PERFORMANCE AND EXCELLENT REPRODUCIBILITY FROM THE ROUTINE ANALYSIS OF NEW CHEMICAL ENTITIES, OLIGONUCLEOTIDES, AND PEPTIDES. AT QUALITY ASSISTANCE, IT OPERATES UNDER EMPOWER, PROVIDING HIGH QUALITY DATA IN A FULL-GMP ENVIRONMENT.



Quality Assistance, Contract Research Organization

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 SQ Detector 2, you can:

GET UP AND RUNNING QUICKLY

Get the onsite training and consultation you need to integrate the SQ Detector 2 into your laboratory and assist with data migration and method transfer needs with Waters Professional Services.

MEET YOUR LAB'S UNIQUE REQUIREMENTS

Protect your 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.

FACILITATE 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 single quadrupole mass spectrometry system to the SQ Detector 2 – 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.

waters.com/SQ-Detector-2

For your local sales
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