




REVEAL  
MORE



Q-Sight® Triple Quad LC/MS/MS  
400 Series



**PerkinElmer**  
*For the Better*

# The Triple Quad That Surpasses Expectations

When it comes to analyzing food, cannabis, and environmental samples, we know it can be challenging to meet stricter regulations that demand lower detection limits. We also know that throughput and efficiency are paramount in doing your job and doing it well. You *can* have it all.

Our QSight triple quad LC/MS/MS family has always been known for its robust and reliable performance. But now there's something new – something better: the high-performance 400 series. Our ready-to-implement solution has the highest sensitivity and throughput the industry has ever seen and the capability to test for the most challenging samples and analytes.

With patented flow-based technology; unique, independent dual-probe source; self-cleaning interface design; and intuitive, easy-to-use software, the QSight 400 is more efficient than ever. See what it can do for you.

**The triple quad you know just got even better.**

## INTRODUCTION

QSight Triple Quad LC/MS/MS

▶ Introduction

# See What's Next

The latest in triple quad technology is here. Our QSight 400 LC/MS/MS system, with the QSight LX50 high-performance UHPLC, provides the capability and confidence required to analyze the most complex food, cannabis, and environmental samples. With the highest level of sensitivity and throughput, you'll be able to meet even the most stringent regulatory requirements rapidly, easily, and effectively.

## It's easy to use

Our ready-to-implement methods and robust and reliable instrumentation mean you can run samples immediately. With plug-and-play modules and user-friendly software, you can get from method development and sample prep to results and reporting in no time. Plus, the QSight 400 system's stable, reliable performance means you don't have to worry about recalibration or maintenance – just set and forget.

## It's highly efficient

The QSight 400 system's unique dual source and self-cleaning interface provide high throughput and minimize the frequency of cleaning, making it the most efficient triple quad in your lab. Independently operating ion inlets enable users to collect data in two complementary modes, maximizing the output from a single injection. It's patented core flow-based technology provides natural advantages by utilizing hot gas for efficient desolvation and preventing ions from hitting the side walls, minimizing cleaning needs and enhancing sensitivity.

Find out how the QSight 400 system can futureproof your lab.

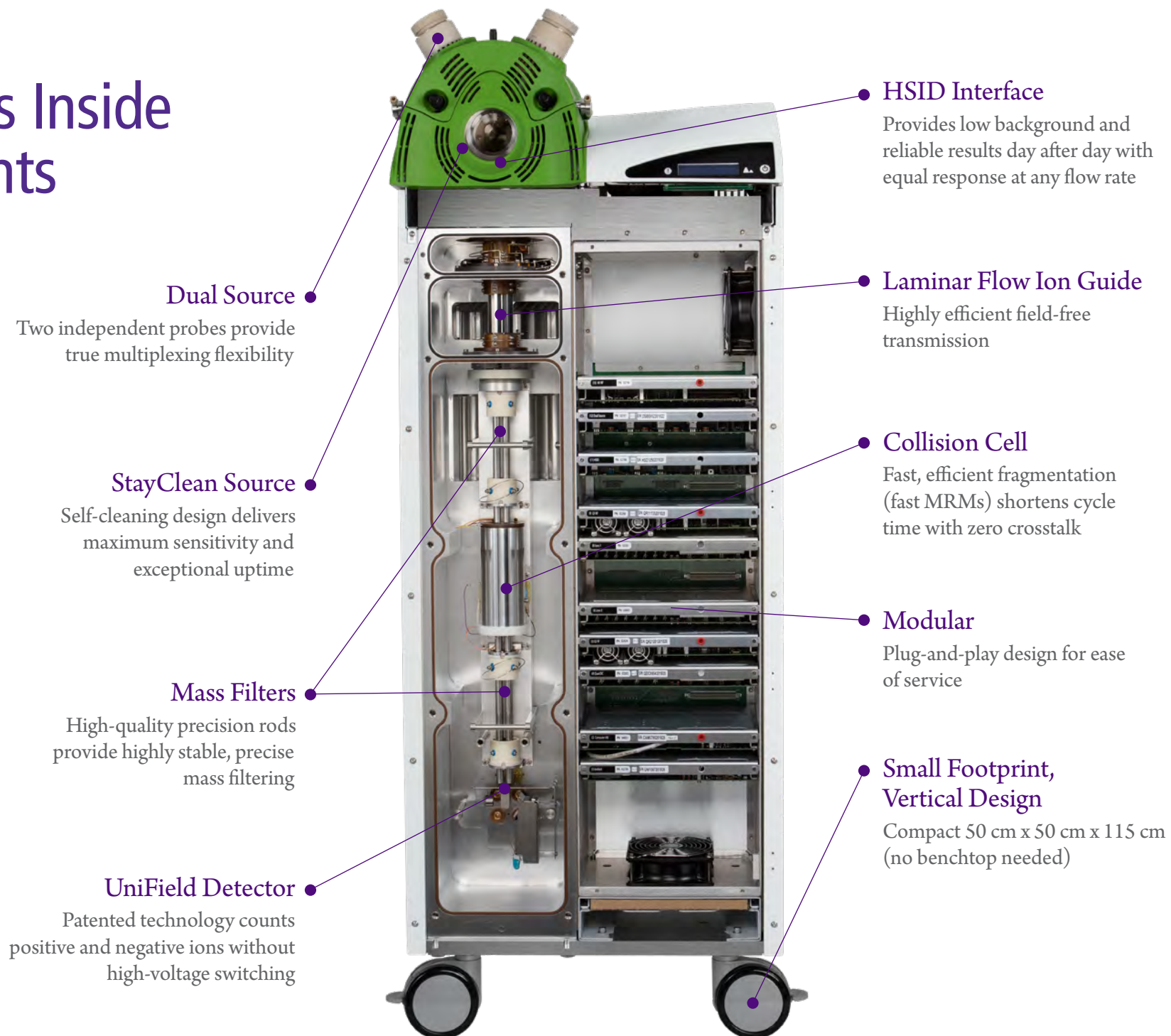


**QSight 400**

Triple Quad LC/MS/MS

▶ QSight 400 Series

# It's What's Inside That Counts



## Dual Source

Two independent probes provide true multiplexing flexibility

## StayClean Source

Self-cleaning design delivers maximum sensitivity and exceptional uptime

## Mass Filters

High-quality precision rods provide highly stable, precise mass filtering

## UniField Detector

Patented technology counts positive and negative ions without high-voltage switching

## HSID Interface

Provides low background and reliable results day after day with equal response at any flow rate

## Laminar Flow Ion Guide

Highly efficient field-free transmission

## Collision Cell

Fast, efficient fragmentation (fast MRMs) shortens cycle time with zero crosstalk

## Modular

Plug-and-play design for ease of service

## Small Footprint, Vertical Design

Compact 50 cm x 50 cm x 115 cm (no benchtop needed)

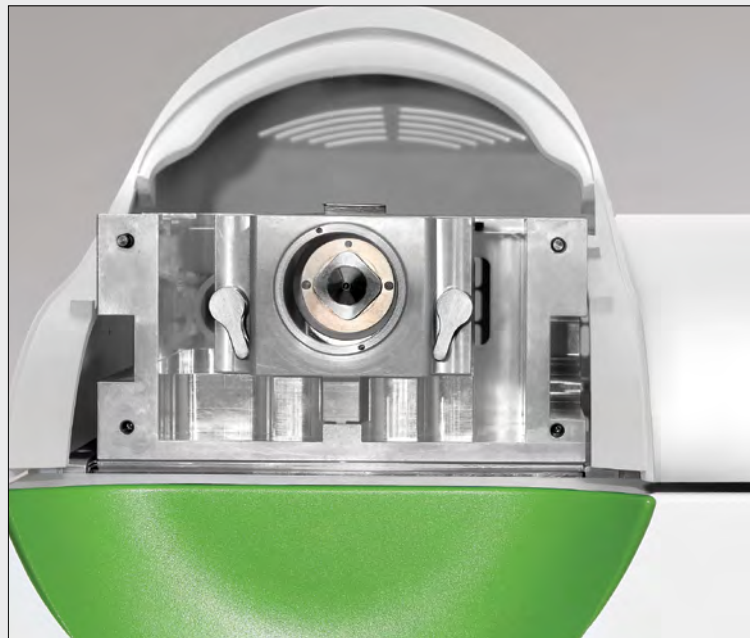
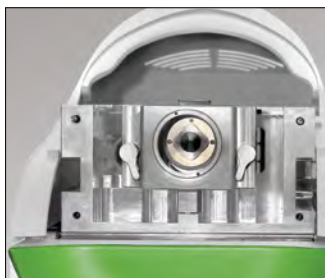
## QSiight 400

Triple Quad LC/MS/MS

▶ QSiight 400 Series

# See What's Below the Surface

From food to cannabis to environmental testing, the QSight 400 LC/MS/MS is the next generation in triple quad detection and quantitation. Click to learn more about what makes this latest series a cut above the rest.



## High sensitivity, even higher productivity

The QSight 400 has **StayClean™ technology** – a hot-surface-induced desolvation (HSID™) system – built right in. The continuous hot gas acts as a cleaning agent, while charged species are entrained and desolvated in the gas' hot flow, reducing chemical noise and providing a higher signal-to-noise ratio. This saves up to three workdays per month on cleaning and maintenance for an estimated 15% higher uptime than other systems. This translates to higher productivity and high return on your investment.

## The most efficient desolvation process

The **coaxial flow electrospray** design prevents dispersion of like charge species in front of the sampling orifice, which creates more effective ion sampling and leads to greater sensitivity. With no cross-flow, turbulent formation is minimized, and ion fluctuation is reduced.

**QSight 400**

Triple Quad LC/MS/MS

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## Go with the flow

Ions are transferred from the HSID interface to the system's **Laminar Flow Ion Guide™**, then moved to the analyzing region by a flow of background gas – no axial electrical fields are necessary. This means the system is not susceptible to field fluctuations and delivers consistently high levels of performance. Instrument drift and frequent reoptimization and cleaning are eliminated, for better productivity.

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## Two sources are better than one

The system features a dual-source configuration that can be set in electrospray ionization (ESI) or atmospheric pressure chemical ionization (APCI) modes, enabling combinations such as ESI/ESI, ESI/APCI, and APCI/APCI – with the same or opposite polarities and with rapid and automated probe switching. Unlike single-source instruments, our dual-source technology enables you to collect data in two complementary modes, maximizing the output from a single injection. These two independent ion inlets enable true multiplexing capability and provide significant advantages in rapid method development.

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## Precise innovations translate to higher performance

The patented **High-Performance Mass Filter** is the first of its kind, providing high resolution without sacrificing transmission. You get better selectivity better signal-to-noise ratio with no compromise in sensitivity.

**QSight 400**

Triple Quad LC/MS/MS

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## Fast, efficient fragmentation

The QSight **triple quad collision cell** is designed for fast and efficient fragmentation. Its special design helps create a high field at entrance and a low field at exit, facilitating ion movement quickly by field gradient. This rapid movement shortens cycle time (fast MRMs) without signal loss and with nearly zero crosstalk, high sensitivity.

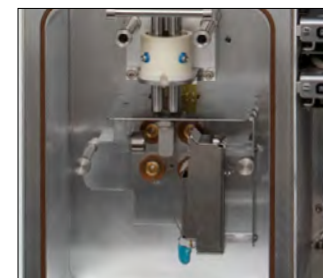
**QSight 400**

Triple Quad LC/MS/MS

[▶ QSight 400 Series](#)

# See What's Below the Surface

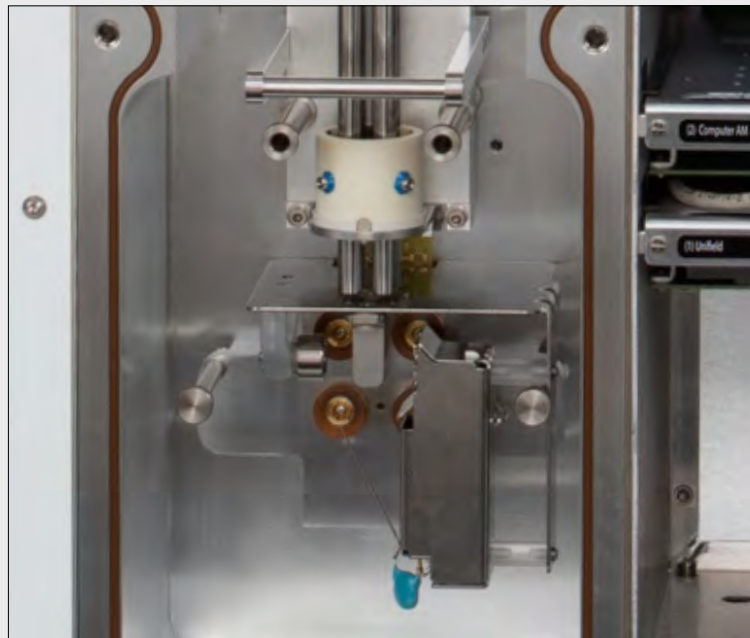
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Triple Quad LC/MS/MS

[▶ QSight 400 Series](#)



## See how easy it is to switch

With its high-energy dynode to attract positive ions, the QSight system's **UniField Detector™** causes positive ions to collide with the dynode to form electrons (which cascade into the detector) while negative ions are detected as usual for pulse counting. What you get is near-simultaneous detection of positive and negative ions without the need for high-voltage switching. Polarity switching happens in microseconds, limited only by the ion source and ion path polarity switching – not by the detector.

# A Powerful Mass Spec For Whatever Work You Do

There's a member of the ready-to-implement QSight LC/MS/MS family to fit whatever applications your lab relies on most. Across the portfolio, you'll find the same trusted, proven detection technologies with shared capabilities, including StayClean, HSID, torrent dual source, UniField Detector, and modular stacked electronics with a powerful and precise UHPLC front end – the QSight LX50 UHPLC. These instruments are the go-to solution for diverse sample types and tough matrices in the food, cannabis, and environmental industries.

## QSight 400 LC/MS/MS

The flagship of the QSight family, this robust, powerful triple quad system delivers the exponentially better sensitivity and throughput that commercial testing labs, global food manufacturers and exporters, and highly regulated cannabis labs need to meet their most stringent requirements. It provides the ultimate quantitation performance – exceeding most requirements – and essentially futureproofs your lab.

## QSight 200 LC/MS/MS

This reliable, robust LC triple quad workhorse provides exceptional sensitivity with high throughput for confident quantitation in commercial testing, food testing and manufacturing, cannabis analysis, and environmental quality control. It's the perfect instrument for labs that need uncompromising – and accessible – high performance.

## QSight 100 LC/MS/MS

For routine analysis of everyday samples in simpler matrices, our value triple quad still delivers rugged high performance, linearity, and sensitivity in an affordable, compact footprint. This is your everyday partner for confident quantification.



## QSight Family

Triple Quad LC/MS/MS

 QSight Family

# Consumables – from Analysis to Results

A seamless supply of high-quality laboratory consumables is vital to ensure optimal performance. Our broad range of validated columns, cartridges, vials, and other required consumables and spares supports your chromatographic separation and mass spectrometry experiments. Our comprehensive portfolio of consumables and accessories is designed to ensure you receive accurate, repeatable results throughout the lifetime of your instrument.



## QSight SP50 Online Solid Phase Extraction (SPE) System

The QSight SP50 family of UHPLC and SPE modules allows you to quickly and easily switch from running traditional UHPLC analyses to accommodating the increased productivity and sensitivity benefits of fully automated, online solid phase extraction and sample preconcentration.

The QSight SP50 Automated Sample Handler – a high-precision UHPLC autosampler – is designed to accurately introduce samples from a variety of vial formats and coordinate the flow switching required for online SPE. Complementing this, the QSight SP50 High Pressure Dispenser (HPD) is responsible for performing the accurate delivery of conditioning, washing, and loading solvents at controlled flow rates at pressures of up to 300 bar. The HPD allows for the selection of up to nine solvents, allowing one to create the optimal sample preparation method. Complete the system with the QSight LX50 solvent delivery module and the QSight LX50 column temperature module to create the ultimate high-performance UHPLC-SPE system.



## Consumables and Accessories

QSight Triple Quad LC/MS/MS

▶ Accessories and Consumables

# Software That's Simplicity Itself

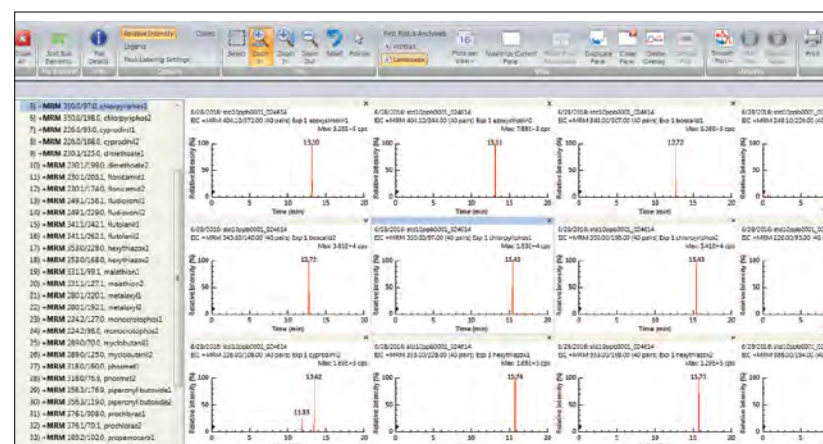
With Simplicity™ 3Q software, it's all about achieving the best results – and insights – from your QSight system. So it's designed modularly for intuitive, straightforward operation, with wizards guiding you through the workflow, from method development to results processing and reporting.

The comprehensive Simplicity 3Q software suite modules include:

▶ **Simplicity 3Q Acquire**

## Simplicity 3Q Acquire Software

Streamlines acquisition method development and batch acquisition, with the highest levels of automation – including multiple reaction monitoring (MRM) tuning. It's capable of real-time acquisition of more than one thousand MRMs and simultaneous display of large numbers of transitions, making it the ideal choice for high-throughput laboratories.



Simultaneous review of several analyte MRMs.

## Simplicity 3Q

Software

▶ **Simplicity 3Q Software**

# Software That's Simplicity Itself

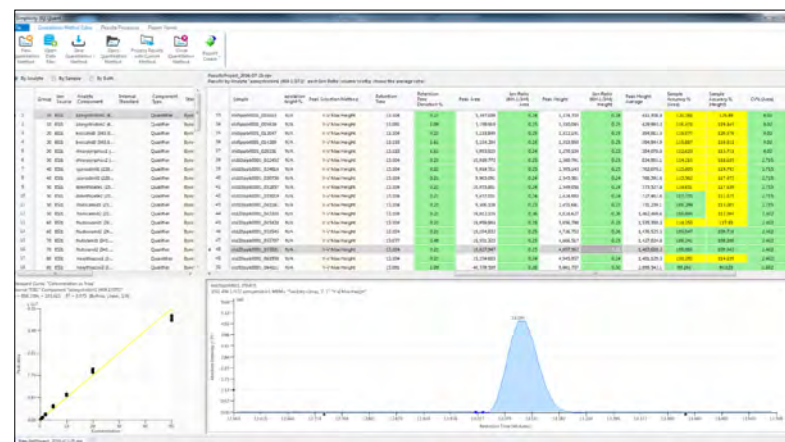
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## ▶ Simplicity 3Q Quant

### Simplicity 3Q Quant Software

The go-to software for rapid MRM method development, data analysis, and reporting, perfect for autopopulation in data acquisition files, for an exceptionally smooth, streamlined workflow. And the software's RapidView Heads-up Display™ lets you concentrate on the data – without searching for your tools, actions, or results.



Intuitive result table display focuses on results needed for a quantitation workflow.



## Simplicity 3Q Software

## ▶ Simplicity 3Q Software

# Software That's Simplicity Itself

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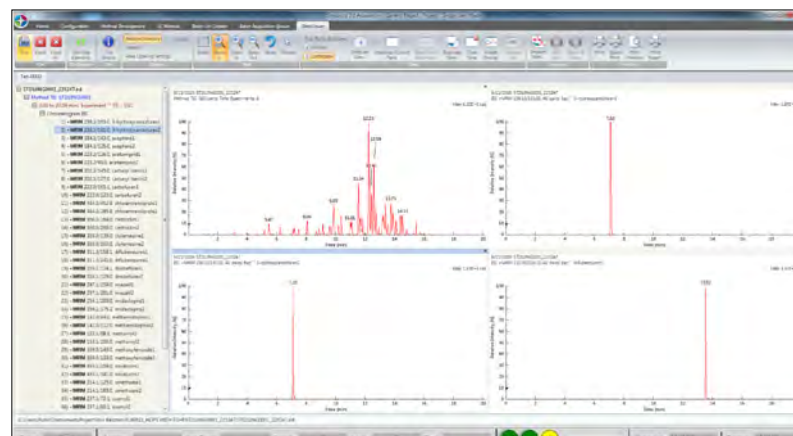
The comprehensive Simplicity 3Q software suite modules include:

▶ Simplicity 3Q View



## Simplicity 3Q View Software

Delivers flexible multianalyte viewing, overlay plotting, and signal-to-noise analysis and ion source controls that support the system's dual-source technology, for high throughput, accelerated compound development, and easy system optimization. It also provides total ion currents (TICs) and extracting ion currents (XICs) for data exploration and evaluation, including background subtraction and signal to noise.



Displays and processes live or post-acquired data.

## Simplicity 3Q

Software

▶ Simplicity 3Q Software

# Software That's Simplicity Itself

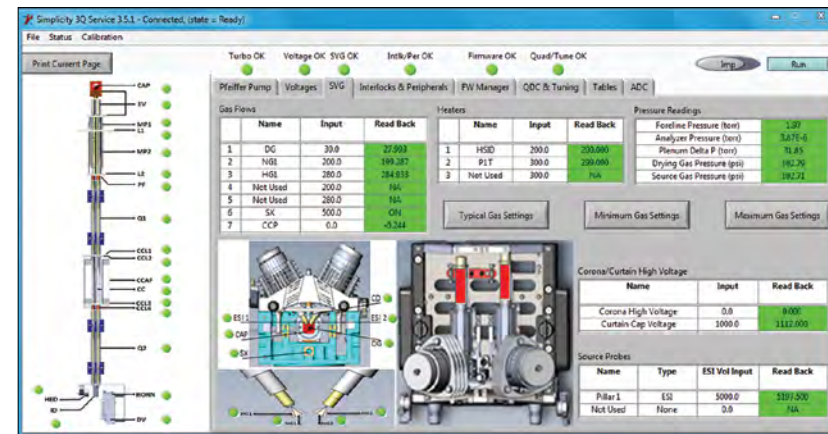
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The comprehensive Simplicity 3Q software suite modules include:

▶ Simplicity 3Q Service

## Simplicity 3Q Service Software

Uses AdvIO™ electronics to review all settings and feedback, diagnosing or ruling out hardware concerns quickly. And because diagnoses are extremely accurate, downtime is diminished, while repairs are done efficiently and effectively – without return calls.



Intuitive, real-time read-back facilitates instrument troubleshooting.

Simplicity 3Q  
Software

▶ Simplicity 3Q Software



# Taste the Efficiency

Our tastes are changing, and food trends are evolving – and becoming more global. With today's integrated, yet far-reaching supply chains, manufacturers are sourcing raw materials from and exporting processed products to many countries – and interfacing with various regulatory environments along the way. This global sourcing environment, and the rising instances of food adulteration and fraud, have compelled food-quality-and-safety authorities to design and implement new, more effective regulations to contain emerging food contaminants.

To keep up with a complex and constantly changing regulatory environment for both manufacturers and commercial testing labs, our QSight LC/MS/MS, with the QSight LX50 UHPLC, proves to be a rugged, reliable solution for addressing food safety applications, as well as testing for food quality and nutritional components.



The QSight series LC/MS/MS includes standard SOPs that detail sample preparation procedures, acquisition methods, and much more. Click here to see how to test for pesticide residues, veterinary drug residues, mycotoxins, acrylamide, hormones, and vitamins in the food and feed supply.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 [Food Applications](#)



## Testing for Pesticide Residues

Used in crop production to control pests, weeds, and diseases, and to increase yield, pesticides are often country- or region-specific due to differences in legislation, weather, and production methods. Pesticides residues in crops not only affect quality, but they can also threaten consumer health. Because it's critically important to monitor the presence of pesticides, several countries and regions, including the United States, China, Brazil, India, Japan, and the European Union, have established maximum residue levels (MRLs) of pesticides in food and feed.

Our QSight LC/MS/MS, together with the QSight LX50 UHPLC system and multiple residue method (MRM) pesticide screening models, provides the required level of sensitivity to confidently detect and quantitate pesticides, meeting MRLs for both polar and nonpolar pesticides in rice, fruits and vegetables, cereals, and wine.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications



## Detecting Veterinary Drug Residues

Veterinary drugs are used in animal production to treat diseases, prevent infection, and promote growth. But improper use of veterinary drugs can lead to residue violations in food products and possible health risks. Regulatory agencies around the world have established maximum residue levels (MRLs) and tolerances of veterinary drugs in residues. With advancements in chromatographic and mass spectroscopy capabilities, typical single-class methods have been replaced by multiclass, multiresidue methods for monitoring all targeted drugs.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications



## Analyzing for Mycotoxins

Mycotoxins in feed, crops, and various foods are known to pose a serious health hazard to both livestock and humans. They're produced by fungi as toxic secondary metabolites, with grains, maize, and cereals being particularly vulnerable. Considering that an estimated 25% of all crops show some signs of mycotoxin contamination, many countries have established regulatory guidelines for maximum mycotoxin limits in feed, grain, and processed food products, notably cereal and baby food.

The current global regulatory limits require a reliable and robust LC/MS/MS method for monitoring a range of mycotoxins, including aflatoxins B1, B2, G1, and G2; ochratoxin A; HT-2 and T-2 toxins; and ergocristine and fumonisins F-B1 and F-B2.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications



## Detecting Acrylamide

Acrylamide is an amide-type organic compound that can be formed by cooking or processing food at elevated temperatures – generally higher than 120 °C (especially starch-rich compounds such as potatoes and cereals and coffee beans during roasting). Acrylamide is formed mainly in food by the reaction of the amino-acid asparagine with reducing sugars as part of the Maillard reaction.

Acrylamide is classified as a probable carcinogen for humans (Group 2A) by the International Agency for Research for Cancer (IARC), based on animal studies. Although part of our diet since we began cooking food, acrylamide has been a safety concern since its discovery in 2002, prompting world experts to publish reference levels and labeling standards. The QSight LC/MS/MS system is a robust platform for analysis of trace acrylamide levels in compliance with European and other major regulations.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications



## Testing for Hormones

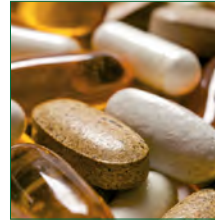
In recent years, there have been concerns about exogenous compounds called plant growth regulators (PGRs) being used to regulate growth of cultivated plants, weeds, and *in vitro* grown plants and plant cells. The accelerated growth is great for production, but PGR residues are known to be harmful to consumer health. The QSight LC/MS/MS provides a robust platform for analysis of trace-level PGRs and can easily meet limits set by the regulatory bodies.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications



## Analyzing for Vitamins

Vitamins are micronutrients necessary in small amounts for various metabolic functions throughout the human body. They can be separated into two groups – water soluble and fat soluble. As there are human daily nutritional recommendations for these vitamins established by the Food and Drug Administration (FDA), food and supplement manufacturers and independent testing labs need to be able to quantitatively verify the vitamin content in food products.

Due the wide range of concentrations of vitamins, in keeping with daily required values, there's a need for quantitative analytical procedures that can accommodate their testing.



## FOOD APPLICATIONS

QSight Triple Quad LC/MS/MS

 Food Applications

# Sensitive. Selective. Robust.

The cannabis industry is growing larger and faster than ever. And for testing labs, analyzing cannabis can be challenging, from laboratory setup and ensuring maximum throughput of samples to generating client reports and preserving data integrity. And more importantly, as state and country rules and regulations evolve, cannabis labs need instrumentation and support that can meet the latest, strictest demands.

Our QSight 400 triple quad gives you the confidence to test rapidly, easily, and effectively – perfect for labs like yours that need to comply with current stringent regulations and to futureproof in a dynamic regulatory environment.

## Turnkey Method for Pesticide and Mycotoxin Analysis

LC/MS/MS technology has emerged as the method of choice for pesticide and mycotoxin analysis in cannabis. Our ready-to-implement QSight 400 LC/MS/MS system with dual-source technology and probe-independent switching (APCI/ESI) enables us to develop ready-to-implement methods to analyze all internationally regulated pesticides and mycotoxins on a single instrument. StayClean technology addresses matrix-induced maintenance, virtually eliminating downtime and improving throughput.



## CANNABIS APPLICATIONS

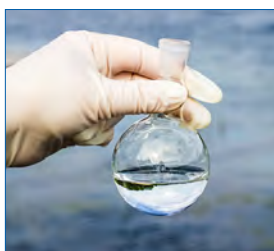
QSight Triple Quad LC/MS/MS

▶ Cannabis Applications



# Good Stewardship Starts with Great Science

Through air, water, and soil we're continuously interacting with our environment, and with billions of chemicals released into the environment each year, understanding their impact on humans, animals, and plants is vital. Plus, emerging contaminants – pharmaceutical and personal care products (PPCPs), endocrine disrupter compounds (EDCs), polycyclic aromatic hydrocarbons (PAHs), brominated flame retardants (BFRs), and natural toxins – make analyzing even more challenging. Scientists are looking for reliable methods to detect and quantify environmental contaminants, and our QSight LC/MS/MS is a robust partner for screening, identification, and quantitation of low-level chemical contaminants in the environment.



## Analyzing for Pharmaceutical and Personal Care Product Contaminants

Pharmaceutical and Personal Care Products (PPCPs) are an emerging environmental concern, including prescription and over-the-counter medications, sunscreens, lotions, soaps, and insect repellants. Identifying and quantifying these pollutants in surface waters – particularly in rivers and lakes – has been a growing focus. Because PPCPs encompass a wide variety of chemical classes and types and are typically present at parts per million or even parts per trillion concentrations in surface waters, there's a need for optimal analytical method that provides effective chromatographic separation, as well as optimal analyte sensitivity. UHPLC-MSMS is ideally suited for such analysis – UHPLC provides optimal chromatographic separation and MSMS provides optimal sensitivity and specificity.

ENVIRONMENTAL  
APPLICATIONS

QSight Triple Quad LC/MS/MS

▶ Environmental  
Applications

  
**PerkinElmer**  
For the Better

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## Testing for Endocrine Disrupter Compounds

Endocrine disrupting chemicals (EDCs) can have harmful effects on humans and wildlife. Of these EDCs, testing for endogenous estrogens is crucial due to their potency and physiological activity, even at low levels. This makes them an important environmental target, as hormonal drugs are frequently discarded by flushing down drains, making their way into rivers and lakes. We've developed an effective and robust preconcentration/enrichment and chromatographic separation method using QSight SP50 Online SPE coupled with QSight LC/MS/MS. This approach allows for efficient analyte concentration, eliminating the need for elaborate and time-consuming sample preparation procedures. And it fulfills the challenging task of monitoring for low-level estrogens in river water.

ENVIRONMENTAL  
APPLICATIONS

QSight Triple Quad LC/MS/MS

▶ Environmental  
Applications

  
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## Disinfection Byproducts

Disinfection byproducts (DBPs) result from chemical reactions between organic and inorganic matter in water with treatment agents during the water disinfection process. These disinfectants react with naturally present organic matter to produce a range of DBPs, one of which is Haloacetic Acids (HAAs). Considering their known carcinogenic impact and association with reproductive issues in humans, their maximum contaminant levels (MCL) have been regulated by U.S. Environmental Protection Agency (EPA). An easy, fast, and robust method was developed using QSight LC/MS/MS coupled with QSight LX50 UHPLC to analyze five haloacetic acid residues in potable drinking water, with limits of quantification (LOQs) well below the regulatory limits.

ENVIRONMENTAL  
APPLICATIONS

QSight Triple Quad LC/MS/MS

▶ Environmental  
Applications

  
**PerkinElmer**  
For the Better

# We Have Laboratory Services Down to a Science

In today's complex laboratory environments, every function has to work in sync toward the common goal: lab efficiency in the service of scientific discovery and progress. And that's the overarching goal of OneSource® Laboratory Services, too. We deliver solutions that cover all aspects of scientific lab operations and can be customized for the scientific workflows – and business outcomes – you're driving toward.



## The Path to Lab Efficiency Starts Here

OneSource Laboratory Services provides customized solutions that turn asset data into actionable, automated, predictive, and scalable insights.

- Asset data and performance analytics
- Instrument and asset operations and information technology (OT/IT)
- Laboratory efficiency consulting and noncore resources
- Compliance services
- End-to-end laboratory relocation project management

From everyday instrument repair and service to compliance and validation, from laboratory IT service to consulting and scientific staffing, OneSource Laboratory Services can help streamline your lab routines and get your scientists back to their main order of business – *science*.

**OneSource**  
Laboratory Services

 Service and Support



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**OneSource**  
Laboratory Services

## Beyond Break-and-Fix

### *Instrument Service and Repair*

OneSource service plans are the best way to maximize your instrument investment with solutions designed for optimized performance and accurate, reproducible results – all while enabling you to adhere to your most stringent regulatory compliance standards. What's more, our plans guarantee a rapid response from our dedicated world-class engineers who are recertified on an ongoing basis.

**OneSource**  
Laboratory Services

 Service and Support

  
**PerkinElmer**  
For the Better

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**OneSource**  
Laboratory Services

## Maximize Your Investment

### *Training and Educational Services*

Get the most from your PerkinElmer instrument platform by learning from the experts. We offer basic and advanced training at your facility, as well as classroom training to broaden your knowledge, share with fellow researchers, and learn from field application scientists.

- **Basic on-site training:** Hands-on instrument training at your location that covers the basics
- **Advanced on-site training:** In-depth training at your location to enable peak instrument performance for your specific lab requirements
- **Classroom training:** Offered at PerkinElmer Centers of Excellence located throughout the Americas, Europe, and Asia

**OneSource**  
Laboratory Services

 [Service and Support](#)

  
**PerkinElmer**  
For the Better

For more information about the QSight triple quadrupole LC/MS/MS 400 series, go to [www.perkinelmer.com/QSight](http://www.perkinelmer.com/QSight)

PerkinElmer, Inc.  
940 Winter Street  
Waltham, MA 02451 USA  
P: (800) 762-4000 or  
(+1) 203-925-4602  
[www.perkinelmer.com](http://www.perkinelmer.com)



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