SCIEX

SCIEX 5500+ system and 5500+ system – QTRAP

Quantitative performance by design



danaher

The power of precision

Built for quantitative performance

The 5500+ system series continues the SCIEX legacy of groundbreaking innovations for quantitative performance

Combining patented mass spec technologies with sophisticated yet intuitive software, the 5500+ system delivers a high level of sensitivity, robustness and productivity for the most demanding quantitative analyses. This LC-MS/MS system will help you respond to low-level trace detection and quantification challenges with ease while meeting regulatory requirements.



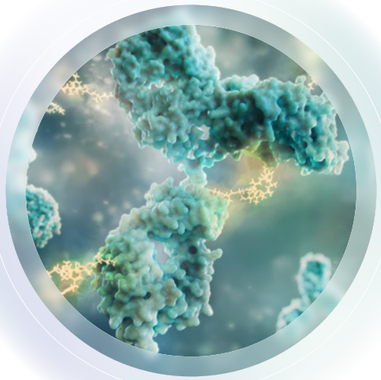
Environmental testing



Life science and clinical research



Forensic testing



Pharma and biopharma



Food and beverage testing



Engineered for enhanced quantitative performance

Patented Curtain Gas interface

Proven protection against mass spec contamination providing consistent data quality over long runs with minimal downtime.

Patented Dual QJet ion guide

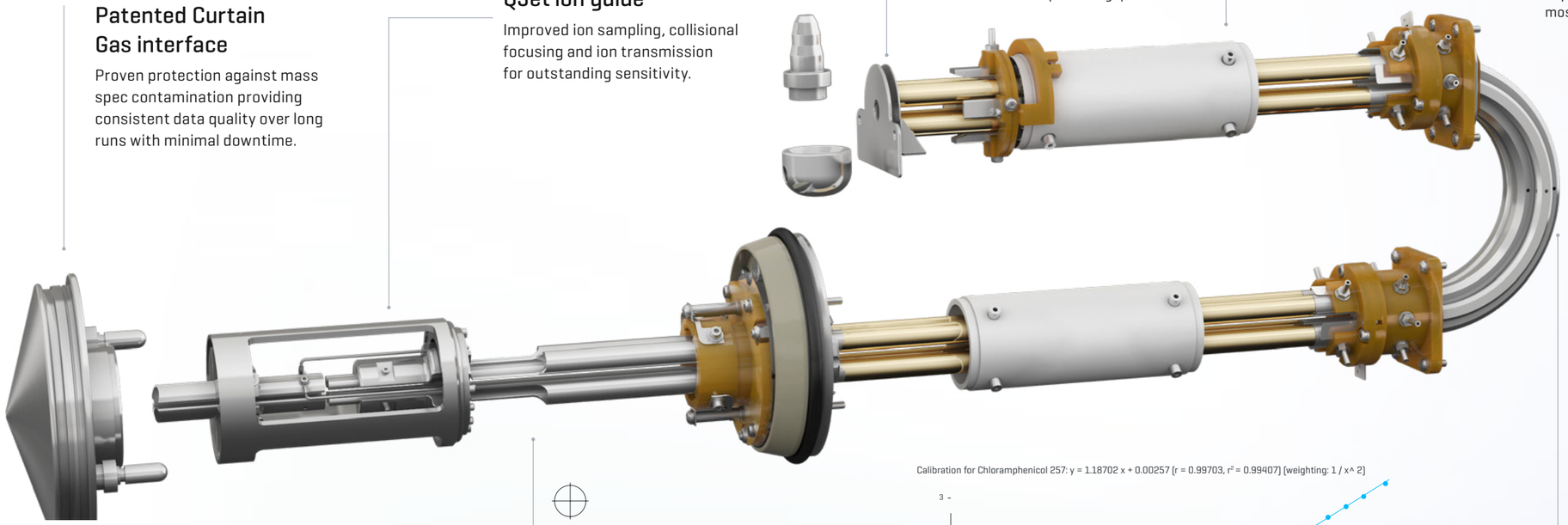
Improved ion sampling, collisional focusing and ion transmission for outstanding sensitivity.

High Energy Dynode (HED) detector

Full dynamic range up to 6 orders of magnitude and fast polarity switching of 5 msec for an increased sample throughput.

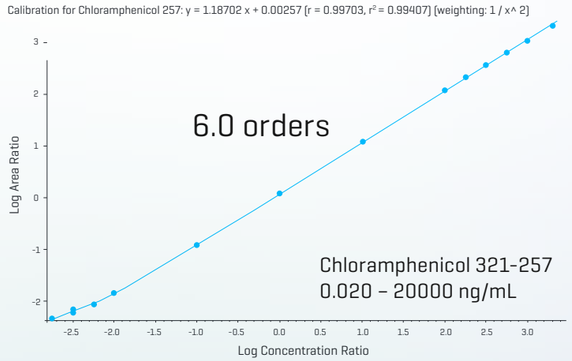
Patented Linear Accelerator trap

The SCIEX 5500+ system — QTRAP offers linear ion trap functionality, delivering advanced MS^3 qualitative results and unprecedented selectivity for the most challenging analytical assays.



Patented QO high pressure cell

High pressure collisional focusing technology enhancing ion transmission for improved sensitivity.



Linear dynamic range to 6 orders of magnitude

Patented Qurved LINAC collision cell

For fast, true collision-induced fragmentation generating reliable, information-rich, library searchable MS/MS spectra time after time. Ideal for UHPLC and high throughput analyses with hundreds of compounds.

Behind every exceptional mass spec is an exceptional ion source

Rugged and reliable, easily interchangeable ion sources are available for a wide range of applications and flow rates to suit your analysis needs. Rapid source change-over extends system flexibility with minimum downtime. All temperature, gas, and electrical connections are fully integrated into the source housing—no extra lines to attach and no lost time. The system automatically detects and identifies the source without having to make hardware profile changes.

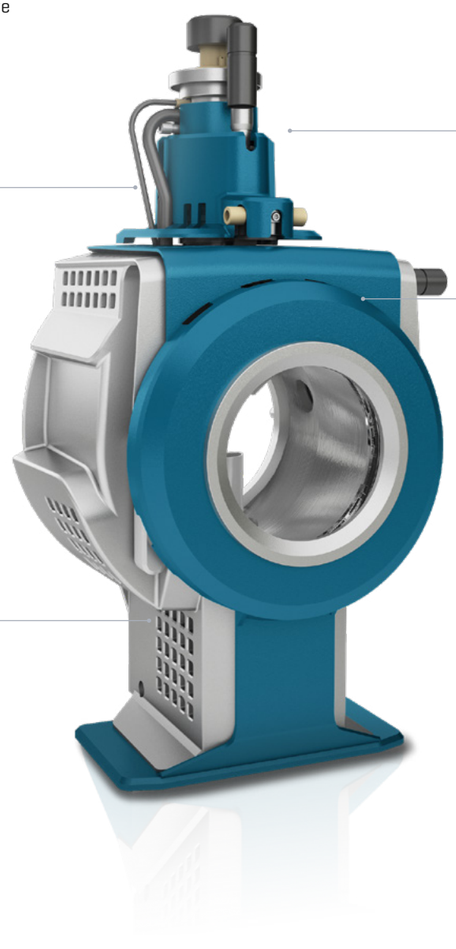
Turbo V ion source – robustness and flexibility for all your analytical workflows

Extraordinary robustness in performance

The simplistic source architecture and orthogonal spray design provides uniform temperature distribution and optimized curtain gas flow to improve robustness and ruggedness

Simple plug and play ion source design

A tool-free source design enables plug-and-play capability with almost zero maintenance



Versatile flow ranges

Covering flow ranges of 5 µL/min to 3 mL/min

Wide compound class coverage

The ability to quickly interchange ionization modes between APCI and ESI enables wider compound class coverage and easy and faster method development

OptiFlow Turbo V ion source – robustness and simplicity for your high sensitivity microflow analyses

Maximized peak shape integrity

Direct column - to electrode connection – minimizes post column dead volume

Retention time reproducibility

Integrated column heater with an expanded range up to 90°C



Tool-free setup based on the trusted

Turbo V source design and with finger-tight fittings

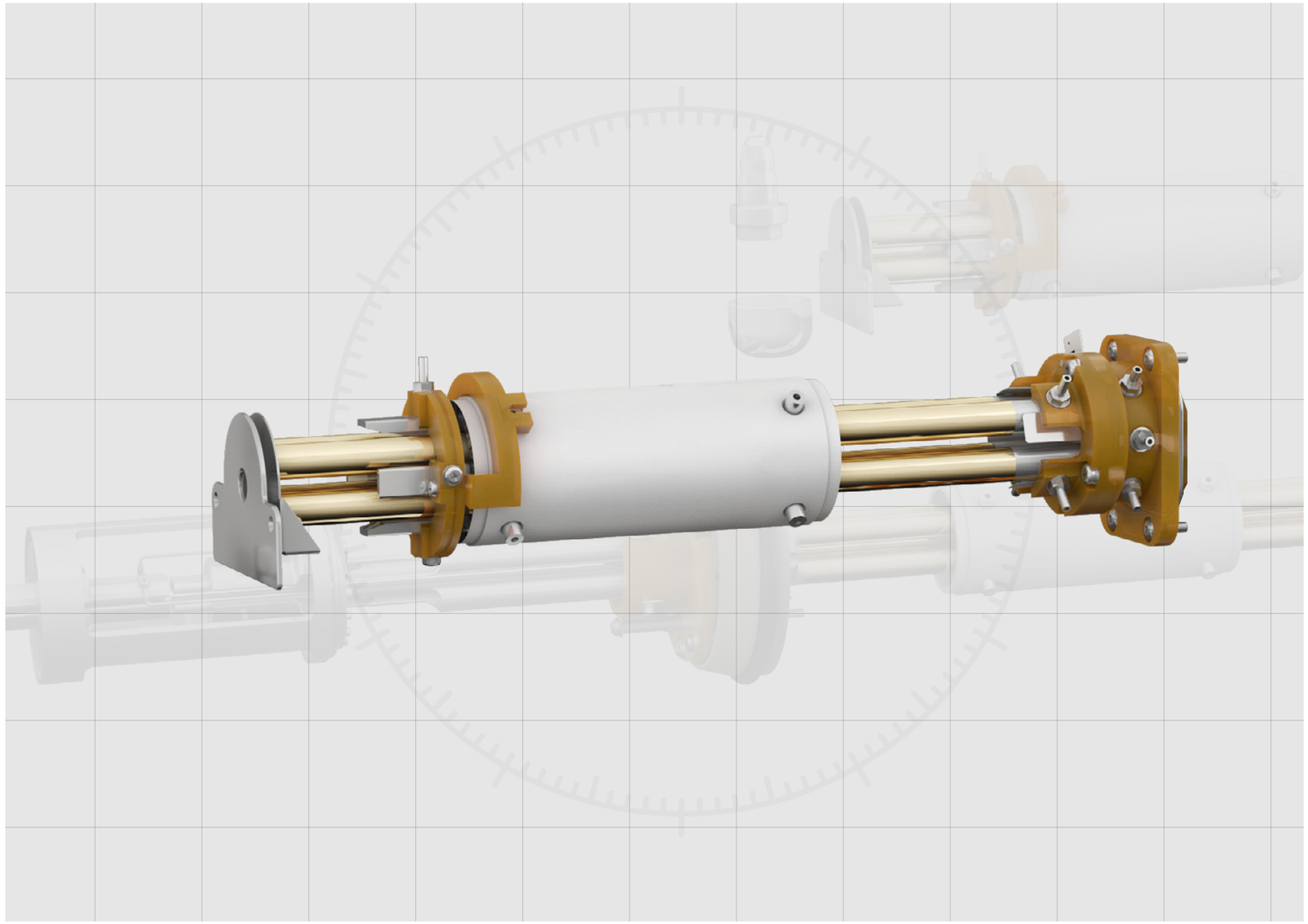
Eliminate all manual source adjustments

Intelligent probe recognition supporting a wide flow rate range from 1 – 200 µL/min

5500+ system – QTRAP

SCIEX QTRAP mass spectrometers extend the capabilities of traditional triple quadrupole LC-MS/MS by integrating linear ion trap functionality into the mass analyzer. Rather than choosing between quantitative performance and qualitative insight, the SCIEX 5500+ system - QTRAP supports both, enabling laboratories to streamline workflows while maintaining confidence in compound identification, even in complex matrices.

- Multiple reaction monitoring (MRM), for gold standard LC-MS/MS quantification
- Enhanced product ion (EPI) for added confirmation and greater confidence in your data
- MRM3 provides quantitative data but also helps remove interferences from highly complex matrices for clear target analyte identification
- Enhanced multiply charged (EMC) for an improved signal-to-noise of multiply charged ions
- Enhanced resolution (ER) for greater resolution on triple quadrupole
- Enhanced MS (EMS) for full scan workflows



Software integration to power your workflows

Powerful, workflow-driven software ties everything together to deliver a new benchmark in efficiency, throughput, and productivity. Take full advantage of all the power that the SCIEX 5500+ system series puts at your fingertips with fully integrated software designed to enhance fast adoption and easy operation.

SCIEX OS software – your workflow software optimized for qualitative and quantitative data analysis

SCIEX OS software is the integrated platform for multiple workflows for acquiring triple quadrupole data. From performing high-throughput screening MRM data processing, to non-targeted investigations – all the tools you need are at your fingertips, without sacrificing time, valuable samples, or results. The software simplifies compound identification, quantitation, and data review, so your lab can master the speed, power, and accuracy offered by LC-MS/MS technology.



The power of precision

SCIEX Now support network

SCIEX Now

- Manage your instruments.
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- Access online training courses and articles.
- Manage software licenses linked to your registered instruments.
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SCIEX Now learning hub

- SCIEX Now learning hub success programs provide LC-MS and CE training customized to meet your exact needs.
- With a selection of training methods and certifications available, you can build a mass spectrometry program that is most suited to your lab and users.
- Starting with a clear understanding of your desired learning outcomes, we aim to help you improve lab productivity and consistency by designing and delivering a program that is focused on knowledge advancement and retention.

Find out more

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For our office locations, please call the division headquarters or refer to our website at
sciex.com/offices

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