

SCIEX OS Software – A Complete Software Solution

Bring new power to your LC-MS and LC-MS/MS workflow with next generation SCIEX software for MS Control, Data Processing and Reporting.

Mass Spectrometry and the Data Challenge

Mass spectrometry continues to provide more comprehensive data than we ever imagined possible. With this abundance of data comes additional challenges related to fast interpretation to achieve actionable results.

Laboratories can be overwhelmed with:

- Large data sets that reduce throughput
- High training costs for multiple software platforms across the lab
- Manual review of the data-requiring significant time and introducing inconsistencies
- Maintaining compliance in regulated environments

Analytical laboratories need powerful software solutions that can process increasing volumes of data faster and across a broader spectrum of instruments. SCIEX OS Software 1.4 is the control system for the X-Series of SCIEX mass spectrometers, incorporating the ability to rapidly control, acquire and analyze laboratory data. With this release comes the capability to process data generated by our Analyst® Software and Analyst® TF Software applications. Now, data processing for all SCIEX Triple Quad™, QTRAP® and TripleTOF® instruments as well as the X500R and X500B QTOF systems can be performed in a single software interface (Fig. 1).

License Name	Core Licenses		
	SCIEX OS	SCIEX OS-Q	SCIEX OS-MQ
Instrument Compatibility	X-Series QTOF ONLY	All	All
Acquisition	✓		
Qualitative Processing	✓	✓	
Quantitative Processing	✓	✓	✓
Additional Features and Companion Software			
CFR Part 11 Tools	+	+	+
ChemSpider (1-Year)	+	+	
LibraryView™ Software	Included	Included	
Bio Tool Kit Software	+	+	+

Figure 1. SCIEX OS Software Licenses

NEW Capabilities in SCIEX OS Software

Customizable to Your Workflow

Intuitive Single Software Solution for Quantitative and Qualitative Workflows

SCIEX OS Software uses dedicated modules for workflow-specific tasks, such as acquisition, qualitative or quantitative analysis and reporting (Fig. 2).

- Explore your non-targeted screening data with the qualitative tools at hand in the Analytics workspace in SCIEX OS-Q (Fig. 3).
- Similarity with MultiQuant™ Software decreases learning curve with SCIEX OS-MQ (Fig. 4).
- The software can be complemented with additional features and by adding companion software (Fig. 1).

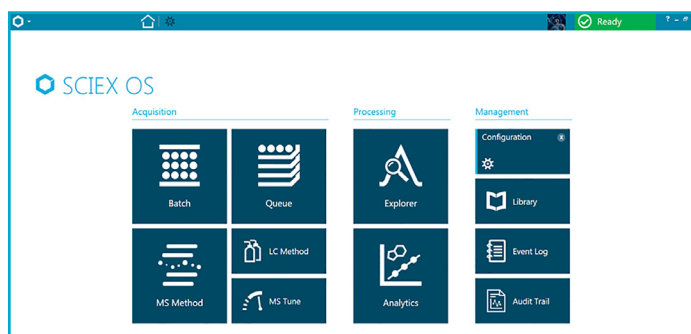


Figure 2. SCIEX OS Software full license graphical user interface with complete functionalities: Acquisition, Processing and Management in one place.



Figure 3. SCIEX OS-Q Software graphical user interface offering qualitative and library features.

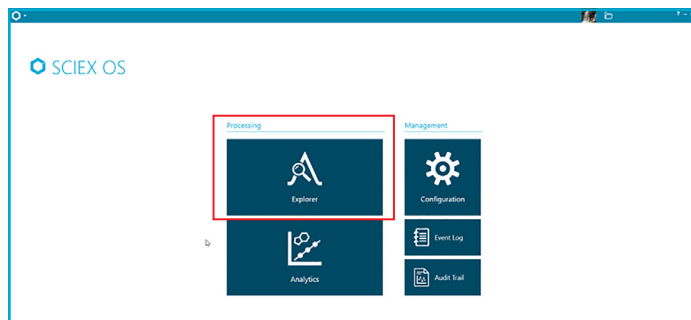


Figure 4. SCIEX OS-MQ Software graphical user interface with Explorer Workspace providing the functionality for manual investigation of data, similar to PeakView® Software.

Standard Addition

Complex Matrices, not Complex Processing

- The new Standard Addition feature makes easy work of extrapolation of endogenous levels of analytes in complex matrices
- The user is able to perform the calculations natively inside the software without the use of another program
- Automatically calculates standard addition results

New Integration Algorithm and Automatic Outlier Removal Algorithm Features

Streamlined Data Processing and Review

- New AutoPeak Algorithm correctly identifies and integrates peaks from noisy background automatically
- Less need to adjust parameters manually, and ensures consistency across all samples even if the retention time shifts in the standards. Automatic Outlier Removal Algorithm feature automatically removes outliers from the calibration curve based on user requirements, speeding up the review process

Both features help maintain consistent results among different analysts working on the same method

Grouping By Adduct

Improve Your Confidence in Unknown Identification and Quantitation

- Identifying potential adducts of unknown compounds reduces time spent elucidating duplicate compounds
- Formula Finder results that take into account the modifying adducts help with proper compound identification
- Library search results are improved and can also help identify unknowns

Enhanced Filtering Tools

Easy Data Review with Filtering and Flagging

- Reduce data review time by highlighting only those samples that are outside confidence levels
- Focus only on the flagged samples for further review

Suspect Screening Workflow

Expand Your Targets

- Users can identify additional compounds with unknown retention times that were not originally targeted in samples
- Brings balance to targeted and non-targeted workflows

Contact Closure

Support for Contact Closures for Devices

- Eksigent UltraLC 100, MicroLC 200, nanoLC, ExpressHT Ultra, and ExpressLC Ultra systems
- Agilent 100, 1200, and 1260 autosamplers
- CTC PAL, HTC-xt, DLW, and LC/mini samplers

Concurrent License Model for Processing Workstations

Buy Only What You Need

- Reduce software spend, buy only what you need
- Simplifies license administration for IT
- Flexible license deployment

Windows 10 Compatibility

Cybersecurity

Ensure the latest security enhancements with Windows 10 operating system

21 CFR Part 11 Tools

Compliance – Maintain Security in a Regulated Environment

Regulated laboratory environments place significant demand on LC-MS and LC-MS/MS systems to maximize performance while also maintaining the security of data.

SCIEX OS software provides tools such as the incorporation of electronic audit trails, electronic signatures, and detailed security configurations to help meet GxP and 21 CFR Part 11 regulations. Its flexibility allows you to tailor and deploy security policies to help meet the requirements of your laboratory.

Summary of New Features

New Features	SCIEX OS-MQ	SCIEX OS-Q	SCIEX OS
Support for Analyst Data (QQQ, QTRAP, TToF)	✓	✓	N/A
Automatic Outlier Removal Algorithm	✓	✓	✓
AutoPeak Integration Algorithm	✓	✓	✓
Standard Addition	✓	N/A	✓
Peak Grouping By Adduct/Charge	N/A	✓	✓
Enhanced Filtering Tools	✓	✓	✓
SWATH + IDA Acquisition Method	N/A	✓	✓
Quaternary and Multisampler Support for Shimadzu and Exion	N/A	N/A	✓
Concurrent Licensing	✓	✓	✓
21 CFR Part 11 Tools	✓	N/A	✓
Other Features & Enhancements	SCIEX OS-MQ	SCIEX OS-Q	SCIEX OS
Data Storage Flexibility	✓	✓	✓
Organize and Manage Data Folder Structure – Subfolder Support	✓	✓	✓
Contact Closure	N/A	N/A	✓
Injection Volume in Batch	N/A	N/A	✓
MS Quick Check with APCI Mode	N/A	N/A	✓
MS Quick Check to Start and Stop CDS Automatically	N/A	N/A	✓
Auto Cal Report Enhancement	N/A	N/A	✓
License Feature Control – (Quant vs. Quant/Qual)	✓	N/A	N/A
Windows 10 and Microsoft 2016 Support	✓	✓	✓

Figure 5. New Features and Enhancements in SCIEX OS Software 1.4

SCIEX OS Software 1.4 Compatibility Matrix

Operating System	Windows 7 64-bit, SP1 Windows 10 64-bit	
Supported Mass Spectrometers for SCIEX OS license type	X500R QTOF System X500B QTOF System	
Supported Mass Spectrometers for SCIEX OS-Q and SCIEX OS-MQ processing only license types	API 2000	TripleQuad™ 5500
	API 3000	QTRAP® 5500
	API 3200	TripleQuad™ 6500
	3200 QTRAP®	QTRAP® 6500
	API 4000	TripleQuad™ 6500+
	4000 QTRAP®	QTRAP® 6500+
	TripleQuad™ 4500	TripleTOF® 5600
	QTRAP® 4500	TripleTOF® 5600+
	API 5000	TripleTOF® 6600

Figure 6. Software Compatibility

References

To download a trial version of SCIEX OS Software please visit:

<https://sciex.com/products/software/sciex-os-software>

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RUO-MKT-07-7662-A

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