

SCIEX OS Software 5.0

Release Notes



Introduction

Thank you for choosing SCIEX to supply your system. We are pleased to bring you the SCIEX OS software 5.0, which supports these systems:

- ZenoTOF 8600 systems, ZenoTOF 7600+ systems, and ZenoTOF 7600 systems
- X500R QTOF systems and X500B QTOF systems
- SCIEX 7500+ systems, SCIEX 7500 systems, SCIEX 6500+ systems, SCIEX 6500 systems, SCIEX 5500+ systems, SCIEX 5500 systems, and SCIEX 4500 systems
- novus V55 systems
- Echo[®] MS systems, which include a SCIEX Triple Quad 6500+ system and the Echo[®] MS module
- Echo[®] MS+ systems with the SCIEX Triple Quad 6500+ system, ZenoTOF 7600 system, ZenoTOF 7600+ system, or ZenoTOF 8600 system
- ExionLC 2.0 systems, ExionLC AE systems, M5 MicroLC systems, and select other LC systems, when bought from SCIEX
- Citrine systems¹, SCIEX 4500MD systems¹, and ExionLC MD systems¹, for *in vitro* diagnostic use

The SCIEX OS software 5.0 also lets the user process data that is acquired from SCIEX Triple Quad systems, QTRAP systems, and TripleTOF systems that operate with the Analyst software 1.6.2 or later, Analyst MD software 1.6.2 or later, or Analyst TF software 1.7.1 or later.

This document gives a description of the features in the software. We recommend that users keep these release notes for reference while they become familiar with the software.

Note: The numbers in parentheses are reference numbers for each issue or feature in the SCIEX internal tracking system.

¹ Medical Device Registration and Listing for Citrine systems, SCIEX 4500MD systems, ExionLC MD systems, and Shimadzu LC-40 CL systems are pending. Product(s) not available in all countries. For information on availability, please contact your local sales representative or refer to sciex.com/diagnostics. All other products are For Research Use Only. Not for use in Diagnostic Procedures.

New in Version 5.0

This section gives a description of the changes in the SCIEX OS software 5.0. To see the enhancements and corrected issues for an earlier version of the SCIEX OS software, refer to the document: *Release Notes* that came with that version of the software.

New Features

- Support is added for the V55 system.
- A new AI Assistant is available. It is a chat interface that supplies general guidance to use the software. It can also help to create calculated columns in the Analytics workspace. The AI Assistant is available for use with research use only (RUO) products only. For more information, refer to the *SCIEX OS Software AI Assistant Feature Guide*, available at sciex.com/customer-documents.

Note: In this release, this feature is not translated. We recommend that English be used for interactions with the AI Assistant.

Note: Azure OpenAI and OpenAI-compatible endpoint providers are supported for the thinking and fast model endpoints. Gemini, Azure OpenAI, and OpenAI-compatible endpoint providers are supported for the embedded model endpoint.

Note: In this release, the AI Assistant does not support the **Only if the sample name contains** option for calculated columns.

- A new report template editor, Report Studio, is available. It can be used to create and customize report templates that meet the requirements of different laboratories and applications directly in the SCIEX OS software. This new reporting platform supplies a more intuitive and user-friendly experience, with a visual, drag-and-drop interface and configurable layouts, tables, fields, images, headers, footers, filters, expressions, and conditional formatting. For more information, refer to the *SCIEX OS Software Report Studio Feature Guide*, available at sciex.com/customer-documents.

Note: In this release, this feature is not translated.

Note: The Report Studio creates OCR-enabled reports. The **OCR Setting** option on the General page in the Configuration workspace is not applicable to the Report Studio.

Note: The Reporter software that was available in earlier versions of the SCIEX OS software continues to be available.

Enhancements

- The Intabio ZT system is supported on a ZenoTOF 7600+ system.
- SCIEX Triple Quad systems and QTRAP systems: A new SCIEX computer option is available.
- If the AI Quantitation software is installed, then it is accessible from the home page in the SCIEX OS software.

Analytics Workspace

- Users can temporarily stop the calculation of formulas in custom columns. This feature improves peak review performance for workflows with many custom calculations.
- Users can send results to the Metrics Tracker database. A new permission, **Send results to Metrics Tracker**, controls the access to this feature. A new audit trail record, **Results sent to Metrics Tracker**, is written when the feature is used.

Batch Workspace

- During automatic processing, users can automatically send results to the Metrics Tracker database. A new permission, **Send results to Metrics Tracker**, controls the access to this feature. A new audit trail record, **Results sent to Metrics Tracker**, is written when the feature is used.

Metrics Tracker Workspace

- The Metrics Tracker feature is controlled by a license for supported mass spectrometers. It does not require that a device be active.
- Westgard rules can be used in rules.
- Average aggregation lines can be shown for data series on a chart. The average aggregation line can be included for all types of data series.
- All of the sample data series on a chart can be put together into one data series.

MS Method Workspace

- QTRAP systems: Experiment scheduling can be used for an MS method that has multiple MS³ experiments and experiments that use the sMRM algorithm.
- V55 systems:
 - A maximum of 33,000 transitions is supported in methods that use the Scheduled MRM (sMRM) algorithm.
 - For experiments that use the sMRM algorithm, the minimum supported pause time has decreased to 0.4 ms. A new Accelerated MRM (aeMRM) algorithm decreases waste at low pause times.

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- ZenoTOF systems: ZT scan methods support Q1 widths as small as 1 Da.

Note: For ZT scan methods that were created with the SCIEX OS software 4.0 and earlier, the **Q1 width** value is set to the nearest available value that is less than the initial value. The new Q1 width algorithm is automatically used for these ZT Scan methods.

- ZenoTOF 8600 systems:
 - Cycle time is decreased for information-dependent acquisition (IDA) methods.
 - In the peptide and glycopeptide workflows for ZT Scan experiments and experiments that use the SWATH algorithm, new enhanced sensitivity and enhanced robustness modes are available.
 - For TOF MSMS, IDA, and ZT Scan experiments and experiments that use the SWATH algorithm or MRM^{HR} algorithm, users can select the mode for the Zeno trap: on (always active), off (never active), or on-demand (active when the precursor intensity is more than a specified threshold).

Note: These features require a firmware update with the FirmwareUpdater utility. A subsequent firmware downgrade must be done by a SCIEX field service employee (FSE).

MS Tune Workspace

- SCIEX 5500+ systems: Two solutions are supported for tuning procedures. The tuning solution can be selected from the **Tuning Solutions** menu.

Note: Different solutions are available for different mass spectrometers.

- ZenoTOF systems: The range for **Electron KE (eV)** is increased.
- ZenoTOF 8600 systems: The Nano probe can be used to tune the mass spectrometer.

Queue Workspace

- A new option lets users select to always acquire each sample in a different data file. Use the Queue page in the Configuration workspace to select this option.
- Messages that are shown during acquisition with experiments that use the SWATH algorithm are shown on the Notifications page.

Corrections

This release of the software includes corrections for these issues:

- If an e-signature is required for the **Forced logoff by another user** permission, then the forced logoff cannot be completed. (BLT-6996)

Acquisition

- If the Windows regional settings are configured to use the semicolon as the list separator, then content cannot be copied from an Excel file into the Components page in the Batch workspace. (BLT-6710)
- ZenoTOF 7600+ systems: When the system is used with an Agilent LC system, spikes can be seen in data that was acquired with a method that uses the MRM^{HR} algorithm. (BLT-7427/7868)
- If a batch contains a custom column, then the **Weight/Volume** column is not exported. (BLT-7480)
- In the MS Method workspace, a tooltip is not shown in EAD mode if the value for **TOF Stop Mass (Da)** is incorrect. (BLT-7483)
- If the network is disconnected and then connected again during network acquisition, then the data transfer to the network stops and does not start again. (BLT-7536)
- ZenoTOF 8600 systems:
 - Intermittently, low-mass fragments cannot be calibrated. (BLT-7782)
 - Low-frequency mode is used for calibration. (ONYX-61882)
 - In non-information-dependent acquisition (IDA) workflows, batch failures occur with a `missing sync` error. (ONYX-63596)
 - Contamination patterns are seen during acquisition with TOF MS experiments. (ONYX-69132)

Analytics Workspace

- An error is shown when the user tries to process an embedded method. Custom columns are missing from the processing method. (BLT-6728)
- If the number format is changed for the **Calculated Concentration** column, and then the **Dilution Factor** is updated manually, then the value in the **Calculated Concentration** column is not correct. (BLT-7232)
- If the concentration table is updated manually and a `wiff2` file is used, then components are missing from the Components page in the processing method editor. (BLT-7335)
- If a custom report template that was created with the Reporter software has a loop for each visible analyte/sample, then an error occurs in the Word output. (BLT-7494)
- For data that was acquired by an MS method that uses the MRM^{HR} algorithm, if the **Fragment ion (Da)** that was acquired is different than the **Fragment ion (Da)** in the Results Table, then the TOF MS experiment is used to process the compounds. (BLT-7708)
- If a calculated column uses the **Outlier Reasons** column, then the content of the calculated column is incorrect. (BLT-7733)

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- In the Peak Review pane, issues occur when users zoom in on an extracted ion chromatogram (XIC). (BLT-7818)
- A memory issue causes the software to stop unexpectedly. (BLT-7829)
- If the report contains more than 1,000 graphs when a pane is printed, then the text in the pdf file cannot be selected or copied. (ONYX-64189)
- During report generation of reports that include more than 7,000 chromatograms, an error occurs. (ONYX-73827/MQ-15082)

Configuration Workspace

- The date fields on the Service and Support page are not synchronized with the date on the computer. (BLT-6752)

MS Tune Workspace

- X500 QTOF systems and ZenoTOF 7600 systems: During Q1 positive and Q1 negative tuning, the ITC value is too low. (BLT-6749)

Devices

- ZenoTOF systems: The current setting for the filament causes the life of the filament to decrease. (BLT-7389)
- SCIEX 4500MD systems: Configuration tables are missing from the firmware folder. (BLT-7735)

APIs

- The SCIEX Data API creates a very large log file. (BLT-7515)

This version also includes the updates that were included in the patches that follow.

SCIEX OS 3.4.5 Patch for Domain User Issue

- If the workstation is not connected to the domain when a valid domain user is added to the SCIEX OS software, then the user might not be added. (BLT-6948)

SCIEX OS 4.0.2 Patch for Agilent Equilibration Issue

- A failure might occur during acquisition and equilibration with an Agilent LC 1290 system. (BLT-7207)

SCIEX OS 4.2 Patch for ZenoTOF 8600 Signal Drop Issue

- ZenoTOF 8600 systems: Intermittently, the signal drops and spectra are missing. (BLT-7725/7745/7810)

New Permissions

For descriptions of permissions, refer to the document: *SCIEX OS Software Laboratory Director Guide*.

Configuration

- **AI Assistant tab**

Analytics

- **Send results to Metrics Tracker**

Rules

- **Manage Rules**
- **Import and Export Rules**
- **Delete Rule**

Metrics Tracker

- **Chart Management**
- **Data Modification**
- **Data Deletion**

AI

- **Access AI Assistant**

New Audit Events

For more information, refer to the document: *SCIEX OS Software Laboratory Director Guide*.

Project Audit Trail

- **Results sent to Metrics Tracker**

Notes on Use

- For compatibility information, refer to the document: *SCIEX OS Software Installation Guide*, available at sciex.com/customer-documents.

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- For specifications for a computer that is not supplied by SCIEX and for troubleshooting information, refer to the document: *SCIEX OS Software Supplement for Advanced Users*, available at sciex.com/customer-documents.
- Avoid processing a data file in the Analyst software during acquisition by the SCIEX OS software to that data file. Doing so might cause the software to become unstable and data to be lost. (ONYX-8514)
- To keep the Results Table and Peak Review pane consistent, users must use the same level of precision for the retention time for an analyte and the retention time for an internal standard.
- The TOF MS mass range that is used in ZT Scan experiments has an effect on the update rate for the display in the Data Acquisition panel. If the mass range is very high, for example from 60 Da to 40,000 Da, then one or more minutes might be required to update the display. The delay does not have an effect on data acquisition. (ONYX-65290)

CAC

- The version of the Central Administrator Console (CAC) software that is included in this release supports systems that use the SCIEX OS software 3.0 or later.

LC Devices

- Multiple detectors cannot be used for data acquisition at the same time. (BLT-1146)

ExionLC 2.0 Systems

- If solvent level monitoring is used, then make sure that the current volume is correct, and that the proper warning level and shutdown level are set in the Device Control or Device Details dialog before each batch acquisition. If the current volume must be updated during sample acquisition because the mobile phase is being topped up, then use the solvent levels panel for the pump in the Device Details dialog.
- A sampling rate of only 10 Hz or lower is supported for the ExionLC 2.0 DAD (DAD or DAD-HS) and MWD. An LC method with a sampling rate greater than 10 Hz is not saved.
- When creating a DAD method, make sure that the wavelength for 2D data channels and for the wavelength program are within the wavelength range defined for 3D data mode, even if the 3D data mode is not selected.

ExionLC AC Systems, ExionLC AD Systems, and Shimadzu Systems

- A column oven wait time of 0 means that the oven is READY when it is on. If the wait time is set to 0, then the column temperature set point does not control when injection starts.

Echo® MS Systems and Echo® MS+ Systems

- Because the peaks are narrow, we recommend that the number of transitions be kept to a minimum. For SCIEX Triple Quad 6500+ systems, we recommend that each MRM method have a maximum of four transitions, each with a dwell time of 20 msec, for a total scan time of 100 msec. If a large number of MRM transitions are required, then these guidelines are applicable:
 - In the MS method, adjust the dwell time for each MSMS transition to be a minimum of 20 msec.

Note: On TOF systems, adjust the accumulation times.

- Make a note of the total scan time.
- In the configuration of the AE method, select **Wide** peak mode, and then set the ejection volume and **Rep Rate (Hz)** to the values that are required to get 10 data points with the total scan time in the MS method. For example, use a peak width of 3 seconds with a total scan time of 0.3 seconds.

Echo® MS+ Systems

The Echo® MS+ system has an OPI port wash feature. The following notes are applicable to this feature:

- The default flow rate and duration values for the OPI port wash are applicable for most use cases, wash solvents, and carrier solvents. The default values supply a good starting point for optimization.
- When the OPI port wash completes, the carrier solvent pump continues to supply carrier solvent at the flow rate specified in the last AE method, to prepare the system for acquisition. The pump stops automatically when the mass spectrometer goes to the Standby state.

During the OPI wash phase, the user can stop the pump manually from the Device Control dialog. To stop the OPI port wash, click **Stop**. The carrier solvent recovery phase completes, and then the pump stops.

If the OPI port wash stops incorrectly, for example, when the system goes to the Fault state, then the carrier solvent recovery step must be done manually. Do these steps:

1. Select the **Run Only OPI Carrier Solvent Recovery** option.
2. If the carrier solvent recovery does not complete, then click **Clear OPI Wash Fault/s**. On the confirmation dialog, click **Yes**.

Note: To start AEMS acquisition again, clear the Fault status for the OPI wash manually. To make sure that the OPI wash continues to occur correctly, identify and correct the cause of the fault.

Intabio ZT Systems

- To make sure that the mass spectrometer and the Intabio ZT system are synchronized, on the Devices page in the Configuration workspace, select the **Contact Closure** option for the mass spectrometer. If this option is not selected, the mass spectrometer will not wait for a sample to be injected, but will continue with batch acquisition.
- If a failure or error occurs in the mass spectrometer, then the Intabio ZT system gets out of synchronization, and continues to inject samples. If this issue occurs, then stop the batch.
- If a calibration failure occurs, then data acquisition continues. The setting of the **If calibration fails, then proceed to the next sample** option on the Queue page in the Configuration workspace does not have an effect on the behavior.
- If users create new ion reference tables, then to make these ion reference tables available in the **Ion Reference Table** column, they must close the Batch workspace and then open it again.

Agilent Systems

- If an autosampler with a thermostat is installed, then for temperature control to take effect, configure the Variable Temperature Control mode in the device configuration and direct device control.
- If Access Token Required is enabled in the InfinityLab Assist Hub, then click **Allow Access** to connect to the InfinityLab Assist Hub during device configuration.
- To use overlapped injection mode or the Load-Ahead feature, do this:
 1. In the LC method, set a stop time.
 2. Configure the overlapped injection in the LC method, and then in the batch acquisition, select **Enable Load-Ahead**.

Note:

- Overlapped injection mode does not support custom injection programs that use the inject function.
 - Batch Automation cannot be used with load-ahead features.
 - If the batch contains multiple LC methods, then the load-ahead feature cannot be configured for the batch.
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- The steady-inject feature is only applicable for a multisampler with a multiwash hydraulic box and a 100 μ L metered device installed. Before the steady-inject feature can be used on the SCIEX OS software 5.0, the calibration must be done with the Lab Advisor 2.2 software.

Known Issues

Issue	Notes
The Harvard syringe pump goes into Fault status when Standby is selected. (ACQ-2193)	To prevent this issue and clear the error, use the Direct Control feature to start the syringe.
SCIEX 7500 systems: Data with a long file path (129 or more characters) cannot be processed with the Analyst software 1.7.2 or the Analyst software 1.6.3 with HotFix 5. Also, the file information for such a data file cannot be fully shown in the Analyst software 1.7.2 or the Analyst software 1.6.3 with HotFix 5. (AN-2250)	To prevent this issue, use the Analytics workspace in the SCIEX OS software to process the data, or use a shorter file path.
If the Flexera Licensing Server is used for other products, then the SCIEX vendor daemon cannot be run. (BLT-3318)	The Flexera Licensing Server does not let two instances of the same vendor daemon run at the same time on the same server. If the Flexera Licensing Server is used for other, non-SCIEX products, then add the SCIEX vendor daemon and concurrent license to the Flexera Licensing Server.
If a contact closure cable is not used, then in a long method that uses the ExionLC AE PDA Detector, the retention time of peaks is later in the PDA than in the mass spectrometer. (BLT-7341)	To correct this issue, use a contact closure cable.
An audit map migration error is shown when the SCIEX OS software is opened and data cannot be transferred to the network folder. (BLT-7986)	To prevent these issues, give the Windows user the Log on as a batch user right: 1. Open the Local Security Policy tool. 2. Go to Security Settings > Local Policies > User Rights Assignment. 3. Double-click Log on as a batch user. 4. Add the Windows user, or a group to which the user belongs. 5. Click OK.
If the window for the SCIEX OS software is not full size, then the  (Stop or Start the calculation of formulas in	To correct this issue, make the window full size or decrease the number of panes that are open.

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Issue	Notes
calculated columns) button cannot be seen. (MQ-14918)	
In the Explorer workspace, no progress indicator is shown for activities that require more than 3 seconds. (ONYX-57129)	N/A
ZenoTOF 8600 systems: An error occurs during a firmware upgrade from the CONFIG_ZenoTOF-8600_v30_r02 configuration table to the CONFIG_ZenoTOF-8600_v30_r03 configuration table. (ONYX-67545)	Contact an FSE to do the upgrade.
If the name of the data file path is too long, then data that is acquired with automatic compound optimization is not saved to the network. (ONYX-70667)	Make the compound name, project name, or root directory folder name shorter to keep the path to a maximum of 260 characters.
ZenoTOF 8600 systems: If autocalibration is done during the creation of a customized method batch, then a runtime error occurs. (ONYX-72521)	N/A
ZenoTOF 8600 systems: If the path to the data file is long, then failures might occur during acquisition with a ZT scan method. (ONYX-80595)	Keep the number of characters in the path (with the file name) to a maximum of 45.
ZenoTOF 8600 systems: When a TOF MSMS experiment is added to a saved TOF MSMS method that uses EAD fragmentation, the Zeno mode field is empty. (ONYX-82073)	Select the value for the Zeno mode field manually.
In a method that uses the MRM ^{HR} algorithm with CID and EAD fragmentation modes, if the first transition in the mass table uses CID fragmentation, then EAD fragments are not made. (ONYX-32095)	Make sure that the first transition in the mass table uses the EAD fragmentation mode.

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- Global: sciex.com/contact-us

Online Learning Center

- [SCIEX Now Learning Hub](#)

SCIEX Support

SCIEX and its representatives have a global staff of fully-trained service and technical specialists. They can supply answers to questions about the system or any technical issues that might occur. For more information, go to the SCIEX website at sciex.com or use one of the links that follow to contact us.

- sciex.com/contact-us
- sciex.com/request-support

Cybersecurity

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/productsecurity.

Documentation

This version of the document supersedes all of the previous versions of this document.

To see this document electronically, Adobe Acrobat Reader is required. To download the latest version, go to <https://get.adobe.com/reader>.

To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the documentation that comes with the system or component.

The latest versions of the documentation are available on the SCIEX website, at sciex.com/customer-documents.

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