

# Analyst MD 1.7.3 HotFix 1 Release Notes



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## Introduction

For information about a previous software version, refer to the document: *Release Notes* that came with that software version.

## New in Analyst MD 1.7.3 HotFix 1

### Enhancements

HotFix 1 includes the enhancements that were included in the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL.

#### Analyst MD 1.7.3 HotFix 1 Enhancements

- Audit trail records can now be exported to PDF. To export the audit trail records, right-click in the audit trail records pane. This feature lets users with read and write privileges, but no delete privileges for a folder export the audit trail records. The exported file shows a different display format than what is shown on the screen.
- A new Instrument Control Board (ICB) version 5 (ICB-5) is supported for SCIEX 4500MD and Citrine systems.
- SCIEX 4500MD and Citrine systems: A full configuration table header is added to the File Info for a data file that is acquired with Analyst MD 1.7.3 HotFix 1 or later to differentiate between ICB-4 and ICB-5.
- The software supports the Operating systems Windows 10 version 21H2 and version 22H2.
- The software supports a newer version of the LC driver for the following LC devices: Shimadzu LC-40 CL (not supported in Analyst MD software 1.7.3), Shimadzu LC-40, Shimadzu LC-20/30 configured with Integrated System Shimadzu LC-20/30 Controller, the ExionLC system, and the Jasper HPLC system. The software uses the same version of the LC driver used in the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL.
- The sMRM Calculator script has been updated.
- The software supports the VICI Valco valve 2-position 10-port: UMDA-C10W.
- The driver for the ExionLC 2.0 system is updated to version 1.0.0.91. (AN-2759)

#### Analyst MD 1.7.3 Components for Shimadzu LC-40 CL Enhancements

- Shimadzu LC-40 CL systems that are registered as EU *In Vitro* Diagnostic Devices Regulation (IVDR) devices are supported.

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- Microsoft Office 2021 is supported. For a list of other supported versions of Microsoft Office, refer to the software installation guide for the Analyst MD software 1.7.3.
- A new plate layout is available for Shimadzu LC-40 autosamplers.  
The Alpha Deep Well MTP 96 plate, a 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate, horizontally, is supported for Shimadzu LC-40 autosamplers. (AN-2758)
- A new plate layout is now available for Shimadzu SIL-30AC and SIL-30ACMP autosamplers configured with the Integrated System Shimadzu LC Controller or the Integrated System Shimadzu LC-20/30 Controller, with or without the RackChanger.  
The Alpha Deep Well MTP 96 plate, a 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate, horizontally, is supported. (AN-2223)
- The SIL-30ACMP autosampler can now be controlled using a Shimadzu LC-40 controller (AN-2707, AN-3037)
- The ConfigUpdater utility used to upload new firmware for the SCIEX 4500MD and Citrine systems is included.
- The firmware for the ExionLC 2.0 system has been updated. Contact [sciex.com/request-support](https://sciex.com/request-support) to update the device firmware.
  - Use firmware version 6.21 for ExionLC 2.0 column switching valves.
  - Use firmware version 1.23 for ExionLC 2.0 autosamplers.

## Fixed Issues

### **Images might not have been shown in large reports that were printed from the Analyst MD Reporter**

The computer performance and the available memory can have an effect on report generation. On some computers, one or more images might not have been shown in large reports that were printed from the Analyst MD Reporter. In the report, `This image is not available` was shown as an alternative to an image of the correct chromatogram. Usually, this issue might have occurred if a Results Table contained multiple data files. (AN-3460)

### **A memory leak might have caused a batch to stop if a system with a Shimadzu LC was in operation for a long time while the StatusScope remote monitoring service was also in operation**

If a system with a Shimadzu LC was in operation for a long time at the same time that the StatusScope remote monitoring service was also in operation, then a memory leak might have occurred and stopped the batch. The issue could occur with a Shimadzu LC-20/30 configured through the Integrated System Shimadzu LC-20/30 Controller, Shimadzu LC-40, Shimadzu LC-40 CL, ExionLC, or the Jasper HPLC system. (AN-3272)

**A user who did not have delete permission for the API Instrument\Instrument Optimization folder could not run Instrument Optimization.**

A user could not run **Instrument Optimization** if the user did not have delete permission for the D:\Analyst Data\Projects\API Instrument\Instrument Optimization folder. (AN-593)

**The ExionLC 2.0 system modified buffer volume in the autosampler configuration user interface was not saved**

When the ExionLC 2.0 system was configured as a device in the hardware profile, any changes to the **Buffer Volume** field in the ExionLC 2.0 autosampler configuration was not saved. (AN-2734)

**The Analyst MD software might have stopped working or changed the sample type of the incorrect row if the Results Table had more than one analyte in Full Layout view, and the user changed the Sample Type column, and then, without clicking anywhere else, changed to another table layout.**

If the user clicked on a different sample type in the **Sample Type** list while the Results Table was in Full Layout view, and then immediately selected a different table layout that decreased the total number of rows to be shown, the Analyst MD software might change the sample type of an incorrect row or the software might stop working. (AN-2654)

**If the last experiment was deleted, then the value of the parameter in the first experiment in an acquisition method might have been changed**

If a method had three or more experiments of the following scan types, whether the same kind or mixed, and if the last experiment was deleted, then the precursor ions, such as **product of** for **Product (MS2)** and **EPI** scan types, **1st precursor** and **2nd precursor** for the **MS3** scan type, **Precursor Of** for the **Precursor Ion (Prec)** scan type, or **Loss of** for the **Neutral loss** scan type in the first experiment were replaced with the precursor ions from the deleted experiment, regardless of whether the first and the deleted experiments had the same scan type. Other parameters and the mass range remained for the original first experiment. The following scan types were affected:

- **EPI**
- **MS3**
- **Product (MS2)**
- **Precursor Ion (Prec)**
- **Neutral loss**

(AN-2276)

**The sort feature for a column in the sMRM Calculator script might not have worked correctly if the number of digits before the decimal was not the same for all MRM transitions**

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If a method was opened in the sMRM Calculator script, then the option to sort the column in increasing or decreasing order might not have worked correctly. If the number of digits before the decimal for all MRM transitions in a column was the same (example: all RTs were above 1 but below 10 min), then there was no issue with the sort feature. There might have been an issue if some RTs were below 10 minutes and some were above 10 minutes (example: RT=1.2, 2.5, 10.6). (AN-1353)

### **Scheduled MRM (sMRM) Pro algorithm: File Information showed 0.0 for those transitions if, in the method, the MRM Window (sec) fields were left empty**

When a Scheduled MRM (sMRM) Pro algorithm method was created, the user could type a value for the **MRM Window (sec)** field to supersede the **MRM detection window (sec)** set in the method. If the user left this field empty, then the transition used the **MRM detection window** for acquisition, but the File Info showed 0.0 in the **Window (sec)** column for that transition. (AN-270)

### **The Analyst Reporter might have created a Metric Plot that did not match the one shown in the Analyst MD software**

When the Analyst MD Reporter created a report that contained a Metric Plot that used sample indices, then the plot looked different from the one shown in the Analyst MD software. In the report, the sample indices of the data points incorrectly started at 0, whereas in the Analyst MD software, the sample indices started at 1. (AN-1640)

### **If only some of the samples from a data file were included in the Results Table and if a point was excluded from a Metric Plot, then incorrect information might have been shown in the Details column in the Results Table audit trail records**

If some samples from a data file were excluded from the Results Table, either because the user did not add all of the samples from the data file to create the Results Table, or if the user removed some samples from the Results Table after it was created, and if the user then excluded one or more points from the Metric Plot that was created from that Results Table, then an incorrect sample name and number might have been shown in the **Details** column in the Results Table audit trail records. The issue only occurred if the point in Metric Plot that was excluded was for a sample that was acquired after the samples were excluded from the Results Table. (AN-1491)

### **If the Results Table contained multiple analytes, and if a user excluded or included a point from a Metric Plot, then incorrect information was shown in the Details column in the Results Table audit trail records**

If a Results Table contained multiple analytes, then the exclusion or inclusion of an analyte point for a sample caused an incorrect analyte name for that sample to be shown in the **Details** column in the Results Table audit trail records. (AN-3369)

### **An incorrect UV picture tag was shown in the Analyst Reporter**

The absorbance chromatograms in reports created by the Analyst Reporter might not have matched those in the Peak Review pane in the Results Table. The negative Y-axis, if there was

negative absorbance, was not shown in the report, and the Y-axis was always set from 0 mAU to 1000 mAU regardless of if the Y-axis min was set or not. (AN-2046)

### **More Analyst MD software warnings than were necessary were written in the application event log**

The following Analyst MD software warning was written over and over in the application event log: `The description for Event ID 3 from source Analyst cannot be found. Either the component that raises this event is not installed on your local computer or the installation is corrupted. You can install or repair the component on the local computer.` (AN-3196)

### **ADC data with an incorrect scale factor might be shown for configurations with an integrated system and A/D converter.**

If a configuration with an integrated system that was added before the A/D converter in the hardware profile, such as MS + Shimadzu Integrated System + ADC, was used to acquire ADC data, then a different scale factor than what was expected was shown in Explore mode. This issue did not occur with hardware profiles where the integrated system was added last, such as MS + ADC + Shimadzu Integrated System. (AN-3321)

### **The content in Weight/Volume column for a sample was not shown in File Info**

If a batch that had values entered in the **Weight/Volume** column on the Quantitation tab of the batch was submitted and acquired, then the **Weight/Volume** information was missing from the File Info of the data files that were acquired. (AN-3126)

### **sMRM Calculator script fixes and improvements:**

- As in the Analyst MD software, the sMRM Calculator script accepts decimal places in the **Window** column. (AN-3364)
- All of the columns in the sMRM Calculator script can be sorted in alphanumeric order. (AN-3353)
- Warning messages give better information when a user enters an invalid value or loads a method that is not a Scheduled MRM (sMRM) algorithm method. (AN-3351, AN-3334, AN-3310)
- The sMRM Calculator script supports Scheduled Ionization acquisition methods. (AN-3312)
- The sMRM Calculator script can open a Scheduled MRM (sMRM) algorithm method in Mixed Mode. (AN-3311)

### **The transitions with Retention Time of 0 minutes were not shown correctly in the graphs in the sMRM Calculator script**

A transition with a **Retention Time** of 0 minutes in a Scheduled MRM (sMRM) algorithm method was monitored throughout the run duration. However, in the sMRM Calculator script, this transition was not fully shown in the Method Overview graph, and is not fully included for counting or calculation throughout the run duration in the Concurrency and Cycle Time graphs.

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In addition, the MRM index on the Y-axis in the Method Overview was off by 1. Y-1 was shown even though it was supposed to be the Y value.

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**Note:** The algorithm for dwell time calculation is not changed from the one used in previous versions. Refer to the section: [Notes on Use](#).

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(AN-1620)

### Issues fixed in Analyst MD 1.7.3 Components for Shimadzu LC-40 CL and Included in this HotFix

#### The Analyst Reporter might have grouped some analytes incorrectly and might not show data for some of the analytes

This issue occurred if analytes that belonged to different analyte groups had names that started with the same characters and one of these analytes ended in 1. For example:

- Morphine 1
- Morphine 2
- Morphine Dihydro 1
- Morphine Dihydro 2

These analytes should be in two separate analyte groups, but the Analyst Reporter incorrectly put all of the analytes in one group. In addition, some of the analytes were not printed in the report. Instead, one of the analytes was reported multiple times to replace those that were not reported.

After the fix is installed, if analytes are to be included in same analyte group, then the analyte names must end with a space and then an integer, and the characters from the start of the analyte name to immediately before the last space character must be the same. Analyte names have always been case sensitive. Thus, Morphine 1 and Morphine 2 are in the same group, and Morphine Dihydro 1 and Morphine Dihydro 2 are in the same group. However, analytes with names such as QAXL 357 1 and QAXL 225 2 would not be in the same group. To put these analytes in the same group, the user must rename the analytes. (AN-1645)

#### If a Reporter template that was made using a newer version of Microsoft Word, then an extra empty line might be printed for each analyte or sample

SCIEX has tested versions of Microsoft Word from 2016 and 2021. If the **For Each** tag was used in a Reporter template that was made using a newer version of Microsoft Word, then the printed Results Table report might contain an extra empty line for each analyte or sample. If the **If** condition was not met for some analytes or samples, then the report contained a large blank space between analytes or samples, depending on how many samples or analytes did not meet the condition. This issue occurred because newer versions of Microsoft Word introduced a hidden empty line after the **For Each** tag. The empty line could not be removed when the template was made because the line was hidden. (AN-3104)

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**Shimadzu LC-40 systems: The Analyst MD software batch stopped intermittently if non-default values for the autosampler rinse mode and rinse method were selected**

If the Shimadzu LC-40 system was used with the Analyst MD 1.7.3 software, then the batch might stop if, in the LC method, `none-default` values were selected for the autosampler rinse mode and rinse method. (AN-2901)

**Batch submission failed when a specified rack was selected in the acquisition method for Shimadzu 20/30 autosamplers that have a rackchanger configured for use**

If a Shimadzu autosampler with a rackchanger that was configured for use through the Integrated Systems Shimadzu LC20/30 Controller was used, then the batch submission failed if the **Specify Rack** option was selected in the acquisition method. (AN-1806)

**Batch submission might have failed if a specified rack was selected in the acquisition method for Shimadzu 20/30 autosamplers that did not have a rackchanger configured**

If a Shimadzu autosampler that did not have a rackchanger configured through the Integrated Systems Shimadzu LC20/30 Controller was used, then the batch submission failed if the **Specify Rack** option was selected and **Rack 1.5 mL 105 vial** or **Rack 1.5 mL 70 vials** was used in the acquisition method. (AN-2805)

**If the Analyst Classic quantitation algorithm was used to quantitate poorly separated small peaks, then a smaller peak area than expected might be calculated when an atypically large value for the Separation Height or Separation Width was used for integration**

If the Analyst Classic quantitation algorithm was used to calculate the area of a small peak that is on the shoulder of a large peak eluted before or after the small peak, then the automatic integration that used an atypically large value for the **Separation Height** parameter, such as `0.6` (default is `0.01`), or the **Separation Width** parameter, such as `4.0` (default is `0.2`) could cause the peak area to be calculated with a lower value than if the peak area was integrated manually.

This issue might only occur if peaks that are not well separated are integrated. The issue has been fixed for any Results Table that is created using the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL or later. If a Results Table was created using the Analyst MD software, version 1.7.3 or an earlier version, then opening or editing the Results Table or updating other integration parameters in Analyst MD 1.7.3 Components for Shimadzu LC-40 CL or a later version will not cause the new peak area calculation. To update the calculation for an analyte, in the Results Table, change the quantitation method by removing the analyte and then adding the analyte back. Click **Tools > Results Table > Modify Method**. The peak area will be calculated for the newly added analyte. (AN-2844)

**Opening the File Info pane when multiple data files were open in the Analyst MD software Explore mode might have slowed system performance**

If different data files were open in Explore mode, if each of the data files had File Info open, and if the user clicked **Show Next Sample**, **Show Previous Sample**, or **Go To Sample** to move to a

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different sample for one of the datafile windows, then the system performance might have been slow when the File Info pane was updated. (AN-2843)

### Deactivating a hardware profile that included the ExionLC 2.0 system might have intermittently failed

Intermittently, when a user tried to deactivate a hardware profile that included the ExionLC 2.0 system, the following error message was shown: `The remote procedure call failed` or `The RPC server is unavailable`. To resolve this issue, close and then open the Analyst MD software. (AN-2766)

## Notes on Use

- All associated Analyst MD software folders or files must be created or edited in the Analyst MD software to maintain 21 CFR traceability. File and folder level permissions for users must be set in accordance with the standard operating procedures of the laboratory.
- In Analyst MD 1.7.3 HotFix 1 and later versions, the Method Overview, Concurrency, Cycle Time and Dwell Time graphs in the sMRM Calculator script is updated to show the behavior during acquisition where transitions with a retention time of 0 minutes are collected for the entire run duration. However, the dwell time calculation algorithm used in both the sMRM Calculator script and Scheduled MRM acquisition in the Analyst MD software stays the same as in earlier versions. That is, for dwell time calculation only, the transitions with a retention time of 0 minutes are treated as transitions to be run from 0 minutes to 0 plus half of the detection window time, and for any transitions scheduled to be run after that, those transitions are not considered as concurrent transitions with the ones with RT=0. This is by design. In addition, in Analyst MD 1.7.3 HotFix 1 and later versions, the transitions with a retention time of 0 minutes are shown as RT=half of the run duration for methods without **Scheduled Ionization** selected, or as RT=half of the (Stop Time - Start Time) for methods with **Scheduled Ionization** selected, in the Dwell Time graph in the sMRM Calculator script because these transitions are run throughout the run duration.
- In the Analyst MD software, when a Results Table is exported as a PDF file, any column with a cell that contains more than 118 characters will not be exported. Make sure that each field in the Results Table contains no more than 118 characters. (AN-3337)
- Because virtual machines can be complex, it is not possible to test or support every configuration of virtual machines. Therefore, SCIEX limits support to physical, supported computers.
- Possibly, for the same data set with the same integration parameters, the peak areas quantitated using Analyst MD 1.7.3 Components for Shimadzu LC-40 CL or Analyst MD 1.7.3 HotFix 1 or later versions, might have a minor difference from those quantitated using the Analyst MD software 1.7.3 or earlier versions, even if the integration parameter values are typical and the peaks show good separation and are well integrated. The minor difference, if any, is a result of the fix for issue AN-2844. (AN-3350)
- **The GS2 parameter is not used for acquisition if the APCI probe is used.**



If an APCI probe is used to acquire data, then the **Ion Source Gas 2 (GS2)** parameter is not used, even though a value for **Ion Source Gas 2 (GS2)** is shown in the File Info for the data.

If a user creates a method with a heated nebulizer (APCI) probe, then while the default value of **Ion Source Gas 2 (GS2)** of 0 is used in the **Parameter Settings**, the **Ion Source Gas 2 (GS2)** parameter in the method is not available and a value of 0 is shown. The value of 0 is shown in the File Info for data acquired with the method.

However, if the method used for acquisition with the APCI probe was created with a TurbolonSpray (TIS) probe, or if the method was created with an APCI probe but the **Ion Source Gas 2 (GS2)** had a non-zero value set in **Parameter Settings**, then the **Ion Source Gas 2 (GS2)** value shown in File Info is the **Ion Source Gas 2 (GS2)** value set in the TurbolonSpray (TIS) probe method or the **Ion Source Gas 2 (GS2)** value from the **Parameter Settings**.

To prevent any issues, we recommend that methods be created after the hardware profile with a heated nebulizer (APCI) probe is activated, and that the **Ion Source Gas 2 (GS2)** field be set to 0 in **Parameter Settings**. The **Ion Source Gas 2 (GS2)** value in File Info would always be 0. If a non-zero value is set in the **Parameter Settings**, then the **Ion Source Gas 2 (GS2)** field that is unavailable in the acquisition method would also have a non-zero value, although this field is not used. (AN-3389)

- **A change made manually to a cell in the Batch Editor takes effect only after the user clicks outside of the cell that was changed**

In a batch, after a change is made manually to a cell, such as to change to a different vial position, the software does not update the value until the user clicks a different cell or tab, or presses **Enter** on the keyboard. If a user makes a change to a cell, does not move the cursor, and then saves the batch, then the change is not saved. (AN-3384)

- **Avoid the use of illegal characters or names for the Analyst MD software file name and a file path for an Analyst root directory.**

The Analyst root directory path works the same as the path in the Windows operating system. Do not use the following characters in the Analyst MD software file names and paths to the Analyst root directory, as in the Windows operating system.

- # pound
- % percent
- & ampersand
- { left curly bracket
- } right curly bracket
- \ back slash
- < left angle bracket
- > right angle bracket

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- \* asterisk
- ? question mark
- / forward slash
- blank spaces
- \$ dollar sign
- ! exclamation point
- ' single quotes
- " double quotes
- : colon
- @ at sign
- + plus sign
- ` backtick
- | pipe
- = equal sign
- emojis
- alt codes

In addition to these characters, do not start or end the name of a file with a space, period, hyphen, or underline.

File and folder name validations are done by the Windows operating system and not by the Analyst MD software. Do not use the following file names that also cannot be used in the Windows operating system:

CON, PRN, AUX, NUL, COM0, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT0, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, and LPT9. (AN-3273)

### **The Print Automatically function in Analyst MD Reporter does not print HTML reports**

If Analyst Reporter is used to create reports and the output format **Html** is selected, then do not select the **Print Automatically** check box. Although an HTML report can be created successfully, the **Print Automatically** function does not operate because of limitations in the Windows 10 operating system. To print documents automatically, select the **Word** or **Pdf** output format. If the output format is **PDF** and **Print Automatically** is selected, then make sure that Adobe Reader is set as the default program to open **PDF** files. (AN-3279)

### **File Info has been changed for the VICI Valco 2-position 10-port valve**

For data files acquired in Analyst MD 1.7.3 HotFix 1 or later, the following updates have been made to the information for the Valco valve in the File Info:

- **ver** has been changed to **FW version**, and the firmware version of the device is shown in the **FW version** field. Previously, the **ver** field was empty and the firmware version was shown in the **S/N** field.
- N/A is shown in the **S/N** field, because the serial number is not available from the Valco valve firmware. Make sure to record the device serial number from the hardware label. (AN-3220)

### Workstation recommendations

If a customer-supplied computer is used with the system, then a best effort will be made to support and troubleshoot any issues. However, in some cases, a standard SCIEX-supported computer configuration will be required for further investigation.

### Microsoft Office compatibility

Microsoft Office 2013, 2016, or 2021 is required to make, open, or edit the report templates used in the Reporter software. Microsoft Office 365 cannot be used to create, open, or edit report templates that are used in the Reporter software. However, the Analyst MD software is compatible with Microsoft Office 365 for all other functions. Microsoft Office 365 can be used to generate a report in Instrument Optimization, and in Analyst Reporter with a report template that was installed with the software, or with a report template that was created with Microsoft Office 2013, 2016, or 2021.

### Shimadzu LC-40 PDA (SPD-M40) data might show small artificial regular spikes using firmware version 2.00

If firmware version 2.00 is used for the Shimadzu SPD-M40 detector, then the data might show small artificial regular spikes. The frequency of the spikes or valleys is related to the sample speed of the PDA method. Make sure to use firmware (ROM) version 2.07 or later for the Shimadzu SPD-M40 detector.

### Different autosamplers permit different injection volume ranges and precisions

The injection volume controls the different precisions permitted for each autosampler. If an invalid injection volume is entered, even if it is in the permitted injection volume range, then the acquisition does not start as per the LC driver design. For example:

For the ExionLC AC autosampler, the injection volume setting range and permitted increment and precision is shown in the following table:

**Table 1 ExionLC AC Autosampler Injection Volume Setting**

Injection volume setting range	0.1 µL to 50 µL (standard), 0.1 µL to 100 µL (optional) 0.1 µL to 0.9 µL in 0.1 µL increments, 1 µL to 100 µL in 1 µL increments)
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For the ExionLC AD autosampler, the injection volume setting range is shown in the following table:

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**Table 2 ExionLC AD Autosampler Injection Volume Setting**

Injection volume setting range	Total injection	0.1 $\mu$ L to 50 $\mu$ L 0.1 $\mu$ L to 9.9 $\mu$ L: 0.1 $\mu$ L increments; 10 $\mu$ L to 50 $\mu$ L: 1 $\mu$ L increments
	Loop injection	Select either loop of 5 $\mu$ L or 20 $\mu$ L capacity. 0.1 $\mu$ L to 9.9 $\mu$ L: 0.1 $\mu$ L increments; 10 $\mu$ L to 20 $\mu$ L: 1 $\mu$ L increments

For the Jasper autosampler, refer to the "Autosampler Specifications" under the "Performance Characteristics and Specifications" section in the document: *Jasper HPLC System User Guide*.

For a Shimadzu autosampler, refer to documentation that came with the autosampler.

### **The minimum advanced permissions required by the Analyst MD software to store a result file**

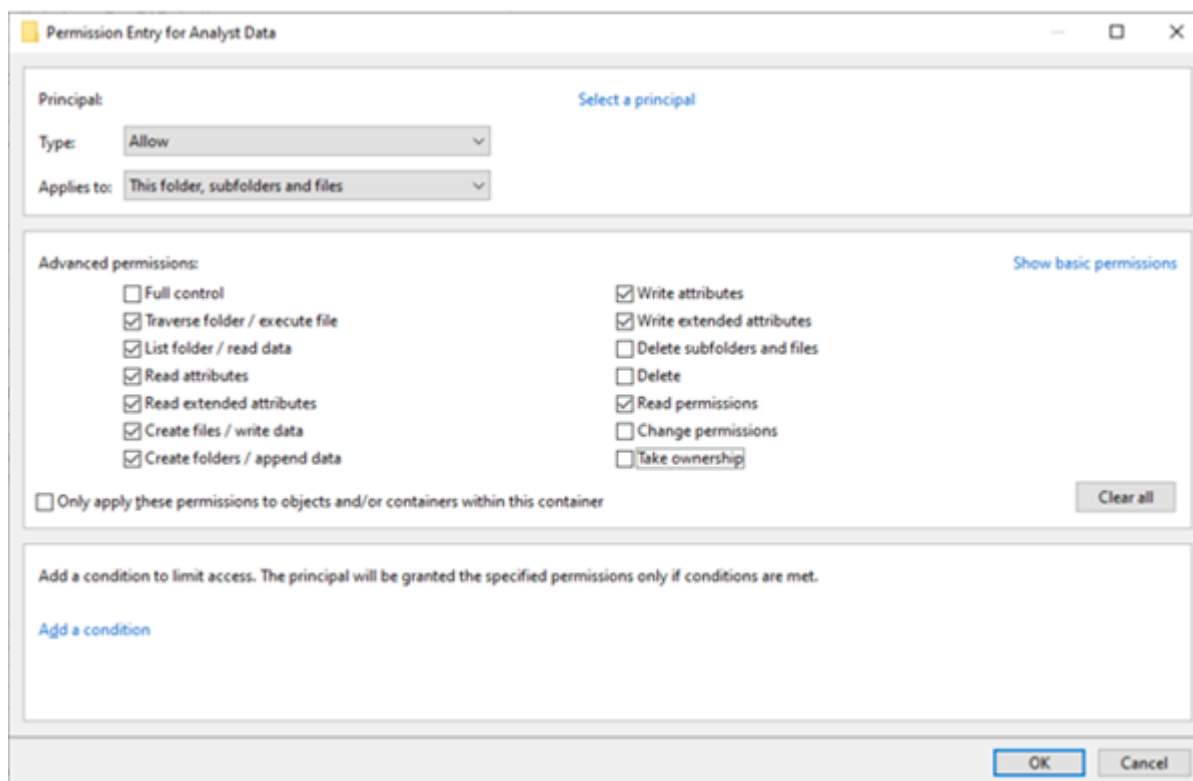
For the minimum permissions required to store a result file, refer to the following figure.  
(AN-1994)

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**Note:** If the user of the Analyst MD software is in multiple domain user groups, then the folder permission for the user is a cumulation of the permissions assigned to each of these groups.

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Figure 1 Permission Entry for Analyst Data Dialog



**In the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL, Analyst MD 1.7.3 HotFix 1, and later versions, the Analyst Reporter analytes grouping behavior has changed**

If analytes are to be included in same analyte group, then the the analyte names must end with a space and then an integer, and characters from the start of the analyte name to immediately before the last space character must match. Analyte names have always been case sensitive. Thus, "Morphine 3" and "Morphine 4" are put in the same group, and "Morphine Dihydro 1" and "Morphine Dihydro 2" are put in the same group. However, analytes with names such as "QAXL 357 1" and "QAXL 225 2" would not be put in the same group. To put these analytes together, the user must rename the analytes.

Before, analytes that belonged to different analyte groups and that had names that started with the same characters and ended in " 1" were put in the same group. For example:

- Morphine 1
- Morphine 2
- Morphine Dihydro 1
- Morphine Dihydro 2

(AN-1645)

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### **Each time a hardware profile is activated, the time stamp of its `hwpf` file in Windows Explorer changes.**

By design, when a hardware profile is activated, the time stamp of its `hwpf` file changes. This is because specific parameters must be read from the mass spectrometer and the hardware profile manager to update the `hwpf` file during the activation process. (AN-1803)

### **The ExionLC 2.0 software driver is not reverted to the version installed by the Analyst MD software 1.7.3 after the Analyst MD 1.7.3 HotFix 1 is removed**

When the Analyst MD 1.7.3 HotFix 1 is removed, the ExionLC 2.0 software driver version 1.0.0.91 stays. The driver is not reverted to version 1.0.0.83, which was installed with the Analyst MD 1.7.3 software. If the ExionLC 2.0 system is to be used with the Analyst MD software 1.7.3, then remove the Analyst MD software 1.7.3 first, and then install the Analyst MD software 1.7.3. (AN-2910)

### **Acquisition methods containing four pumps and created in a version earlier than the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL cannot be opened in newer versions of the Analyst MD software**

If an acquisition method uses four pumps and that are made in a version earlier than the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL, then this method cannot be opened in the Analyst MD 1.7.3 software or in newer versions of the Analyst MD software. The method must be made again using the new hardware profile made in the Analyst MD 1.7.3 software or a later Analyst MD software version. (AN-2818).

### **If pressure traces from Agilent or ADD are enabled, then they are shown under Show Auxiliary Traces**

In version 1.7.3, or later, of the Analyst MD software, the pressure traces from Agilent or ADD, if enabled, are shown under **Explore > Show > Show Auxiliary Traces**.

### **Acquire each sample to a different data file if an ExionLC PDA or a Shimadzu PDA is used**

We recommend that each sample be acquired to a separate data file if an ExionLC PDA or a Shimadzu PDA is used. Doing so can prevent intermittent batch stoppages that are caused when large amounts of data are written to a single file. (AN-1823, AN-2920, AN-2901)

### **Do a system check on Shimadzu and ExionLC PDAs to make sure the lamps are still in good condition**

A system check should be done on Shimadzu and ExionLC PDAs before data acquisition to make sure that the lamps are still in good condition and do not cause poor data. This can be done by directly connecting to Shimadzu modules using the Ethernet connection and entering the IP address in a web browser, external to the Analyst MD software. Starting from Analyst MD 1.7.3 HotFix 1, batch acquisition will not stop when the system receives an error message from the LC driver about the PDA detector lamp usage time. A warning that the PDA detector lamp usage time cannot be updated will be logged in the system Event Viewer. (AN-3214)

### **The expected RT is not automatically updated when integration parameters are changed during quantitation peak review in the Analyst MD software**

From the Analyst MD software 1.7.3 and later, the expected RT is not automatically updated when integration parameters are changed during quantitation peak review in the Analyst MD software. The expected RT entered or selected by the user is kept. (AN-861, AN-869)

### **The audit trail Full User Name column has changed**

In the Analyst MD 1.7.3 software with or without Analyst MD 1.7.3 Components for Shimadzu LC-40 CL, the audit trail **Full User Name** column shows the **Full Name** of the user account, as stored in the Windows Server Active Directory. The **Display Name** and **Full Name** of the user account are typically the same, but they do not have to be. The network administrator can make them different.

However, from Analyst MD 1.7.3 HotFix 1 and later, the audit trail **Full User Name** column shows the **Display Name** of the user account, as saved in the Windows Server Active Directory, unless the **Display Name** field is empty in the Active Directory, in which case the **Full User Name** is shown.

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**Note:** The e-mail address of the user (the logon name used for the Analyst MD software) will be used in the **Full User Name** column if the Analyst MD software cannot get the full name or display name of the user because there is no access to the network. (AN-2447)

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### **The toolbar in the Analyst MD software might not refresh correctly when scaling is changed**

The toolbar might not refresh correctly under the following conditions:

- The user moved a remote desktop session window in which the Analyst MD software was open from one monitor to another with a different monitor scaling setting, minimized the Analyst window, and then maximized it.
- The user connected remotely to a workstation with the Analyst MD software installed from a computer using a monitor with a different scaling setting from what was set on the workstation monitor, logged on the Analyst MD software and left the software open, ended the remote session, and then logged on directly to the workstation on which the Analyst MD software was left open.

The right side of the software toolbar where there are no toolbar icons cannot be seen. If users change between modes, then the toolbar icons from the previous mode might persist in the user interface and cannot be clicked, and some icons on the toolbar look like they are shown twice. The workaround is to close the Analyst MD software and then open it again. This is a Microsoft behavior where some applications do not respond to scaling changes until the applications are closed and then opened. To prevent the issue during a remote desktop session, make sure that the Analyst MD software is closed before the remote desktop session is stopped, and then start the next remote desktop session. Do not move the remote desktop session between monitors with different scaling settings. Alternatively, use the same scaling setting on

## Analyst MD 1.7.3 HotFix 1 Release Notes

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all monitors connected to the computer used to connect remotely to the Analyst MD software. For example, set all monitors to 125% scaling. To prevent any display issues, when logging on directly to the Analyst MD workstation, make sure to close the Analyst MD software before stopping the last remote session or use the same scaling setting on the Analyst MD workstation monitor and the remote desktop monitor. (AN-3205)

### National Instrument ADC card support

The older model of National Instrument ADC card (PCI-6032E) is not supported in Analyst MD 1.7.3 HotFix 1 or later versions.

## Where to Get Help

- *Analyst MD Software 1.7.3 Release Notes*
- *Analyst MD Software 1.7.3 Installation Guide*

## Known Issues and Limitations

### Shimadzu LC-30 devices: An error might occur when the queue is restarted after samples are aborted

If a Shimadzu LC-30 is configured with Integrated System Shimadzu LC-20/30 Controller, then occasionally after the user aborts a sample run or stops the queue, and subsequently starts the queue again, the next sample might show the acquisition error: `Operation failed, device driver exception`. To prevent the issue, deactivate and then activate the hardware profile again after a sample is stopped or aborted. (AN-3092)

### Users cannot enable or disable access to the Unlock/Logout Application feature for a role in the Security Configuration dialog

On the Security Configuration dialog, access to the **Unlock/Logout Application** cannot be directly enabled or disabled. As a workaround, to enable access to **Unlock/Logout Application** for a role, enable the whole Analyst Application group if it was disabled, or disable and then enable the access again for the whole Analyst Application group if it was enabled. Then disable other individual items again in that group, as required. Similarly, to disable access to **Unlock/Logout Application** for a role, disable the whole Analyst Application group if it was enabled, or enable and then disable the access again for the whole Analyst Application group if it was disabled. Then enable other individual items again in that group, as required. (AN-1646)

### The IDA Method Wizard user interface for the triple quadrupole mass spectrometer might be shown when a hardware profile that contains an Agilent 1260 DAD or 1290 DAD and a QTRAP mass spectrometer is activated

For a hardware profile with an Agilent 1260 DAD or 1290 DAD added before a QTRAP mass spectrometer, the IDA Method Wizard user interface for a triple quadrupole mass spectrometer is shown, even though the activated mass spectrometer is a QTRAP mass spectrometer. The issue only occurs if an Agilent 1260 DAD or 1290 DAD is added to the hardware profile before



the QTRAP instrument. The issue does not occur with hardware profiles that contain an Agilent 1100 or 1200 series of DAD, or hardware profiles that do not contain an Agilent DAD. (AN-140)

### **The Analyst MD software stopped responding during real-time XIC data extraction**

When large numbers of ions were extracted in real-time during acquisition using an MRM or Scheduled MRM (sMRM) algorithm method, the Analyst MD software might have become unresponsive. This issue has been corrected. However, users should be aware that there might be cases where extracting large numbers of chromatograms will still cause the software to slow or become unresponsive. For example, having multiple XIC panes open simultaneously, or acquiring data from multiple methods to the same wiff file. In these cases, users should refrain from extracting chromatograms in real-time. (AN-292)

### **An incorrect response time might be used on Shimadzu SPD-40/40V UV detectors with SCL-40/CBM-40/CBM-40 Lite ROM version earlier than 1.64.**

If firmware versions earlier than 1.64 are used on a Shimadzu SCL-40, CBM-40, or CBM-40 Lite controller connected to a Shimadzu SPD-40/40V UV detector, then an incorrect interaction between the **Response** mode and the **Sampling** time causes an incorrect response time. If the response mode for the SPD-40/40V is set to **Fast/Standard/Slow**, then analysis is done with response times of 0.5 s, 1.0 s and 2.0 s, respectively, regardless of the **Sampling** setting. There is some influence on the data.

Workaround: Change the **Response** mode to **Other**, and then set the numeric value field to the response time value or to a value that is less than the related sampling time. As an alternative, use SCL-40/CBM-40/CBM-40 Lite firmware version 1.64 or later.

### **To print a pdf file from the Analyst MD software, the user must have Delete rights to the folder where the pdf file is saved**

In the Analyst MD software, if a file such as a Results Table, File Info, data list is printed to a pdf file in a folder to which the user does not have Delete rights, then the user gets a message about not having permission to modify files in the location. If this issue occurs, then do the following.

1. Click **OK** in the message.
2. Save the file again using the same name.
3. Click **Yes** to replace the empty file that was created when the file was saved the first time.

This issue cannot be fixed because the function is in the Microsoft SDK and not in the Analyst MD software. (AN-2756)

### **The VICI Valco 2-position 10-port valve shows an anomalous serial number and an empty version in File Info in Analyst MD software 1.7.3 or an earlier version**

The File Info of a data file acquired with a VICI Valco 2-position 10-port valve in Analyst MD software 1.7.3 or earlier shows an empty **FW version** and an anomalous serial number. Record the serial number from the hardware label, if required. (AN-3220)

## Analyst MD 1.7.3 HotFix 1 Release Notes

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### For integrated Agilent LC devices, the LC run stops when the mass spectrometer stops acquiring data, even if the LC run time is longer than the MS run duration

For Agilent devices that are directly controlled in the Analyst MD software and not through the Analyst Device Driver (ADD), the LC run stops when the mass spectrometer stops acquiring data, not at the pump stop time, even if the pump run time is longer than the MS duration. This issue occurs with or without **Scheduled Ionization** enabled. Also, the Agilent pump trace, if enabled, starts at the pre-rinse and not the injection time. Thus the trace is shown from 0 to *MS end time + approximately 0.5 min.*

Workaround: configure the Agilent devices with the ADD software 1.4 if the LC run time is longer than the MS run duration. (AN-2657)

## Analyst MD 1.7.3 HotFix 1

### Install the HotFix

Prerequisites
<ul style="list-style-type: none"><li>The Analyst MD software 1.7.3 is installed.</li></ul>



1. Log on to the computer as a user with Administrator privileges.
2. Stop any acquisitions that are in progress, and then deactivate the hardware profile.
3. Close the Analyst MD software.
4. If the sMRM Calculator script is installed, then remove it. Refer to the section: [\(Optional\) Remove the sMRM Calculator Script](#).
5. Download **Analyst MD 1.7.3 HotFix 1** from [sciex.com/software-downloads](https://sciex.com/software-downloads).

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**Tip!** To prevent installation issues, save the file to the local computer, in a location other than the computer desktop. Then, before the start of the installation, disconnect any external USB storage devices.

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6. After the download is complete, right-click the `AnalystMD173HF1.zip` file.
7. Click **Extract All**, browse to and select the destination folder, and then click **Extract**.
8. Browse to and then double-click the `setup.exe` file.
9. Obey the on-screen instructions to complete the installation.
10. (If applicable) Acquisition workstations with ICB-4: Go to the section: [Update the Firmware and the Configuration Table](#).

**Note:** Analyst MD 1.7.3 HotFix 1 includes all the changes made in Analyst MD 1.7.3 Components for Shimadzu LC-40 CL. Analyst MD 1.7.3 Components for Shimadzu LC-40 CL is automatically removed when Analyst MD 1.7.3 HotFix 1 is installed.

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11. (Optional) Install the sMRM Calculator script. Browse to C:\Program Files (x86)\Analyst\Scripts\sMRM Calculator. For more information, refer to the document: *Scripts User Guide*
12. Open the Analyst MD software, and then activate the hardware profile. Refer to the documentation for the Analyst MD software.

## (Optional) Remove the sMRM Calculator Script

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**Note:** If the Analyst MD software is upgraded to a later version, then the scripts that were previously installed by users are not automatically upgraded. Remove the scripts that have been updated and then install those updated scripts after the Analyst MD software has been upgraded. For more information, refer to the document: *Scripts User Guide*.

---

1. Open **Control Panel**.
2. Click **Programs and Features > Region and Language**.
3. Select **sMRM Calculator**, and then click **Uninstall**.
4. Click **Yes**.  
The selected script is removed.

## Use a Deployment Tool to Install Analyst MD 1.7.3 HotFix 1

Use this procedure if the Analyst MD software 1.7.3 is installed and a deployment tool is used to install the HotFix.

### Use a Deployment Tool to Install the HotFix

Prerequisites
<ul style="list-style-type: none"><li>• The Analyst MD software 1.7.3 is installed.</li></ul> <hr/> <p><b>Note:</b> This HotFix can be installed on top of Analyst MD software 1.7.3 with or without Analyst MD 1.7.3 Components for Shimadzu LC-40 CL installed. The components software, if previously installed, is removed silently during installation of this HotFix.</p> <hr/>

## Analyst MD 1.7.3 HotFix 1 Release Notes

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The Analyst MD 1.7.3 HotFix 1 can be installed with a deployment tool, such as Microsoft Endpoint Configuration Manager (MECM), using either a Windows administrator account or a non-administrator SYSTEM account.

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**Note:** If a workstation must have the sMRM Calculator script installed, then remove the sMRM Calculator script that was previously installed. Install the latest version of the sMRM Calculator script after the Analyst MD software has been upgraded. Refer to the section: [\(Optional\) Remove the sMRM Calculator Script](#).

---

1. Use the deployment tool to make the `AnalystTemp` folder on the `C:\` drive.  
The software installation log file will be saved in this folder.
2. Run the following silent installation command from the installation files location:  

```
setup.exe /s /v/qn /v"/l* "c:\AnalystTemp\analystmd173HF1.txt"" /v/norestart
```
3. Start the computers again on which the Analyst MD software was installed.
4. SCiEX 4500MD and Citrine systems:
  - a. Go to the section: [Update the Firmware and the Configuration Table](#).
  - b. Open the Analyst MD software, and then activate the hardware profile. Refer to the documentation that comes with the Analyst MD software.

## Update the Firmware and the Configuration Table

Systems with ICB-4: Use the `ConfigUpdater.exe` program to update the system firmware to PIL2007 for the SCiEX 4500MD and Citrine systems unless the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL was installed before the software was upgraded to Analyst MD 1.7.3 HotFix 1.

Then use the `ConfigUpdater.exe` program to update the system firmware configuration tables for the SCiEX 4500MD and Citrine systems to the versions shown in the following table.

1. Browse to the `Analyst\Firmware\ConfigUpdater` folder, and then double-click `ConfigUpdater.exe`. This folder is in `C:\Program Files (x86)\`.  
The Configuration Table Update Program page opens.

---

**Tip!** The `ConfigUpdater.exe` program can also be started from the shortcut: **Start > SCiEX Analyst MD > ConfigUpdater**

---

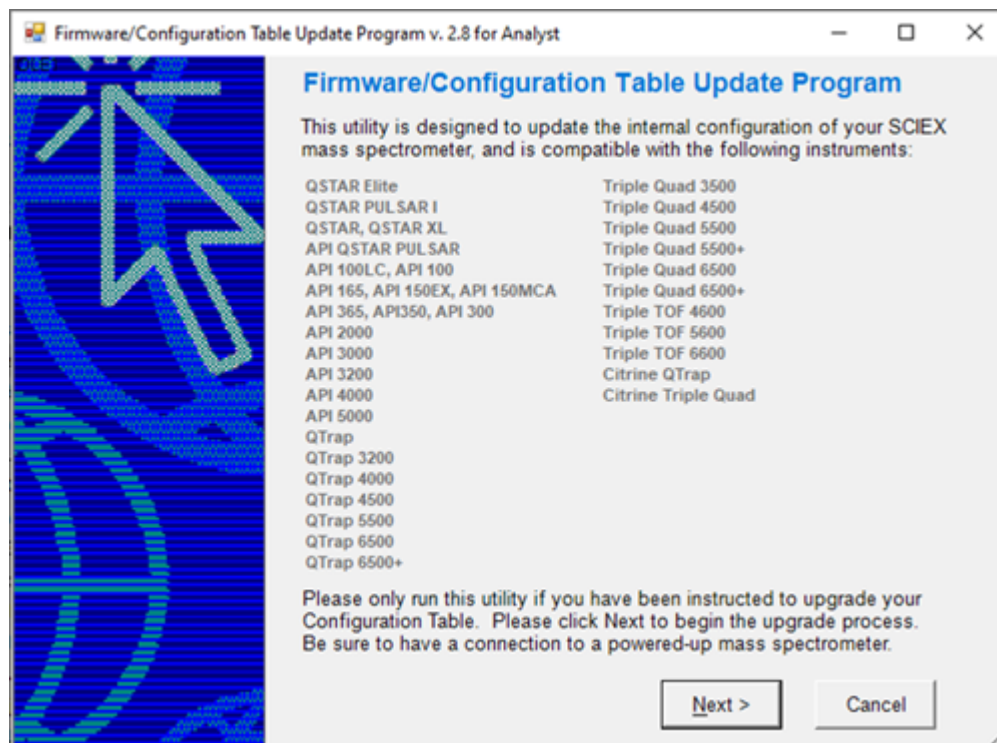
2. Select the **Ethernet** interface, and then click **OK**.
  - For systems that did not have Analyst MD 1.7.3 Components for Shimadzu LC-40 CL installed before the software was upgraded to Analyst MD 1.7.3 HotFix 1:

The `ConfigUpdater` utility opens and then identifies the new firmware version to be installed.

**Note:** The ConfigUpdater utility will reset the mass spectrometer. This is normal and is required by the update process.

- For systems that were upgraded from the Analyst MD 1.7.3 Components for Shimadzu LC-40 CL, the firmware should be PIL2007. The following figure is shown.

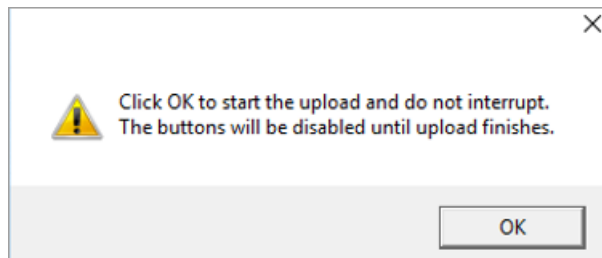
**Figure 2 Firmware/Configuration Table Update Program Dialog (Example)**



Go to step 6.

3. Click **Next**.

**Figure 3 Upload Confirmation Prompt**



4. Click **OK**, and then wait until the message `Uploaded firmware is ready` is shown.
5. Click **OK**.

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The Firmware/Configuration Table Update Program dialog with a list of supported instruments opens.

6. Click **Next**.

A dialog with the new detected configuration table opens.

---

**Note:** If the utility provides more than one choice for the configuration file name, then select the version shown in the following table.

---

**Table 3 Supported Firmware and Configuration Table Versions for Systems with ICB-4**

Mass Spectrometer	Firmware	Configuration Table	Configuration Table Version File Info in the Analyst MD software	Configuration Table Header File Info in the Analyst MD software
SCIEX Triple Quad 4500MD system	PIL2007	FWTripleQuad4500R05.fw	05	TripleQuad4500 231020 05 A1 D5026017E
QTRAP 4500MD system		FWQTrap4500R03.fw	03	QTrap4500 231020 03 A1 D5026012D
CitrineTriple Quad system		FWCitrineTripleQuadR03.fw	03	CitrineTripleQuad 231020 03 A2 D5115555D
Citrine QTRAP system		FWCitrineQTrapR02.fw	02	CitrineQTrap 231020 02 A2 D5115552C

7. Click **Next**.

The following message is shown: Click OK to start the upload and do not interrupt. The buttons will be disabled until upload finishes.

8. Click **OK** and then wait until the message: Uploaded Configuration Table is ready is shown.
9. Click **OK**.  
The configuration table update is complete and the ConfigUpdater confirms that the configuration table is the current version.
10. Click **Finish** to close the utility.

**Systems with ICB-5:** The following firmware and configuration tables are used. The use of ConfigUpdater is not required.

Table 4 Supported Firmware and Configuration Table Versions for Systems with ICB-5

Mass Spectrometer	Firmware	Configuration Table	Configuration Table Version File Info in the Analyst MD Software	Configuration Table Header File Info in the Analyst MD Software
SCIEX Triple Quad 4500MD system	QIL0101	FWTripleQuad4500R505.fw	05	TripleQuad4500 231214 05 5A2 D5199132B
QTRAP 4500MD system		FWQTrap4500R503.fw	03	QTrap4500 231214 03 5A2 D5198099B
CitrineTriple Quad system		FWCitrineTripleQuadR503.fw	03	CitrineTripleQuad 231214 03 5A2 D5301664B
Citrine QTRAP system		FWCitrineQTrapR502.fw	02	CitrineQTrap 231214 02 5A2 D5197599B

## Remove the HotFix

**Note:** Only a SCIEX field service employee (FSE) can remove the HotFix because the firmware and configuration table must be downgraded when the software is removed. We do not recommend that the HotFix be removed.

1. Deactivate the hardware profile and then close the Analyst MD software.
2. Use the ConfigUpdater utility to downgrade the configuration table to the version supported by the Analyst MD software 1.7.3. For supported versions, refer to the document: *Analyst MD Software 1.7.3 Software Installation Guide*. The ConfigUpdater utility is in the `C:\Program Files (x86)\Analyst\Firmware\ConfigUpdater`.
3. Contact SCIEX service or support to downgrade the firmware.
4. Open the **Programs and Features** control panel.
5. Select **Analyst MD 1.7.3 HotFix 1** from the list and then click **Uninstall**. The HotFix is removed from the program list. The software is reverted to the Analyst MD software 1.7.3. However, the driver for the ExionLC 2.0 system is not reverted to the previous version.

# Updated Files

The HotFix 1 makes the following changes to the Analyst, AB SCIEX, and Common Files folders. The folders are in the C:\Program Files (x86)\ folder.

### **Analyst\Bin (All files in this list, but one, are updated)**

- AdminConsole.dll
- Analyst.exe
- Analyst.reg
- AnalystLauncher.exe
- AutosamplerDB.adb
- AutosamplerDB\_SIL40\_SIL30AC\_SIL30ACM\_AlphaDWP96.adb (Added unless Analyst MD Components for Shimadzu LC-40 CL was installed)
- AuditTrailManagerCtrl.ocx
- AutosamplerDBServer.adb
- AutoTune-Instrument Tuning.exe
- BatchDir.dll
- BatchEditor.ocx
- CSISShimLC20LC30.dll
- CSISShimLC40.dll
- CSISShimLC40CL.dll
- DataList.ocx
- DDISExion2LC.dll
- DDISSSciexLC.dll
- DDISShimadzu.dll
- DDMSMassSpec.dll
- DDVAValco.dll
- ExploreDataObjects.dll
- ExploreDir.dll
- HCE.dll
- HP1100lcMethodEditor.ocx



- LCPumpMethodSvr.dll
- MMSecurity.dll
- msmethodeditor.ocx
- MsmethodSvr.dll
- PD\_\_scapSimulate.dll
- PEIUtils.dll
- ProjectFront.dll
- QuantFullMethodEditor.ocx
- QuantIntegration.dll
- QuantMethod.dll
- QuantOptimizeWizard.dll
- QuantRT.ocx
- QuantWizard.dll
- QueueSvr.dll
- ReportEngine.ocx
- SciexLCMethodEditor.ocx
- SecurityConfigDir.dll
- StatusSvr.dll
- SyncMan.dll
- TuneDir.dll
- UserManager.dll

**Analyst\BinEx (If the Analyst MD Components for Shimadzu LC-40 CL was not installed, then all files in this list are updated but for the ones added. If the Analyst MD Components for Shimadzu LC-40 CL was installed, then only the VDISSciexLC.exe file in this list is updated.)**

- MimicInstrumentHost.exe
- NexeraCL.chm (Added)
- Package\_CBM20A.dll
- Package\_CBM40.dll
- Package\_ExionLC.dll

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- Package\_Jasper.dll
- Package\_LC2030.dll
- Package\_NexeraCL.dll (Added)
- SciChart.Charting.dll (Added)
- SciChart.Core.dll (Added)
- SciChart.Data.dll (Added)
- SciChart.Drawing.dll (Added)
- Shimadzu.Chart.dll (Added)
- Shimadzu.LCDriver.CBM20A.Analog.dll
- Shimadzu.LCDriver.CBM20A.AutoConfiguration.dll
- Shimadzu.LCDriver.CBM20A.Autosampler.dll
- Shimadzu.LCDriver.CBM20A.CbmNet.dll
- Shimadzu.LCDriver.CBM20A.CommonData.dll
- Shimadzu.LCDriver.CBM20A.CommonUI.dll
- Shimadzu.LCDriver.CBM20A.FLD.dll
- Shimadzu.LCDriver.CBM20A.LCBase.dll
- Shimadzu.LCDriver.CBM20A.Oven.dll
- Shimadzu.LCDriver.CBM20A.PDA.dll
- Shimadzu.LCDriver.CBM20A.Pump.dll
- Shimadzu.LCDriver.CBM20A.RID.dll
- Shimadzu.LCDriver.CBM20A.Subcontroller.dll
- Shimadzu.LCDriver.CBM20A.SystemController.dll
- Shimadzu.LCDriver.CBM20A.UnifiedControl.dll
- Shimadzu.LCDriver.CBM20A.UnifiedStatus.dll
- Shimadzu.LCDriver.CBM20A.UVD.dll
- Shimadzu.LCDriver.CBM40.AutoConfiguration.dll
- Shimadzu.LCDriver.CBM40.Autosampler.dll
- Shimadzu.LCDriver.CBM40.CbmNet.dll
- Shimadzu.LCDriver.CBM40.CDD.dll

- Shimadzu.LCDriver.CBM40.CombinedConfiguration.dll
- Shimadzu.LCDriver.CBM40.CommonData.dll
- Shimadzu.LCDriver.CBM40.CommonUI.dll
- Shimadzu.LCDriver.CBM40.CRB.dll **(Added)**
- Shimadzu.LCDriver.CBM40.Oven.dll
- Shimadzu.LCDriver.CBM40.PDA.dll
- Shimadzu.LCDriver.CBM40.Pump.dll
- Shimadzu.LCDriver.CBM40.SystemController.dll
- Shimadzu.LCDriver.CBM40.UnifiedControl.dll
- Shimadzu.LCDriver.CBM40.UnifiedStatus.dll
- Shimadzu.LCDriver.CBM40.UVD.dll
- Shimadzu.LCDriver.CBM40.Valve.dll
- Shimadzu.LCDriver.CBM40CL.AutoConfiguration.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.Autosampler.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.CombinedConfiguration.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.Oven.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.Pump.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.SystemController.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.UnifiedControl.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.UnifiedStatus.dll **(Added)**
- Shimadzu.LCDriver.CBM40CL.Valve.dll **(Added)**
- Shimadzu.LCDriver.CompactVirtualMode.dll
- Shimadzu.LCDriver.LC2030.AutoConfiguration.dll
- Shimadzu.LCDriver.LC2030.Autosampler.dll
- Shimadzu.LCDriver.LC2030.CbmNet.dll
- Shimadzu.LCDriver.LC2030.CombinedConfiguration.dll
- Shimadzu.LCDriver.LC2030.IntegratedBaseData.dll
- Shimadzu.LCDriver.LC2030.IntegratedBaseUI.dll
- Shimadzu.LCDriver.LC2030.Oven.dll

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- Shimadzu.LCDriver.LC2030.PDA.dll
- Shimadzu.LCDriver.LC2030.Pump.dll
- Shimadzu.LCDriver.LC2030.SystemController.dll
- Shimadzu.LCDriver.LC2030.UnifiedControl.dll
- Shimadzu.LCDriver.LC2030.UnifiedStatus.dll
- Shimadzu.LCDriver.LC2030.UVD.dll
- Shimadzu.LCDriver.VirtualMode.dll
- Shimadzu.LCDriver4.CbmNet.dll
- Shimadzu.LCDriver4.CommonData.dll
- Shimadzu.LCDriver4.DataHelper.dll
- Shimadzu.LCDriver4.LCBase.dll
- Shimadzu.LCDriver4.LCBaseUI.dll
- Shimadzu.LCDriver4.Logger.dll
- Shimadzu.LCMimic.Framework.dll
- Shimadzu.LCMimic.Interface.dll
- Shimadzu.LCMimic.Interop.Common.dll
- Shimadzu.LCMimic.Interop.Defines.dll
- Shimadzu.LCMimic.Interop.Interfaces.dll
- Shimadzu.LCMimic.Interop.LCMimic2Defines.dll
- Shimadzu.LCMimic.Interop.ShimLCConfig.dll
- Shimadzu.LCMimic.Interop.ShimLCControler.dll
- Shimadzu.LCMimic.Interop.ShimLCCore.dll
- Shimadzu.LCMimic.Interop.ShimLCMethod.dll
- Shimadzu.LCMimic.Interop.ShimLCSetup.dll
- Shimadzu.LCMimic.Interop.ShimLCStatus.dll
- Shimadzu.LCMimic.Package.dll
- Shimadzu.LCMimic.ServerCommon.dll
- Shimadzu.LCMimic.ServiceInterfaces.dll
- ShimLC2030.chm

- ShimNexera40.chm
- ShimNexeraLC.chm
- VDISSciexLC.exe (This file is updated regardless of whether or not the components software is installed.)
- \_ReadMe.pdf
- \_revisionInfo.txt

### **Analyst\BinEx2 (All files in this list are updated)**

- ExionInterop.Common.dll
- ExionInterop.Interfaces.dll
- ExionInterop.LCController.dll
- ExionInterop.LCCore.dll
- ExionInterop.LCDefines.dll
- ExionInterop.LCSetup.dll
- ExionInterop.LCStatus.dll
- IntegratedLCSystemDriver.DriverCore.Base.dll
- IntegratedLCSystemDriver.DriverCore.ClientComponents.dll
- IntegratedLCSystemDriver.DriverCore.ServerComponents.dll
- LCMimicDemo.exe
- de-DE subfolder
- en-US subfolder

### **Analyst\Firmware (All files in this list, but one, are added)**

- PIL2007 (Added unless Analyst MD Components for Shimadzu LC-40 CL was installed)
- FWTripleQuad4500R05.fw
- FWQTrap4500R03.fw
- FWCitrineTripleQuadR03.fw
- FWCitrineQTrapR02.fw
- QIL0101
- FWCitrineQTrapR502.fw
- FWCitrineTripleQuadR503.fw

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- FWQTrap4500R503.fw
- FWTripleQuad4500R505.fw

**Analyst\Firmware\ConfigUpdater (These files are added unless the Analyst MD Components for Shimadzu LC-40 CL was installed. These files are updated if the Analyst MD Components for Shimadzu LC-40 CL was installed)**

- AxInterop.ComctlLib.dll
- AxInterop.InetCtlsObjects.dll
- AxInterop.MSCommLib.dll
- AxInterop.MSFlexGridLib.dll
- AxInterop.MSWinsockLib.dll
- ConfigUpdater.exe
- ConfigUpdater.exe.config
- ConfigUpdater.pdb
- ConfigUpdater.xml
- Interop.ComctlLib.dll
- Interop.InetCtlsObjects.dll
- Interop.MSCommLib.dll
- Interop.MSFlexGridLib.dll
- Interop.MSWinsockLib.dll
- Interop.Scripting.dll
- UpdateConfig.ini

**Common Files\SCIEX\LLDriver (All files in this list are updated)**

- AliasBase\_icf.dll
- AliasDCP\_icf.ocx
- AliasRes\_icf.dll
- ASBase\_icf.dll
- ASBaseDCP\_icf.dll
- ASCIIDevices\_icf.dll
- CfgCntl.dll

- CfgCntlProxy.dll
- CfgCntlSrv.exe
- CT21OvenBase\_icf.dll
- CT21OvenDCP\_icf.ocx
- CT21OvenRes\_icf.dll
- IdentifyLocal.dll
- IdentifySrv.exe
- IdentifySrvProxy.dll
- InstrCntlANASM22L\_icf.dll
- InstrCntlANBase\_icf.dll
- InstrCntlANP81L\_icf.dll
- InstrCntlANV41S\_icf.dll
- InstrCntlBase\_icf.dll
- InstrCntlCT21\_icf.dll
- InstrCntlMc\_icf.dll
- InstrCntlP61L\_icf.dll
- InstrCntlS2650\_icf.dll
- InstrDADBase\_icf.dll
- InstrDADDCPBase\_icf.dll
- InstrDADRes\_icf.dll
- InstrS2650DCP\_icf.ocx
- KBase\_icf.dll
- KBaseDCP\_icf.dll
- KNGeneral\_icf.dll
- KPumpBase\_icf.dll
- KPumpP61LDCP\_icf.ocx
- KPumpP81LDCP\_icf.ocx
- KPumpRes\_icf.dll
- KWCUnits.dll

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- LogConfig.exe
- McMonitor\_icf.dll
- OEMFolderAccess.dll
- RCServer.dll
- SparkProtocol\_icf.dll
- SType.prm
- SvalvesBase\_icf.dll
- SvalvesDCP\_icf.ocx
- SValvesRes\_icf.dll
- SxASController.exe
- SxControllerBase.dll
- SxDADController.exe
- SxOvenController.exe
- SxPumpController.exe
- SxPumpPController.exe
- SxSVController.exe
- SxVIBase.dll
- SxVIInterfaces.dll
- SxWSController.exe
- Units.txt
- WashStationBase\_icf.dll
- WashStationDCP\_icf.ocx
- WashStationRes\_icf.dll

### **Analyst\Simulation (All files are updated)**

- FWCitrineQTrap\_HM.sim
- FWCitrineQTrap\_LM.sim
- FWCitrineTripleQuad\_HM.sim
- FWCitrineTripleQuad\_LM.sim
- FWTripleQuad4500.sim



- FWQTrap4500.sim

### **Analyst\Help**

- Analyst MD 1.7.3 HotFix 1 Release Notes.pdf (Added)
- Administrator\_Console.chm (Updated unless Analyst MD Components for Shimadzu LC-40 CL was installed)

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**Tip!** A shortcut to the Release Notes can be found in this location: **Start > SCIEX Analyst MD**

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### **Analyst\Help\Software Guides**

- Peripheral Devices Setup Guide.pdf (Updated unless Analyst MD Components for Shimadzu LC-40 CL was installed)

### **Analyst\Scripts\sMRM Calculator (Updated)**

- sMRM Calculator Setup.exe

### **AB SCIEX\AnalystReporter\bin (Updated)**

- Sciex.Report.DataSource.Analyst.dll
- Sciex.Report.Engine.dll

### **C:\Program Files\AB**

#### **SCIEX\ReporterOfficeAddins\TemplateContentControlManager (Updated)**

- TemplateContentControlManager.dll.manifest
- TemplateContentControlManager.vsto

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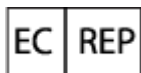
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