BioPhase Software

Release Notes

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Introduction 1

This guide provides information about, and procedures for, installing the BioPhase software, obtaining a license for the BioPhase software, installing the Project Management software, and downloading methods to use with the BioPhase 8800 system.

Requirements 2

Operating System Requirements

This version of the software is compatible with Microsoft Windows 10, 64-bit. For computer requirements, refer to the section: Computer Requirements.

Computer Requirements

The computer must meet the minimum requirements for Microsoft Windows 10, 64-bit software.

Local Computer Configuration Requirements

In a local computer configuration, the customer can purchase a computer from SCIEX or supply their own. If a non-SCIEX computer will be used, then the customer is responsible for all aspects of configuration and installation of the BioPhase software. The non-SCIEX computer must meet or exceed the specifications for the validated computer. Refer to the section: Validated Computer Configuration.

Validated Computer Configuration

Table 2-1 Validated Computer Configuration

Item	Details
Operating system	Microsoft Windows 10
Additional software	OS Windows Media .NET framework version 4.7.2 or later
CPU	Heatsink 5820 Tower
Random access memory (RAM)	32 GB 2× 16 GB DDR4 3200 MHz RDIMM ECC memory
Solid state drive	M.2 1 TB PCIe NVMe Class 40
Ethernet adapters	Ethernet port for network connectivity

Network Configuration Requirements

To connect the BioPhase 8800 system to the customer network, a computer (known as a domain isolator) that is configured to isolate the system from the network domain is required. Software that is required for use with the domain isolator is available from SCIEX.

Before the FSE arrives at the customer site for BioPhase 8800 system installation, the customer is responsible for configuring the domain isolator to connect to their network. To add any computer to the network domain, assistance from the customer IT department is recommended.

A single domain isolator can use a network switch or be configured as a VLAN on the customer network to connect to multiple BioPhase 8800 systems.

Domain Isolator Requirements

Table 2-2 Domain Isolator Requirements

Item	Details
Operating system	Microsoft Windows 10
Other software	.NET framework version 4.7.2 or later
Adapters	2 Network interface cards

Installation Instructions 3

Download Required Software and Files

Go to sciex.com/software-support/software-downloads and download the following files from the **More Software Downloads** section:

- BioPhase Software 1.0

- BioPhase Project Management Software 1.0

- BioPhase Project Files 1.0

Tip! To prevent potential installation issues, save the files to a location other than the computer desktop and disconnect any external USB storage devices before starting an installation.

Set Up Project Folders

Use this procedure to set up project folders that contain methods, sequences, reagents, and analysis parameters to be used with the BioPhase software.

1. In File Explorer, right-click the **BioPhase.zip** file and then click **Extract All** to extract the installation package.

2. In the Extract Compressed (Zipped) Folders dialog, click **Browse**, and then select the file path C:\BioPhase.

3. Click **Select Folder**, and then click **Extract**.

   The extracted files are copied to the selected file path. The extracted files include Project and Reagent folders that are identified and used during installation.

Install the BioPhase Software

The BioPhase software lets the user set up methods and sequences for data acquisition and then analyze the collected data.

1. Log on to the computer as a Windows user with Administrator privileges.

2. Make sure that all applications are closed.

3. In File Explorer, double-click the **SCIEX_BioPhase_Software_1.0.zip** file and then click **Extract All** to extract the installation package.

4. Double-click the Installer msi file.

5. Select the **I accept the terms in the Licence Agreement** check box, and then click **Install**.

6. Follow the on-screen instructions.

    When the location of the Project and Reagents folders is requested by the Installer, use the location of the folders that were created when the project folders were set up. Refer to the section: Set Up Project Folders.

7. Follow the on-screen instructions.

    > **Note:** To prevent installation issues, install the software on a local drive. Do not install the software on a network or removable drive.

    > **Note:** To prevent installation issues, make sure that the path to the installation folder is not too long. If the path is longer than 118 characters, then installation will not continue.

8. After the software is installed, restart the computer.

    > **Note:** A restart is not mandatory. However, SCIEX recommends that the computer be restarted.

9. Download and activate the license. Refer to the section: Electronic Licensing.

Electronic Licensing

To use the BioPhase software, a node-locked license is required. The license file name is License.lic. The license file is installed in the C:\Program Files (x86)\AB SCIEX\BioPhase folder on the computer where the BioPhase software is installed. To activate the node-locked license, refer to the section: Activate a Node-Locked License for BioPhase Software.

> **Note:** For the node-locked license, do not change the computer date and time after the license is activated. If the computer date and time must be changed, then do so before activating the license. Otherwise, the software might not operate.

> **Note:** Do not modify a node-locked license file. Modifying the license file invalidates the license and it becomes unrecoverable.
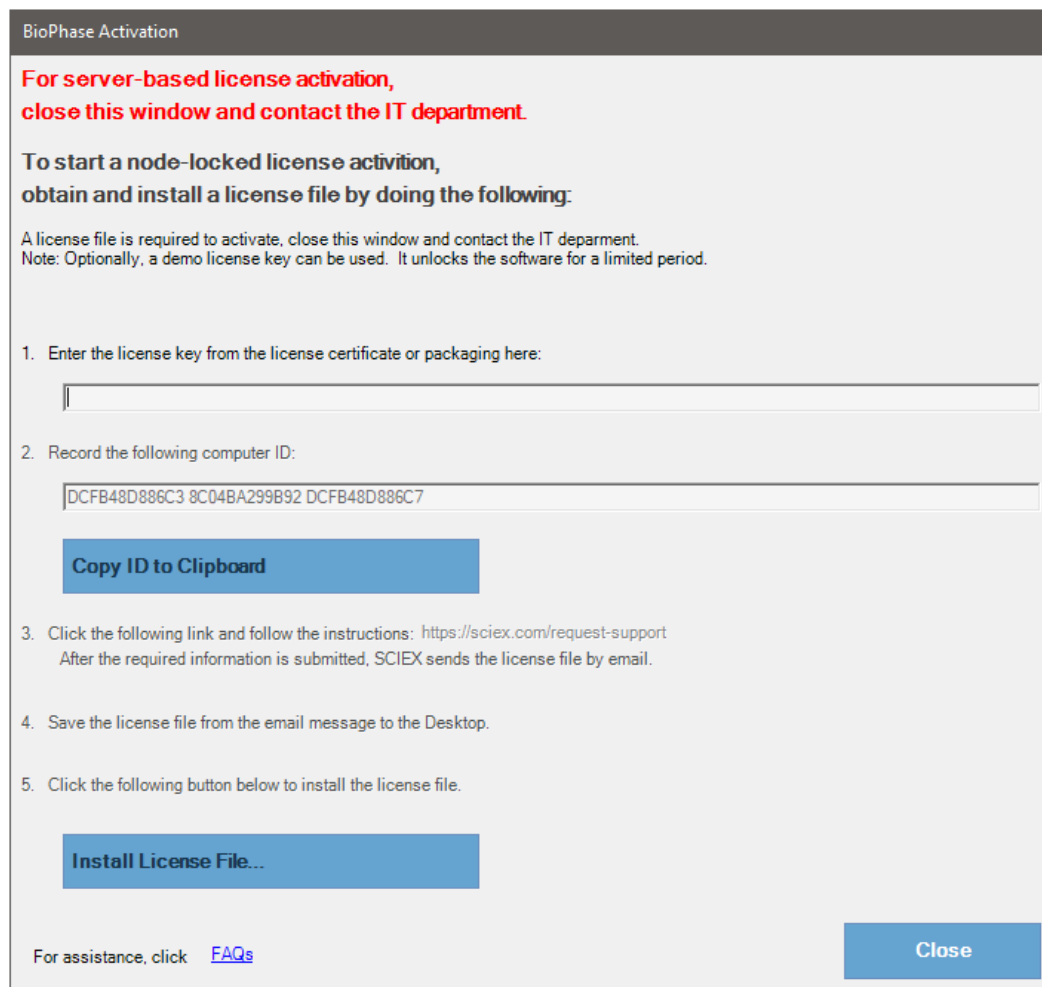
> **Note:** If additional licenses are required, contact SCIEX Support at sciex.com/contact-us.

Activate a Node-Locked License for BioPhase Software

1. Double-click the BioPhase icon on the desktop.

   The software initiates the software activation process, and the BioPhase Activation dialog opens. Follow the instructions in the dialog. A license key is required.

   Figure 3-1 License Message

2. In step 1 of the BioPhase Activation dialog, type the license key.

   The license key can be distributed on a printed activation certificate or in an e-mail from SCIEX Now. If the license key is missing, contact a SCIEX sales representative.

> **Note:** The license key starts with AID and is followed by 32 characters, consisting of 8 segments of 4-digit codes separated by hyphens.

Entering the license key enables the **Copy ID to Clipboard** and **Install a License File** buttons and the link in step 3 of the BioPhase Activation dialog.

3.   In the BioPhase Activation dialog, click the link in step 3.

The SCIEX Login web page opens.

4.   Click **Log In** to log in to an existing SCIEX account or click **Create an Account**.

When account creation or log-on is complete, the software activation SCIEX web page shows. The first name, last name, and e-mail address of the user are shown in the first three fields in the form.

If a license is being activated for the BioPhase software on this computer, then the **License Key** field is also populated with the correct information.

5.   (Optional) If a license is being activated for the BioPhase software on a different computer, then type the computer ID, which is the MAC address of the network port used to connect the computer to the network, and the license key in the fields.

6.   (Optional) If the **Computer ID** field is empty, in the BioPhase Activation dialog, click **Copy ID to Clipboard** to copy the computer ID, and then, in the software activation SCIEX web page, paste the ID in the **Computer ID** field.

7.   (Optional) In the **Nickname** field, type a name.

8.   In the **Select Your Instrument** field, select and type the required information.

9.   In the **Serial Number** field, type the serial number of the BioPhase 8800 system.

The serial number is on the back panel.

10.   Click **Submit**.

11.   To download and save the license file, do one of the following:

- In the message dialog that is shown, click **Download Now** to download the license file, and then save the file to a local file path.

- In the e-mail that is sent, download the license file, and then save the file to a local file path.

12.   In the BioPhase Activation dialog, click **Install License File**, and then select the location where the license file is saved.

If the license file is valid, then the BioPhase Activation dialog closes and the BioPhase software opens to show the Home page.

Install the Project Management Software

In a local computer configuration, the Project Management software is installed on the local computer.

In a network configuration, the Project Management software is installed on the domain isolator.

1. Log on to the local computer or domain isolator as a Windows user with Administrator privileges.

2. Make sure that all applications are closed.

3. In File Explorer, right-click the **SCIEX_BioPhase_Project_Management_Software_1.0.zip** file and then click **Extract All** to extract the installation package.

4. Double-click the Installer msi file.

5. Follow the on-screen instructions.

    > **Note:** To prevent installation issues, install the software on a local drive. Do not install the software on a network or removable drive.

    > **Note:** To prevent installation issues, make sure that the path to the installation folder is not too long. If the path is longer than 118 characters, then installation will not continue.

6. After the software is installed, restart the computer.

Project Management Software 4

The Project Management software is used to make projects available on the BioPhase 8800 system, to give the user the permission to access projects, and to give the user sign-off authorization.

The Project Management software can use project folders in both the local computer and network configurations.

• In a local computer configuration, the user must have login credentials for the local computer to use the Project Management software. Projects are kept on the local computer.

• In a network configuration, the user must have login credentials for the domain isolator and permission to access the customer network to use the Project Management software. Projects are kept in user-designated project folders on the network.

Figure 4-1 Project Management Software
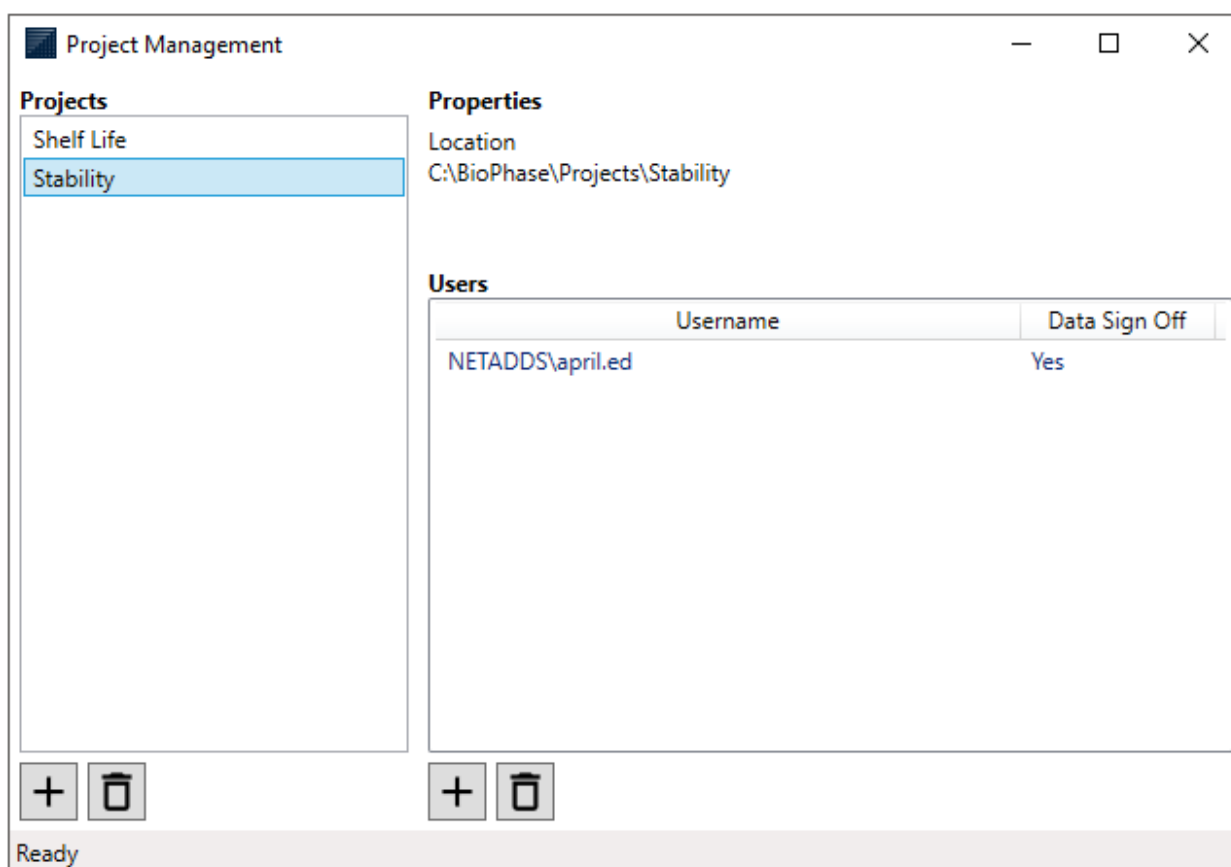
Table 4-1 Lists and Functions

Label	Description
Projects	Shows the available projects.
Properties	Shows the location of the selected project.
Users	Shows the users associated with the selected project. The columns in the list are: • Username: Shows the username for the user. • Data Sign Off: Shows whether the user is authorized to sign data electronically for the project.

Table 4-1 Lists and Functions (continued)

Label	Description
![+]	Click to add a project in the **Projects** list.
![trash]	Click to delete a project in the **Projects** list.
![+]	Click to add a user in the **Users** list.
![trash]	Click to delete a user in the **Users** list.

Add a Project Folder in File Explorer

This task is typically done by the lab manager or administrator.
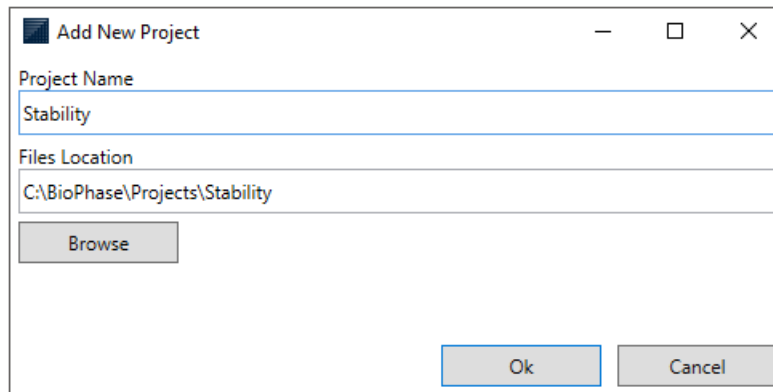
1.　Open File Explorer.

2.　Type the file path in the search field: C:/BioPhase/Projects and then press **Enter**.

3.　Click **New Folder** and then type the name of the project for the folder name.

　　In the BioPhase software, the new project folder is shown.

Make a Project Available on the System

Use this procedure to make a project available on the BioPhase 8800 system.

1.　Open the Project Management software.

2.　At the bottom of the **Projects** list, click ![+].

　　The Add New Project dialog opens.

3.　To find the existing project, click **Browse** and then look for and select the project folder.

4.　In the **Project Name** field, type the name of the project.

> **Tip!** Use the same name as the existing project folder.

Figure 4-2 Add New Project Dialog

5.   Click **Ok**.

The Add New Project dialog closes and the project is shown in the **Projects** list.

6.   To give a user access to the project, add them to the project. Refer to the section: Add a User to a Project.
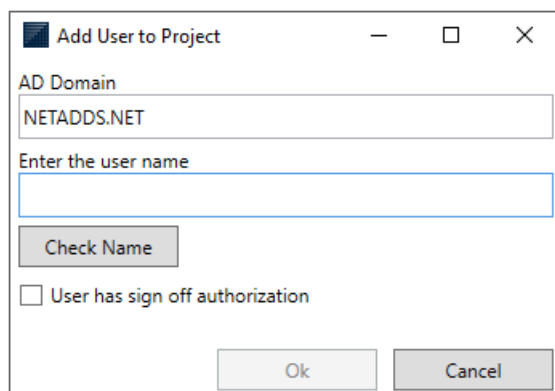
Add a User to a Project

Use this procedure to add a user to a project.

1.   Open the Project Management software.

2.   In the **Projects** list, click a project.

3.   At the bottom of the **Users** list, click ⊞.

The Add User to Project dialog opens.

Figure 4-3 Add User to Project Dialog

4.   In the **Enter the user name** field, type the name of the user who should be given access to the project.

     This is the same user name that is used to log on to the computer.

5.   Click **Check Name**.

     If the user name is found, the **Enter the user name** field is updated with additional information. If the user name is not found, the **Ok** button is not enabled.

Figure 4-4 Add User to Project Dialog

6.   To give the user sign-off authorization, click **User has sign off authorization**.

7.   Click **Ok**.

     The Add User to Project dialog closes and the name of the user who was added shows in the **Users** list.

Configure Project and User Access

To make projects available to users on the BioPhase 8800 system, change the system configuration settings.

1.   On the BioPhase 8800 system front panel, in the Login dialog:

   a.   In the **Username** field, type **admin**.

   b.   In the **Passcode** field, type **password**.

   c.   Touch **Log In**.

2.   Touch **Configuration**.

3.   Type the required information in the **DI Computer Name**, **DI IP Address**, and **Domain Name** fields.

> **Note:** For a local computer configuration, the computer name is used again for the domain name.

4.   Touch **Save**.

5.   Touch **Log off**.

Confirm Project Setup

1.   On the BioPhase 8800 system, log in with the credentials of a user who has been assigned to a project.

2.   On the front panel, touch **Run Sequence**.

   The list of projects is shown in the blue panel on the left side of the Run Sequence window.

3.   Click to refresh the **Projects** list.

4.   Make sure that the assigned projects show. If the assigned projects do not show, log off the system, and then do the following steps.

5.   Touch **Log off**.

6.   Log on as a user with Administrator privileges. In the Login dialog:

   a.   In the **Username** field, type **admin**.

   b.   In the **Passcode** field, type **password**.

   c.   Touch **Log In**.

7.   Touch **Configuration**.

> **Note:** The **Configuration** button is only enabled for users who have Administrator privileges.

8.   Touch **Save**.

9.   Touch **Log off**.

10.   Do steps 1 through 4 again.

Delete Access to a Project on the System

Use this procedure to delete all user access to a project.

1.   In the **Projects** list, click a project.

2.   At the bottom of the **Projects** list, click 🗑 .

3.   In the warning dialog, click **Yes**.

> **Note:** This procedure deletes user access to a folder. The project folder is not deleted.

Delete a User from a Project

Use this procedure to delete a user from a project.

1.   In the **Projects** list, click a project.

2.   In the **Users** list, click a user associated with the project.

3.   At the bottom of the **Users** list, click 🗑 .

        The deleted user cannot get access to the project on the BioPhase 8800 system front panel.

Known Issues in the Software 5

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

Issue	Notes
(BioPhase Analysis software) If the report template has a logo and text in the header, then the logo overwrites the text. (BRKSW-1304)	In the Report Setup dialog, select **Above header** and then click **File > Print Preview** to make sure that there are no issues with the report before saving or printing.
(BioPhase software) If the reagents in a reagent configuration file are changed, then the reagents for a method created before the change might not be correct. (BRKSW-1369)	To prevent errors, do not change any reagents if there are saved methods that use those reagents.
In the graph in the Data pane in the BioPhase Analysis software, when the user changes the X-axis from **MT** to **Cal MT** or vice versa, the scaling on the Y-axis changes. This is more obvious when annotations are shown and might result in the annotations being truncated. (BRKSW-1494)	To prevent this issue, use custom scaling, available from the **Custom Scale** option on the Integration tab. Set the **Y-axis maximum** to **Manual** and then type a value large enough to show all of the annotations.
(BioPhase Analysis software) If the graphs are tiled on the Overlay tab, then the file names overwrite each other. (BRKSW-1546)	To resolve the issue, close and then open the BioPhase Analysis software.
(BioPhase Analysis software) If the **Optimizer** is selected on the Integration tab, then the message that parameters were modified continues to be shown after the data is analyzed. (BRKSW-1551)	To remove the message, click ▶ to analyze the data again.
(BioPhase Analysis software) Deleting a peak tail after splitting a peak deletes the wrong area. (BRKSW-1571)	
(Front panel) If the sequence has a long name then it is truncated in the header that is shown during the run. (BRKSW-1686)	

Known Issues in the Software

Issue	Notes
(Front panel) If a method fails during a run, a green check mark is shown while the error recovery method is running. After the error recovery method completes, the status changes to indicate that an error occurred. (BRKSW-1742)	
(Front panel) If an error is shown and the sequence is cancelled, then a message indicating that the error recovery method is running is shown, even if the sequence doesn't have an error recovery method. (BRKSW-1751)	If there is no error recovery method in the sequence, then the sequence ends.
(BioPhase software) If the software is configured to save methods and sequences to a server, methods and sequences cannot be created and saved if the computer with the BioPhase software is not connected to the server. (BRKSW-1790)	The computer with the BioPhase software must be connected to the server. During installation, the user specifies where the sequences will be saved. If the computer is directly connected to the BioPhase 8800 system, then there is no issue.
(Front panel) If a sequence fails, then the exclamation mark is shown at the action before the error occurred. (BRKSW-1792)	When troubleshooting an error, make sure to examine the step following the step with the exclamation mark.
(BioPhase software) If the user hovers over the **Fill Down Run Type** cell, then sometimes the tool tip is not correct. (BRKSW-1803)	
(BioPhase Analysis software) The number of decimal places shown in the system suitability report does not correspond to the value set in the Report Setup dialog. Instead, the report uses the value from the Information Setup dialog. (BRKSW-1835)	To set the number of decimal places for the system suitability report, use the Information Setup dialog that is available in the Results Table for the Overlay tab.
(BioPhase Analysis software) When the user applies or revokes a signature, the comment field in the Signature dialog accepts more characters than can be saved. (BRKSW-1849)	To prevent the loss of information, limit comments to 64 characters or less.

Issue	Notes
(BioPhase software) The **Project** field (in the Method Summary pane on the Method Summary tab) can sometimes show the wrong project. This issue occurs when a method is selected and then a different project is selected in the **Projects/Method** list. The newly-selected project is shown, but the other parameters shown are for the method that was originally selected. The inconsistency might persist in the method report. (BRKSW-1859)	To make sure that the correct project name is shown in the method report, first select the project that contains the method, and then print the method report.
(BioPhase software) If **Search** is clicked in the Open a Method dialog, then the software might stop responding or close. (BRKSW-1865)	To avoid this issue, do not use the search feature.
During data acquisition, sometimes two copies of the same data file are saved. (BRKSW-1892)	To prevent the loss of data, an extra file is created when network latency is detected. Make sure that the data in the duplicated file is the same as the data in the original file, and then delete the duplicated file.
(Front panel) The run count in the **Recorded Number of Runs** field is increased by two for each run in a cIEF separation. Over time, this can result in a message indicating that the cartridge has exceeded the **Expected Number of Runs**. (BRKSW-1896)	The run count is based on the number of Separate actions in a run. cIEF separations have two Separate actions per run. To calculate the actual number of runs, divide the **Recorded Number of Runs** by two.
(BioPhase Analysis software) If the graph image is saved or copied, then the annotations are sometimes truncated. (BRKSW-1905)	To prevent this issue, use custom scaling, available from the **Custom Scale** option on the Integration tab.
(BioPhase Analysis software) If there are too many lines in the report header, then the Results Table is truncated when it is in landscape format. (BRKSW-1908)	Click **File > Print Preview** to view the report. If the Results Table is truncated, then click **File > Report Setup** and edit the report layout as required.
(BioPhase Analysis software) If the graphs are tiled on the Overlay tab and the selected data files in the Files pane change, then the report for the Overlay tab does not show the correct graphs. (BRKSW-1909)	Close and then open the BioPhase Analysis software. Open only the data files to be overlaid and then print or save the report.

Known Issues in the Software

Issue	Notes
If the same sequence is run multiple times, then data files might have extra text in the file name. (BRKSW-1912)	The extra text is added to make sure that file names are unique.
(Front panel) Sometimes the graph for a Separate action is shown as starting at a time after zero. (BRKSW-1913)	The data is saved correctly to the data file, so the error is limited to the front panel.
(BioPhase Analysis software) If a page range is set in the Print dialog, then the entire report is printed. (BRKSW-1923)	To print a range of pages, save the whole report to a PDF and then use a PDF reader to print the pages.
(Front panel) If **Initialize System** is touched while the light source is warming up, then the time remaining for the light source to warm up is cleared. The lamp status indicates that the lamp is ready when it might not be. (BRKSW-1924)	Do not touch **Initialize System** while the light source is warming up.
(Front panel) If an error occurs and **Initialize System** is touched, then a second message is shown. (BRKSW-1925)	To clear the second error, touch **Initialize System** again.
(BioPhase software) If a method is opened with a bad network connection, then the method name is shown in red with a line through it and the method is disabled. When the network connection is restored, the method name is still shown in red with a line through it. (BRKSW-1927)	After the network connection is restored, close and then open the BioPhase software.
(BioPhase software) The project lists on the Sequence Summary and Sample Plate Set Up tabs sometimes show different information. (BRKSW-1934)	After creating a new project, close and then open the BioPhase software before saving methods or sequences to the project.
(BioPhase Analysis software) If the Help file is open, then the software cannot be accessed until the Help file is closed. (BRKSW-1945)	After reading the topic, close the Help file. To keep the information in the Help file available, before closing it, click **Print** and print to a printer or a PDF file.
(BioPhase software) The method editor cannot open a newly created method file if the method and project names are the same. (BRKKSW-1970)	Make sure that method and project names are different.

Issue	Notes
(BioPhase software) If the conditioning method is not added to the sequence first, before adding other types of methods, then when the sequence is saved and opened again, the conditioning method is in a different location in the sequence. (BRKSW-1977)	Always add the conditioning method to a sequence first, before adding any other types of methods.
(BioPhase software) When creating a method, if the row of actions is full, then additional actions can't be added at the end of the method. (BRKSW-1978)	Add the action to a position that is between two actions instead of after the last action in the row. After the action is added, drag it to the end of the method.
(BioPhase software) Data file names that include the project name might result in names that exceed the maximum path length in Windows. If the file names are too long, then the data files might not be saved. (BRKSW-1981)	The maximum length of the file name, including the file path, is 255 characters. If the project name is included as part of the data file name, then do not nest the project folders very deeply so that the full file name including the path does not exceed 255 characters

Contact Us

Customer Training

- In North America: NA.CustomerTraining@sciex.com
- In Europe: Europe.CustomerTraining@sciex.com
- Outside the EU and North America, visit sciex.com/education for contact information.

Online Learning Center

- SCIEX Now Learning Hub

Purchase Consumables

Reorder SCIEX consumables online at store.sciex.com. To set up an order, use the account number, found on the quote, order confirmation, or shipping documents. The SCIEX online store is currently limited to the US, UK, and Germany but will be expanding to other countries in the future. For customers in other countries, contact the local SCIEX representative.

SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com or contact us in one of the following ways:

- 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 supercedes all previous versions of this document.

To view 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 *Customer Reference* DVD that comes with the system or component.

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

Note: To request a free, printed version of this document, contact sciex.com/contact-us.