TSQ Series II 5.1 Installation Guide

This guide provides software installation instructions for the Thermo Scientific™ TSQ™ Series II 5.1 Instrument Control Software.

For additional details, see the following topics:

- Supported instruments
- System requirements
- New installation
- Upgrade installation
- Instrument configuration

Supported instruments

The TSQ Series II 5.1 Instrument Control Software supports the following Thermo Scientific™ triple-stage quadrupole mass spectrometers:

- TSQ Certis™
- TSQ Altis™ Plus
- TSQ Quantis™ Plus
- TSQ Fortis™ Plus

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System requirements

The following table outlines the minimum hardware and software requirements.

NOTE:

- Local administrator privileges are required to install Thermo Scientific software.
- If you are upgrading from Windows 10 to Windows 11, contact Thermo Fisher Scientific Technical Support for assistance.
- Software testing was limited to the scope of the provided configuration.
- The Chromeleon™ software compatibility matrix outlines verified compatibility between instrument control software versions, Chromeleon software versions, and instrument models.
  For more information or to access the compatibility matrix, go to support.thermoinformatics.com/downloads/default.aspx, and select **Chromeleon** → **Chromeleon** → **Related Drivers** → **Driver Compatibility Matrix**.

Table 1 System requirements

System	Requirements
Computer	• 3.1 GHz Intel™ Quad-Core processor • 16 GB RAM (32 GB recommended) • 1 TB hard drive • Two Ethernet gigabit network ports • DVD-ROM drive • Monitor display resolution of 1920 × 1080
Software	Microsoft™ Windows™ 10 Enterprise LTSC 2021 *Requires the following Thermo Scientific™ software:* • Foundation 3.1 SP10 • Xcalibur™ 4.7 SP1 • FreeStyle™ 1.8 SP2 QF1 • SII for Xcalibur 1.8 or 1.10
	Microsoft™ Windows™ 11 Enterprise LTSC 2024 *Requires the following Thermo Scientific™ software:* • Foundation 3.1 SP11 • Xcalibur™ 4.8 or later • FreeStyle™ 1.8 SP3 QF1 • SII for Xcalibur 1.9 or 1.10

New installation

IMPORTANT: To run the instrument control software, you must install or upgrade your Xcalibur data system software to meet the minimum requirements. Refer to the Xcalibur 4.7 SP1 Release Notes for installation or upgrade instructions.

Prerequisites

✓ Install Xcalibur 4.7 SP1 with Foundation 3.1 SP10 or later.
NOTE: If you install the standalone Method Editor (workstation) application, Xcalibur software is not required.

✓ Download the TSQ Series II 5.1 software from the Thermo Scientific Software Download Portal.
Visit https://thermo.flexnetoperations.com.
NOTE: Register to use the features of the software download portal.

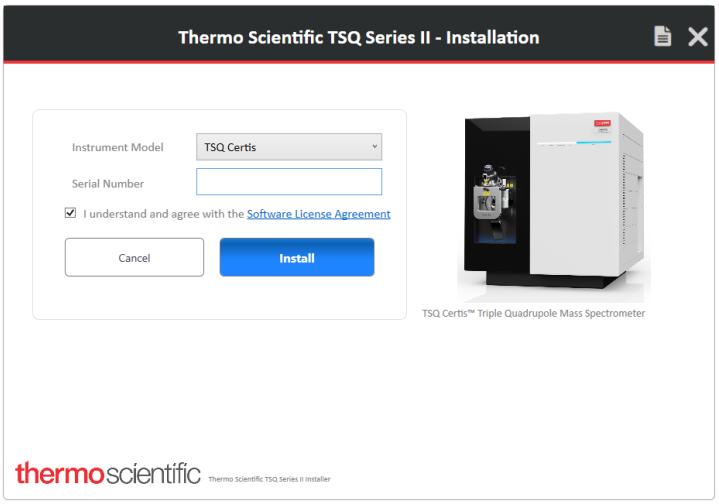
Procedure

1. Open the TSQ Series II 5.1 electronic media from the appropriate location.
2. Browse the software folder, and then launch the installer (.exe) from one of the following folders:

   – **TSQSeriesII:** This folder contains the full software installation setup.

   – **TSQSeriesIIWorkstation:** This folder contains the standalone Method Editor (workstation) application. Use this option if you want to run the Method Editor in a standalone environment and do not have an instrument connected.

   Figure 1 Thermo Scientific TSQ Series II - Installation window



3. Specify the following parameters:

   – **Instrument Model:** Select your instrument model.

   – **Serial Number:** Enter your instrument serial number, if applicable.

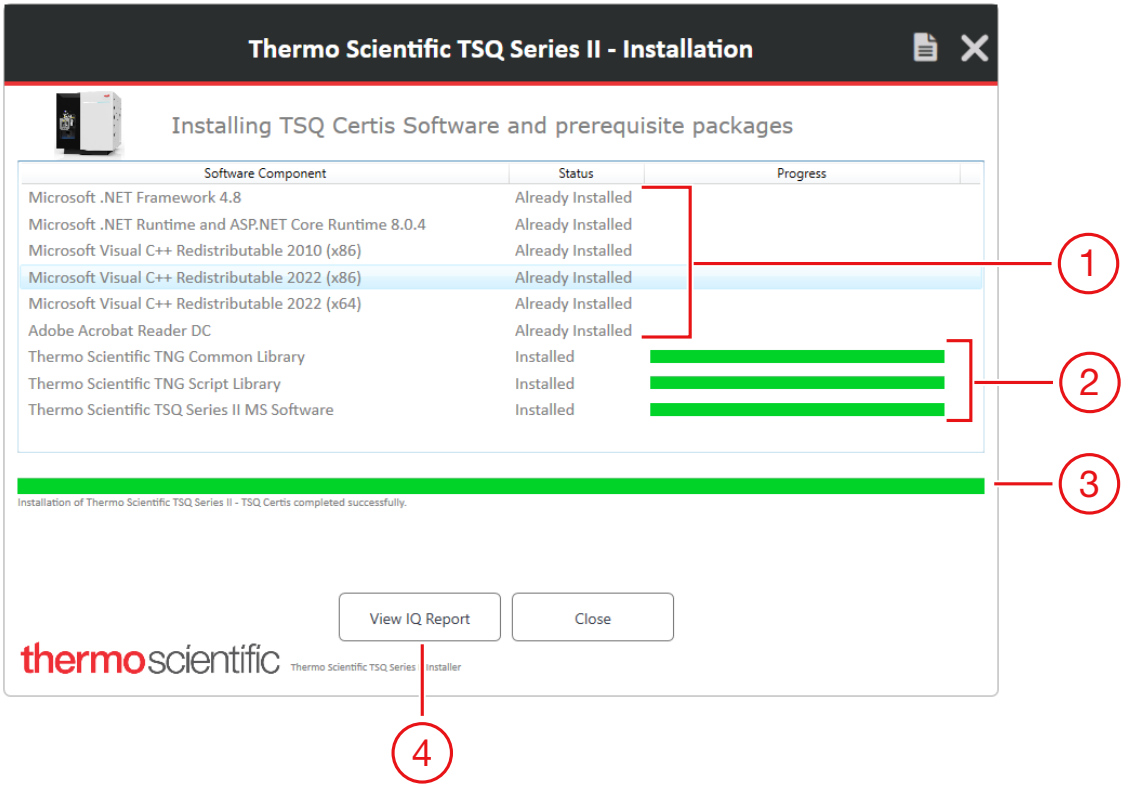
NOTE: The serial number is automatically populated if the system detects an instrument. If the system does not detect an instrument and the field is left blank, you can enter the serial number later in the Thermo Foundation Instrument Configuration window after the software is installed.

   – **Software License Agreement:** Read the software license agreement, and then select the checkbox to proceed.

4. Select **Install** to start the installation process.

   The installer installs the required components and skip any components that are already installed.

Figure 2 Installation progress window



No.	Description	No.	Description
1	Component status bar (example of skipped items)	3	Installation status bar
2	Component status bar	4	Opens the software installation qualification report

5. Select **View IQ Report** to open the software installation qualification report after the installation is completed. The report contains installation action details and provides an installation qualification result score (pass or fail).

NOTE: If the system fails the installation qualification, contact Thermo Fisher Scientific Technical Support.

6. Select **Close** to exit the installation window.
7. Reboot the instrument if needed.

Upgrade installation

Follow this procedure to upgrade from a previous version of the instrument control software.

IMPORTANT: To run the instrument control software, you must install or upgrade your Xcalibur data system software to meet the minimum requirements. Refer to the Xcalibur 4.7 SP1 Release Notes for installation or upgrade instructions.

Prerequisites

- ✓ If the instrument was previously calibrated with Polytyrosine using an earlier software version, set the Current CalMix setting to EMRS in the Instrument Configuration, and then launch the Tune application and recalibrate the system using EMRS.
  NOTE: Polytyrosine is no longer supported as a calibration solution starting with 5.1 software.
- ✓ Run the System Check option in the Tune application before you upgrade the instrument control software. If any failures occur, run the applicable calibration procedure. Contact Thermo Fisher Scientific Technical Support if your system does not pass all calibrations.
- ✓ Download the TSQ Series II 5.1 software from the Thermo Scientific Software Download Portal. Visit https://thermo.flexnetoperations.com.
  NOTE: Register to use the features of the software download portal.

Procedure

1. From the Windows taskbar, select **Start** → **Thermo Scientific Foundation 3.1** → **Instrument Configuration**.
   The Thermo Foundation Instrument Configuration window appears.
2. Highlight the MS icon, then select **Remove** to remove it from the Configured Devices list.
3. Select **Done** to close the Thermo Foundation Instrument Configuration window.
4. Uninstall the existing TSQ Series II software.
5. Install or upgrade to Xcalibur 4.7 SP1, if applicable.
6. Install the TSQ Series II 5.1 software.
   For additional details, refer to New installation.

Instrument configuration

Use the Thermo Foundation Instrument Configuration to configure the instrument, if applicable.

Prerequisites

✓ Install the TSQ Series II 5.1 software.

Procedure

1. From the Windows taskbar, select **Start** → **Thermo Scientific Foundation 3.1** → **Instrument Configuration**.

   The Thermo Foundation Instrument Configuration window appears.
2. Highlight the MS icon, then select **Add** to place it in the Configured Devices list.
3. Highlight the MS icon and select **Configure**, or double-click on the icon to open the Instrument Configuration dialog box.
4. Specify the configuration parameters for the MS, as applicable.

   For details on the instrument configuration parameters, refer to the Tune Help.
5. Select **OK** to close the Instrument Configuration window.
6. Select **Done** to close the Thermo Foundation Instrument Configuration window.
7. Restart the instrument computer if prompted.