

TekRxTest Application

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Prerequisites and installer instructions for PCIe Rx application

Prerequisites

These are the pre-requisites required for installing the TekRxTest application.

1. Microsoft Visual C++ Redistributable
 - a. Required for use with Sigtest version 6.1.xx, which supports PCIe 6.0 compliance testing.
 - b. **Download Link:** [Latest supported Visual C++ Redistributable downloads | Microsoft Learn](#)
2. MATLAB Runtime
 - a. Install MATLAB Runtime Compiler R2021a (version 9.10).
 - b. This is required for Sigtest versions 5.1.xx and 6.1.xx.
 - c. **Download Link:** [Link](#)
3. Refer to the [Link](#) to download latest Sigtest version and its dependencies.

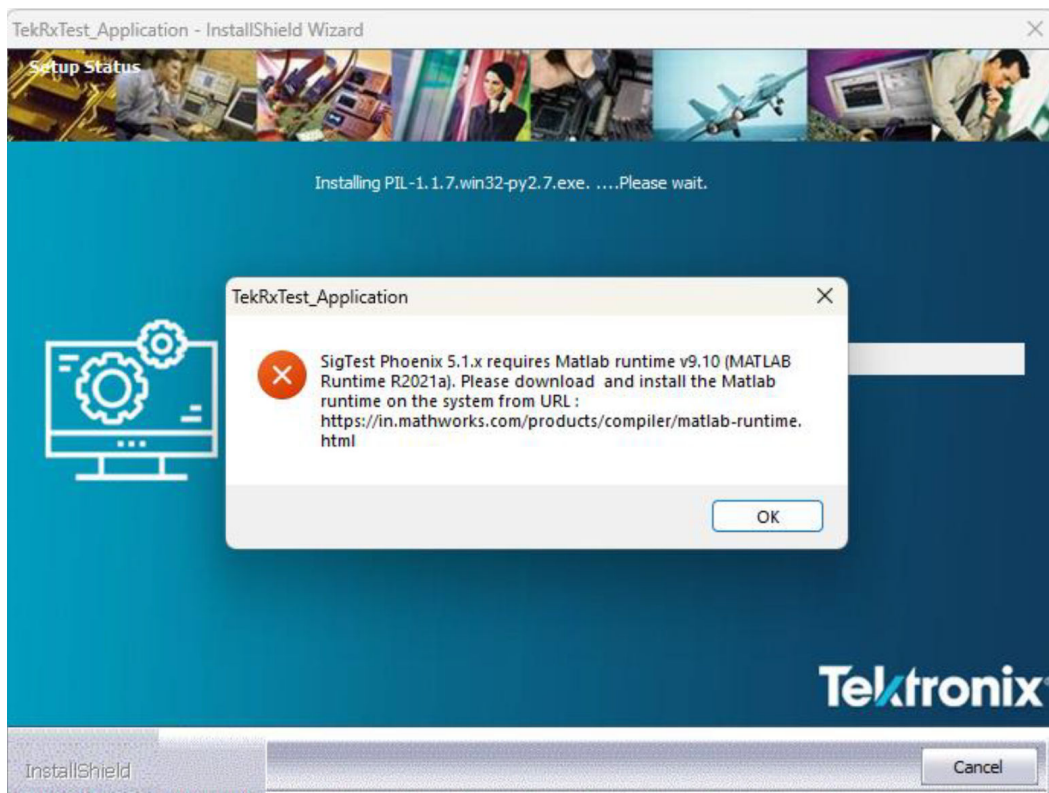
Install TekRxTest application

During installation of the TekRxTest application installer (V6.7.x.x or above), you will be prompted to choose from the following configuration options:



- TekRxService 3.0.xx (To communicate between TekRxTest and Sigtest/Seasim)
- Sigtest 3.2.xx for PCIe Gen3
- Sigtest 4.0.x for PCIe Gen4
- Sigtest Phoenix 5.1.x for PCIe Gen5
- Sigtest 6.1.xx for PCIe Gen6 (Install latest Microsoft Visual C++ Redistributable: refer to pre-requisites (on page 4))
- TekRxTest 6.7.x.x (Rx Application)

NOTE: If you did not install the prerequisite MATLAB Runtime (on page 4), the installer will display a pop-up prompting to install MATLAB. If MATLAB Runtime is already installed, the installation will continue without interruption.



Anritsu MP1900a firmware and software compatibility

- MX190000A Signal Quality Analyzer-R Control Software: V12.02.01 or above
- MX183000A High-Speed Serial Data Test Software: V12.02.01 or above.

Seasim

These components are bundled with the TekRxTest application and will be automatically installed during the wrapper setup:

- **Version 0.77** – for PCIe Gen4 and Gen5
- **Version 2.0.104e** - for PCIe Gen6 and Gen7

Oscilloscope

Ensure the correct version is installed on the oscilloscope before running TekRxTest.

- **DPO77002SX**: Version **10.15.0.3** or above
- **DPO70000DX, DPO70000SX**: Version **10.15.1.3** or above
- **PAMJET**: Version 10.11.xx or above (Required for PCIe 6.0/7.0)

Prerequisites and installer instructions for USB Rx application

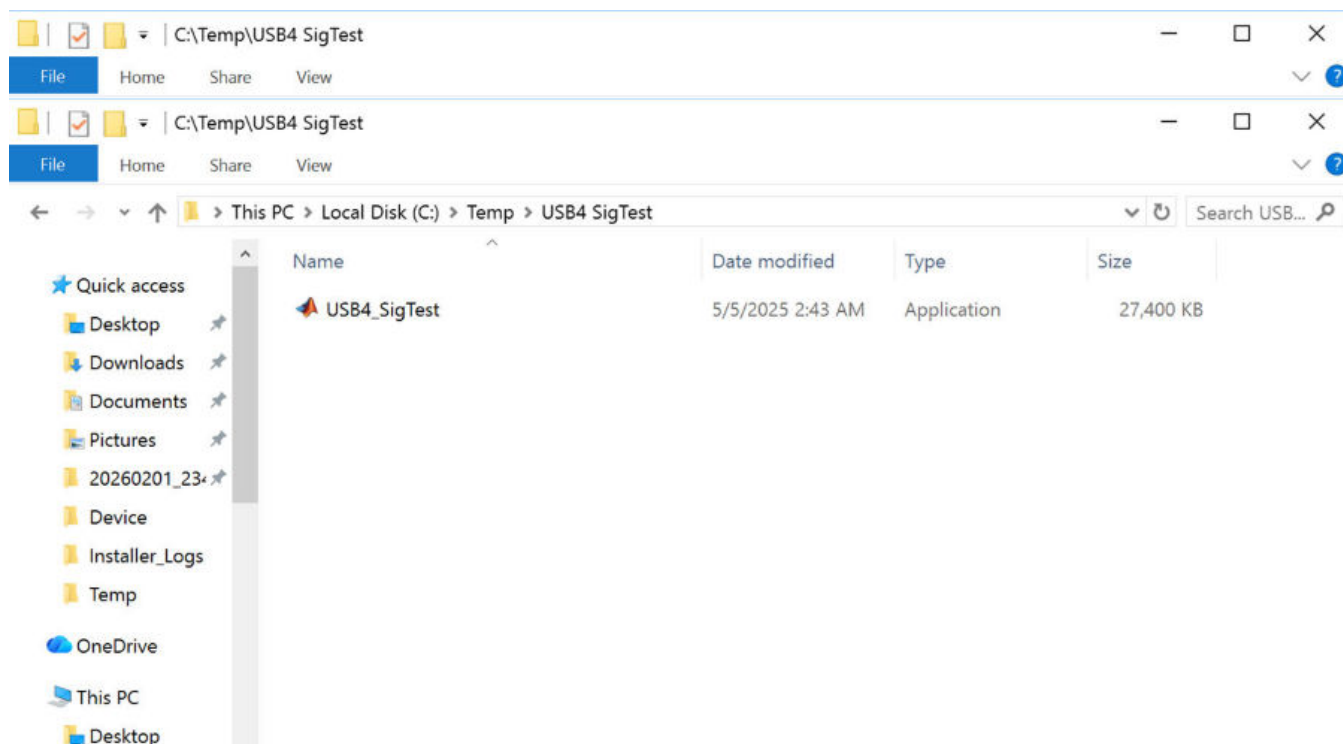
Prerequisites

These are the pre-requisites required for installing TekRxTest application.

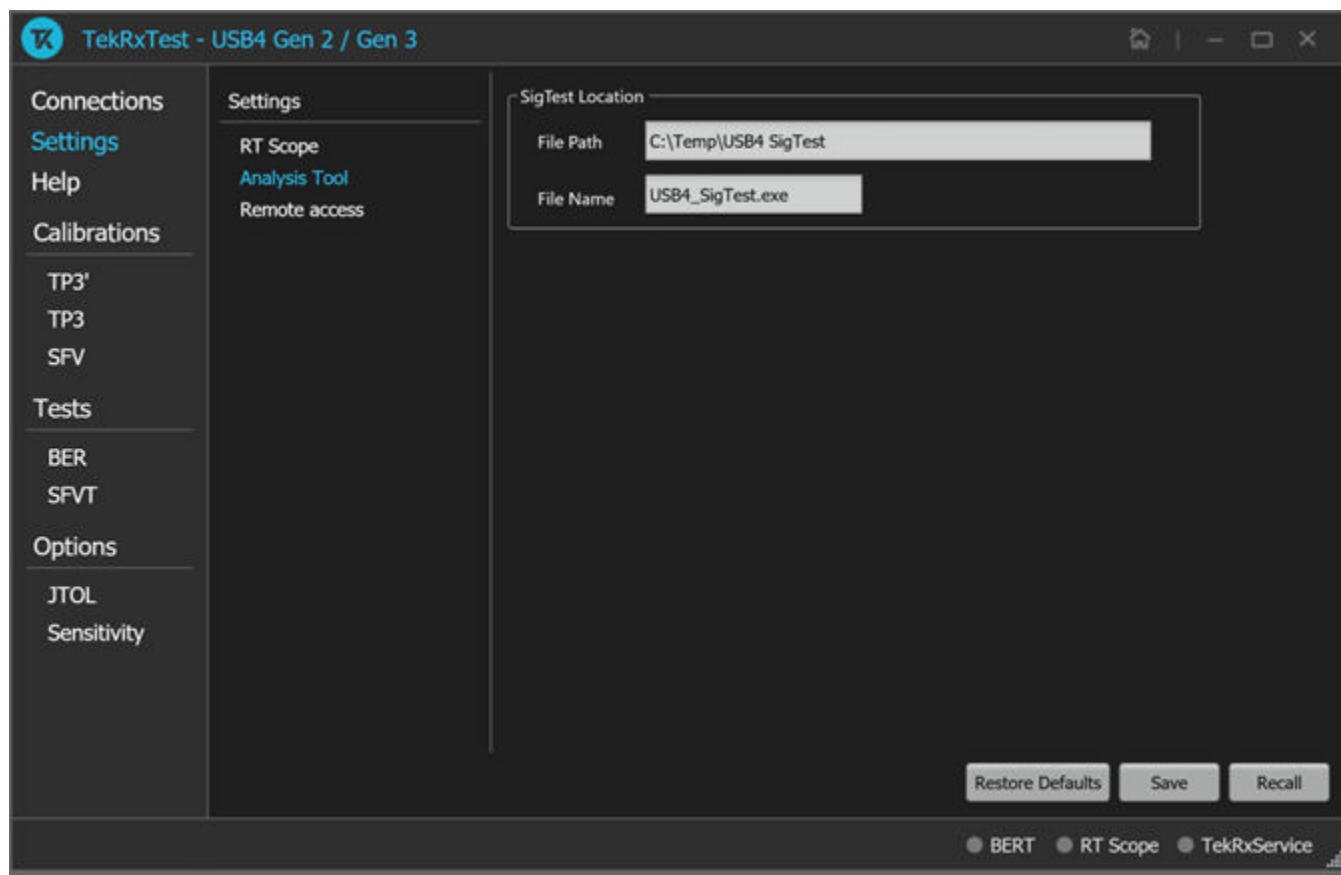
1. USB4

1. SigTest Version

- The application supports **SigTest v0.87** only for USB4 Gen 2/3 (Legacy and Rounded) calibration.
- Download the SigTest v0.87 executable or contact Tektronix Account Manager for assistance.
- Place the SigTest v0.87 executable in a folder as shown in the below image.



- Before running USB4v1 calibration, the path to the SigTest executable must be configured in **Settings** > **Analysis Tool** section of USB4v1 Settings.



SigTest configuration for USB4v1 calibration

2. MATLAB Runtime Dependency

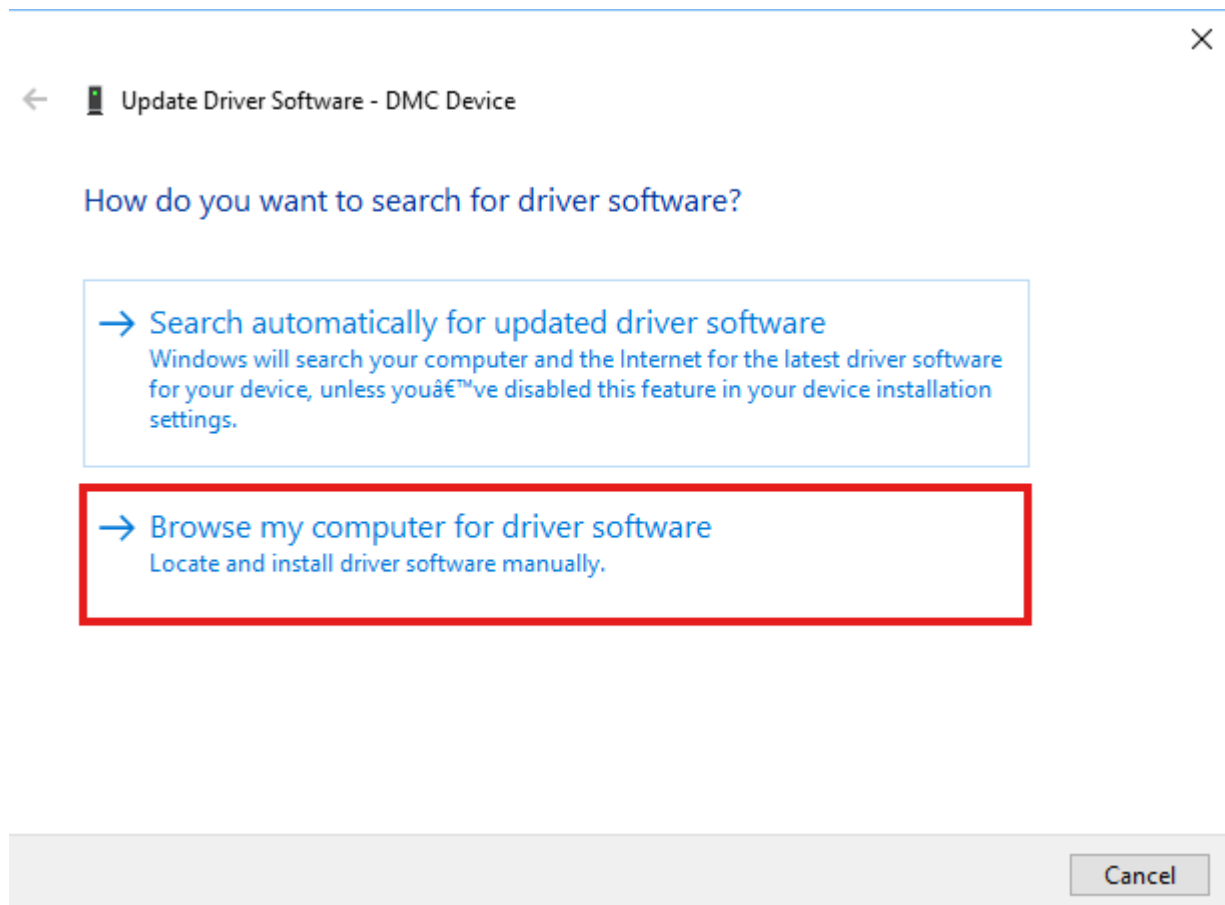
- SigTest v0.87 requires MATLAB Runtime Compiler R2021b (9.11). This must be installed on oscilloscope along with SigTest.
- Install MATLAB Runtime Compiler **R2021b (9.11)**
- **Download Link:** [Link](#)

3. ETT Version Support

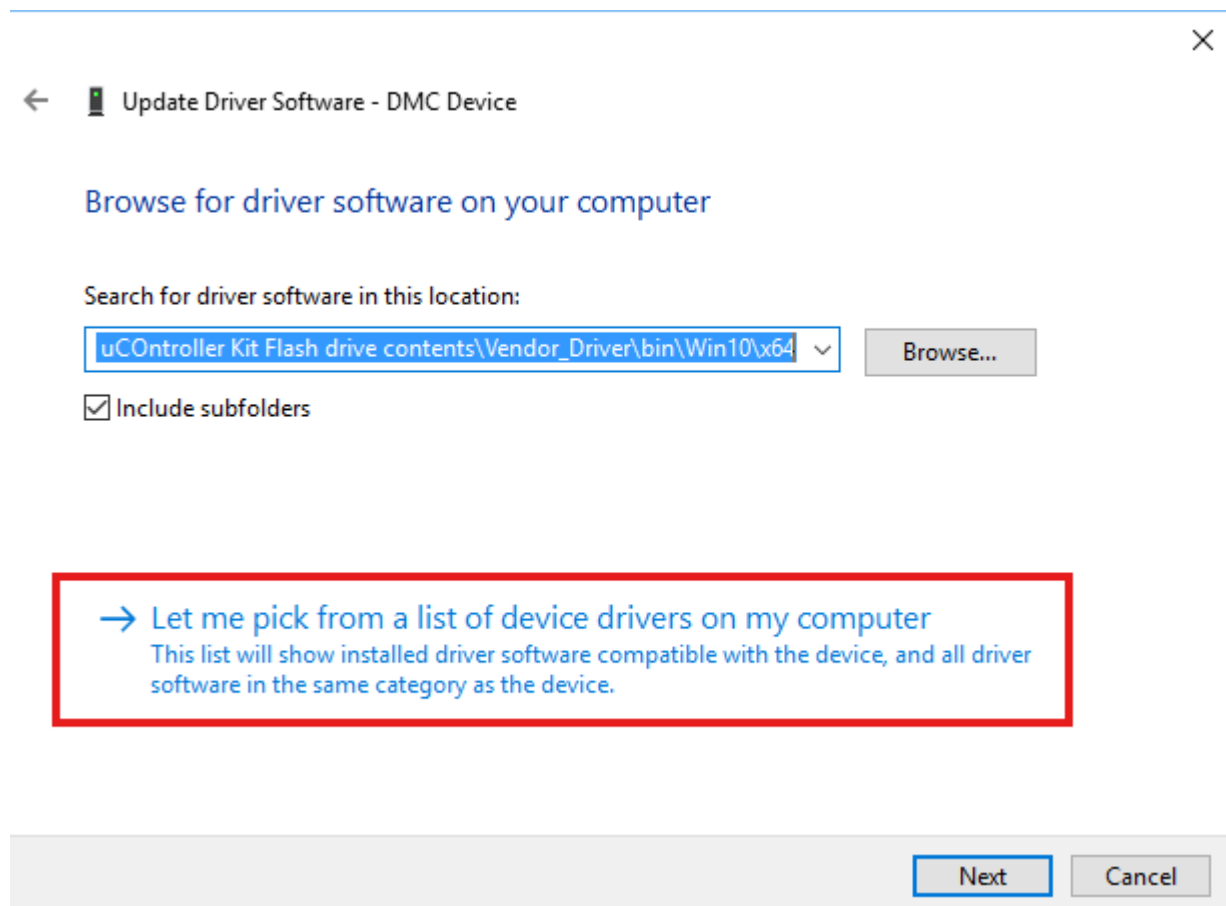
- The application only supports **ETT Version 1.1.2 and above** for USB4 Gen 2/3 (Legacy and Rounded) tests.
- ETT should be installed on the oscilloscope which will be used for running receiver tests.
- **Download Link:** [Link](#)

Installing DMC Drivers for USB4v1 Wilder Microcontroller:

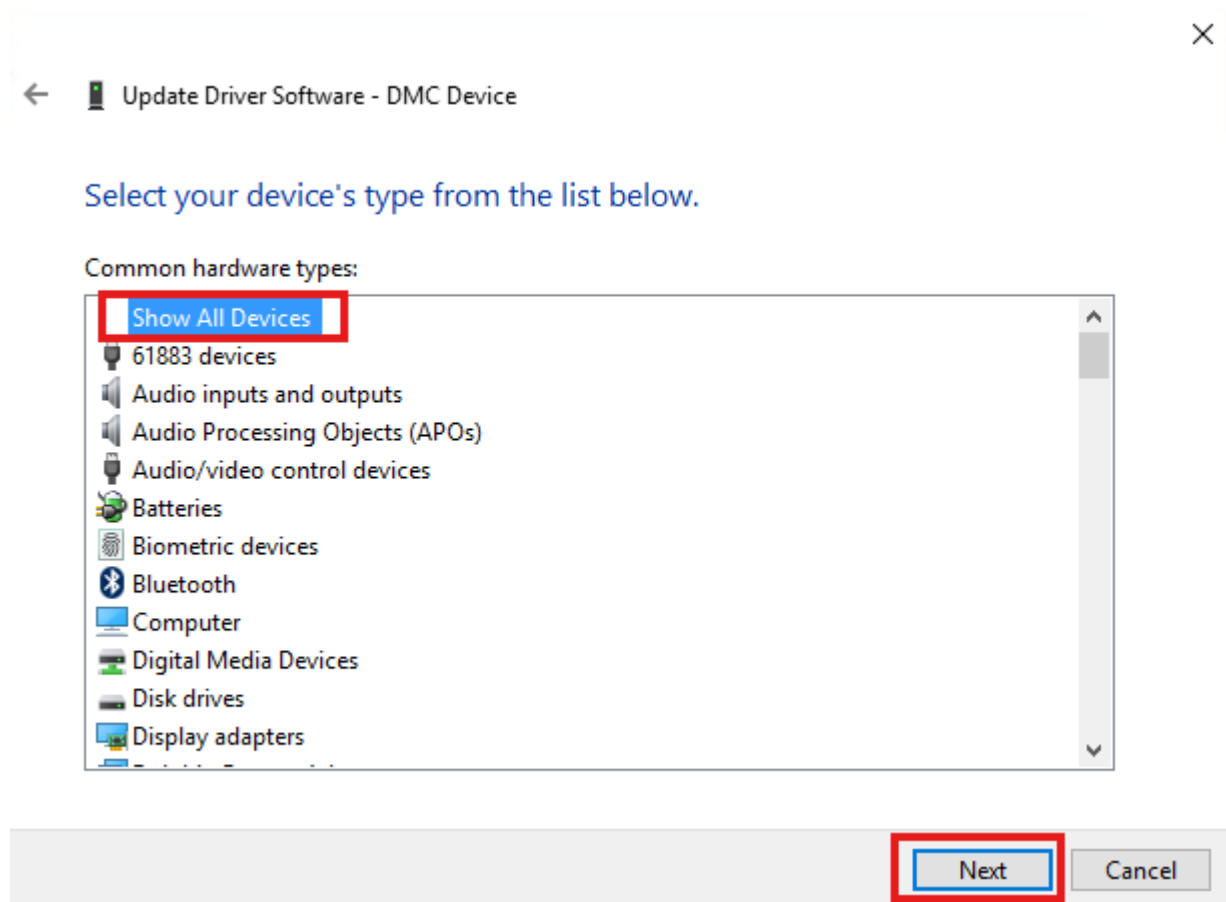
1. DMC drivers must be installed on the oscilloscope to support USB4v1 Wilder Microcontroller.
2. Download the DMC drivers or contact Tektronix account manager for assistance. Place the DMC drivers in a folder (for example: C:\USB4ETT)
3. The steps are as follows:
 - a. Connect the USB4v1 wilder microcontroller to 20 V power supply
 - b. Connect the Type A to Type B cable from scope to microcontroller
 - c. Navigate to the **Device Manager** on scope
 - d. Expand the **Other Devices** and right click on **DMC Device**
 - e. Select **Update Drivers**
 - f. Select **Browse my computer for driver software** as per the below image.



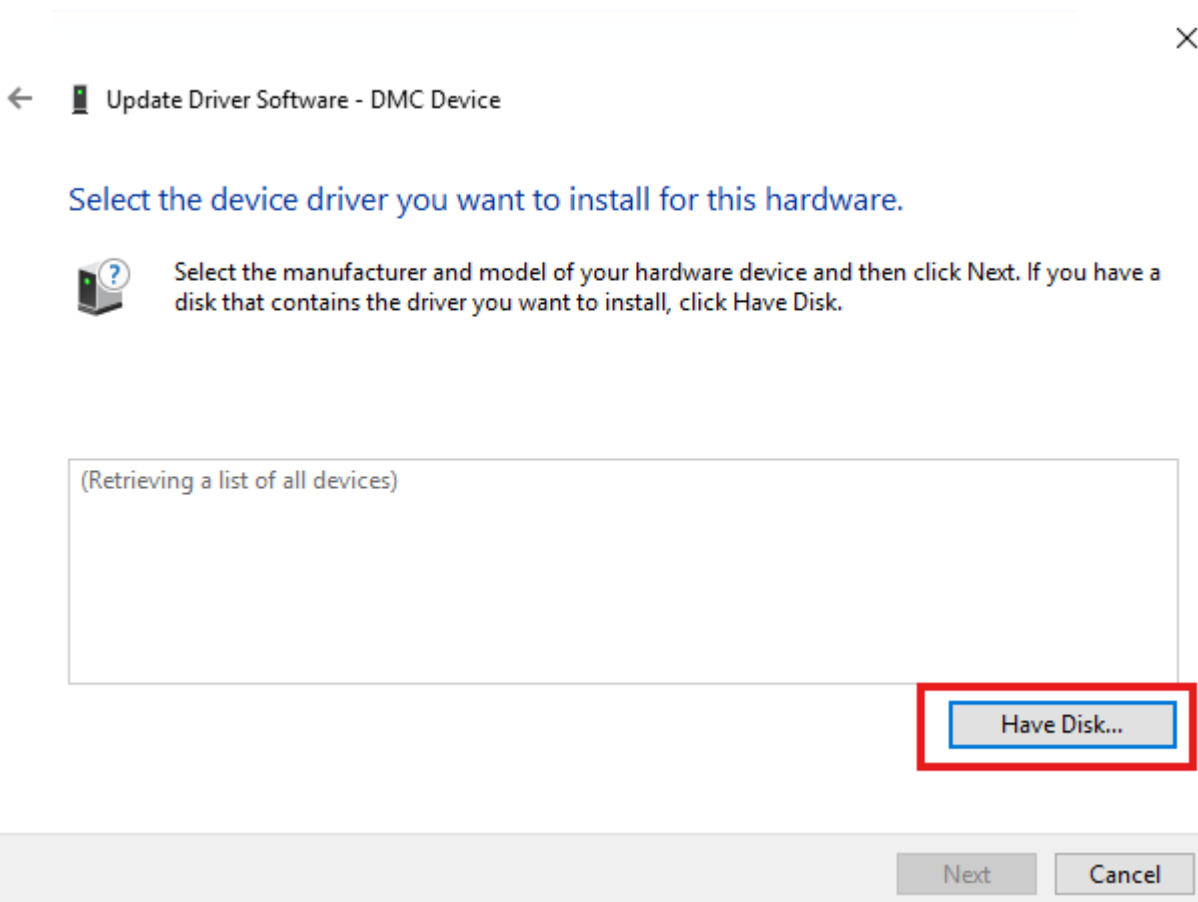
- g. Select **Let me pick from a list of available drivers on my computer** and click on **Next**.



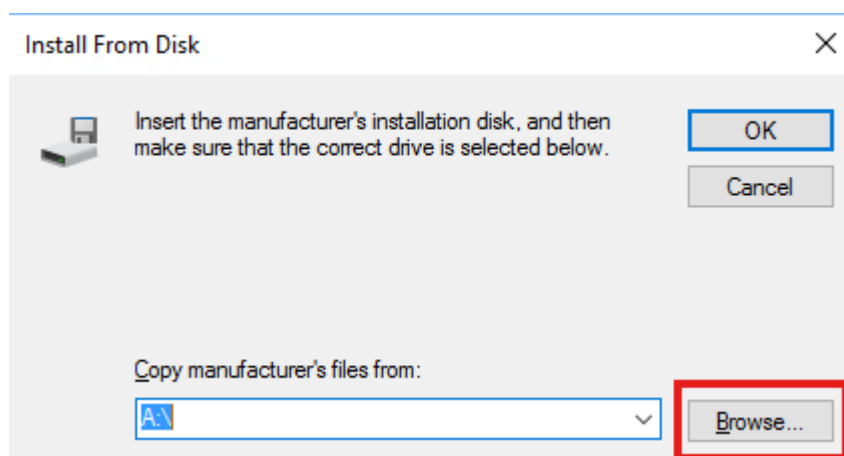
h. Select **Show All Devices** and click on **Next**.



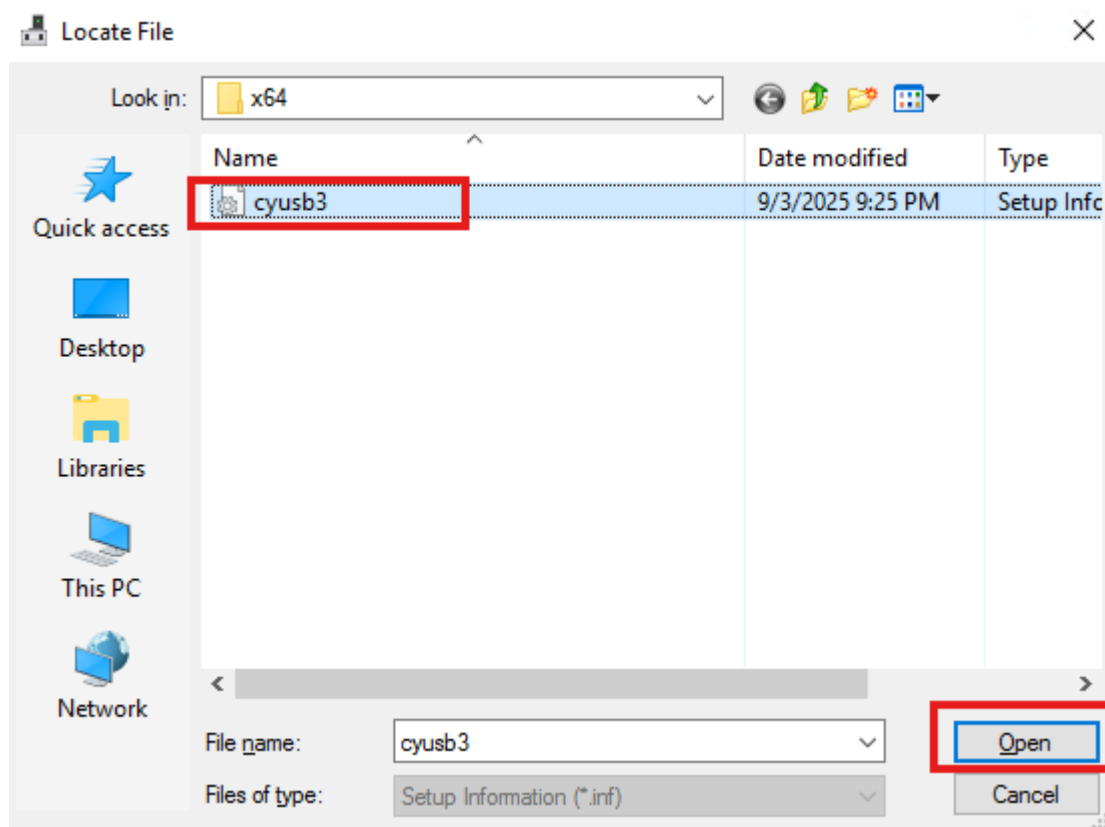
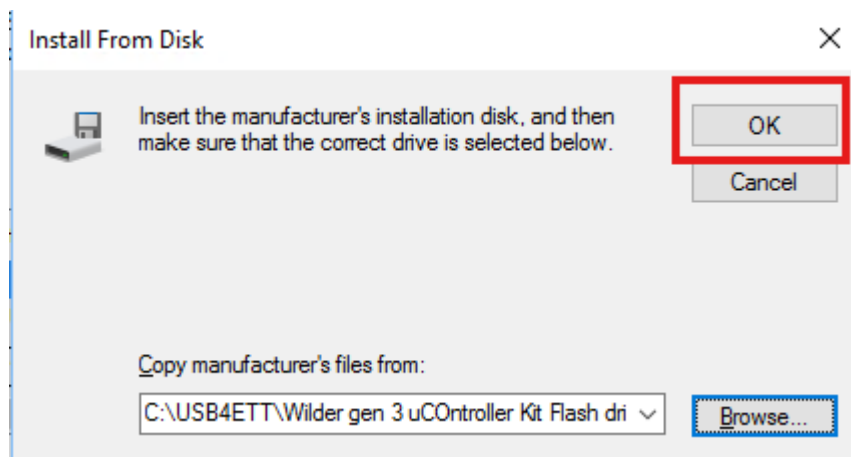
- i. Select **Have Disk...**



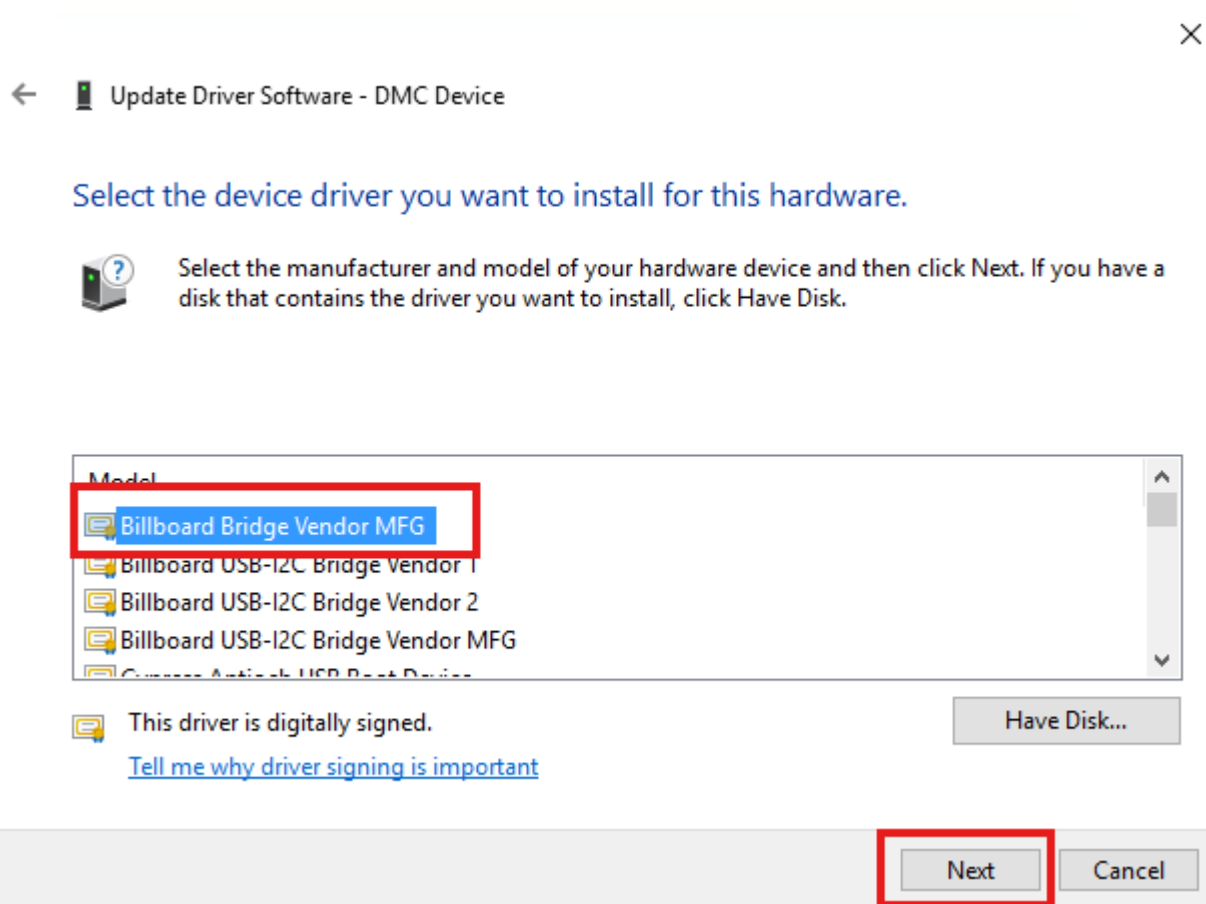
- j. Click on **Browse** button in **Install From Disk** window.



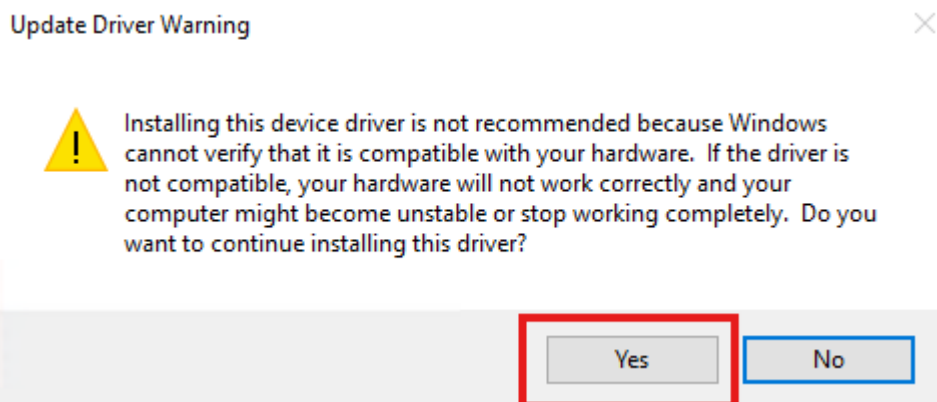
- k. Navigate to `C:\USB4ETT\Wilder gen 3 uController Kit Flash drive contents\Vendor_Driver\bin\Win10\x64` and select "**cyusb3.inf**" file.



- I. Select **Billboard Bridge Vendor MFG** from the list and click on **Next**.

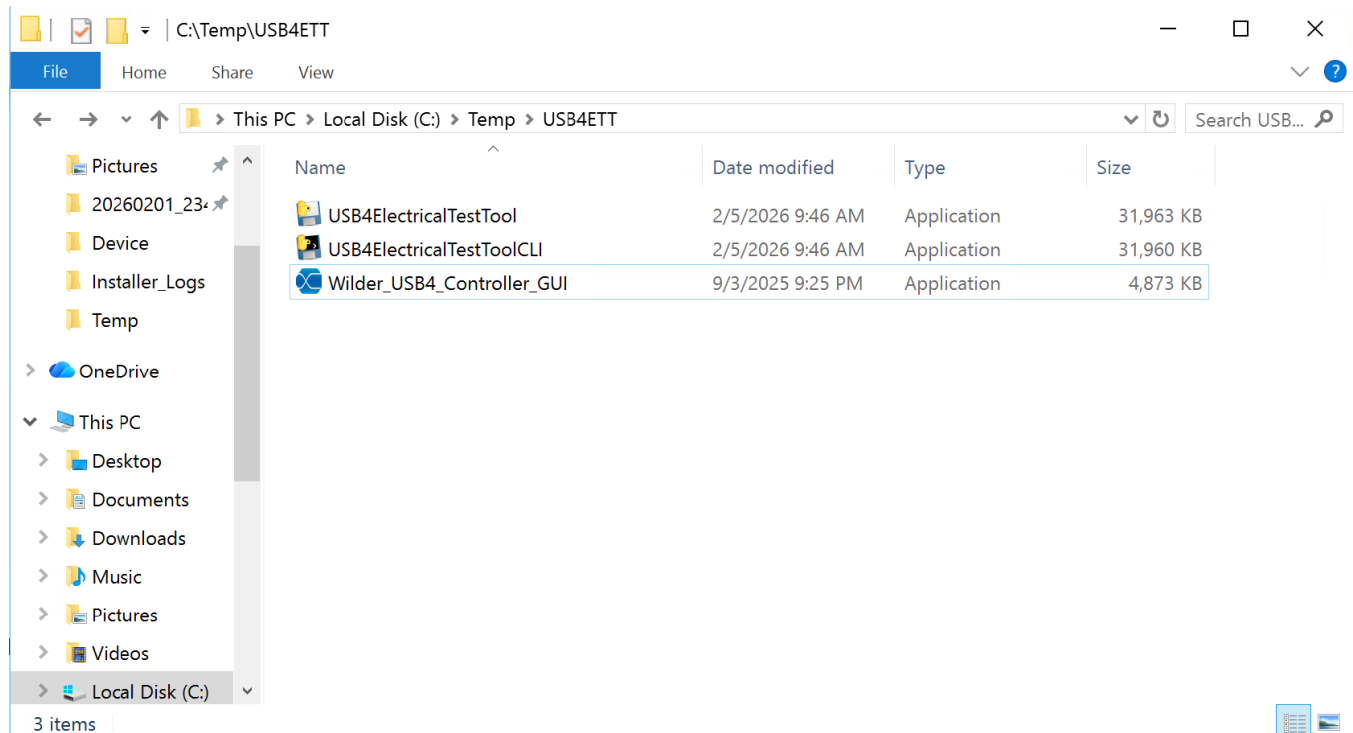


m. Click **Yes** on the warning pop-up.

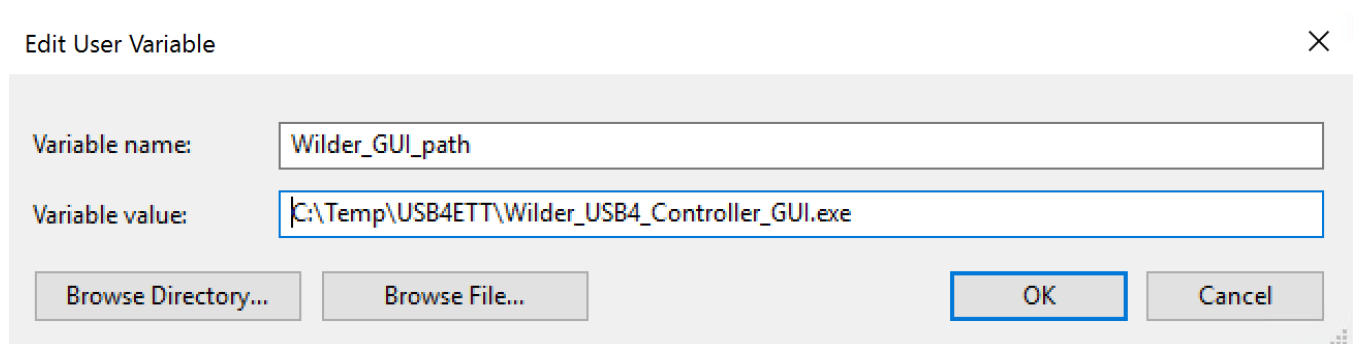


Steps of installing and configuring ETT v1.1.2:

1. Download ETT v1.1.2 from USB-IF or contact Tektronix account manager for assistance.
2. Create **USB4ETT** folder in C drive (for example: C:\USB4ETT\)
3. Copy the following executables in the folder above:
 - USB4ElectricalTestTool.exe
 - USB4ElectricalTestToolCLI.exe
 - Wilder_USB4_Controller_GUI.exe



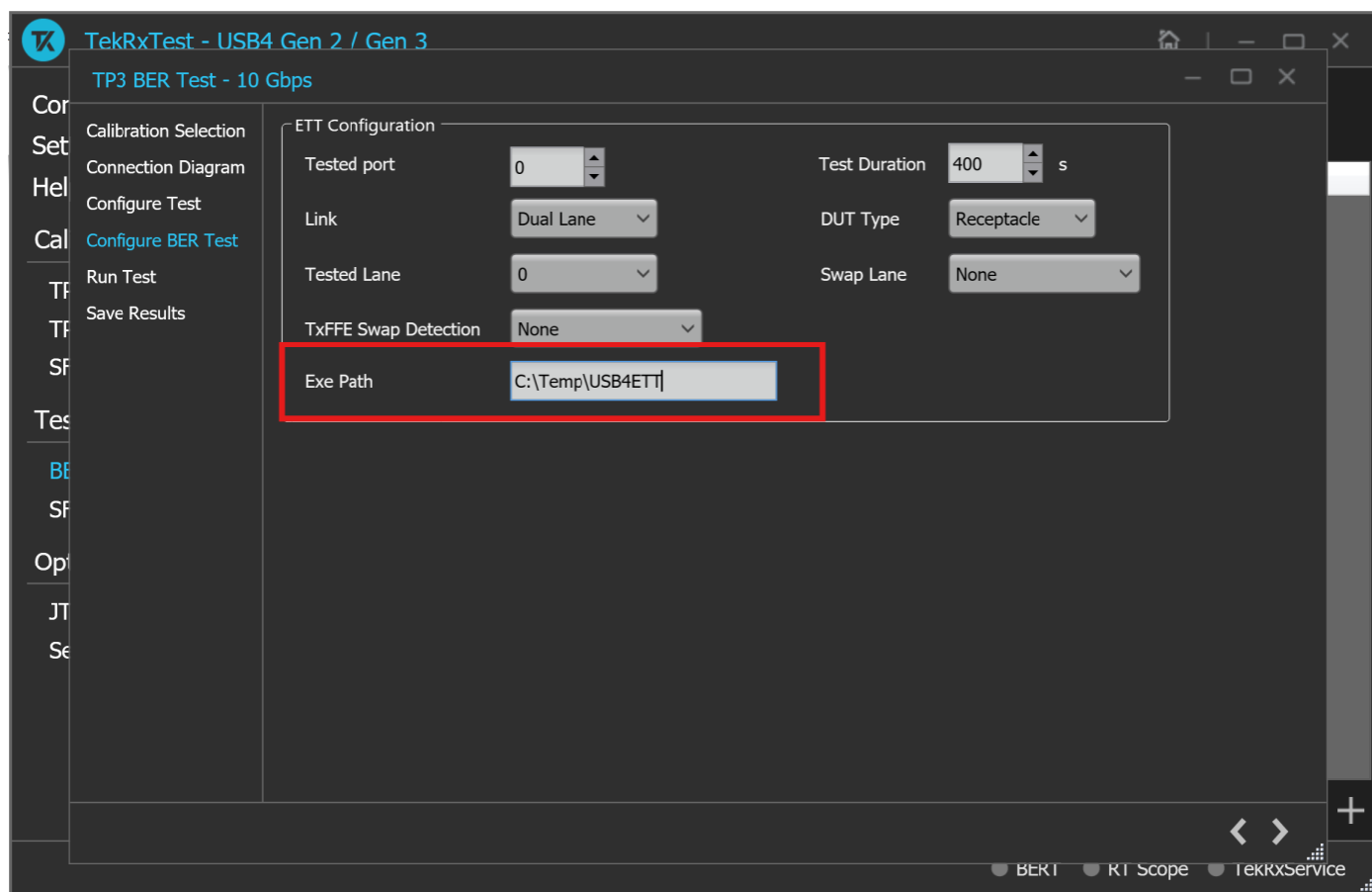
4. Go to **Environment Variables** page in Windows OS.
5. Create a new variable in **User variables** section as follows:
 - Variable name: Wilder_GUI_path
 - Variable value: Set the full path including the file name of Wilder_USB4_Controller_GUI.exe



6. Click on **OK** and apply the changes in Environment Variables page.

Configuring ETT path in TekRxTest:

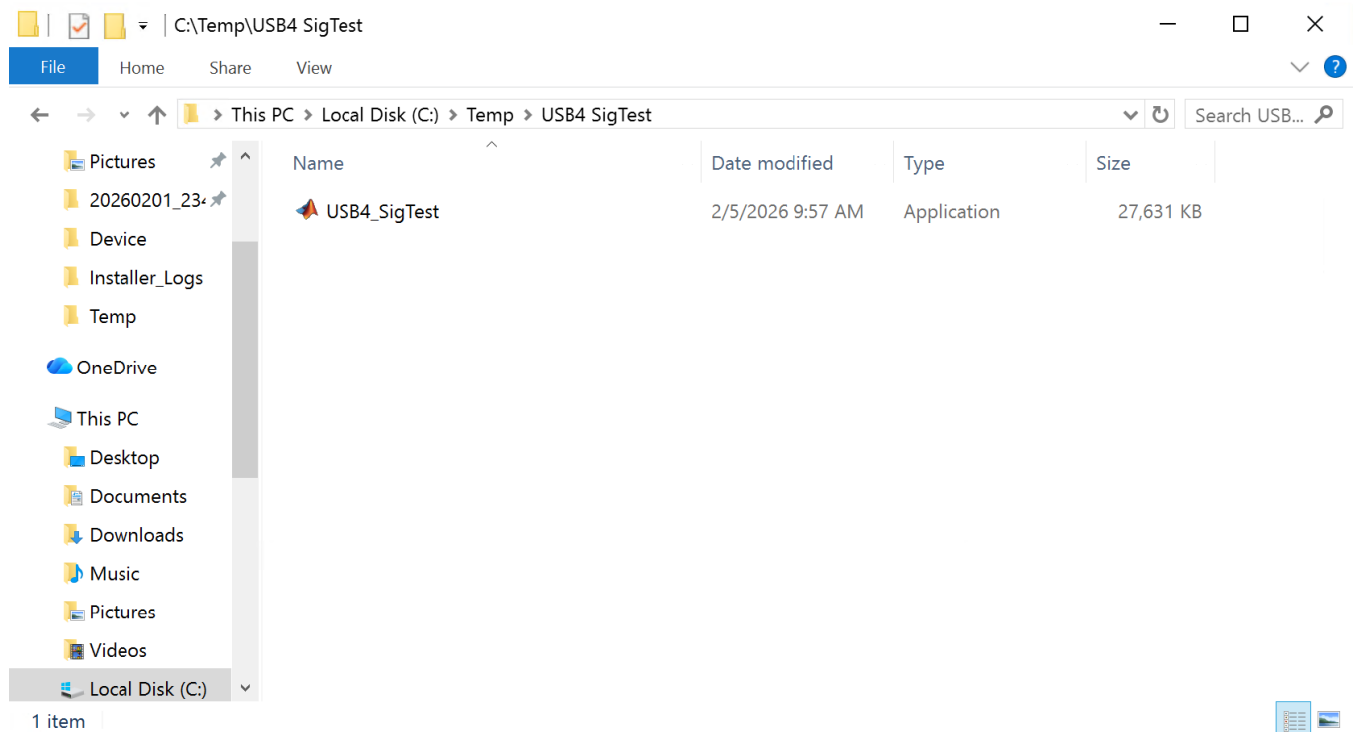
While performing USB4v1 receiver testing using TekRxTest, configure the folder path as shown below:



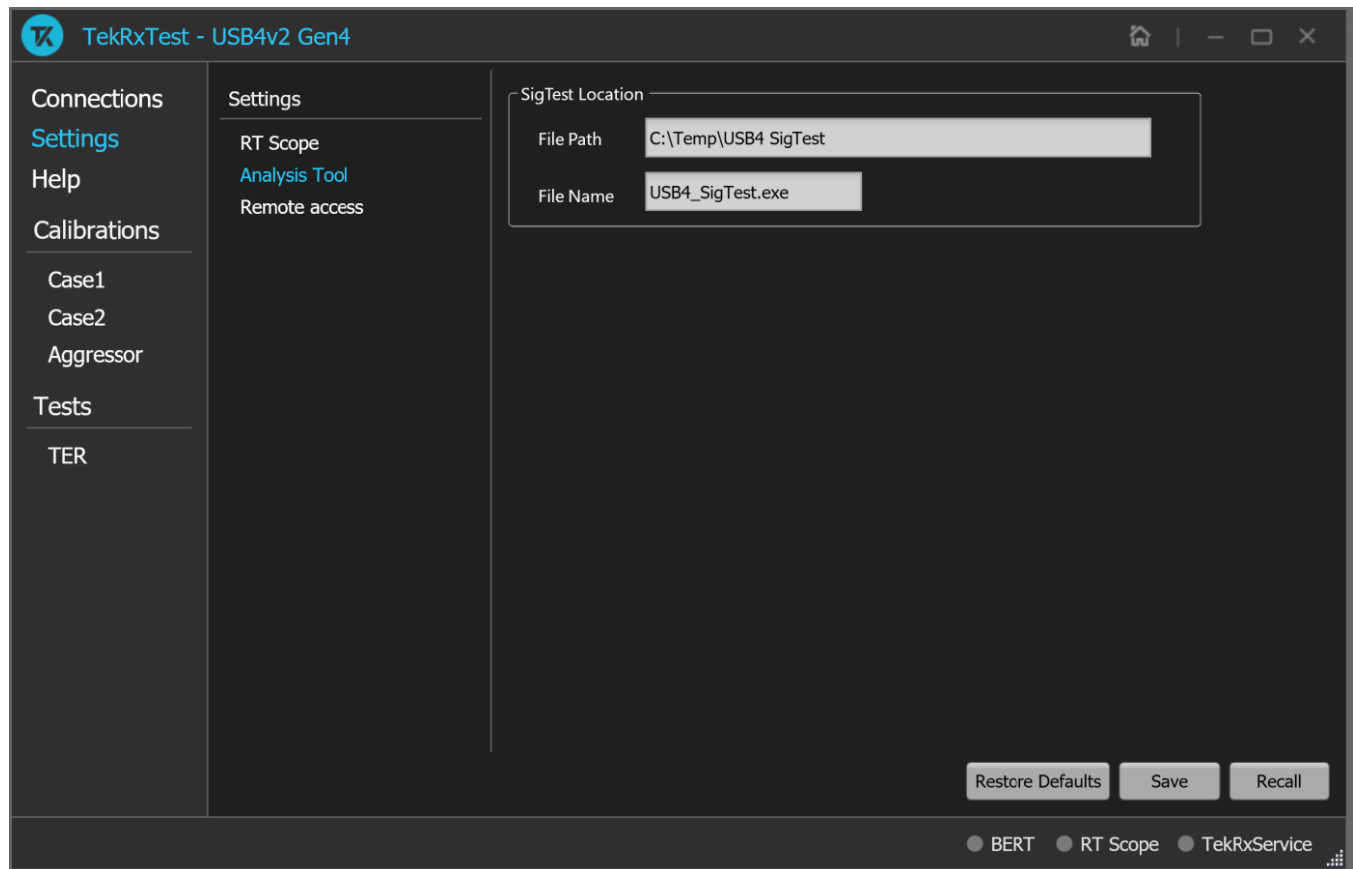
2. USB4v2

1. SigTest Version

- The application supports **SigTest v0.99** only for USB4v2 Calibration.
- **Download Link:** [Link](#)
- Download the **SigTest v0.99** executable or contact Tektronix Account Manager for assistance.



- Before running USB4v2 calibration, the path to SigTest v0.99 executable must be configured in Analysis Tool section of USB4v2 Settings.



SigTest configuration for USB4v2 calibration

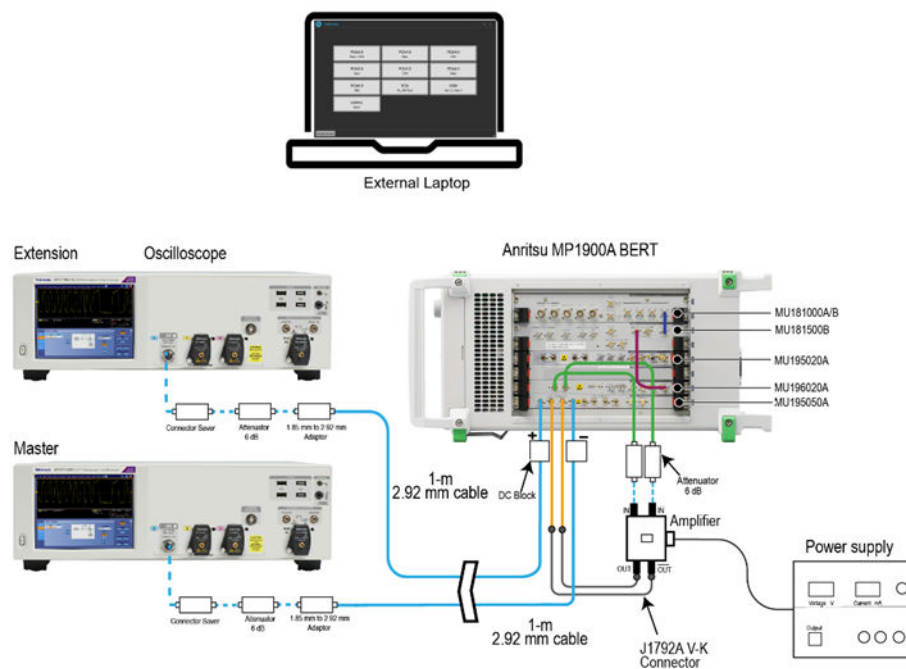
2. MATLAB Runtime Dependency

- SigTest v0.99 requires **MATLAB Runtime Compiler R2024b (24.2)**.
- MCR and SigTest v0.99 must be installed on an external computer that adheres to minimum Windows OS requirement.
- Install MATLAB Runtime Compiler **R2024b (24.2)**
- **Download Link:** [Link](#)

NOTE: MATLAB Runtime R2024b (24.2) requires Windows 10 (version 22H2 or above). It is recommended to use an external computer running Windows 10 (version 22H2 or above) to install both MATLAB Runtime and SigTest v0.99.

3. Installation on External Computer

- Install MATLAB Runtime, **SigTest v0.99**, TekRxTest and TekRxService application on an external computer with Windows version 22H2 or higher. In case of USB4v2, the TekRxTest application must be run on external computer only, and not on oscilloscope.



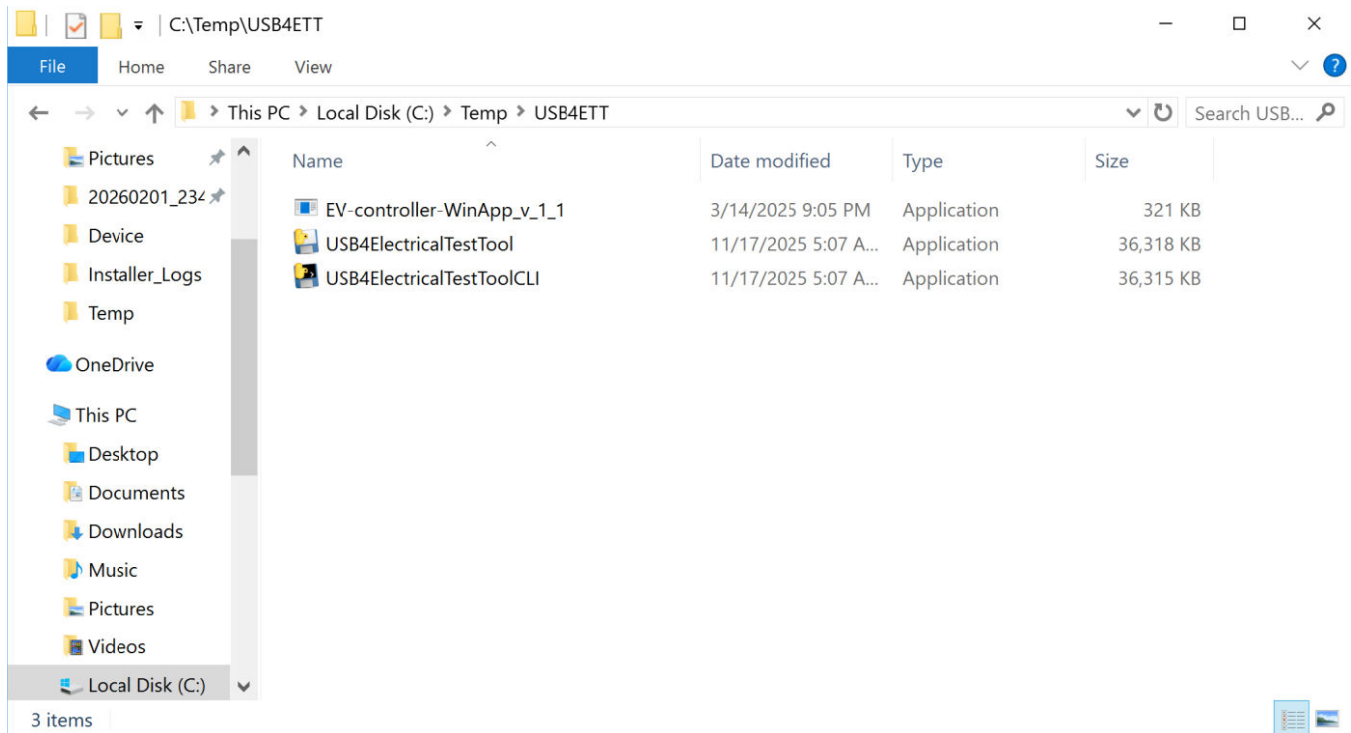
4. ETT Version Support

- The application only supports **ETT Version 2.0.0 and above** for USB4v2 tests.
- Contact Tektronix Account Manager for assistance to get the required ETT version.

NOTE: Additional DMC driver installation is not required for Wilder USB4v2 microcontroller.

Steps of installing and configuring ETT v2.0.0:

- Create a folder in C drive (for example: C:\USB4ETT)
- Copy the following executables in the folder
 - USB4ElectricalTestTool.exe
 - USB4ElectricalTestToolCLI.exe
 - EV-controller-WinApp_v_1_1.exe



- c. Go to Environment Variables page in Windows OS.
- d. Create a two new variable in User variables section as follows:
 - Variable name: Gen4_GUI_path
 - Variable value: Set the full path including the file name of EV-controller-WinApp_v_1_1.exe.

Edit User Variable



Variable name:	Gen4_GUI_path
Variable value:	C:\Temp\USB4ETT\EV-controller-WinApp_v_1_1.exe
Browse Directory...	Browse File...
OK	Cancel

- e. Variable name: ControllerSelect_Wilder_Gen4
- f. Variable value: Gen4

Edit User Variable

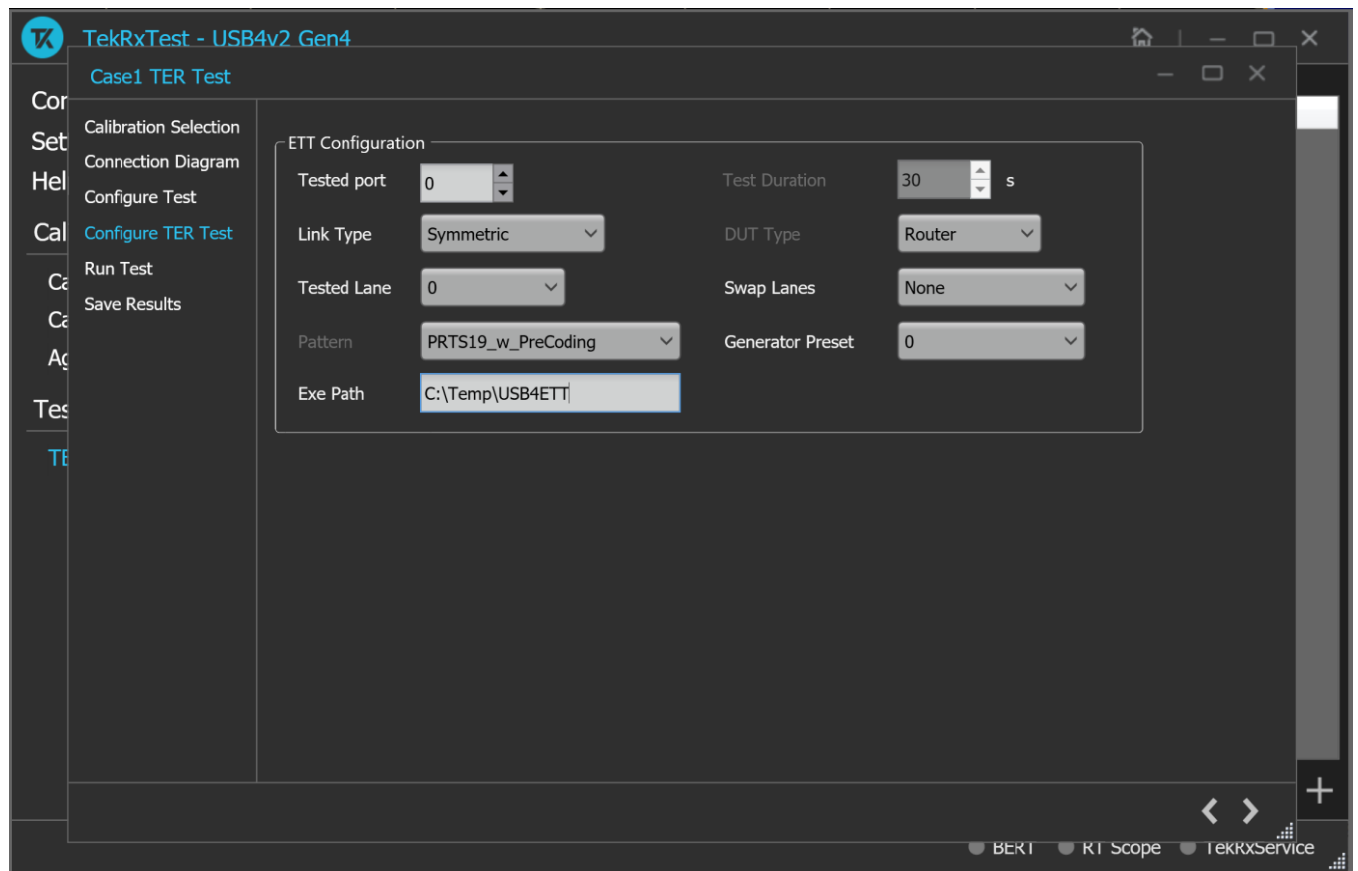


Variable name:	ControllerSelect_Wilder_Gen4
Variable value:	Gen4
Browse Directory...	Browse File...
OK	Cancel

- g. Click on OK and apply the changes in Environment Variables page.

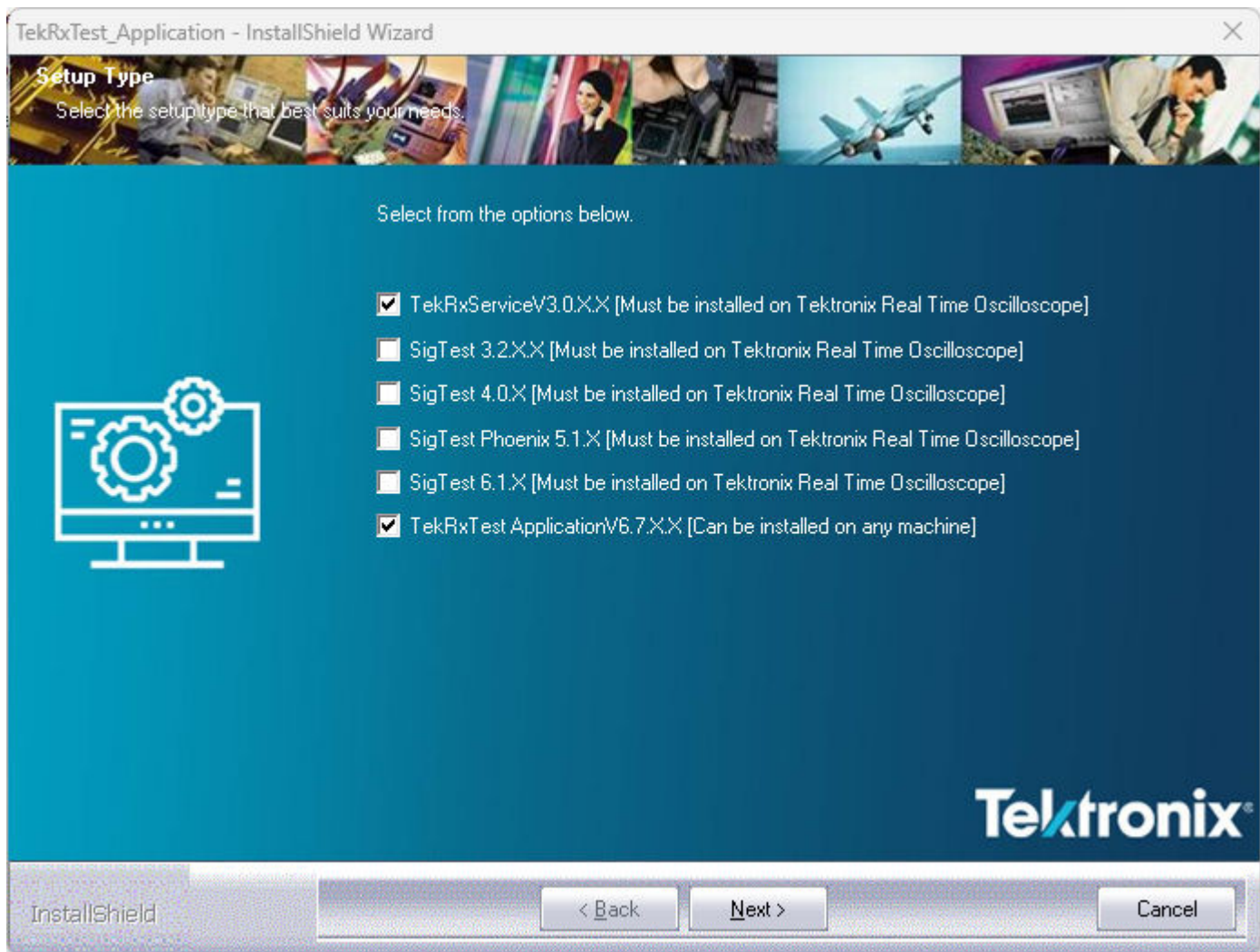
Configuring ETT path in TekRxTest:

While performing USB4v2 receiver testing using TekRxTest, configure the folder path as shown below:



Install TekRxTest Application

During installation of the TekRxTest Application installer (V6.7.x.x or above), you will be prompted to choose from the following configuration options:



- TekRxService 3.0.0.xx (To communicate between TekRxTest and Sigtest/Seasim)
- TekRxTest 6.7.x.x (Rx Application)

NOTE: Please use an external computer with Windows 10 (version 22H2 or above) for running the TekRxTest application. This is required for running USB4v2 SigTest.

TekRxTest_Application installation instructions in this case are as follows:

Install the following application on external computer:

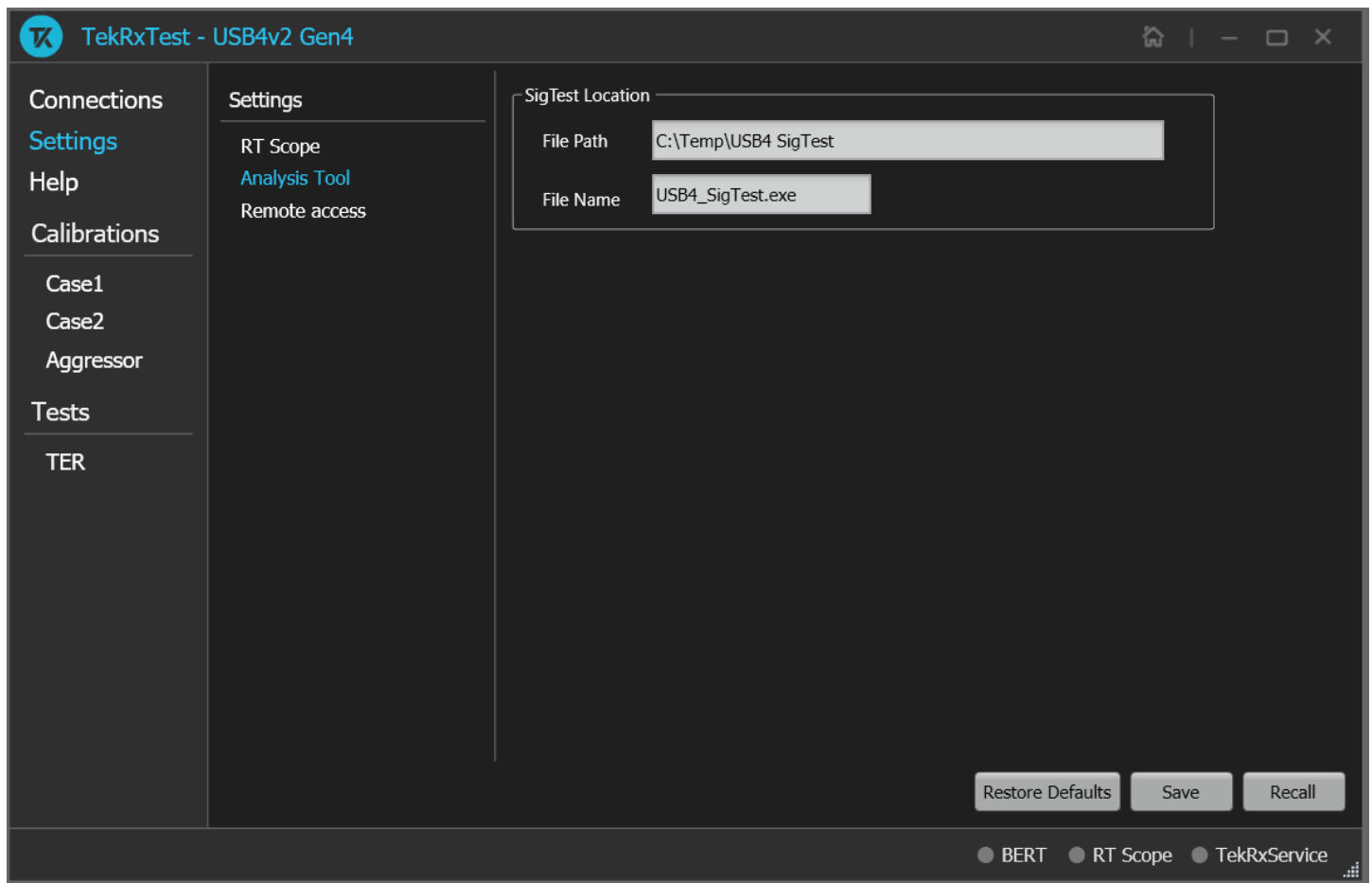
- TekRxService 3.0.0.xx (To communicate between TekRxTest and Sigtest)
- TekRxTest 6.7.x.x (Rx Application)

Install the following application on Real Time Oscilloscope:

- TekRxService 3.0.0.xx (To communicate between TekRxTest and Sigtest)

Configuring SigTest in TekRxTest application

After installing the TekRxTest application, configure the SigTest executable path in the **Analysis Tool** section under the **Settings** tab for the USB4 Gen2/Gen3 or USB4v2 plugin.



NOTE: Refer to the [Anritsu MP1900a firmware and software compatibility](#) (on page 4) section for supported Anritsu models, and the [Oscilloscope](#) (on page 4) section for supported Tektronix oscilloscopes.