# QT Display Test Cases:

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| **ID** | **Scenario** | **Setup Required** | **Condition** | **Action** |
| QT-01 | Qwt Thermo is launching and displaying the constant value. | Install Qt and Qwt packages. System is compiling and running normally |  |  |
| QT-02 | Qwt curve plot is displaying using a Timer program and plotting the curve. | Install Qt and Qwt packages. System is compiling and running normally |  |  |
| QT-03 | Qwt Table is appearing in correct layout with Qwt Thermo and Qwt plot curve. | Install Qt and Qwt packages. System is compiling and running normally |  |  |
| QT-04 | Qwt Table is displaying Date Time and temperature Value properly without cutting-off | Install Qt and Qwt packages. System is compiling and running normally |  |  |
| QT-05 | Thermo widget displays the correct temperature value. | System is reading the temperature value and dynamically passing the value to Qwt Thermo |  |  |
| QT-06 | Thermo widget scales dynamically when new data is received. | System is reading the temperature value and dynamically passing the value to Qwt Thermo |  |  |
| QT-07 | Thermo color changes based on threshold:   * Below low threshold → blue. * Between low and high → green. * Above high threshold → red. | System running normally. Use hot and cold pack to simulate temperature above and below normal temperature range. |  |  |
| QT-08 | Qwt Plot curve dynamically plot the correct temperature value. | System running normally |  |  |
| QT-09 | Qwt Table display the Date Time of the reading with correct Temperature value | System running normally |  |  |

# **Test Results:**

**QT-01:** Qwt Thermo is launching and displaying the constant value.

**QT-02:** Qwt curve plot is displaying using a Timer program and plotting the curve.

**QT-03:** Qwt Table is appearing in correct layout with Qwt Thermo and Qwt plot curve.

**Qt-04:** Qwt Table is displaying Date Time and temperature Value properly without cutting-off.

**QT-05:** Thermo widget displays the correct temperature value.

Key outcome:

Test result:

**QT-06:** Thermo widget scales dynamically when new data is received.

Key outcomes:

Test result:

**QT-07:** Thermo color changes based on threshold.

Key outcomes:

Test result:

**QT-08:** Qwt Plot curve dynamically plot the correct temperature value.

Key outcomes:

Test result:

**QT-09:** Qwt Table display the Date Time of the reading with correct Temperature value Key outcomes:

Test result: