Performing a Dark Current Test of an 8452A/53A Spectrophotometer Using the UV-VIS ChemStation Software Rev.A.05.XX-A.08.XX

The dark current test measures the signal from each diode in the diode-array when no light is falling on the array. The signal represents the “leakage” from each diode. The dark current is automatically subtracted from any measurement to correct for the leakage.

Note: User MUST be in Manager Level to access Verification and Diagnostic tests

To measure dark current:

1) If not already displayed, pull down the Mode menu and select Verification and Diagnostics
2) Select Diagnostics from the Task: graphical window
3) Under the Sampling graphical window, three selections will appear:
   a) Dark Current
   b) Intensity
   c) Stability
4) <Click> on the Dark Current button
The dark current test can also be accessed by pulling down the **Task** menu and selecting **Diagnostics** and **Dark Current test**.

The Dark Current Test Results table is displayed when you run a dark current test. It contains the Date and Time of the dark current test and the test results:

**Agilent 8452A**

The three measured parameters of the test, Dark Current Range, Average Dark Current and Dark Current Disparity, are displayed with their Specifications and test Results.

**Agilent 8453**

The Maximum Dark Current Range and Minimum Dark Current are displayed with their Specifications and test Results.

Choose Close from the table’s Control menu, or double-click on the Control menu box to close the Dark Current Test Results table.