

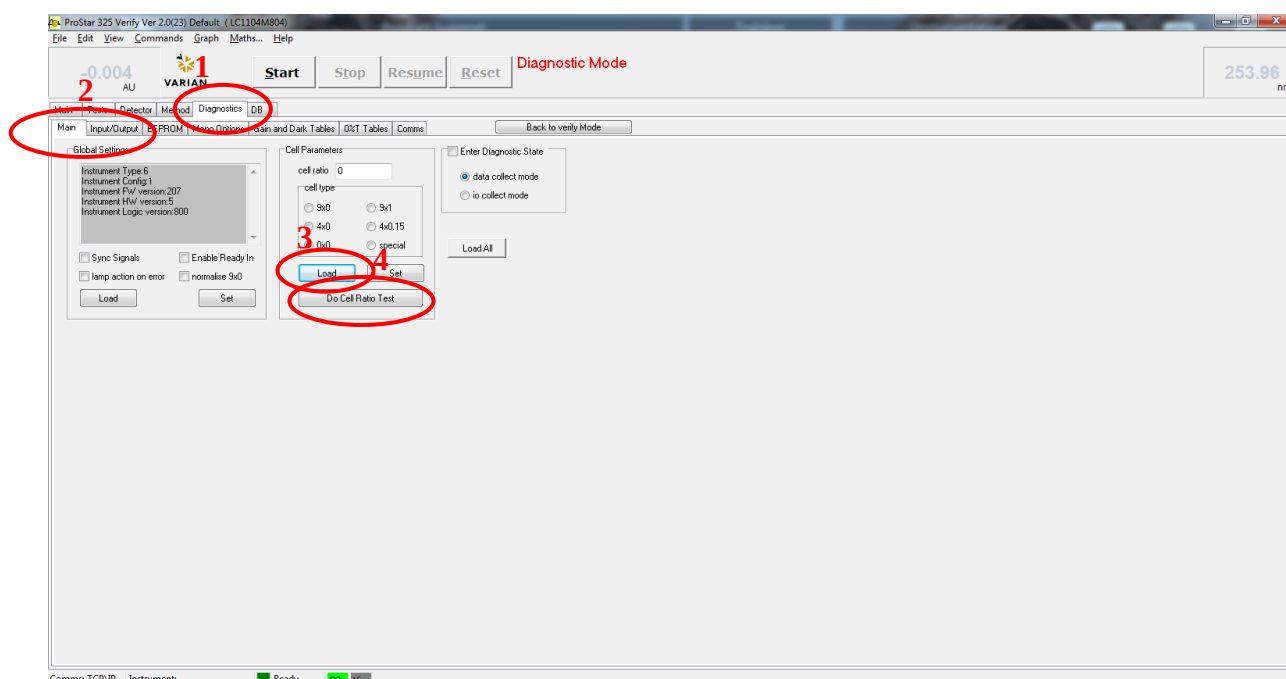
SERVICE How To

Model Number: PS 325 UV-Vis	Originator: Petro van Poppel	Topic Flow Cell tests
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Determining the Cell Length Ratio

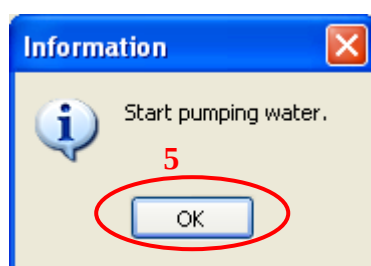
The Cell Length Ratio Test is used to determine the ProStar 325 dual path cell ratio. The user is prompted to pump water and acetone through the system. The cell length ratio is then calculated and reported. **Documentation provided with the flow cell from the factory will have the calculated flow cell ratio for the enclosed flow cell.** Run this test in case the flow cell documentation is lost.

1. Open up LCVerify, Open the diagnostics side of LCVerify by selecting the Ctrl-Shift-F10 button combination on your keyboard. Connect to the required detector, turn on the UV-lamp and navigate to the Diagnostics Tab (1). Then select the Main Sub Tab (2). Your screen should look like the one shown below.

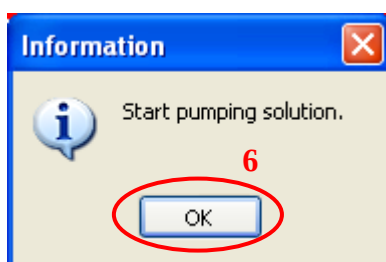


2. In the Cell Parameter section of the screen, Click “Load” (3) to determine what the cell parameters that are currently set in the firmware.

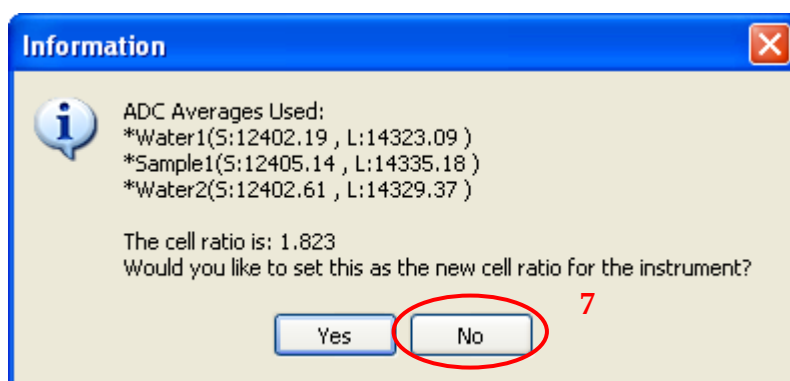
3. To determine the correct ratio value for a cell, make sure you select the correct “Cell Type” and click “Do Cell Ratio Test” (4). Make sure you have a pump set up to pump water through the flow cell and an additional bottle ready with 0.5% acetone in water.
4. When you get prompted, start up the pump with an adequate flow rate of water (one reflecting the flow of the analysis to be run with this flow cell). Once the flow has stabilised, hit OK (5).



5. The detector will go through the analysis of the light throughput. Then, when you get prompted, set up the pump with the acetone solution (Sample) and start up the pump with the same flow rate that was used before. Once the flow has stabilised, hit OK (6).



6. Once step 4 (pumping water) is repeated, the ratio is calculated.



7. Ignore the option to set the new value (7), and instead, navigate back to the Cell Parameter section, enter the newly found value for the to be used flow cell and click “Set”.