Shimadzu RF-5301pc Spectrofluorophotometer

I. Purpose
To promote the effective use of the Shimadzu RF-5301pc Fluorophotometer along with establishing an instrumental method.

II. Scope
This SOP is intended for in-group use by trained and certified personnel in the Chemistry Department

III. Prerequisites
The experimenter must be trained in proper instrument techniques before using this SOP.

IV. Responsibilities
The responsibility for this instrument lies with Tom Allston
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V. Start-Up Procedure
1. To turn on the instrument, use the power switch located on the on the right side next to the power cord (allow 10-15 minutes for the bulb to warm up before use). In addition, there is a black switch located above the main power switch that controls the Xe arc lamp (this must be slid to the right to turn on).

2. Open the “LabSolutions RF” program on the computer desktop
   a. In the program pop-up window, under “Basic Analysis”, select the option for “Spectrum” to run a standard fluorescence experiment.
   b. In the middle of the window, just below the main toolbar, select the icon labeled “Connect” to connect the software to the instrument.
VI. Operation:

Note: It is recommended to obtain a UV-Vis absorption spectrum to obtain the $\lambda_{\text{max}}$ for your sample for use in the fluorescence experiments!

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