UV-VIS Spectrometer Instructions

General note

The Cary Win UV spectrometer is an instrument to measure the transmission/absorbance spectra of samples in the UV to visible range i.e. between 200-800nm. The instrument operates in double beam principle. There are two separate cuvet position. Put your reference in the inner cuvet position. The sample should be placed in the front cuvet. For multiple measurements with respect to same reference do not remove the reference. But, for samples with different reference medium, you have to change the reference each time. You can measure the spectra either in the transmission or absorbance mode.

Step by step Standard Operating Procedure (SOP)

1. Turn on the main power switch on the front panel of the Carry Win UV instrument.
2. Log on to the computer.
3. Start the "Scan" software located inside the Cary Win UV program.
4. Place your reference samples in both the cuvet.
5. Go to "setup" dialog on the scan software
6. In the "setup" you can choose your mode of measurement and scan range under the "carry" tab.
7. Select the "baseline correction" inside the baseline tab
8. Once the baseline is done, replace the reference with your sample in the front cuvet position.
9. Then click the "Start" tab.
10. It will promt you to specify the position where you want to save your data in the computer i.e. choose data file, point the path to your folder on the hard disk (required)
11. Data management:
    a. Store files under your directory on the hard disk
    b. The lab pc is not a backup system. You are responsible for copying your files ASAP and keeping backup copies elsewhere
    c. The lab PC is not a data analysis station. Plot and print data from your office computer
    d. Files are stored with the cary format. You can convert your data to ascii format for use in origin, excel, …
    e. copy your files and take them to your office computer

Shutdown procedure:

Close the scan software
Log off on the PC that runs Cary Win UV
Switch off Cary Win UV spectrometer