## 1260-1360 sweep manual

This manual is for the use of sweeping the spectrum in the vertical coupling setup inC1.07:

\*Picture of setup

This program uses the 1310nm tunable laser and mKs power meter with an IR detector, **these instruments are the only ones compatible with this program** and must be plugged in via usb and gpib. It may be possible to use it for the edge coupling setup too.

NB. Do not change anything under the '''AUTOMATION STARTS HERE: PLEASE DO NOT CHANGE WITHOUT APPROVAL''' line (unless you save and make your own file)

1. Set the parameters of your test from lines 28-40. Starting wavelength, ending wavelength, interval, power, and results path can be changed here.

Note: copy the path exactly in the brackets.

1. Use the power meter software PMManager to align your fibres using the xyz stages and camera.
2. Once aligned, press the run button. A window will pop up to name your file. Enter your name and press save. Then close the window.
3. The program will begin. There should be three columns in the command line which are the live results of wavelength, power (W) and power (dBm).
4. Once finished, the results should be in the path given as a CSV file.

Debugging tips:

Make sure the instruments are plugged in and seen by the computer. The addresses of the instruments should be: Tunable laser: GPIB0::22::INSTR, Power meter: 991112

Right click the command line and click quit – this clears all variables and plots from the line.

If there are any other problems – email: [owen.moynihan@tyndall.ie](mailto:owen.moynihan@tyndall.ie)