

Absorption measurement

Power on the Agilent Cary 60 instrument

Double click the **'Scan'** icon on the desktop

It will take several minutes to initialize the instrument (calibrating wavelength etc.), when the instrument is ready to use, light will turn green, and the **'Start'** icon will light up.

- To set up the scan parameters

Click the **'Setup'** tab on the left bar,

Set up the scanning wavelength range, Y range, and scan rate.

Then click **'OK'**.

- Running a sample:

'Zero' the baseline: load the blank sample (solvent) in the UV-vis chamber, then click **'Zero'** to zero the baseline.

Take the blank out then load your sample in.

Click **'Start'**, and name file and choose folder to save the file,

Then name sample and click **'OK'** to start measuring the absorption.

If measure multiple sample with same set up, take the previous sample out and load the new sample. Name the new sample, and click **'OK'** to start measuring.

When finish measuring, click **'Finish'**.

- Export file as Excel sheet:

Click 'File' → 'Save Data As' → Choose Files of type as '.CSV' and name file, then choose folder to save.

Turn off the instrument and close the software

Take the cuvette out, and power off the instrument.

Kinetic study

Power on the Agilent Cary 60 instrument,

Double click the '**Kinetic**' icon on the desktop,

It will take several minutes to initialize the instrument (calibrating wavelength etc.), when the instrument is ready to use, light will turn green, and the 'Start' icon will light up.

If switch method '**Scan**' to '**Kinetic**', need to close '**Scan**' then open '**Kinetic**'. Can't run these two methods at the same time.

- To set up the parameters:

Click the 'Setup' tab on the left bar,

Set up the analysis wavelength,

Set up the signal averaging time: default is 0.1000s, Y range then click '**OK**'.

- Running a sample:

Load the sample in and click '**Start**',

Name file and choose folder,

Name sample and click '**OK**',

Click '**OK**' to start measuring.

Click '**Pause**' if needs to open the chamber (e.g. add chemicals to the cuvette).

Close the chamber and click '**Continue**' to continue measuring

When finish kinetic study, click '**Stop**'

File save automatically

- Export data to Excel sheet

Click 'File' → 'Save Data As' → Choose Files of type as '.CSV' and name file, then choose folder to save.

Take the cuvette out, turn off the instrument and close the software