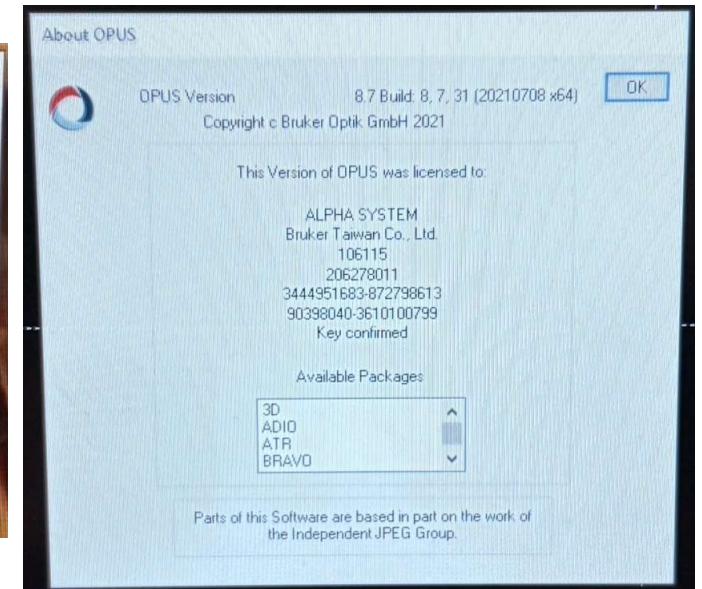
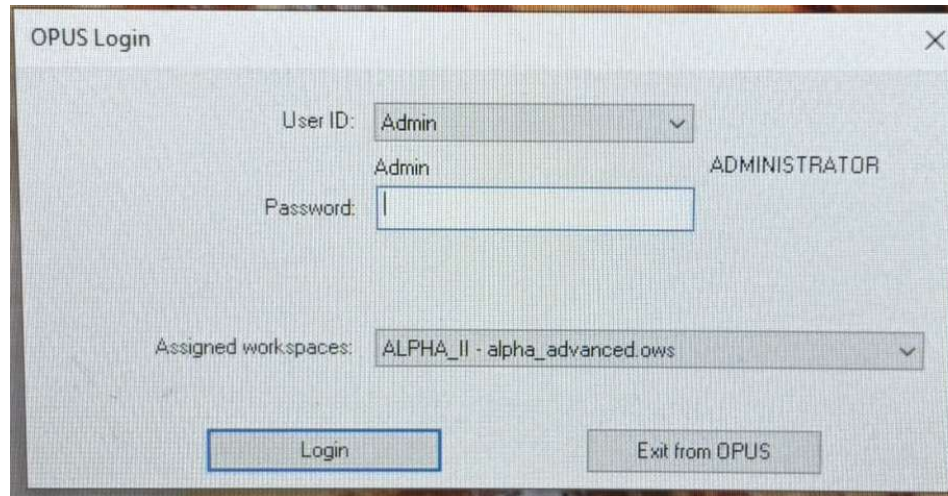


Bruker Alpha II FTIR

Starting FTIR Software



- PC password 輸入 1141.
- The program for the FTIR is named “Opus 8.7.31”
- Opus password 輸入OPUS即可登入系統，並會顯示一個視窗確認 OPUS 版本、儀器類型及序號，點擊 “OK”

FTIR Startup



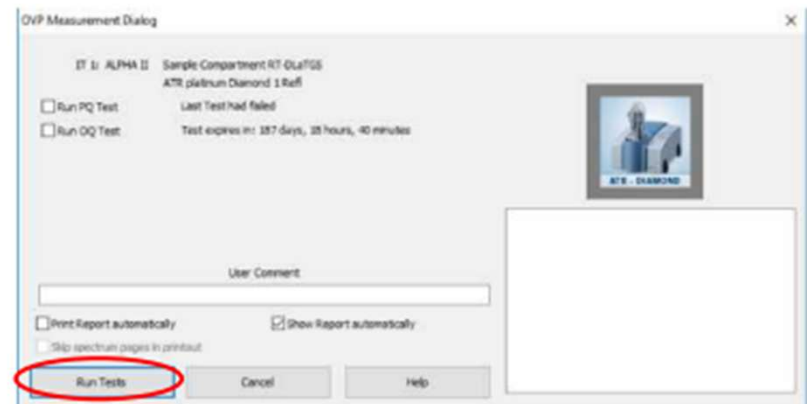
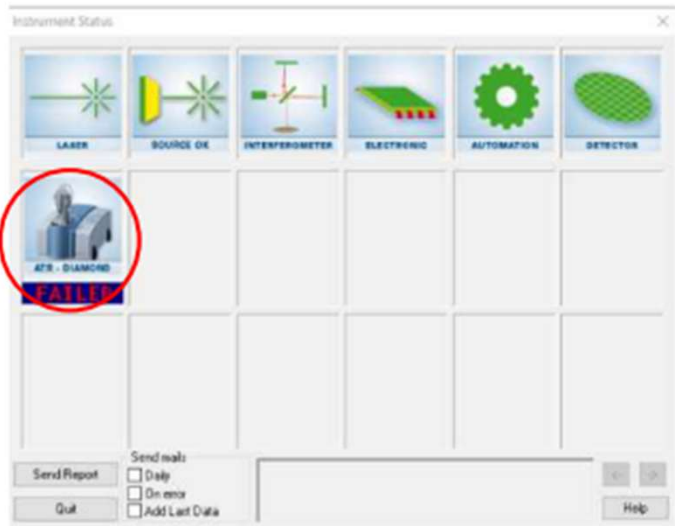
On startup an energy test is always acquired. This will show up in the status bar.

綠色→正常

橘色→儀器溼度過高(>30%)、儀器確校過期

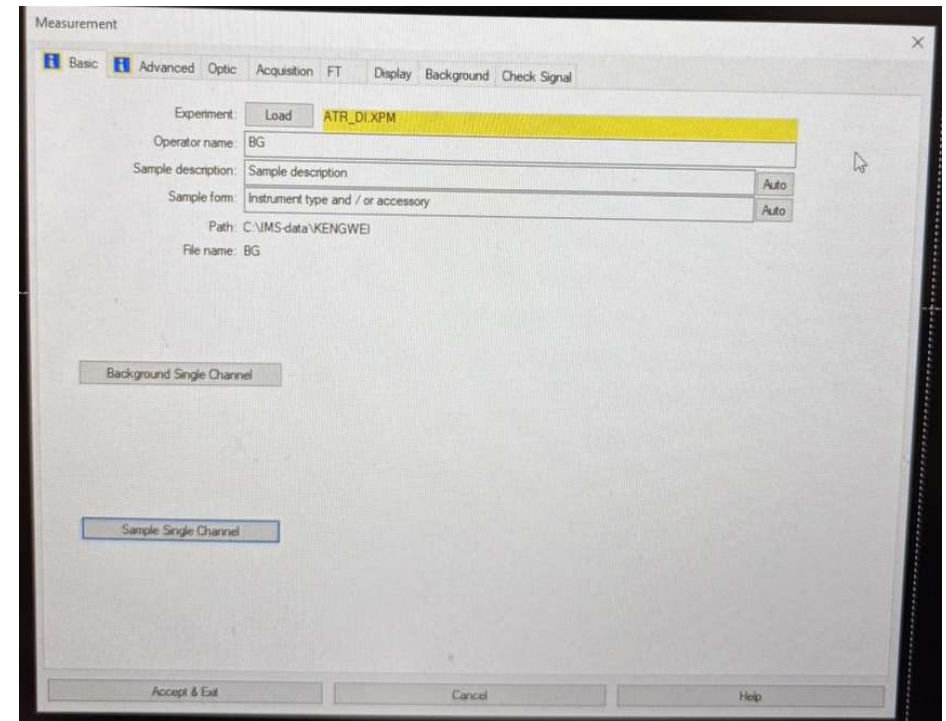
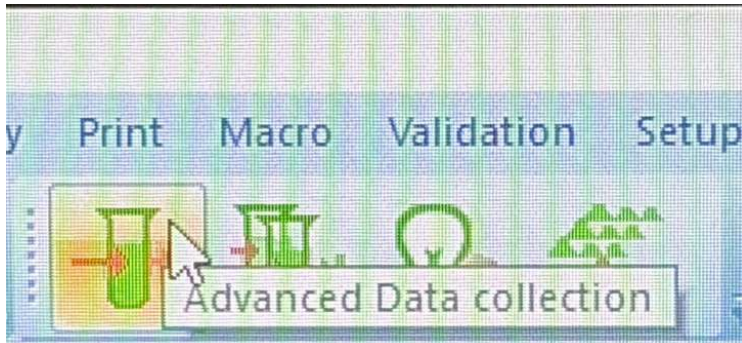
紅色→儀器運作不正常或故障。

灰色→未連線。

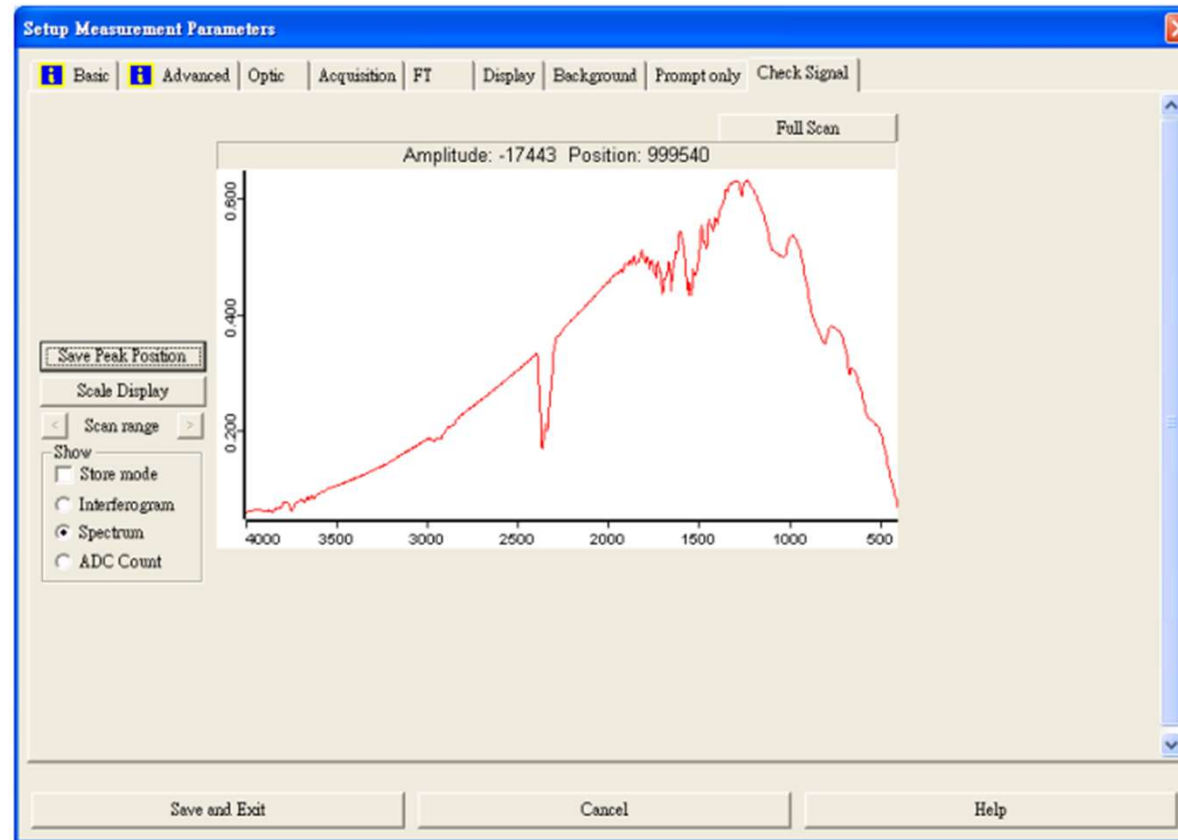


Next double click the " FAILED" option and select "Run Tests." The system will run a few test and then open up a pdf report of those tests.

Setting parameters



- 點選功能列中 Advanced Data collection，進入 Measurement 視窗。
- 點擊 Advanced 設定實驗參數；檔案名稱；存檔路徑；Resolution；Sample/Background scan time；Save data from；Result spectrum。
- 點選 Basic，輸入檔案名稱
- Accept & Exit

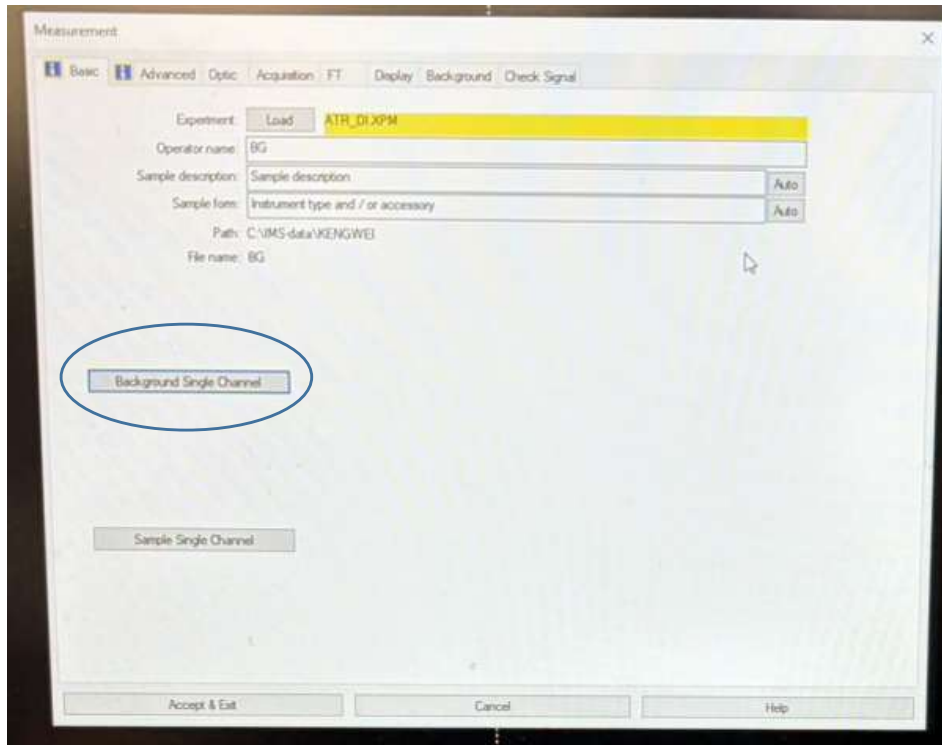


Measurement視窗之Check signal，勾選Store mode與Spectrum，點擊Scale Display確認訊號，注意Amplitude / Position數值並記錄。

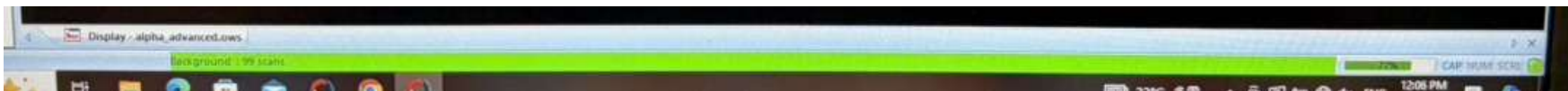
Store mode：勾選時，紅色為目前之光譜圖，綠色為先前之光譜圖。

FTIR Background Measurement

- If your sample is in a volatile solvent, the background measurement is just of the atmosphere. In the case of a non-volatile solvent, apply the solvent to the diamond crystal.

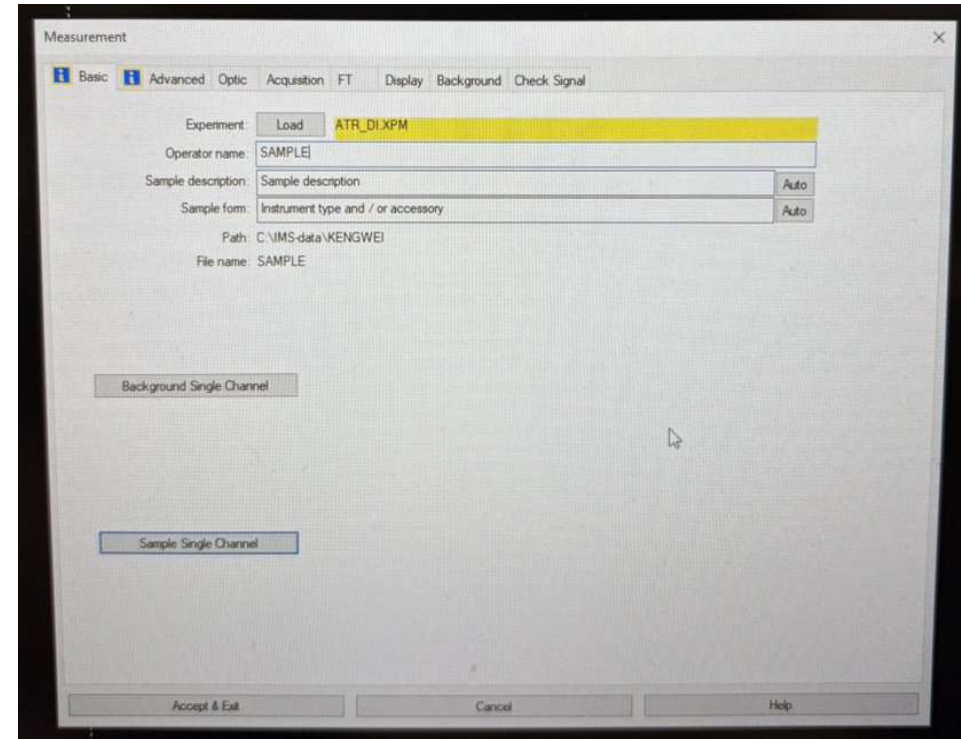
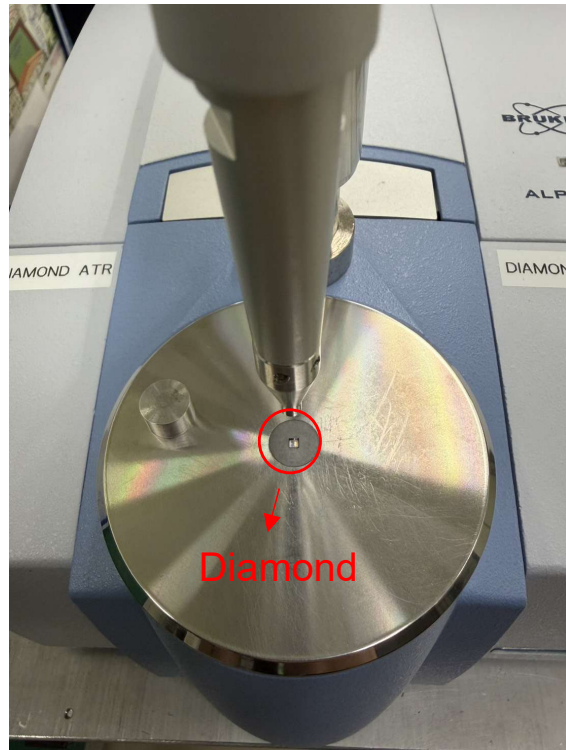


- 點選 Background Single Channel，開始測量背景。



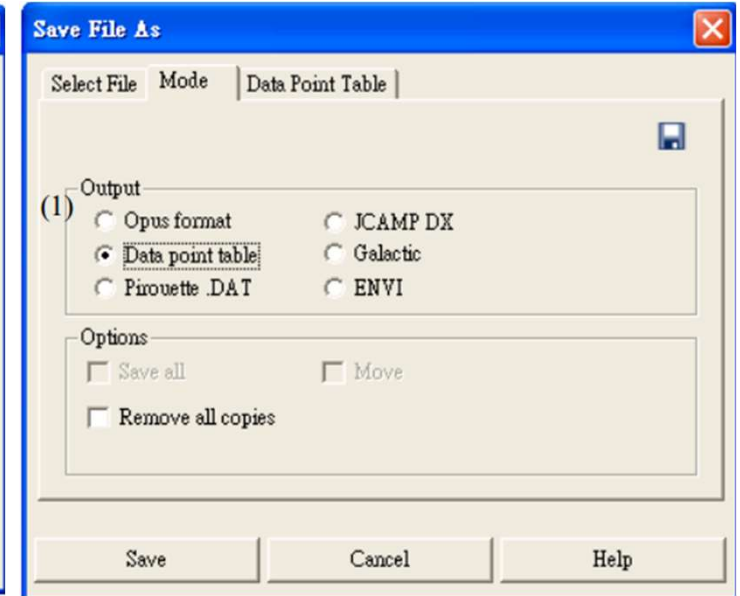
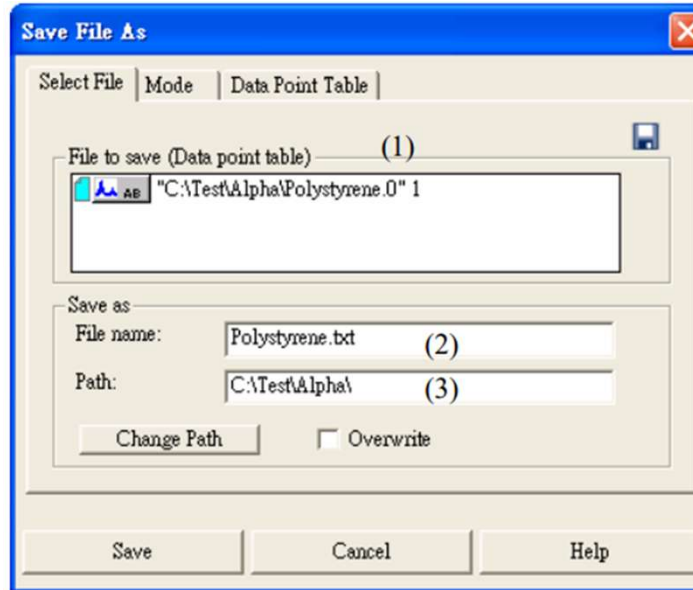
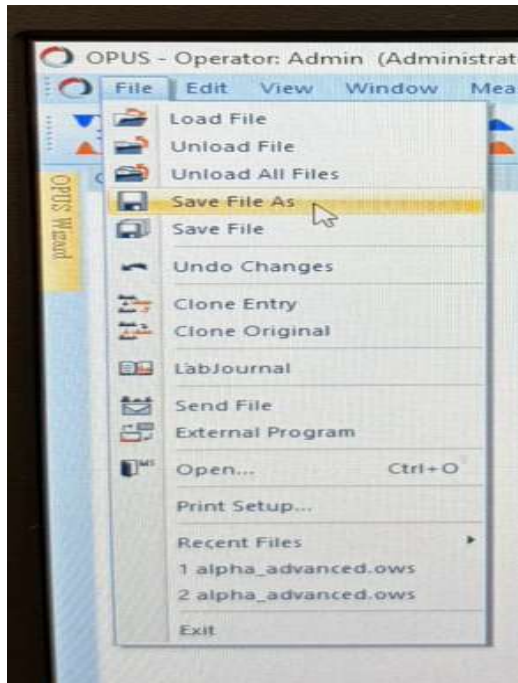
- The status bar will show you that the instrument is acquiring background scans, but there is no spectrum that appears at the finish.

FTIR Sample Measurement



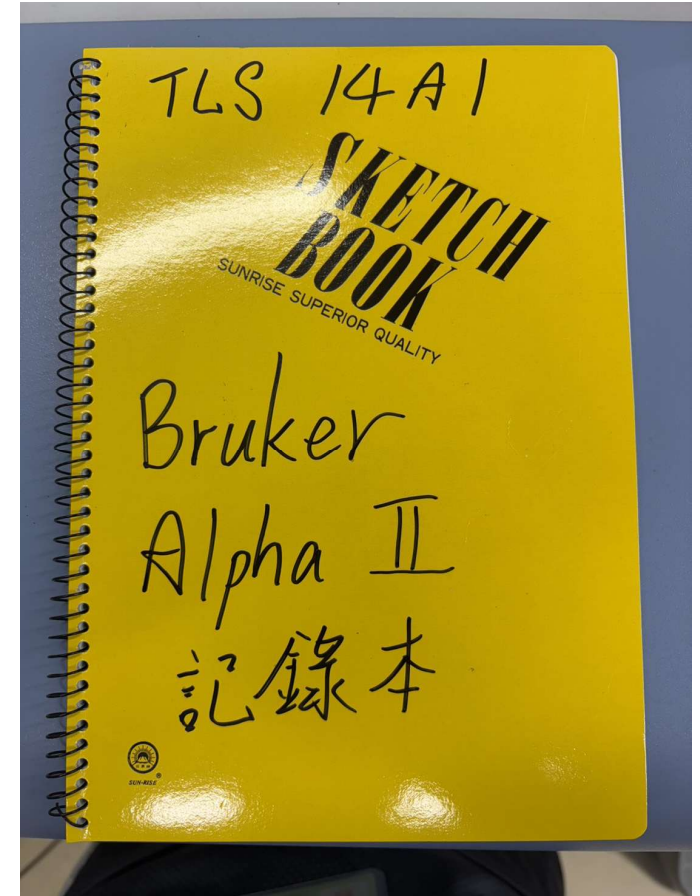
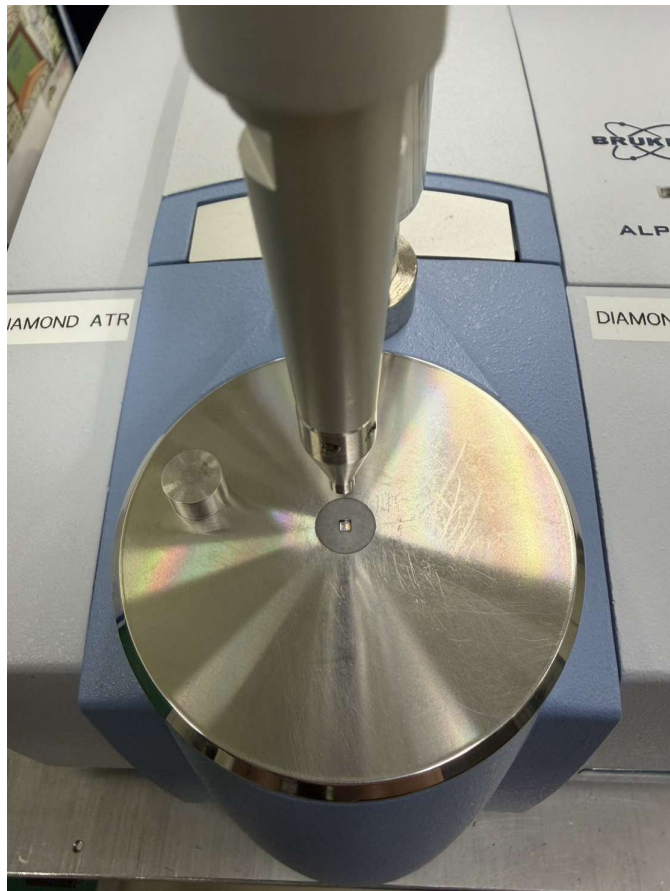
- Loading樣品於晶體上。
- Measurement之Advanced改樣品名稱。
- 點選Basic，輸入樣品名稱。
- Accept & Exit
- 點選 Sampling Single Channel，開始測量背景。

Save as new file



- 點選功能列中 File 之 Save File As。
- Save File As 視窗中選擇將另存之檔案。
- 設定檔案名稱與路徑。
- Mode→Output，選擇檔案類型Data point table。





- 使用完畢，拭鏡紙先用酒精擦拭，再用ddH₂O擦拭清潔。
- 最後，填寫紀錄本，包含日期、使用晶體、使用人及單位。