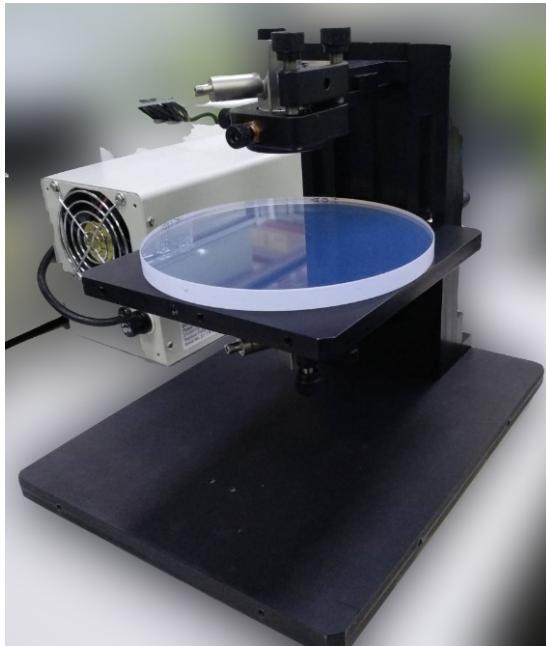


Apogee Measuring System (AMS)

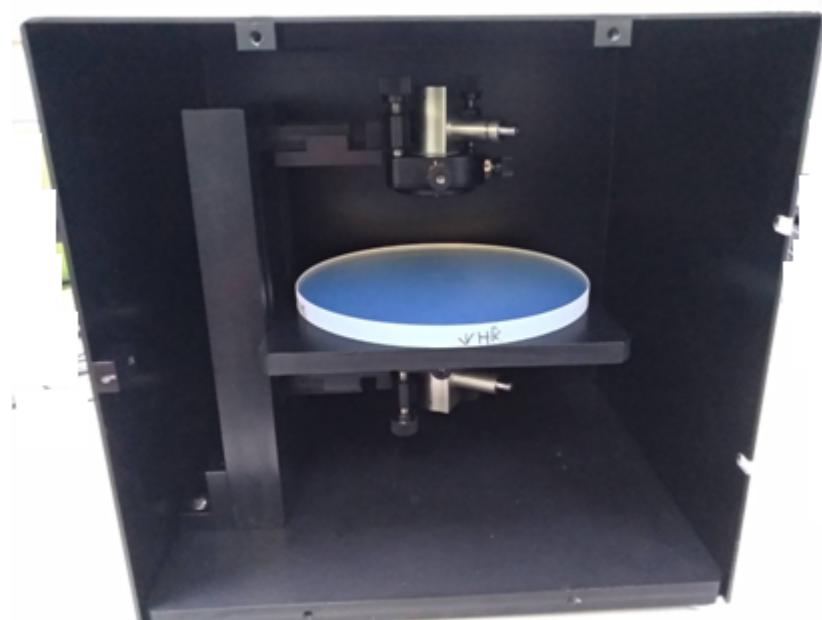
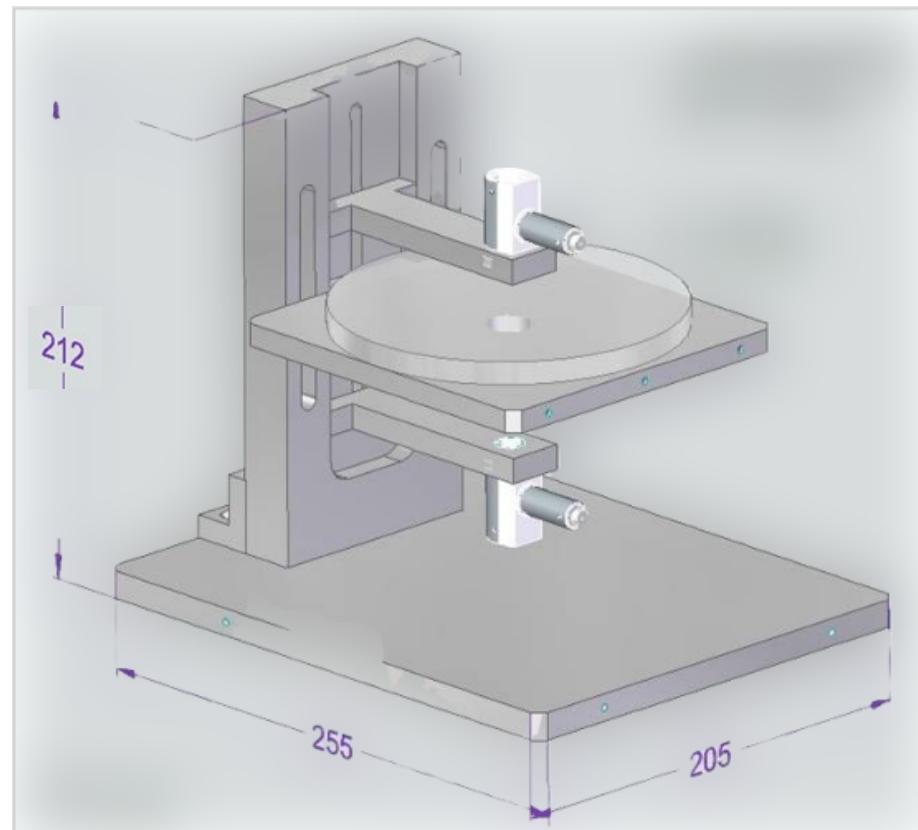


ACMS Introduction

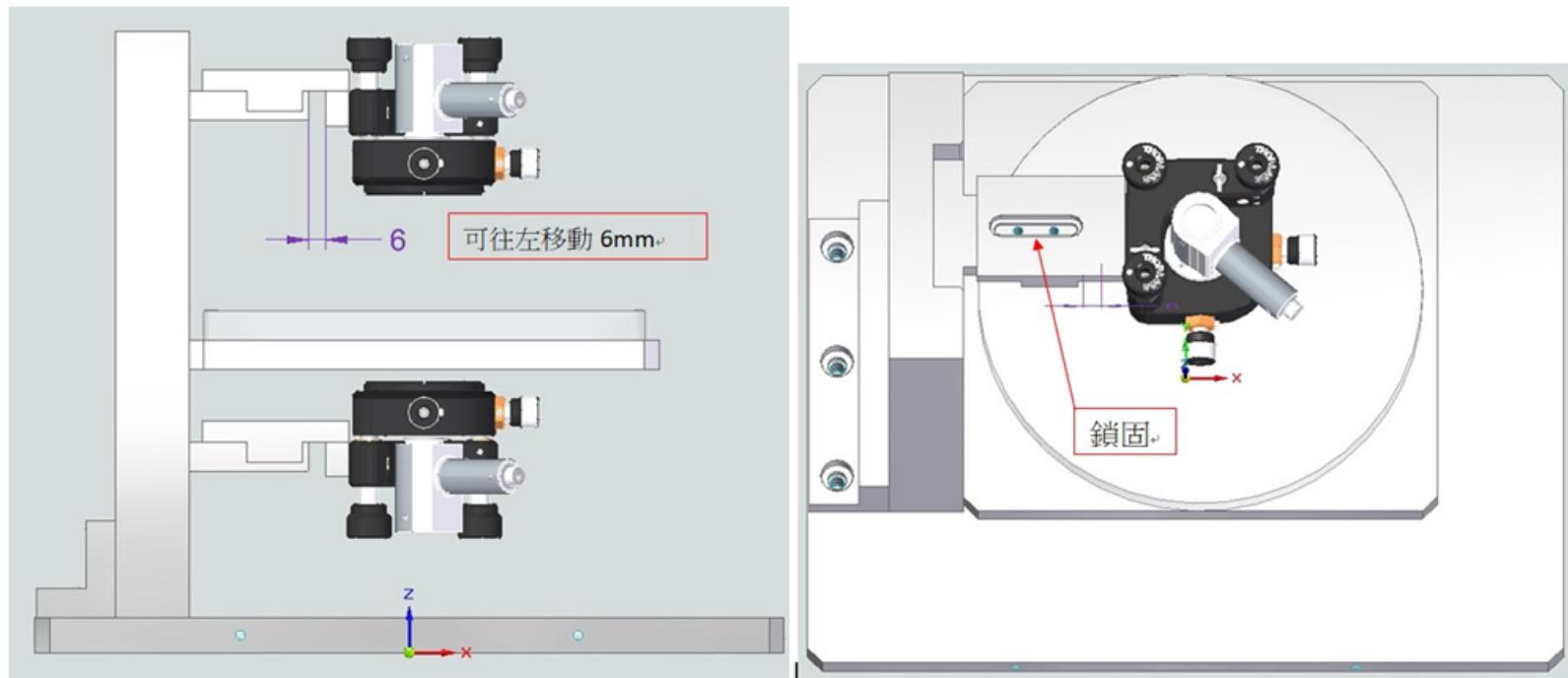
- Reflectance or transmittance measurements
- Refractive index N 、 Extinction Coefficient K
- Multilayer thickness D measurements (Error<2nm, Precision<0.1 nm)
- Spectrum range: 450-1000 nm, 1000-1600 nm
- Available thickness range: (10 nm-25 um)
- Spectrum resolution~1 nm
- Spectrum repeatability<0.03%
- Refractive index error<0.1
- Suitable for any coating of low absorption (dielectric, organic..)
- Customized plates for various substrate sizes (default: 4")



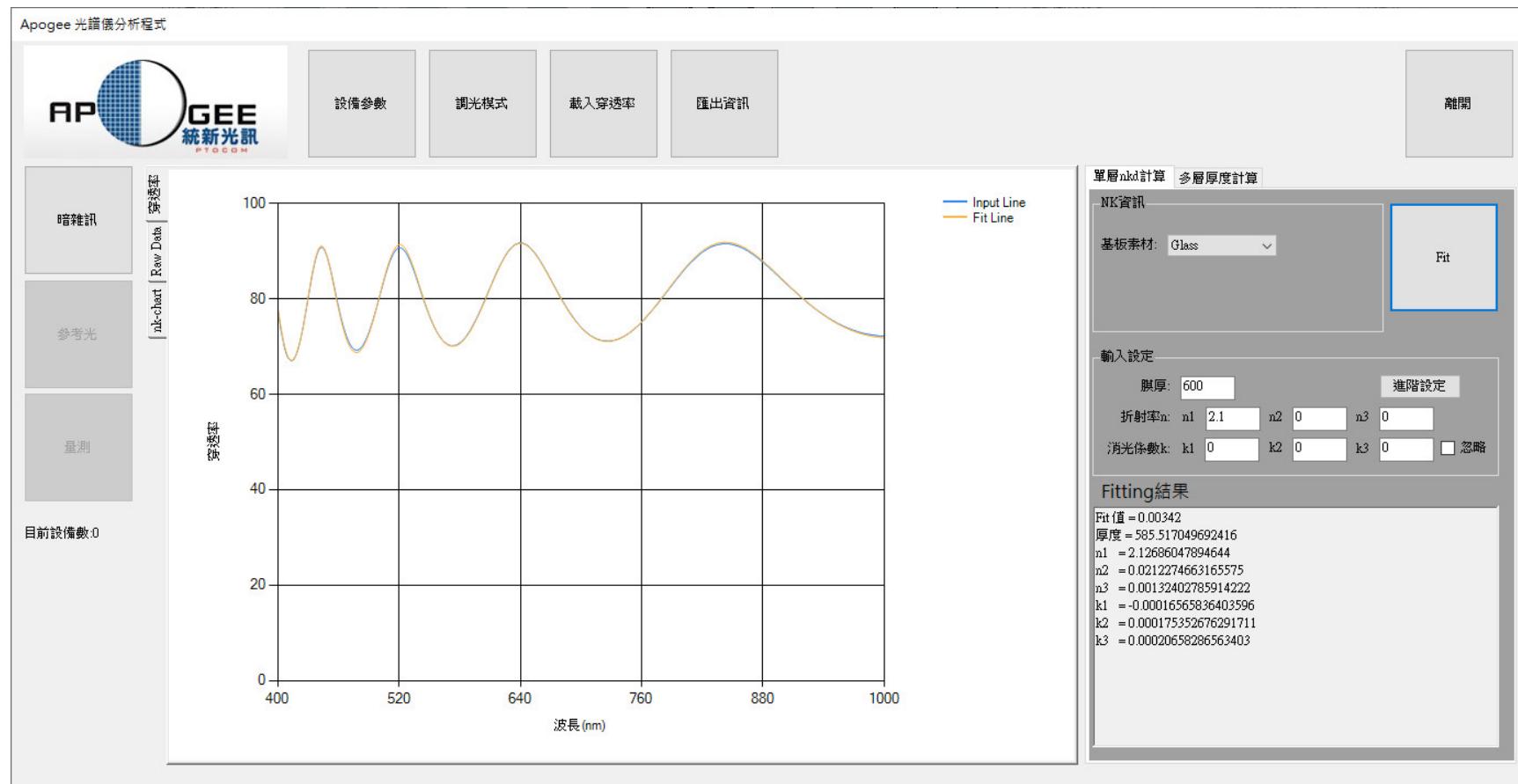
ACMS Layout



ACMS Adjustable Stage



ACMS Software



ACMS Software

FormSetting

Prepare Measurement Data

	Serial Number	Detector Type	Total Pixels	Start Pixel	Stop Pixel	Integration Time [ms]	Integration Delay [ns]	Averaging
▶	2002069U1	HAMG9208_512	512	65	310	2.00	0	30

參數設定

設備序號: 2002069U1

Integration Time [ms]: 2.00

Integration Delay [ms]: 0.00

Start Pixel: 65 對應波長: 1400.759

Stop Pixel: 310 對應波長: 1600.385

Average Num: 30

Smoothing: 0

EEPROM

讀取 EEPROM

寫入 EEPROM

設定

ExportForm

路徑: C:\Users\31320\Desktop

檔名: ExportData_20210317_111437

汇出項目

波長 穿透率(%) 參考光 暗雜訊 量測值

分析報告: nkd資料分析

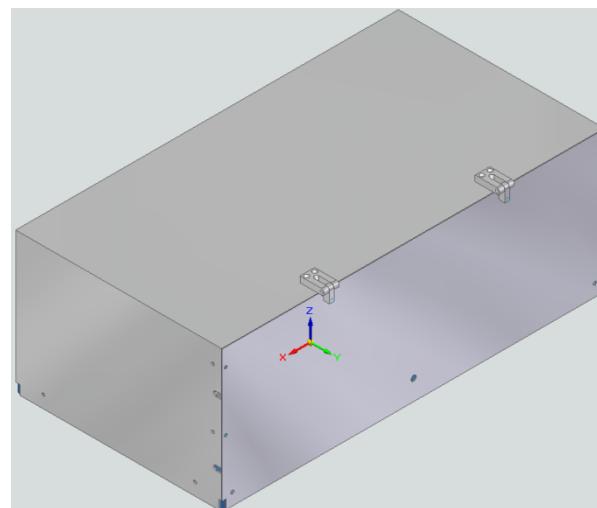
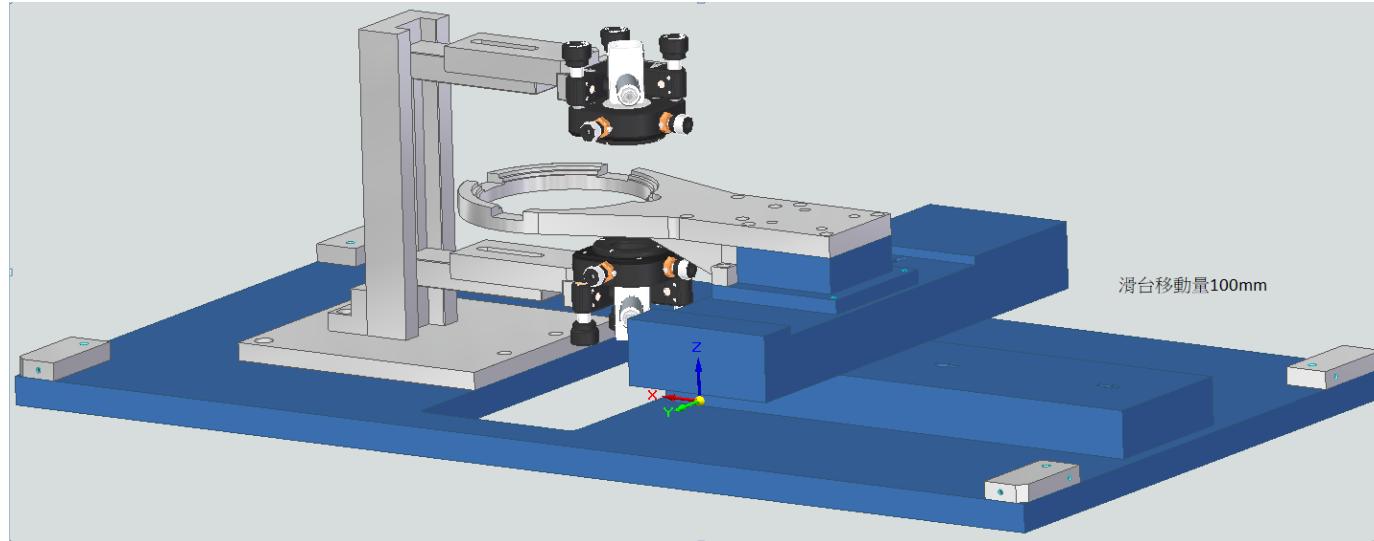
將資料整理成每1nm(波長)一筆

存檔 離開

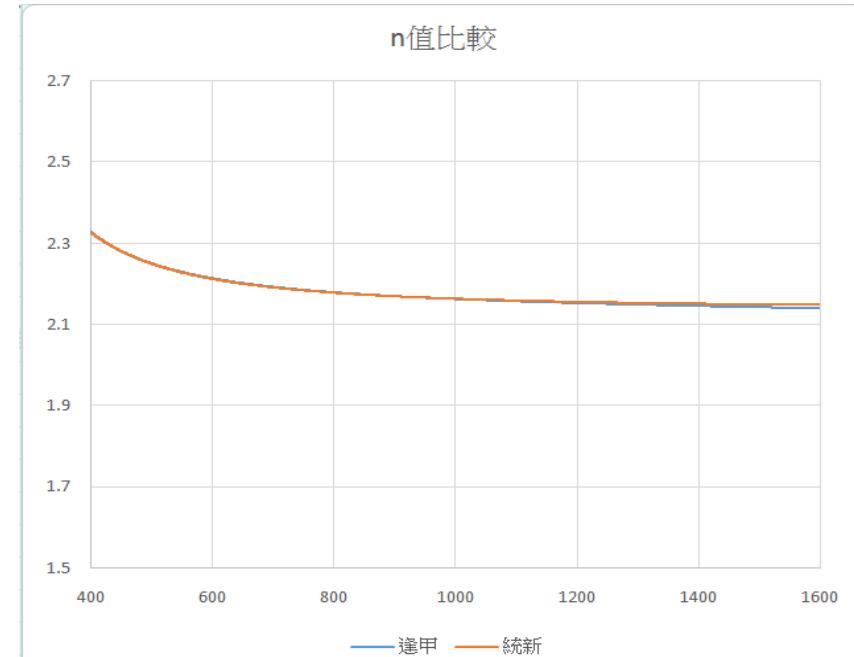
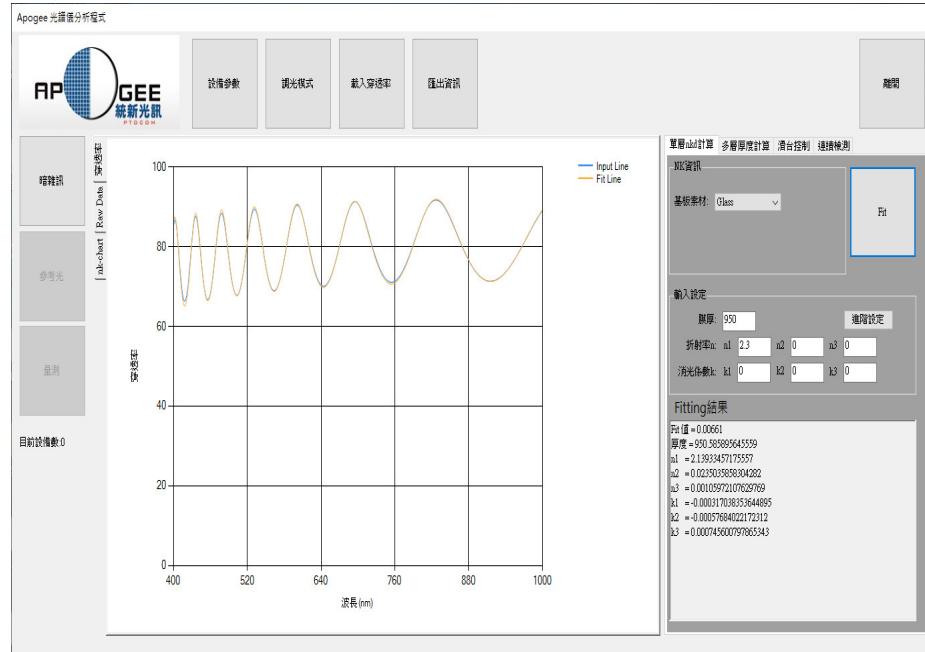
確定



Automatic positioning Measurement (Optional)



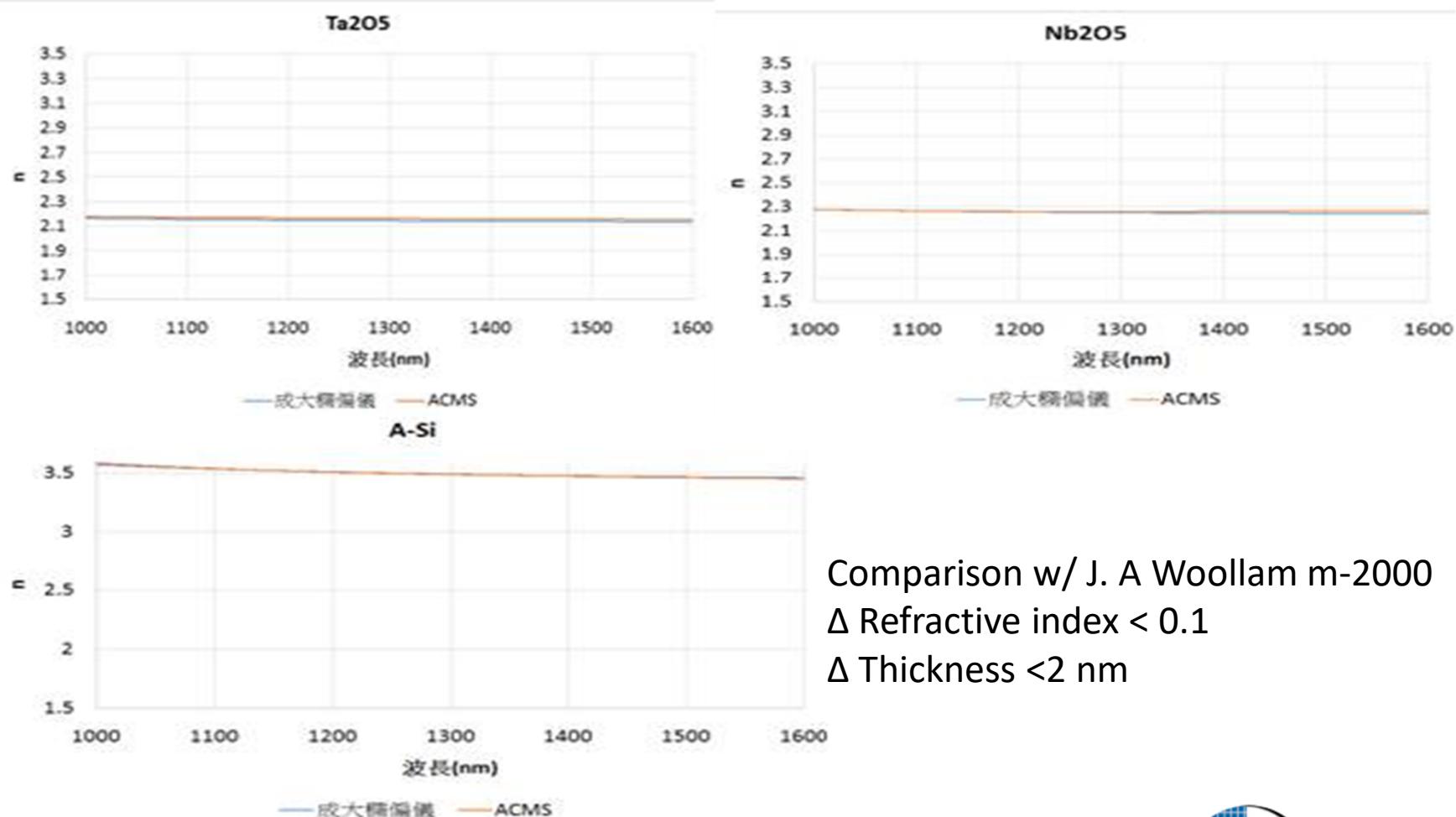
Test Results



Ta₂O₅ Single layer spectrum matches with Agilent Cary7000 result <0.1%
Comparison w/ J. A Woollam m-2000
Δ Refractive index < 0.1
Δ Thickness <2 nm



Test Results



Comparison w/ J. A Woollam m-2000
Δ Refractive index < 0.1
Δ Thickness < 2 nm