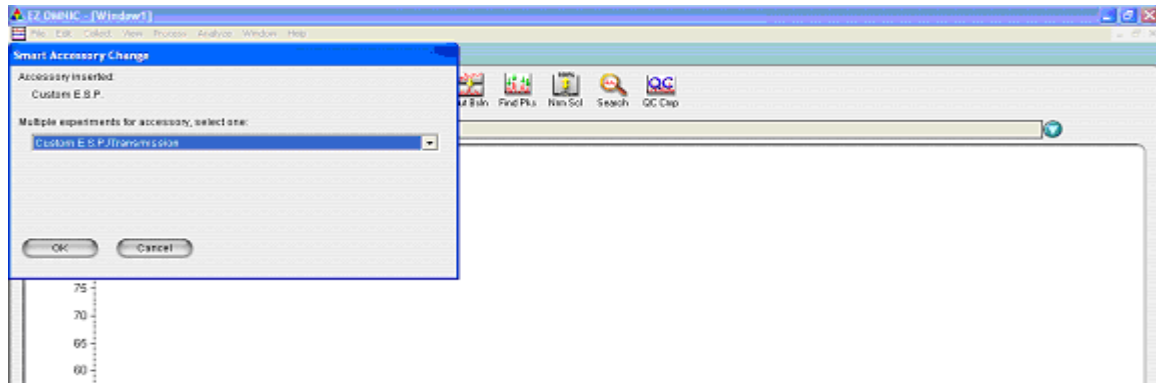


INSTRUCTIONS FOR OPERATION OF THE NICOLET IR SPECTROMETERS

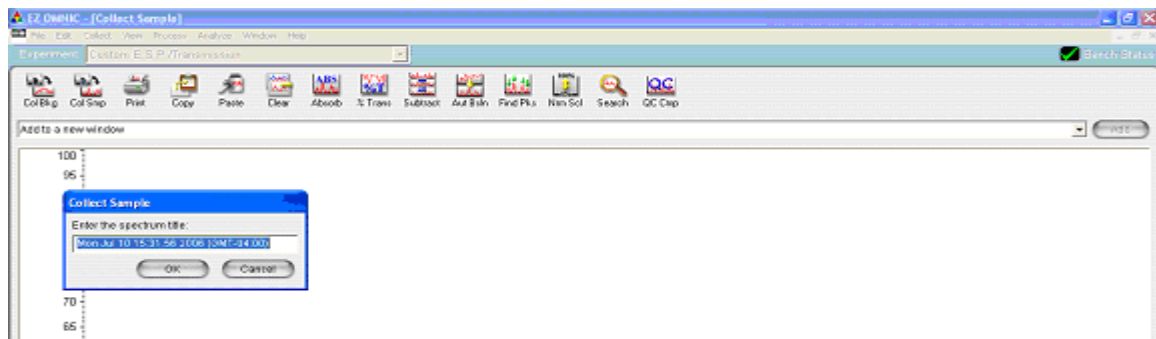
JMH, 6-2008



1. Double-click the EZ OMNIC FTIR icon: EZ OMNIC FTIR.lnk . You will see the following window:



2. Choose the correct accessory plate from the dropdown menu (for CHEM 304, it will usually be “Custom E.S.P./Transmission” or “Transmission ESP/Transmission”, depending on which instrument is being used).
3. (This is where most CHEM 304 students will begin.) Click the “Collect Sample” button (Col Smp). This will bring up the Collect Sample dialog box.

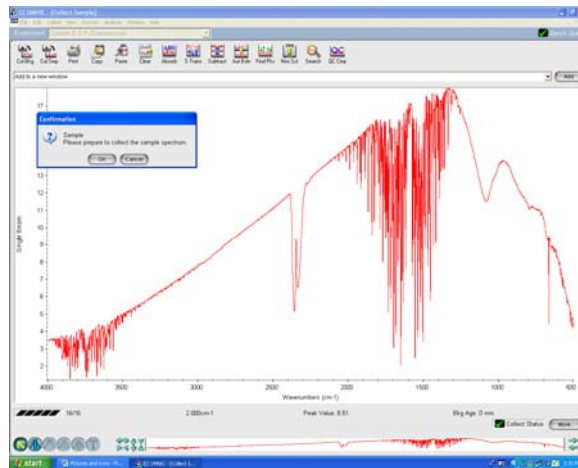


4. Enter a spectrum title (your sample number, or your initials and date) and click “OK”. The Collect Background confirmation dialog box will appear:

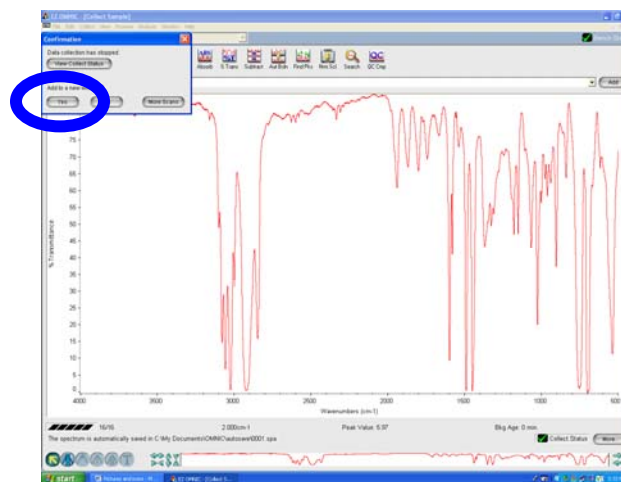


Make sure there is no sample in the spectrometer and click “OK”

When the background collection is finished, you will see the background spectrum of air and the Sample Collection dialog box:



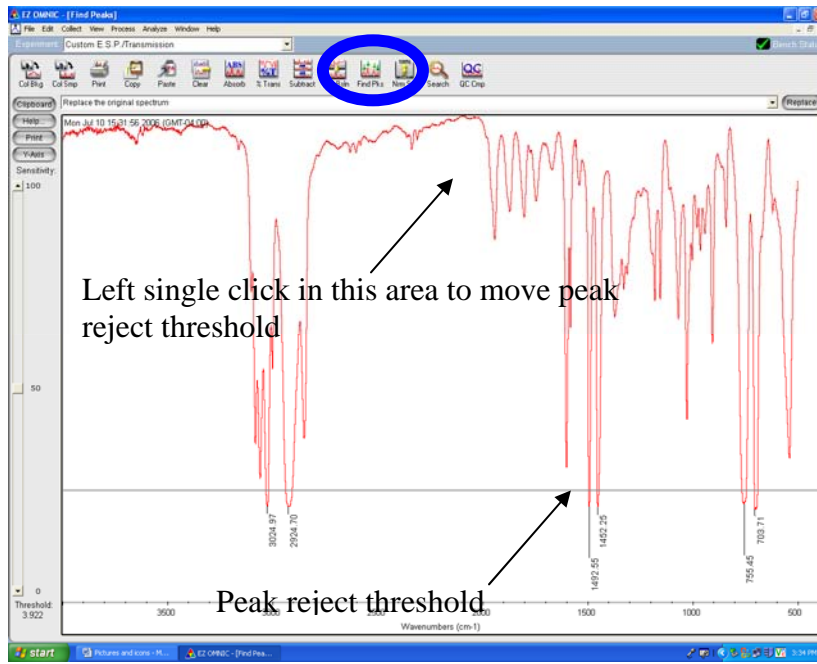
5. Place the sample in the holder and click “OK”. When sample collection stops, you will see the IR spectrum of your product and the “Add to new window?” dialog box will appear:



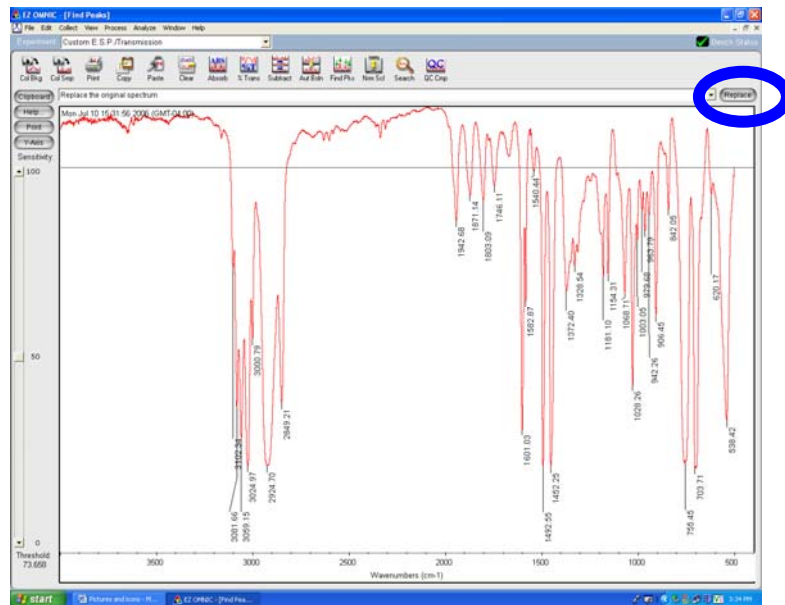
6. Click the “Yes” button, then Click “OK” when the New Window dialog box appears:



7. To generate wavenumbers for the spectrum peaks, click the “Find Peaks” button in the toolbar:



8. Left single click in the window to move the Peak Reject threshold to the desired position:
9. Click the “Replace” button at the top right of the spectrum.



10. Print the spectrum using the “Print” button in the toolbar.
11. Close all of the spectrum windows, and do not save any of the changes. Do not exit the application.