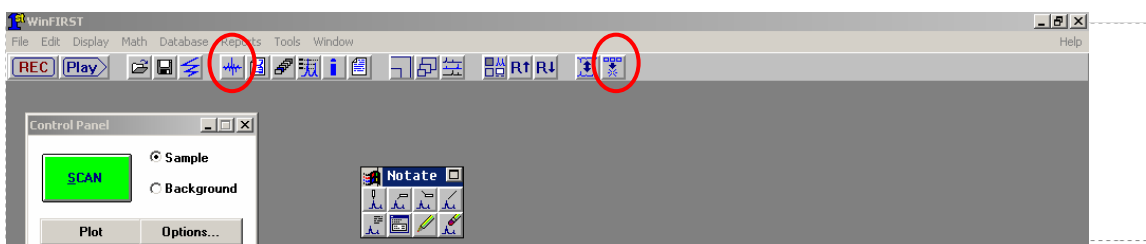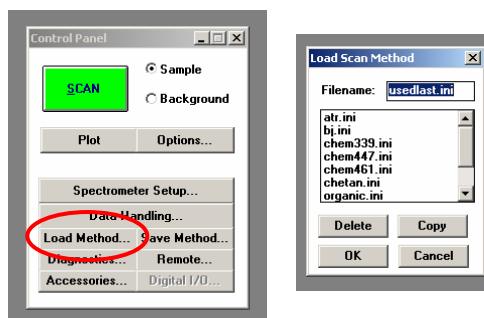Mattson Genesis FT-IR

for CHEM 461

Operating instructions

1. The control panel window should be visible on the screen. If not, press the ⌇⌇⌇ icon in the toolbar.
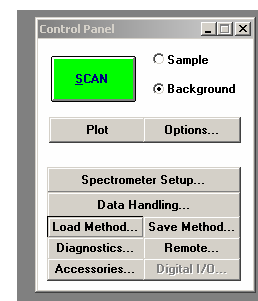
2. In the control panel, click
→ **LOAD METHOD**
→ **Chem 461.ini,** then press **OK**

3. With an empty sample compartment, click **Background** in the Control Panel.
→ press the green **SCAN** button
→ click **OK** in the ready for sample scan window.
→ type background title when prompted and then **OK**.

4. Place sample in sample compartment, then click **Sample** in the Control Panel.
→ press the green **SCAN** button
→ click **OK** in the ready for sample scan window.
→ type sample title when prompted and then **OK**.

5. Data will appear in a new window. From the notate window, choose one of the peak picking icons. Click on it multiple times. Each click opens a red window which will allow you to pick one peak. Move the cursor to the peak minimum and left-click to display the wavenumbers. The pencil button can be used to erase peak labels.

6. After all peaks are labeled, right-click twice in the data area. The **Data area** window will appear. Change the limits according to your needs, so that all peaks and labels are displayed on the screen.

7. Press **F7**, which will open the plot window. Choose **plot**, then **done**.

8. Click the ⬇ icon in the toolbar to erase you spectra.

9. Click the ◈ icon in the toolbar so that the instrument will be ready for the next user.

10. Do NOT exit the program WinFirst.