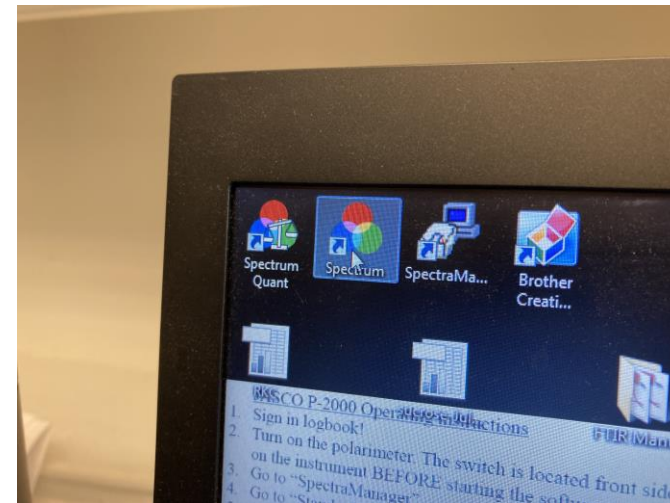
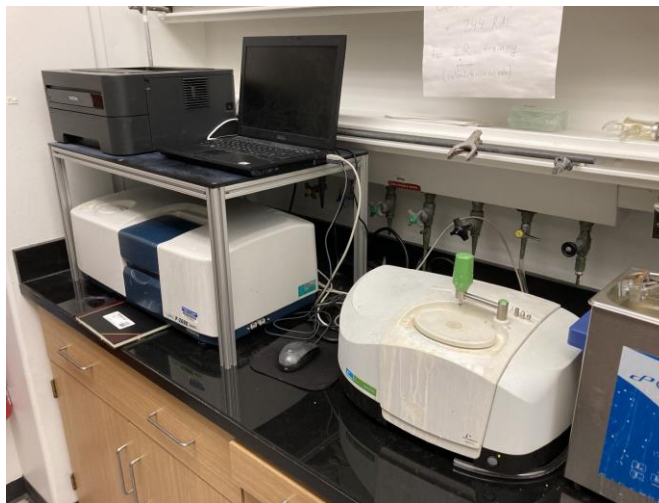


- ATR-FTIR spectrometer located in 250 RAL
- Belongs to Denmark group
- What you'll need: a pure liquid sample or a dilute sample of the compound to be characterized in a volatile solvent, acetone, a USB stick, pipettes, kim wipes



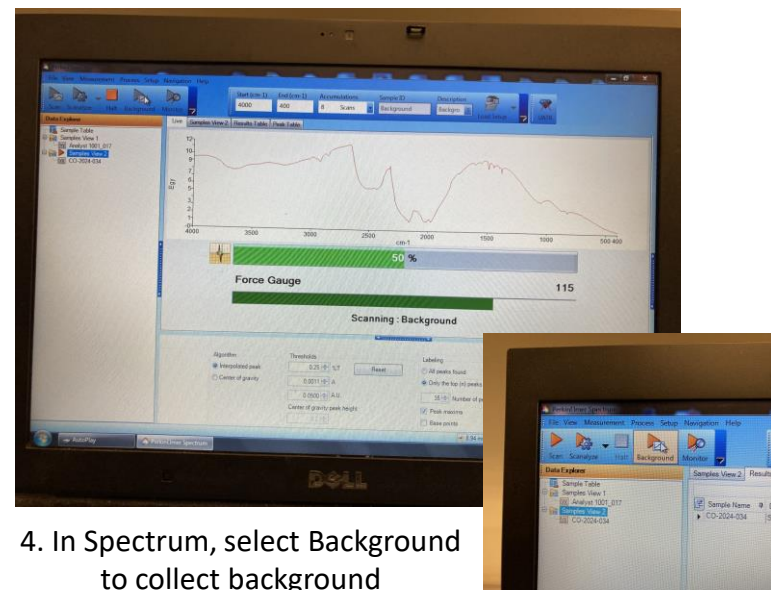
1. Open Spectrum software on computer



2. Wipe off surface of detector with acetone and kim wipes

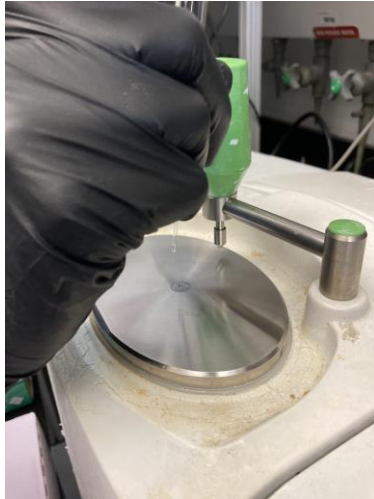


3. Screw in sample presser

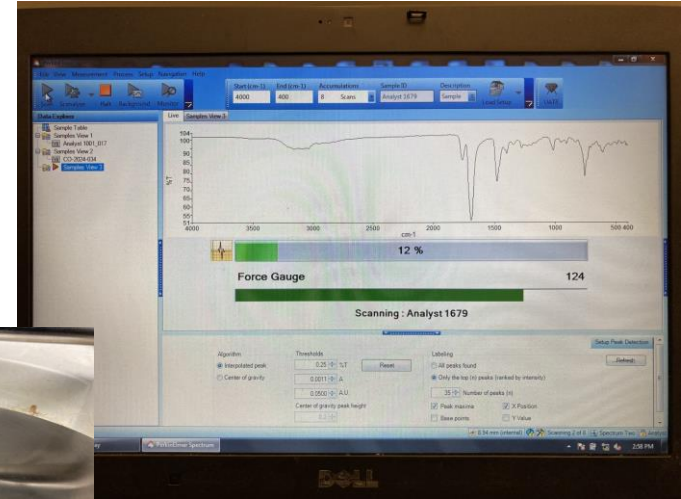


4. In Spectrum, select Background to collect background

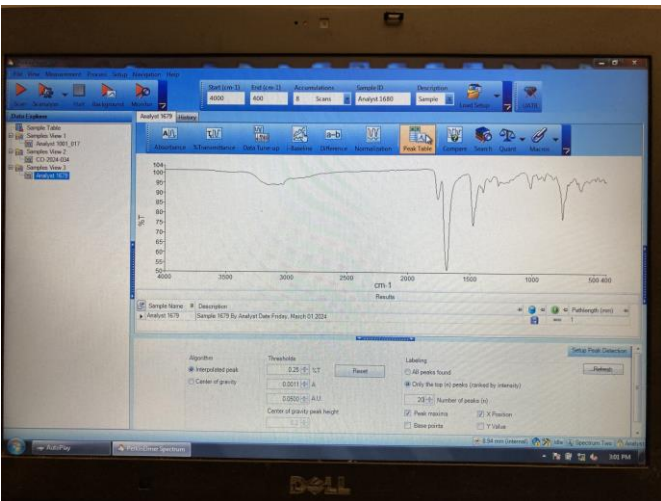
5. Unscrew the sample presser, then draw up a small amount of your sample into the tip of a pipette and use your finger to press it out onto the surface of the instrument



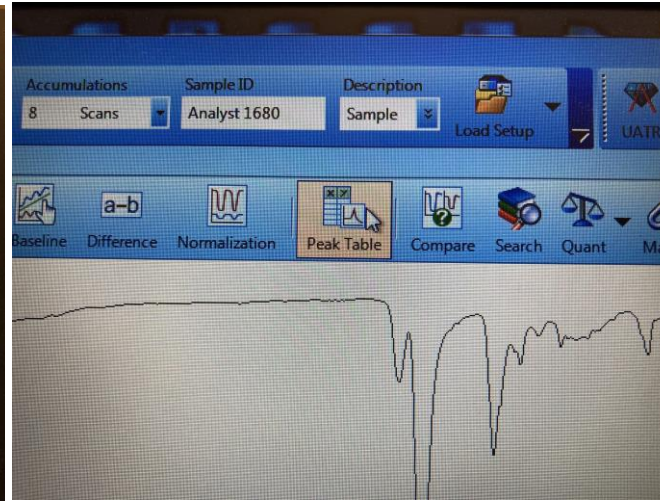
6. Let solvent evaporate, then screw sample presser back in



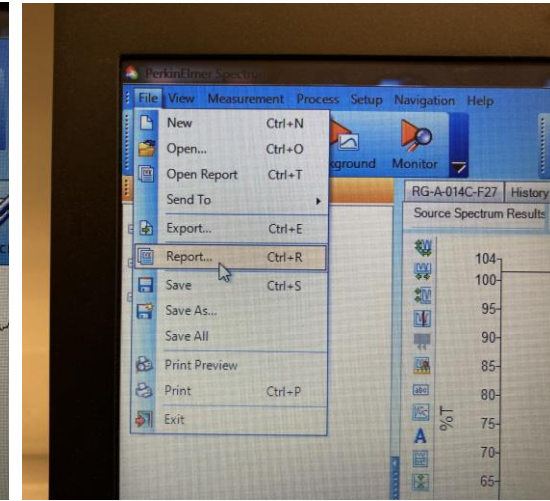
7. Click Scan once to preview, twice to record IR spectrum
-Force gauge should read ~ 100
-Peaks should be well beyond 90% T



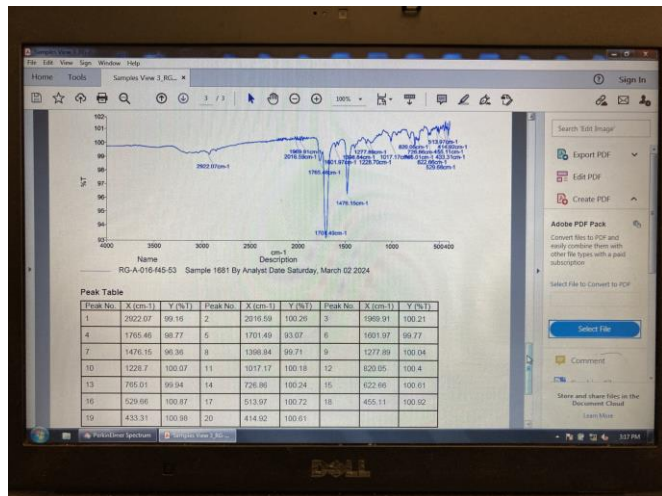
8. In Data Explorer, right click on the file and rename it to something that makes sense to you



9. With peaks set to 20, select Peak Table



10. Select File, then Report



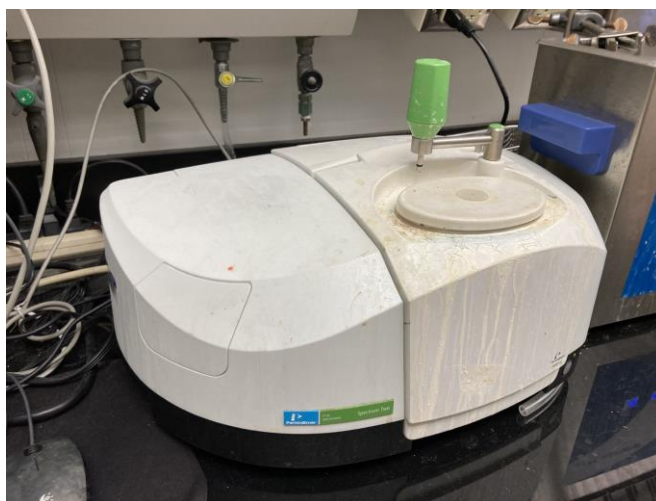
IR spectrum accompanied by table



11. Save report to USB



12. Wipe off surface of detector with acetone and kim wipes



- For publications, report the wavenumbers and intensities of the most diagnostic peaks for your compound according to you
- Consult the standards for the journal you're submitting to