

## GC Quick Guide for Single Sample Runs

1. Turn on the **H<sub>2</sub> tank** and **Air tank** using the main valve on the top of the tank.
2. Log into the computer if not already logged in (**chem147, Ch3m1stry**)
- 3.

### **Download to Instrument**

method.

4. Check solvent and waste vials in the autosampler. Be sure there is solvent in the two wash vials, filled to the line at least.

Solvent A: Methylene Chloride, Solvent B: Hexane

5. Enter sample information into GC log sheet.
6. To load a saved method, go to **Method > Load Method**, select the method and click **OK**.
7. If method parameters need to be changed, go to **Method > Edit Entire Method**, and make necessary changes, clicking **Apply** after the change is made, and then click **OK** to go to the next section until editing is complete.

**Save**

**Save As**

method and not overwrite the original method.

8. **Light the FID,**

**Detector**




in the main window, and selecting the boxes for **H<sub>2</sub>**, **Air**, and **Makeup**. Select **Flame** and click **Apply**. The flame takes a few seconds to light. If it does not light, see Celeste.

9. **To start a single sample run:**

- a. Go to **RunControl > Sample Info**
- b. Data path should be **C:\Chem32\1\Data\**
- c. prompted to create one. Click **Yes**.
- d. In **Signal 1**: Type in a data file name. (This will be a **.D** file.)
- e. Enter Vial/Location, Sample Name, Sample Amount (actual injection amount is determined by the injection inputted into the method), add any comments you feel is necessary. This information will appear on the report.

- f. Click **OK**, if not starting the run immediately, or click **Run Method** to start right away.
- g. **RunControl > Run Method will start a single sample run**, if the sample info has already been entered.

10. **Shutdown Procedure:**

- a. **Turn off detector**, by clicking on the  in the main window, deselecting **H<sub>2</sub>**, **Air**, and **Makeup** and **Flame**, clicking **Apply** and then **OK**.
- b. Exit out of the software.
- c. Leave the instrument and computer on. Logging out is not necessary.
- d. Turn off the main valve for the H<sub>2</sub> and Air tanks. **Helium tank remains ON.**
- e. Remove your samples from the autosampler tray and clean the area.
- f. Be sure you have filled out the sample run log sheet.