Agilent 6890N Gas Chromatograph (GC) with FID Detector

Updated November 14, 2017

Instrument instructions can be found at: <u>http://academic.bowdoin.edu/chemistry/resources/instructions.shtml</u>

If you have any problems with the instrument or would like to get trained, please contact Celeste Morin (x3756 / cmorin@bowdoin.edu / Druckenmiller 243)

a. Read instructions carefully before using instrument. Reading the bold sentences in each category will tell you what you need to know to run the instrument.
i.

- a. Program should be in <u>Method and Run Control</u> view for the following steps.
 - i. Go to View > Method and Run Control.
- b. Load method (File > Load > Method) OR (Method > Load Method)
 - i. To create a new method, search for the default method (C:\Chem32\1\METHODS\def_GC

- c. **Load sequence** (Sequence > Load Sequence Template) or create a new sequence (Sequence > New Sequence Template).
- d. **Edit Sequence Table** (Sequence > Sequence Table).
 - i. If you have several samples to enter, use the Insert/FillDown Wizard. If you have only a few samples, skip to step ii and enter information manually.
 - 1. Enter information in Line 1 for your first vial in the sample table.
 - i. Location location of sample in autosampler tray.
 - ii. Sample Name name of sample.
 - iii. Method Name select method.

i m0 g0 GQ0B1>]TETQ0.0000091sW*nBT/F1 12 T[)271 0Gf0 gVoluTm0 g0

- f. **Save sequence** (Sequence > Save Sequence Template As > create a new sequence name). If saving changes to current sequence template, Sequence > Save Sequence Template.
- a. Go to RunControl > Sample Info
- b. Data path should be C:\Chem321Data
- c.

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.

b. Select Integration task icon

- c. Adjust x and y scale (Graphics > Signal Options).
 - i. In Ranges section, enter minimum and maximum values, or use Full Range.
 - ii. Click OK.

d. Integrate spectrum.

- i. Auto integrate (Integration > Auto Integrate) A window will pop up to enter Start End 0
- ii. **Edit/Set Integration Events table** Click this icon to manually edit integration events for a particular signal and/or save to the method for fu up to enter