Instructions for Agilent 5975C GC-MS: Tea Extract

1. Sign into the instrument's log book and place your sample vial into the autosampler (See Figures 1-5 on page 3). Be certain to record its vial number. *Note:* If the GCMS program is already running, skip to step #5.

2. Double click on GCMS ion on desktop.
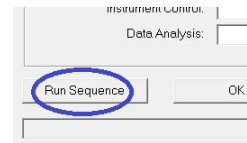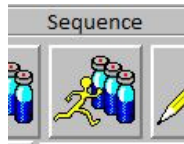
3. Open project by either:

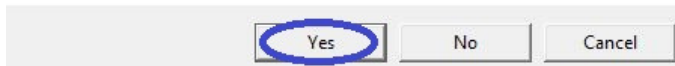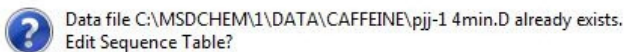   a. Open sequence folder (folder icon with sequence vials) or

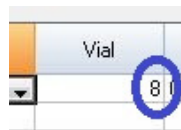   b. Click on Sequence/ load sequence in the task bar.

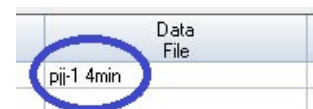4. Select caffeine1

5. Run sequence (runner icon)/ run sequence.

6. It will ask you if you want to "Edit Sequence Table?", answer YES

    Data file C:\MSDCHEM\1\DATA\CAFFEINE\pjj-1 4min.D already exists.
    Edit Sequence Table?

    Yes   No   Cancel

7. Input position of sample in vial #.

8. Input name of data file: your sample name/ number.
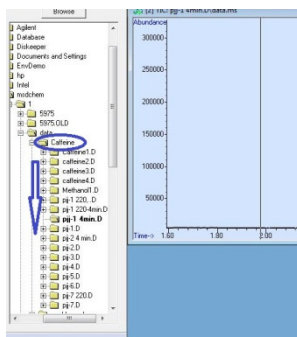
9. Click OK.

10. Say "NO" to override.

11. Note that there is a delayed start to the program (eluding off the solvent, methanol) and caffeine should start eluding at 2.5 to 3 minutes. The electrodes in the MS will turn on/ light up at 1.5 minutes.

12. After run, do one of the following:

    a. Minimize the GCMS and on desktop, double click on GC-MS Data Analysis icon or

b. Click on data analysis tab at bottom of screen (in yellow area, if it is still there) or

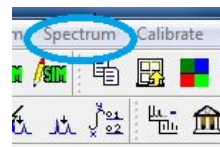c. Click on View /Data Analysis on the task bar.

13. Look for your file/ sample name in the Caffeine folder on the left side of the window and double click to import your sample.

14. Double **right** click on center of peak when the line of the cursor is at the maximum to obtain your scan's fragmentation patterns.

a. Print / OK

15. Click on Spectrum/NIST Search from the dropdown box.

a. Print / OK/ OK.

16. Close the NIST search window.

17. Close the Analysis Window and save any changes. You're finished! Collect your printed figures and have fun with your MS spectra.

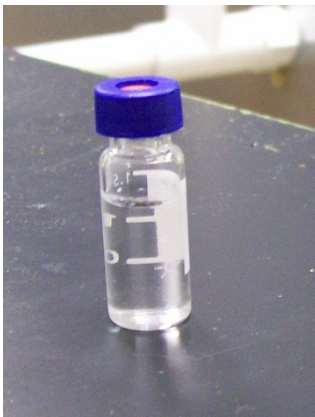**Figure 1: GC-MS Workstation in Sims 308**

Figure 2: GC-MS

Figure 3: Sample Vial

Figure 4: Placement of Vial into Autosampler

**Figure 5: GC-MS,
Autosampler with vial in place ready for analysis**