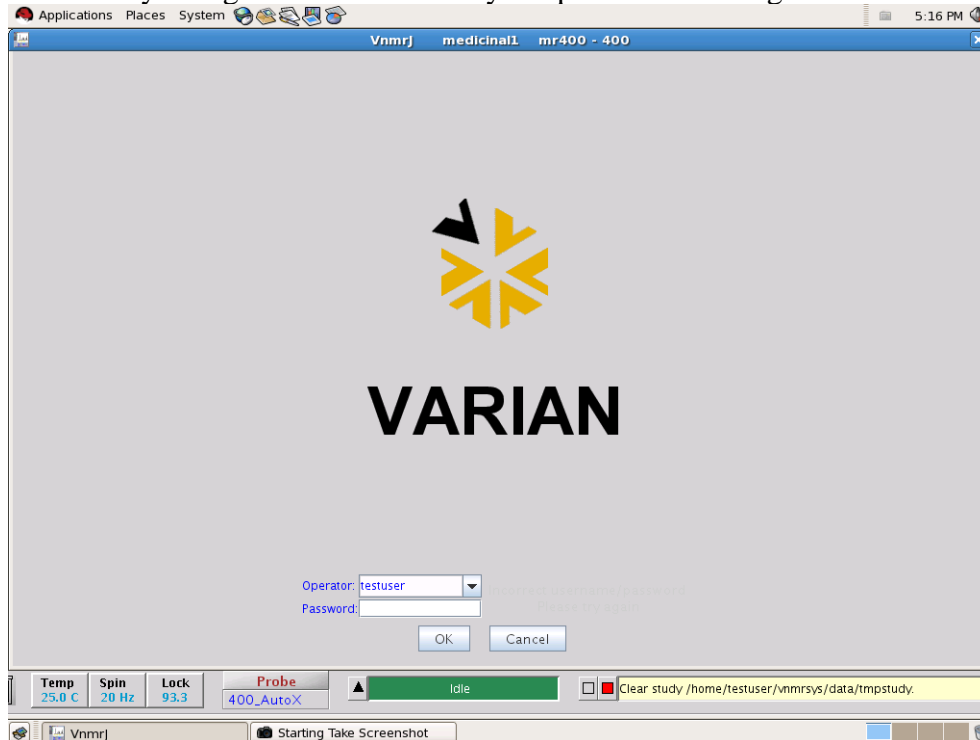


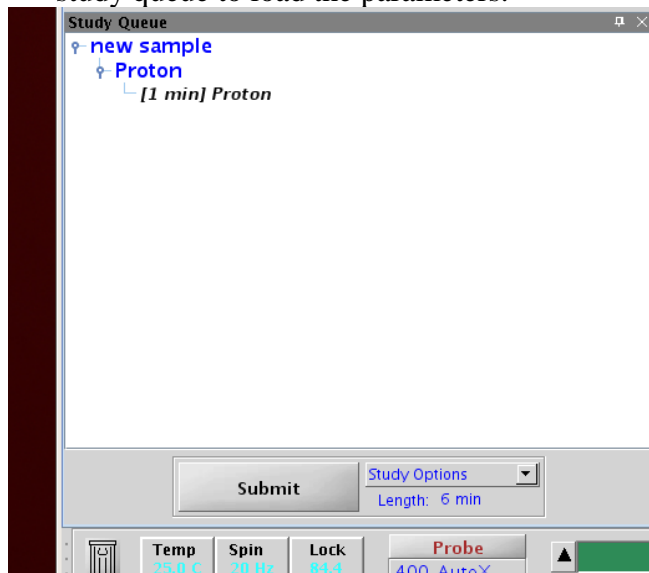
4002 Varian MR

Basic User Instructions

1. Select your user name and enter your password on operator login screen, then click [OK] If the password field seems to now allow typing, try hitting [OK] and let it try to login and fail. Then try the password field again.

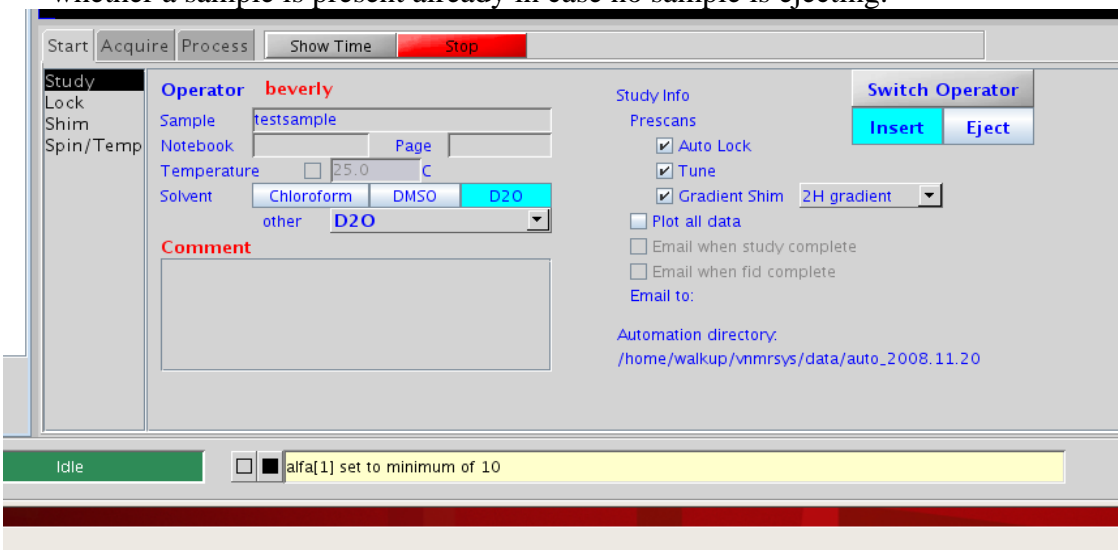


2. From the menu bar, select **File->New automation run**
3. On the left side, select the Protocol tab to see the study queue. Select the Proton experiment. Double click the “time” text under the proton experiment in the study queue to load the parameters.

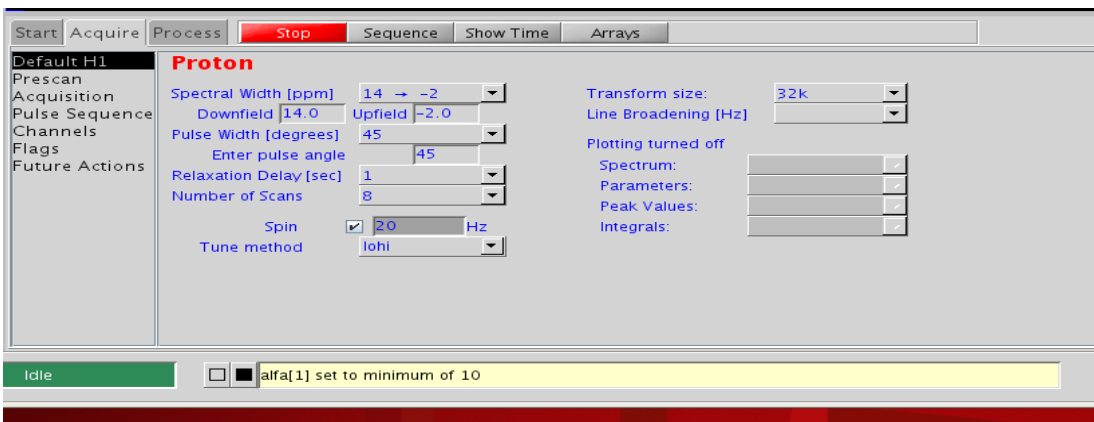


4. In the panel section under Start->Study: Click [**Eject**] to eject the dummy sample. Insert the sample and click [**Insert**] The yellow light near the bore indicates

whether a sample is present already in case no sample is ejecting.



5. Under the **Start** tab on the **Study** page, select the solvent, enter the sample name and check the temperature. Make sure **Auto Lock**, **Tune** and **Gradient Shim** boxes are all checked. Turn off the “Plot all data” (autoplot) if desired.
6. Select the correct solvent on the **Start->Study** panel and enter any other information to attach to the file including notebook, page or text.
7. If necessary, under the **Acquire -> Default H1**, parameters like sweep width and number of scans may be changed. Leave the tune method at ‘lohi’, do not change this.
8. The time for the experiment including estimates for lock, shim and tune can be updated under the study queue under the study options drop down menu.



9. Click **[Submit]**. The instrument will tune first so a mechanical noise from this process may or may not occur. If the tuning is close, it might not. The instrument will then gradient shim and lock. Depending on the sample, the acquisition status may go to “LockFindRes”. If this happens, *wait*. The new system will normally still find a good lock though it may take a little longer.
10. Data can be loaded from the study queue by doubling clicking the experiment line or dragging and dropping this line into the viewing area (i.e. [1 min proton] line).
11. When experiment is finished replace the dummy D₂O sample, click the

[autolock] button in the upper tool bar or type **>autolock** at the command line (please note: this autolock *only* works on the dummy d2o sample), and click **[Switch Operator]** on the **Start->Study** page.