

## S Quick Sheets

### Proton 1-D

1. Login, open VNMRj.
2. Utilities→New Automation Run (first run of the day)
3. Start - > Study Menu
4. Insert new sample.
5. Select solvent, enter sample name, text, check plotting or not, check temperature. Be sure Find Z0 and Gradient Shim [2H gradient] are checked.
6. Pull Proton experiment into study queue. Double click exp. Time for Acquire parameters.
7. Acquire→Default H1 menu: change # of scans, relaxation delay, spectral width.
8. In command line, >su Tune proton (Channel 1) on the probe. (Carbon can also be tuned on Channel 2 now.) Attenuation ends at 9.
9. Check study length and click Submit. Wait for exp. to finish. Amount of time remaining shows in acq status window (blue bottom).
10. Spectrum will autoprocess and appear in the window. File will be autosaved in filename found under Acquire→Future actions menu.
11. Use side menu to adjust integrals, threshold, scale, expansion etc.
12. Replace sample with dummy D2O sample and run >autolock.
13. Log out of VNMRj Utilities→Exit VNMRj. Log out of account.

### Carbon 1-D

1. Start - > Study Menu. Select solvent, enter sample name, text, check plotting or not, temperature. Use Find Z0 and Gradient Shim [2H gradient] only if new sample.
2. Pull Carbon experiment into study queue. Double click the time for Acquire parameters.
3. Use Acquire→Default C13 menu: change spectral width (ppm), # of scans, relaxation delay, decoupling mode (default Decoupled +NOE).
4. In command line, >su Tune the carbon channel (or X-channel), Channel 2.
5. Check study length and click Submit. Wait for exp. to finish. Amount of time remaining shows in acq status window (blue bottom).
6. Spectrum will autoprocess and appear in the window. File will be autosaved in filename found under Acquire→Future actions menu.
7. Use side menu to adjust integrals, threshold, scale, expansion etc.
8. Replace sample with dummy D2O sample and run autolock.
9. Log out of VNMRj Utilities→Exit VNMRj. Log out of account.