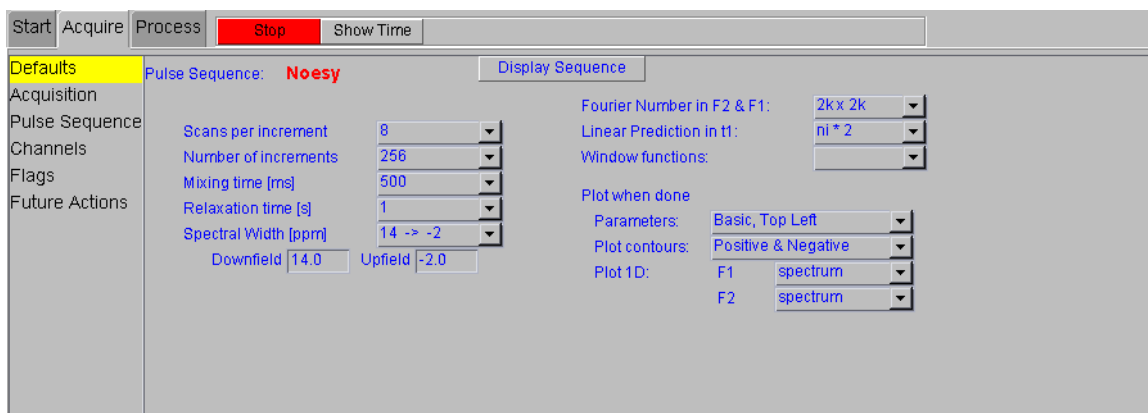
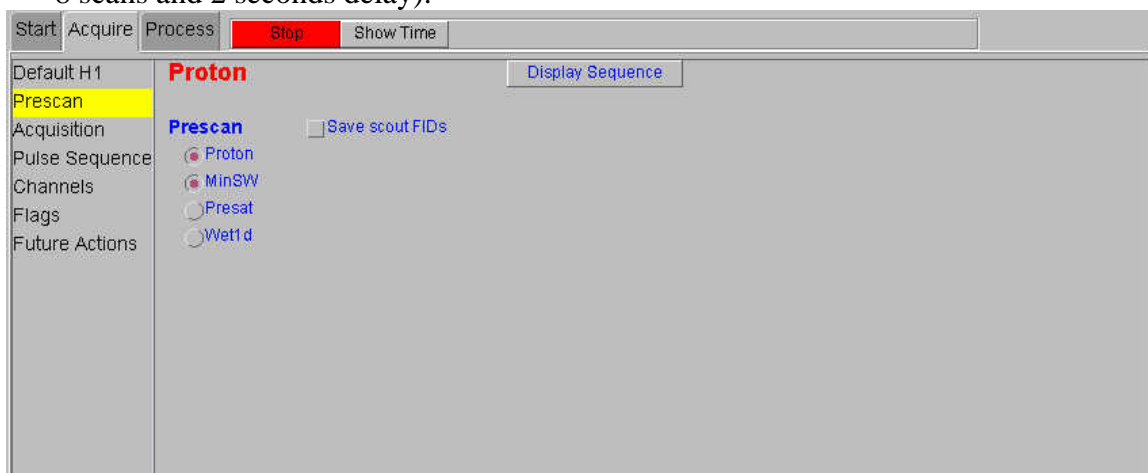


2-D NOESY spectra

1. Run a 1-D proton spectrum and be certain to tune the proton channel (Channel 1).
2. From the HOMO2D menu in the Study Q, select NOESY. In the study Q, a proton and a NOESY will be queued.
3. Double click the proton parameters. This loads the proton pulse sequence. In the **Acquire->Prescan** menu, turn off MinSW. Set the window from the **Acquire->Default** menu. Select the number of scans and the relaxation delay (suggested 8 scans and 2 seconds delay).



4. Double click the NOESY to load the NOESY parameters. Under the **Acquire->Defaults** menu, select the number of scans and the number of increments. Suggested values 4 or 8 scans, 200 or 256 increments. For less concentrated samples increase the number of scans. Increasing the number of scans or increments can greatly increase the experiment length. Be sure to update the experiment time before submitting the study. NOESY spectra typically require more than time than COSY or TOCSY, typical 1 hr. plus.
5. In the **Acquire->Defaults** menu, select the NOESY mixing time. Suggested value for mix time: 500 ms.

6. NOESY spectra for a small molecule have cross peaks that are opposite phase to the diagonal peaks.