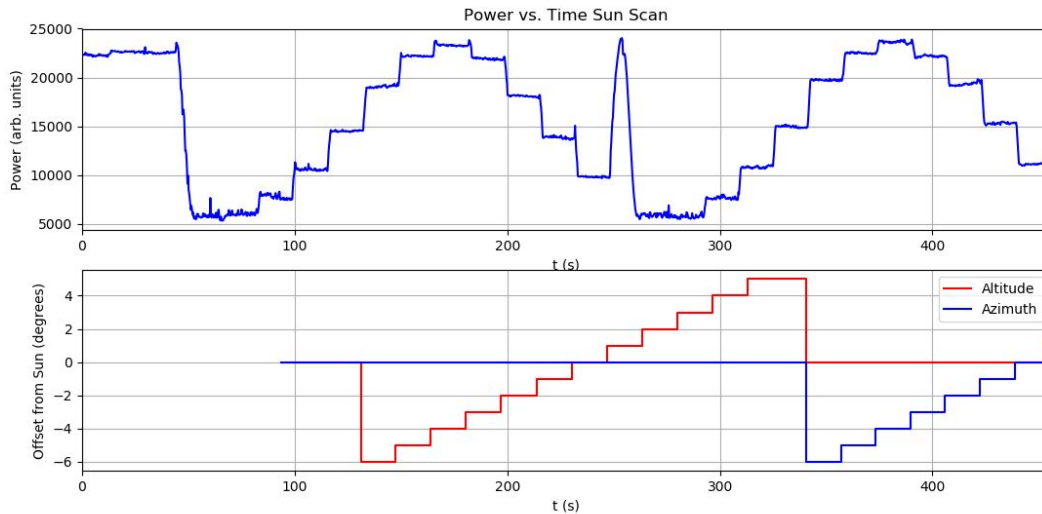
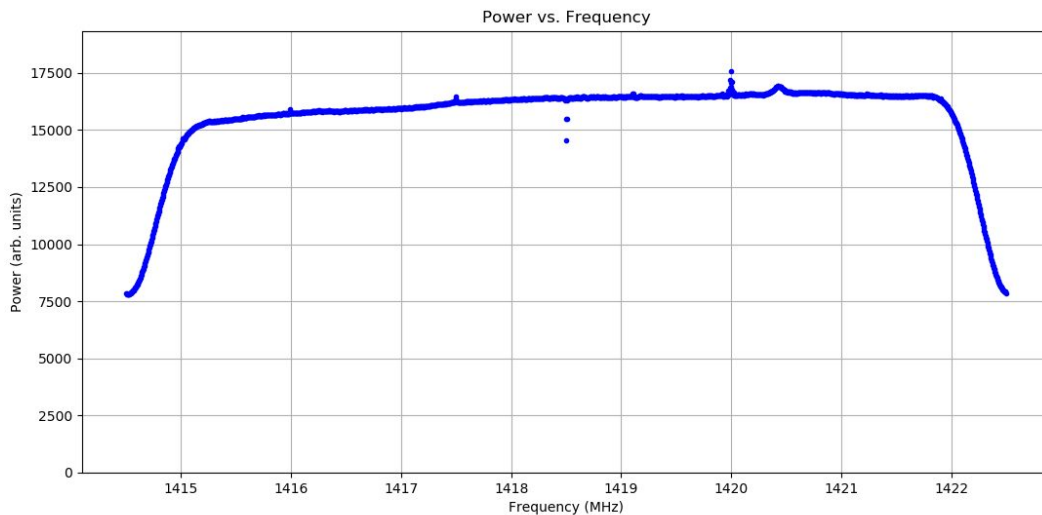


21 cm Lab Interim Report

So far as a group, we have managed to log into the satellite dish control computer remotely and run the sun scan. What this 15 minute scan does is calibrates the system's pointing system, since the sun acts as a broadband radio point source. The data we obtained from this scan is plotted as:



Looking at this plot, we see a sudden spike at $t = 255$ seconds. This is where the dish crossed the sun's radio waves. We know that the dish's positioning is properly calibrated, since this spike coincides with the same exact time that the dish sported a 0 degree offset in both Altitude and Azimuth.



The second plot shows Power vs. Frequency. As noted in the manual, we see the 21cm line from the rest of the Milky Way Galaxy at 1421 MHz.

We then set the drift scan into motion. The process since completed successfully, but we have yet to interpret the data acquired (meeting tomorrow, 2/21).