

Minutes:

RSL10: We were trying to build custom protocol for Hydrowatch, but have stopped for now to focus on SPI. We need to decide if we want a custom one or just use a UART. SPI is not well documented for RSL10, so we have contacted tech support. They were not super helpful, they mainly recommended other drivers. We will keep working on the SPI

LED and Photodiodes: We are going to solder LEDs before break. The surface mounted photodiodes worked, we setup, tested, and ran simulations, we tested the setup on a cuvette with different LEDs. This showed that different LEDs produced different current output. We need to talk with O'Sullivan to see why our differences in deuterium aren't more apparent. Better setup with surface mounted LEDs should help.

RSL10 Schematic: The schematic was not ordered yet, we will need to fix antenna. We can work with Dr. Fay? Move the antenna closer?

AFE board: The AFE is working with LCD to display register values and converted voltages from photodiode. This shows the pulse ox clip is working and it shows a difference when being tested on finger and when empty

Our goal for the final setup is to have MATLAB connected to a terminal, act as a COM port, and echo data back into the terminal.