

General Update

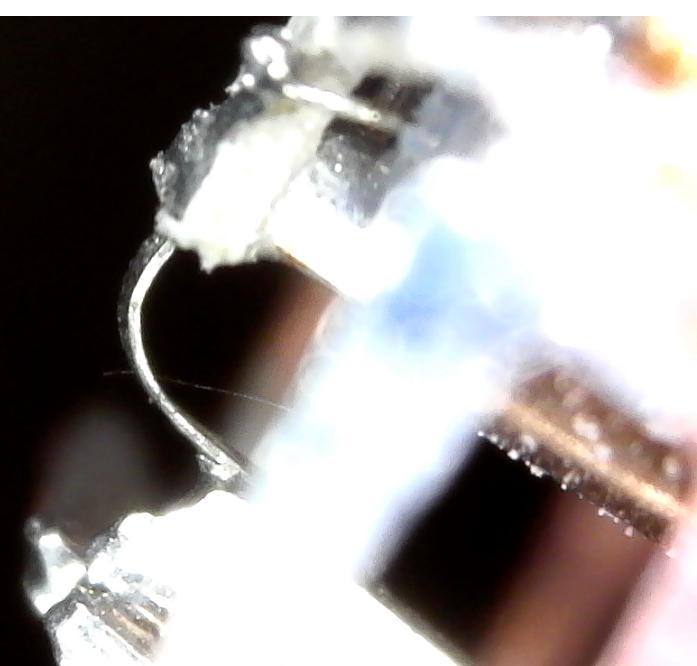
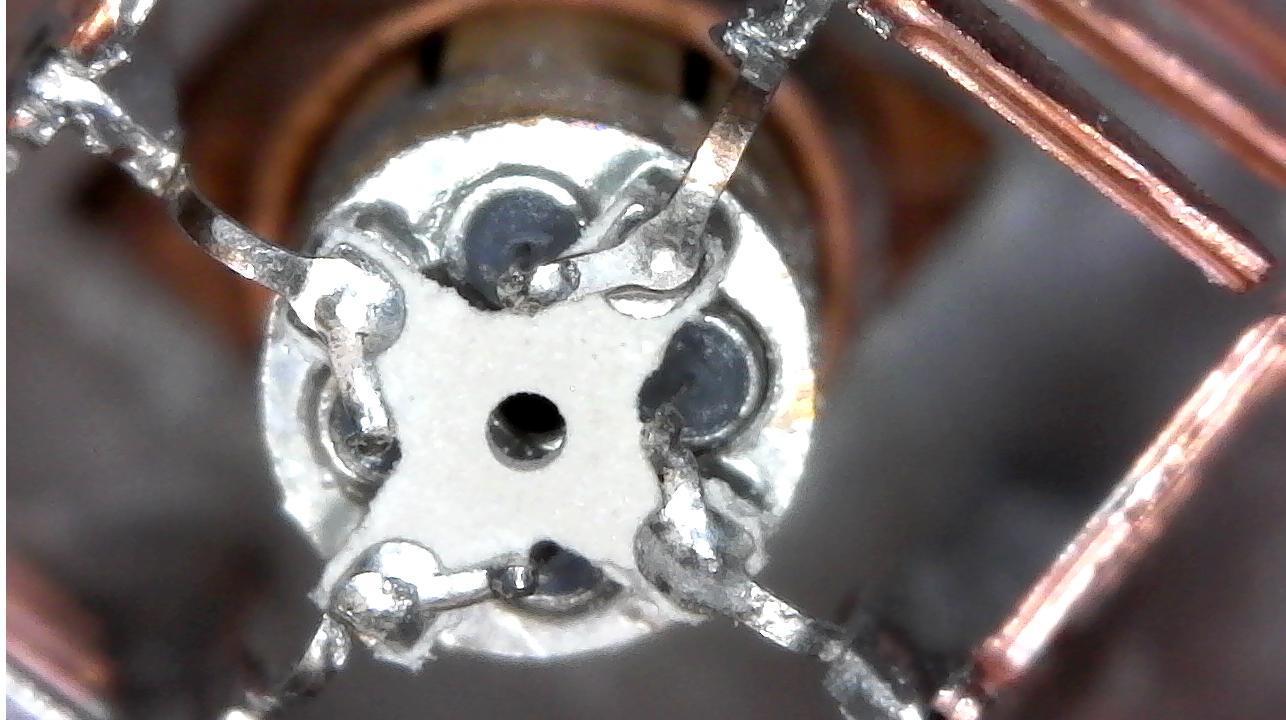
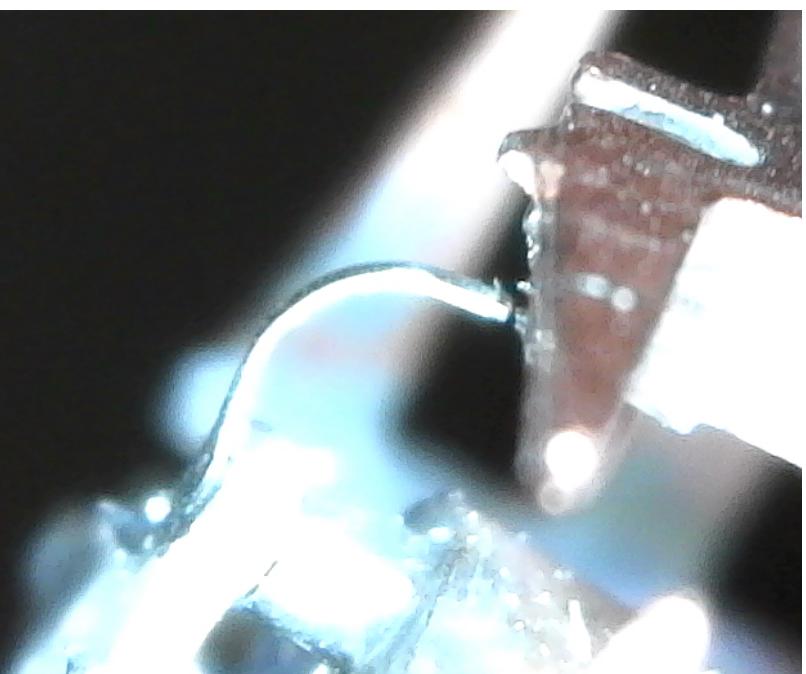
- SPR
 - Network changes
 - IPMI, domain setup
 - SNAPS
 - Verification and testing of gateware (together with hashpipe implementation)
- ATA signal chain verification
 - Investigating 60Hz in 2H
 - Solved!
 - Power drop investigation ISM 902-928MHz
 - Called PG&E nothing new yet!
 - Further work in localization
- Feed Firmware
 - Testing firmware 5.4 on one feed in the field (2H), bugs found and already new firmware version available
- Observation
 - Developing capture code for voltage stream design (dada / hashpipe)

Antonio Feed update

- Transport two log-periodic feeds (2H and 1H) to Minex for repair (last Thursday Friday).
- 3C – replacement of pyramid with new tip-link and modified, preconditioned coaxial wiring.
 - Gold plating
 - LNA to Tip coaxial assembly
 - Inner feed assembly
 - Tip-link assembly
 - Transport to HCRO
 - Installation into feed base, update of firmware
 - Initial testing / installation on antenna/ TSYS
- 4J – replacement of base plate and pyramid with new tip-link and modified, preconditioned coaxial wiring.
 - Replace base plate (HCRO)
 - Gold plating
 - LNA to Tip coaxial assembly
 - Inner feed assembly
 - Tip-link assembly
 - Transport to HCRO

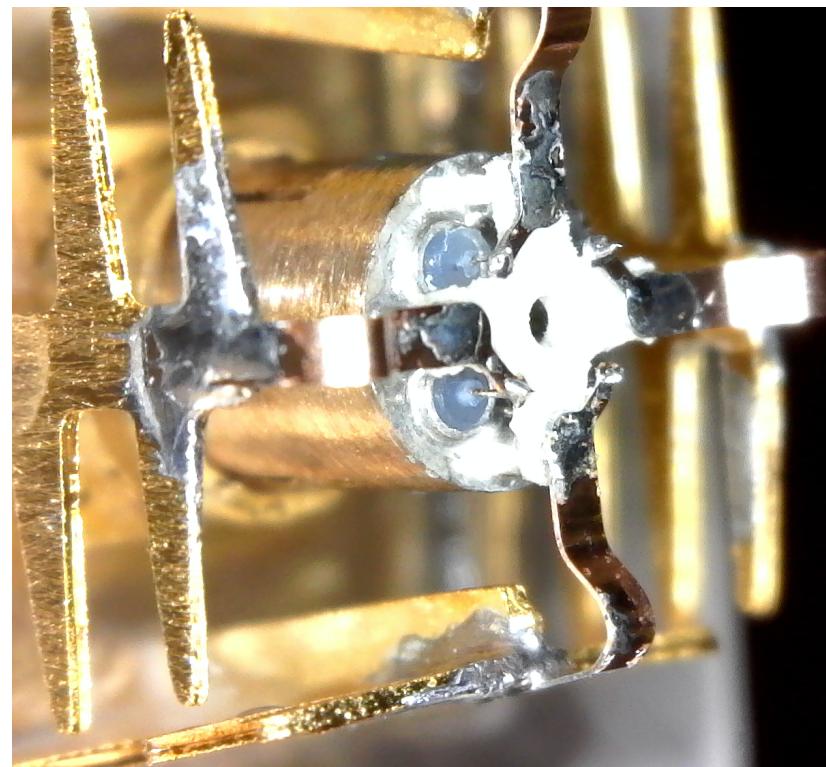
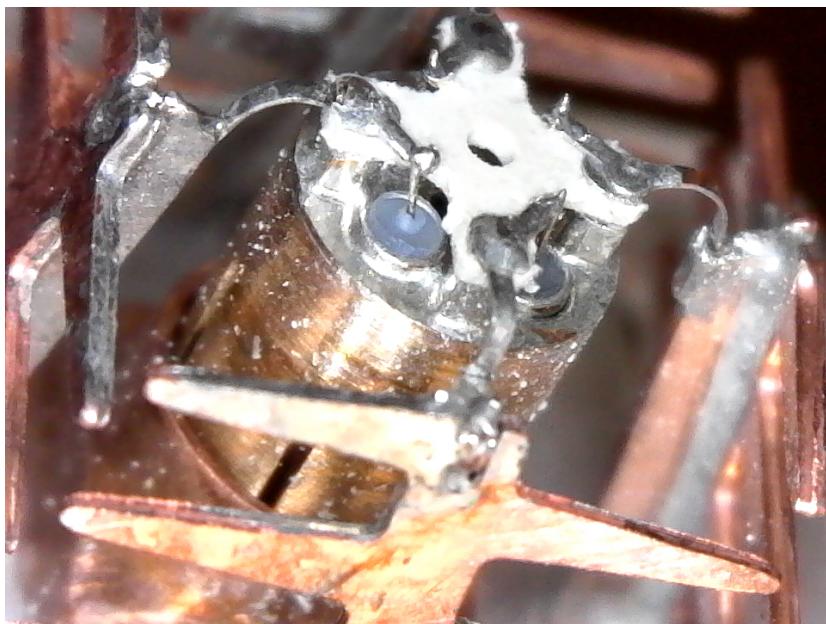
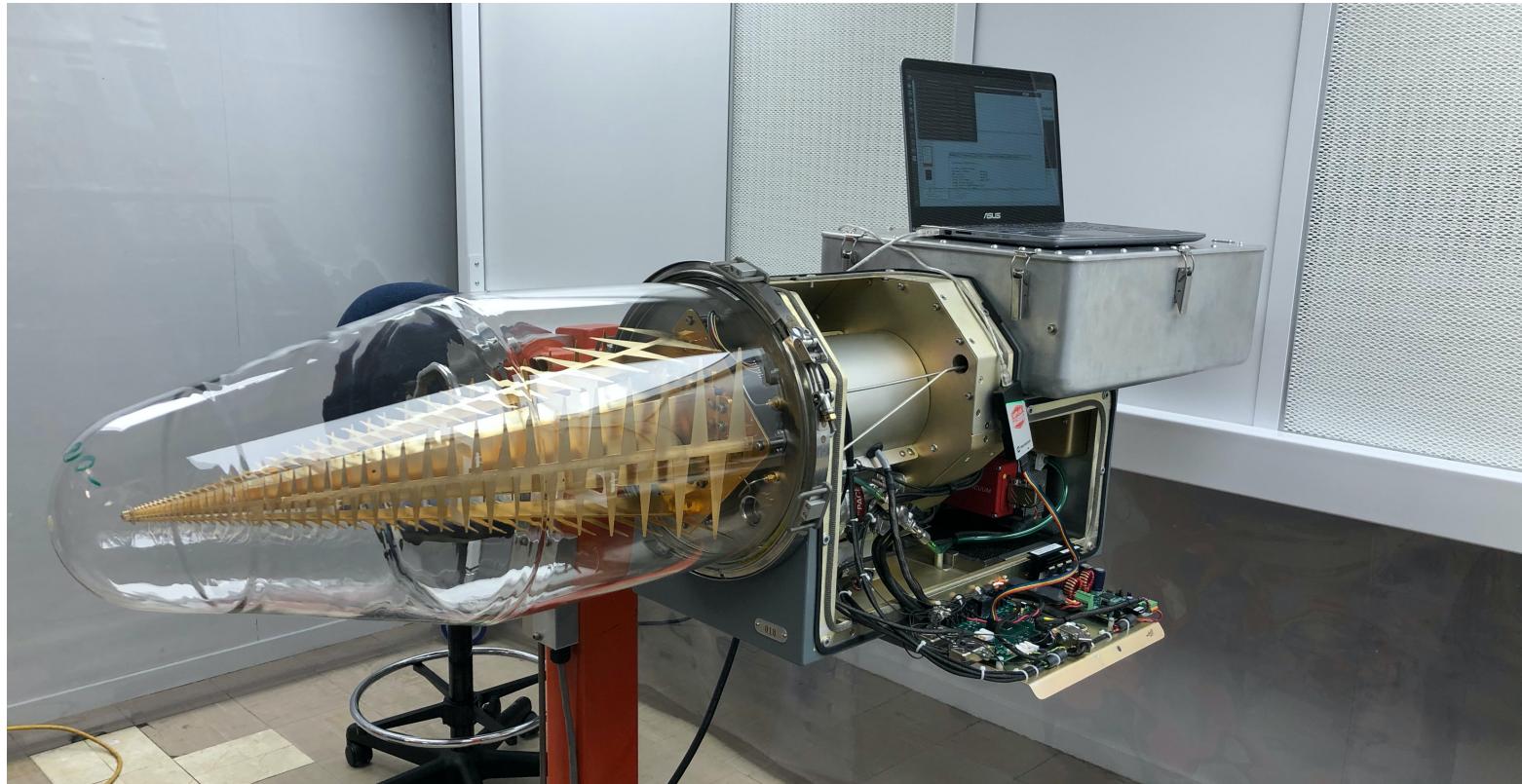
60Hz investigation 2H

- Investigated log-periodic feed!
- Looked at solder connection of coaxial cable.
- Broken tip-link found!

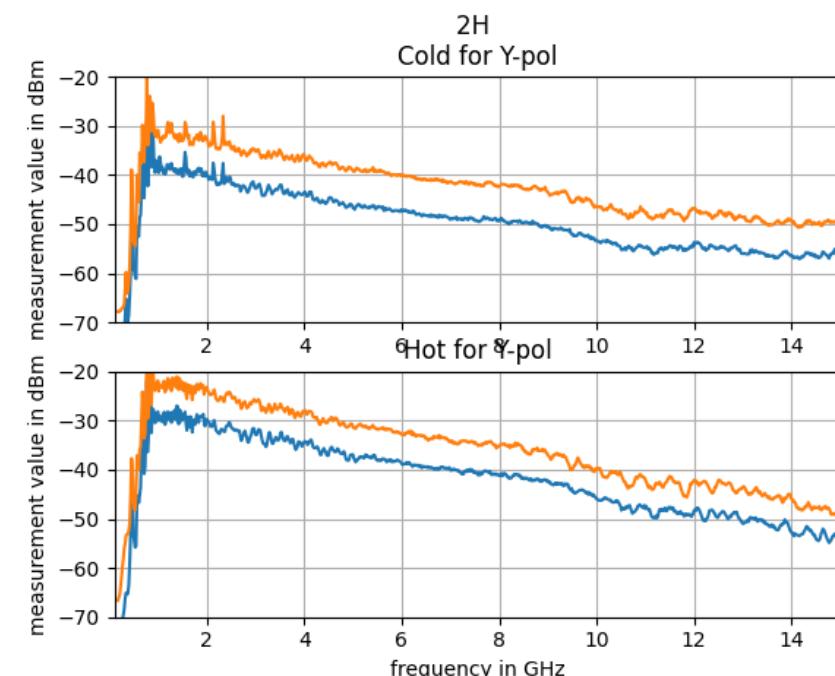
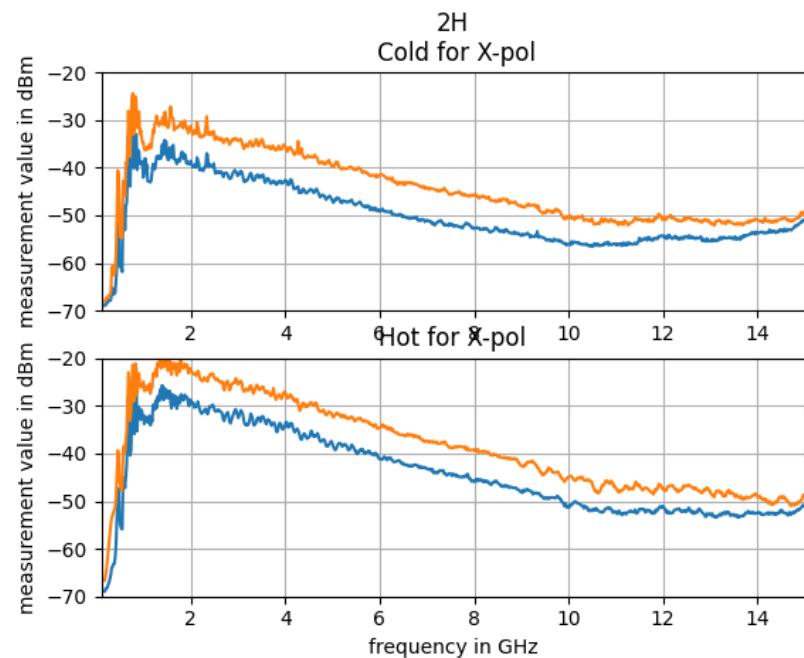
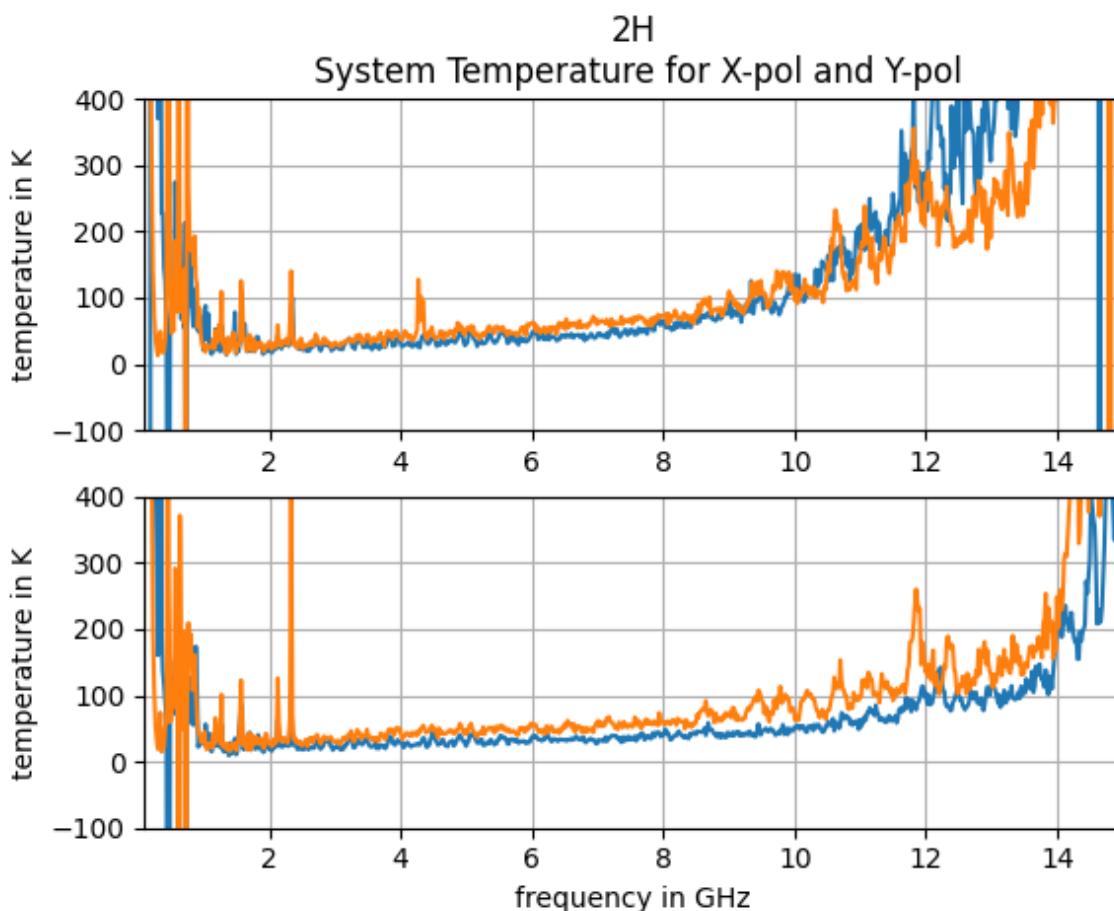
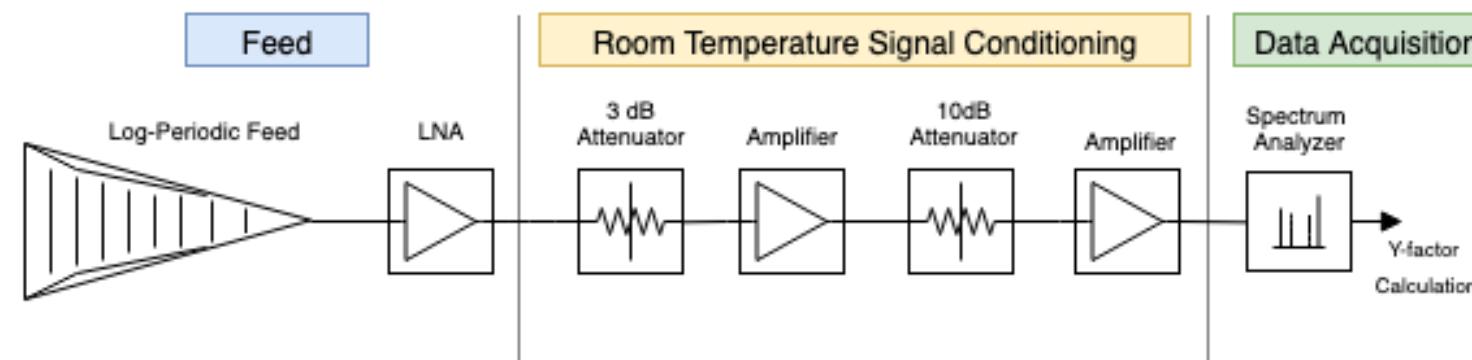


Retrofitted Antonio Feed Installed at Antenna 2H

- New Wiring Harness
- Tuned Cryocooler / Bellows Removed
- Feed Firmware 5.4
- New Tip-Link R03
- Gold-Plated Log-Periodic Feed
- New Coaxial-LNA Module not Required



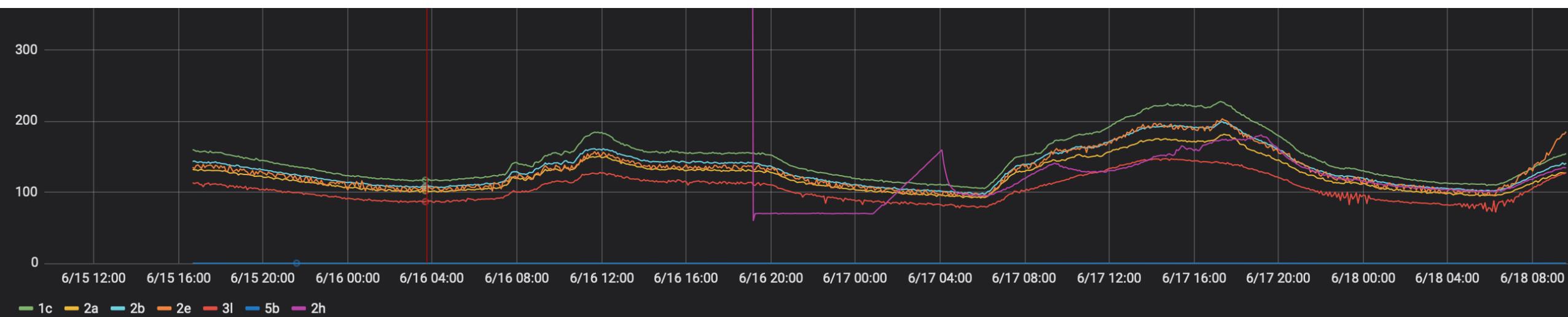
Frequency Resolved Tsys Measurement Antonio Feed 018 (2H)



Thermal Data of Antonio Feed 018 (2H)

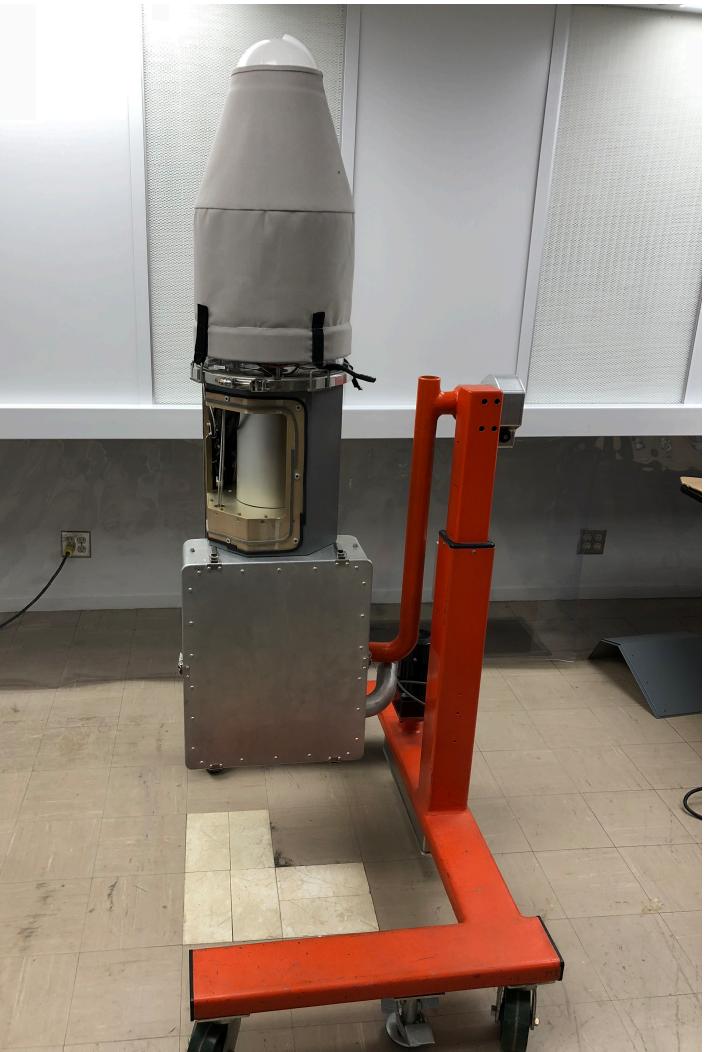
- We will need more time to see the actual thermal performance of the feed and correlate it with the other temperature sensors.
- We need to make sure that the antennas which we use to compare the thermal performance are pointing in the same direction.

Cryo-Cooler Power Consumption



Parts from Minex

- Feed Trolley
- Wiring Harness Parts
- Crimping Tools
- Spare Diaphragm Pumps and Feed Control Boards



Sunbrella

- 2-3 are replaced every year
- Coated with water resistant spray
- Manufactured in Burney
- Cost per Sunbrella \$2k

