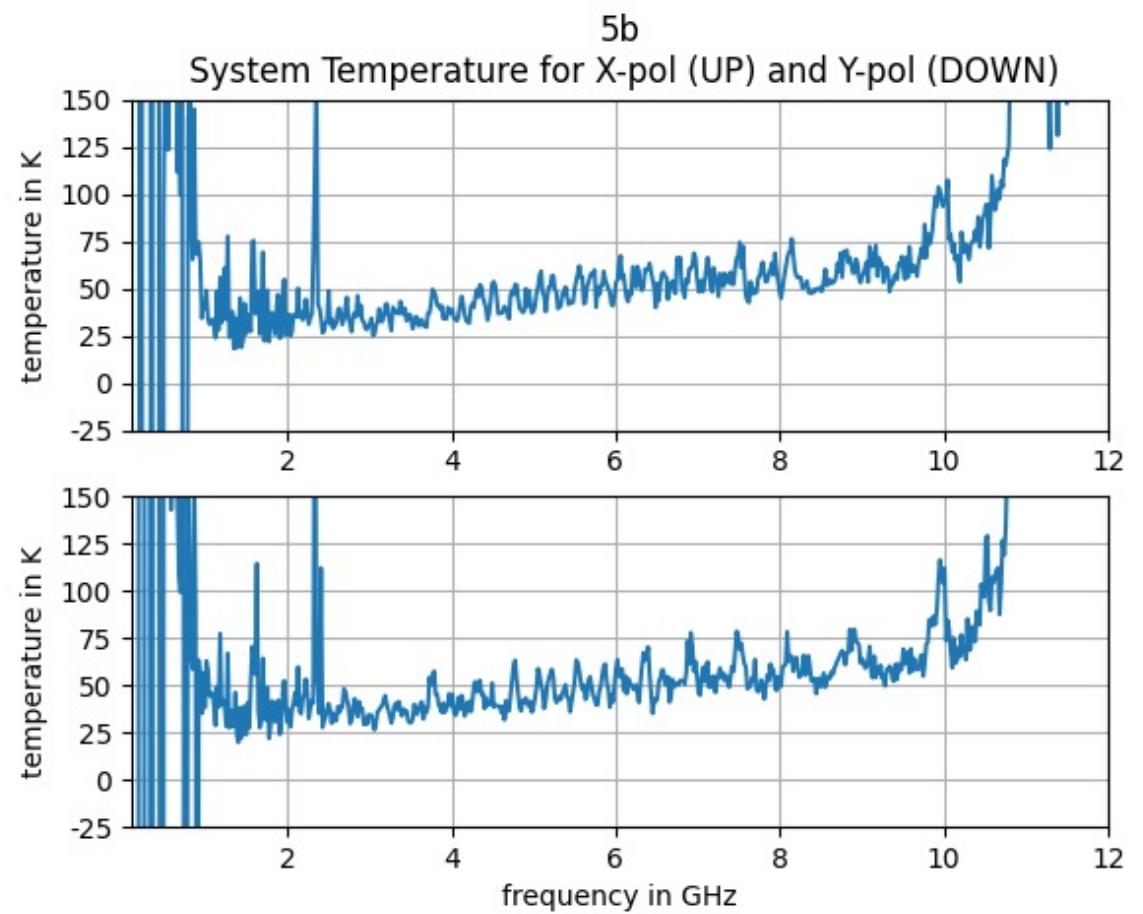


General Update

- SPR
 - Engineering downtime
 - [Configure redundant FW \(Tomorrow\)](#)
 - AC replacement
- Other
 - [Working on component groups for Attemplifier and RFSoC enclosure.](#)
 - [Antenna retrofit for Antonio feeds.](#)
 - [Antenna control box retrofit](#)
 - [Build up of feed 002 with new dome](#)
- Design work:
 - Weather station data connection and power supply
- Antonio Feed
 - Need to investigate feed 016 LNAs
 - Update feed firmware with longer vacuum times
 - Install new pyramids in feeds:
 - Test vacuum (24h)
 - Install on antenna and cool down(24h)
 - Tsys measurement with absorber

Feed 016:

- Installed on antenna 5B
- Hot-Cold via fiber link and spectrum analyzer



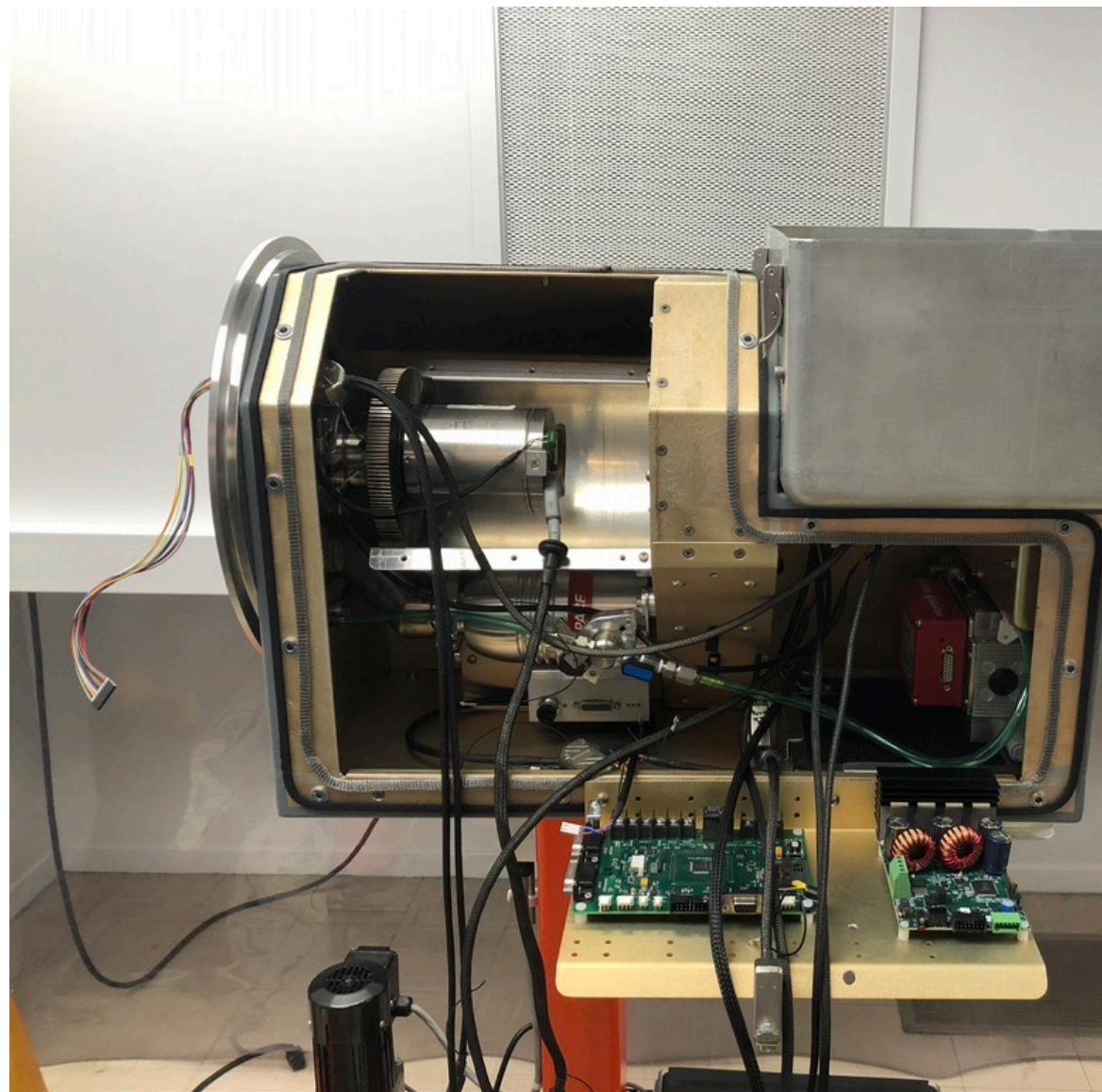
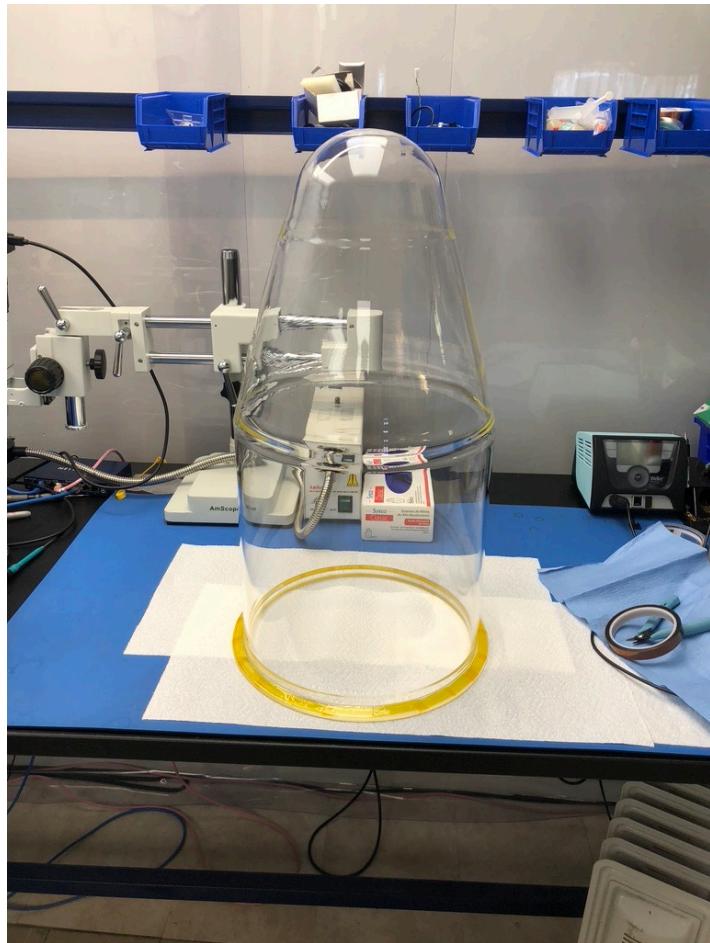
Feed 002:

- Buildup with new glass dome



Feed 002:

- Buildup with new glass dome



Feed 002:

- Buildup with new glass dome
- Vacuum OK so far, still needs more time.



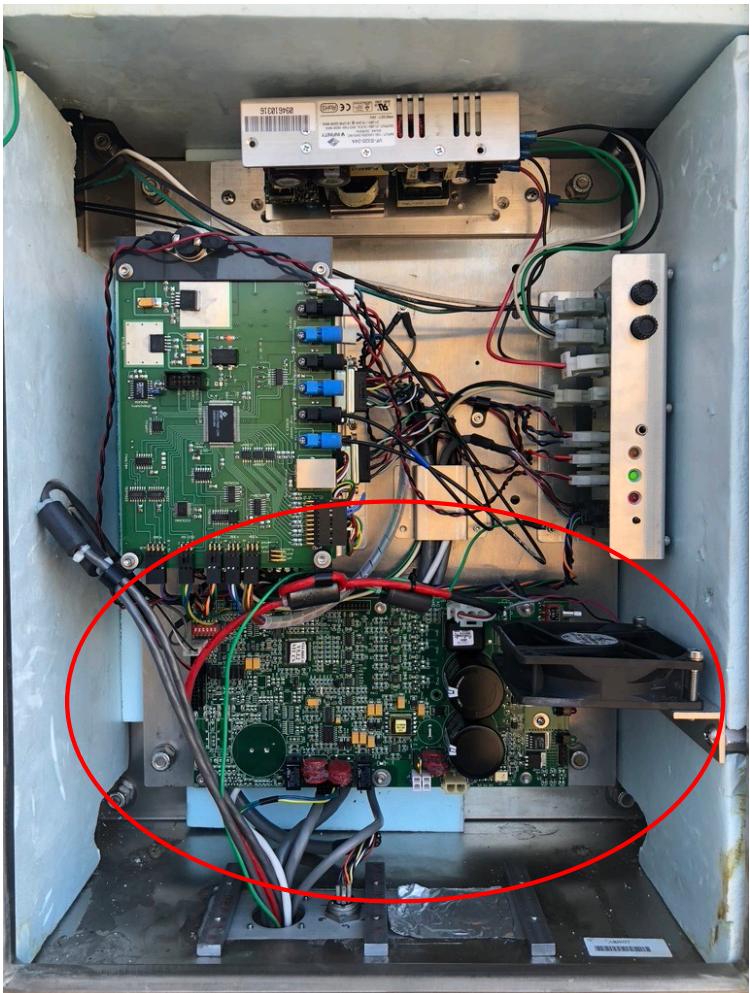
Antenna retrofit:

- 19 antennas currently can house Antonio feeds (one cable missing)
- Currently getting design and part list together to retrofit additional antennas. **DONE**

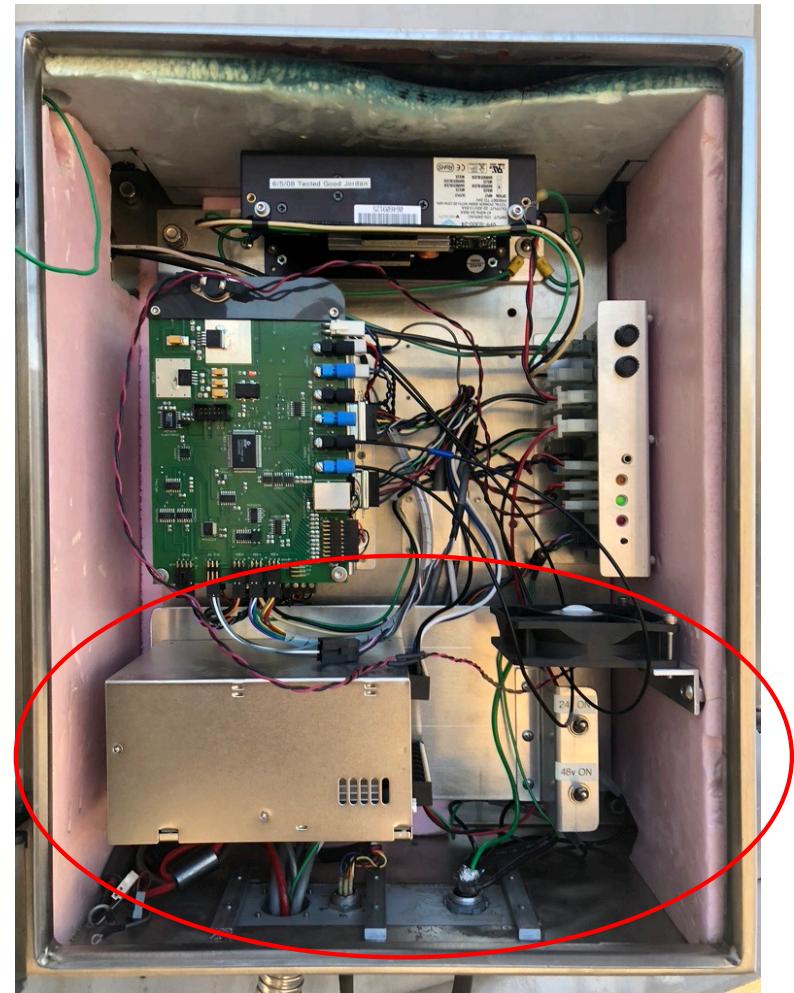
Antennas		
Ant	Feed Version	Feed installed
<u>1A</u>	V1	YES
<u>1B</u>	V1	-
<u>1C</u>	V2	YES
<u>1D</u>	V1	-
<u>1E</u>	V2	-
<u>1F</u>	V1	YES
<u>1G</u>	V2	-
<u>1H</u>	V2	YES
<u>1J</u>	V1	-
<u>1K</u>	V2	YES
<u>2A</u>	V2	YES
<u>2B</u>	V2	YES
<u>2C</u>	V2	-
<u>2D</u>	V1	-
<u>2E</u>	V2	YES
<u>2F</u>	V1	-
<u>2G</u>	V1	-
<u>2H</u>	V2	YES
<u>2J</u>	V2	YES
<u>2K</u>	V2	-
<u>2L</u>	V2	-
<u>2M</u>	V2	YES
<u>3C</u>	V2	YES
<u>3D</u>	V2	-
<u>3E</u>	V1	-
<u>3F</u>	-	-
<u>3G</u>	-	-
<u>3H</u>	-	-
<u>3J</u>	V1	-
<u>3L</u>	V2	YES
<u>4E</u>	V1	-
<u>4F</u>	V1	-
<u>4G</u>	V1	YES
<u>4H</u>	V1	-
<u>4J</u>	V2	YES
<u>4K</u>	V1	-
<u>4L</u>	V1	-
<u>5B</u>	V2	-
<u>5C</u>	V1	YES
<u>5E</u>	V1	-
<u>5G</u>	V1	-
<u>5H</u>	V1	-

Antenna retrofit:

Before

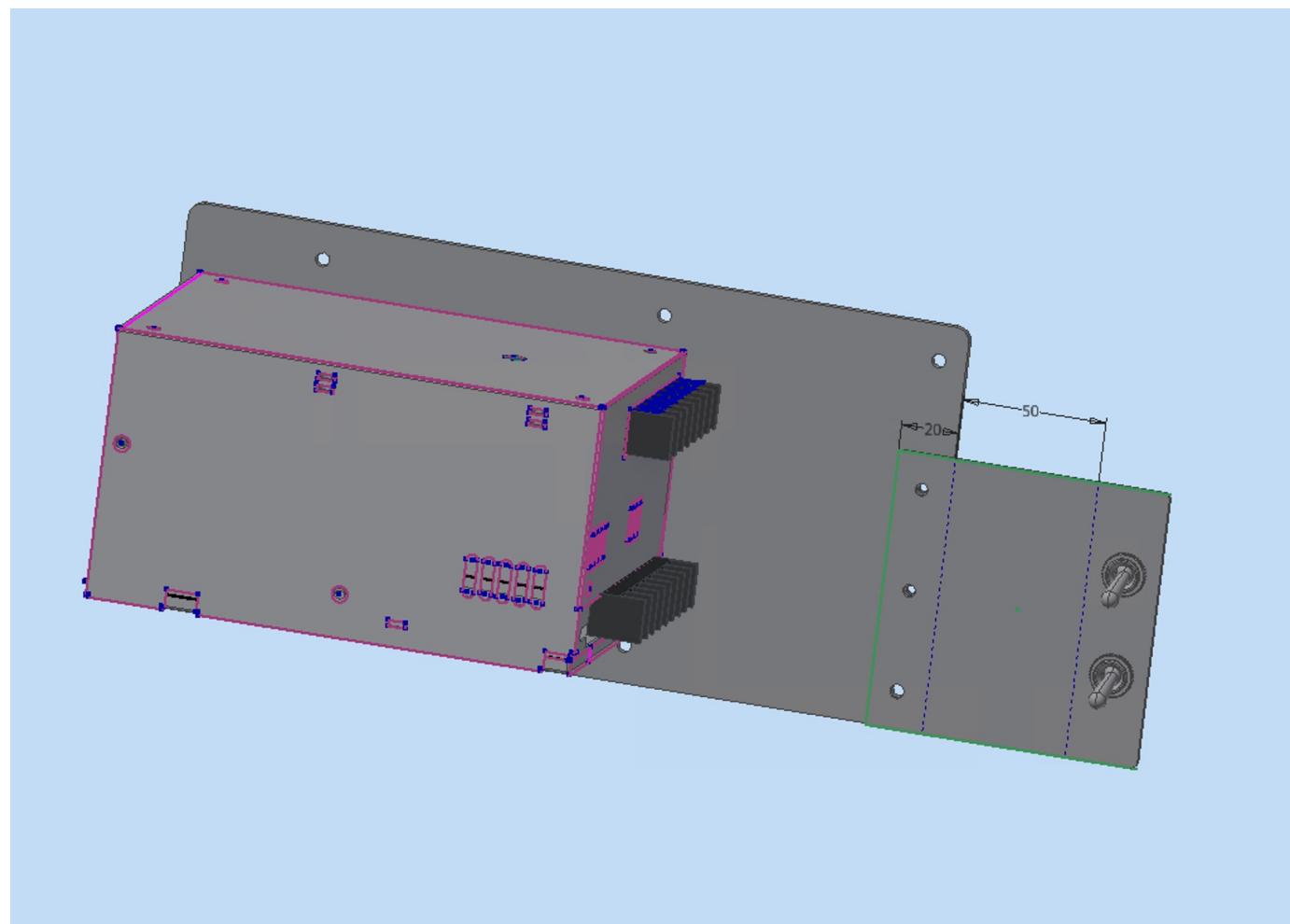


After

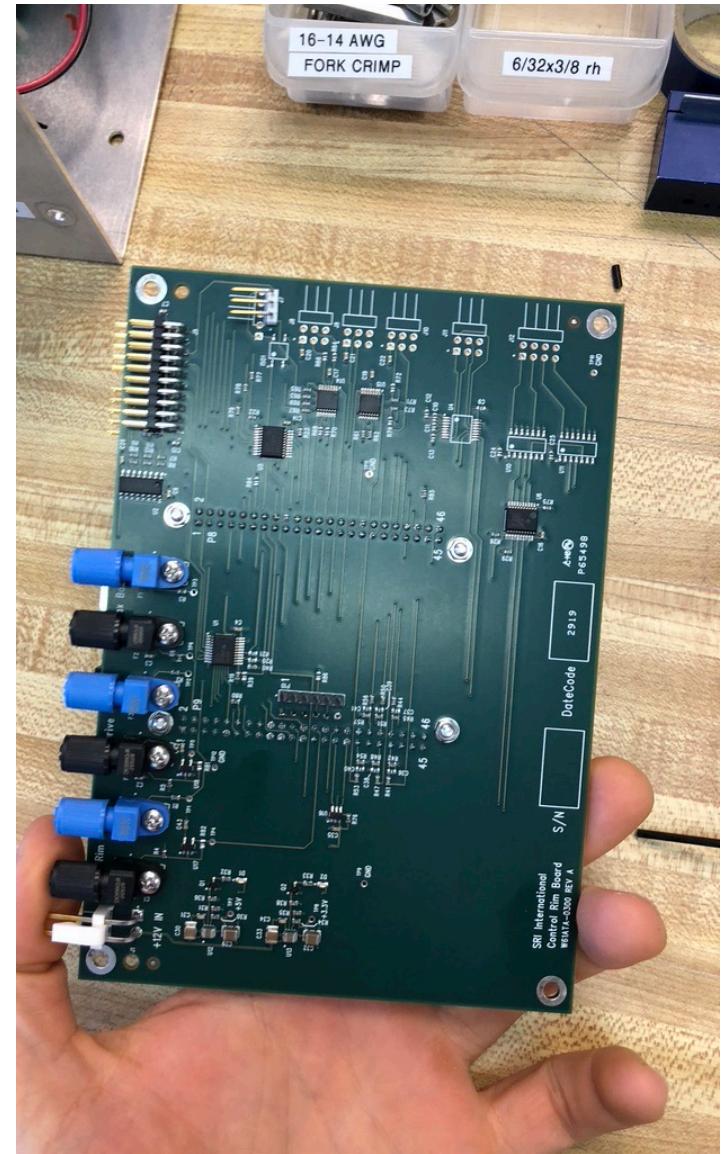
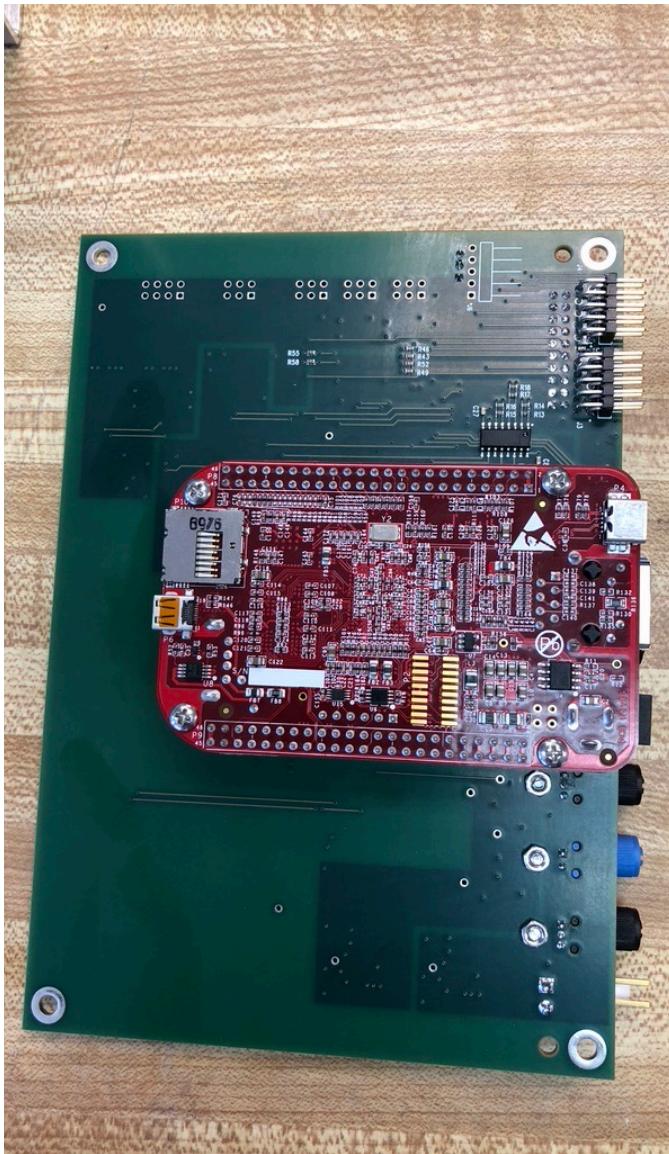


Antenna retrofit:

- Sarah made the CAD design
- Will order test parts via Front Panel Express next week



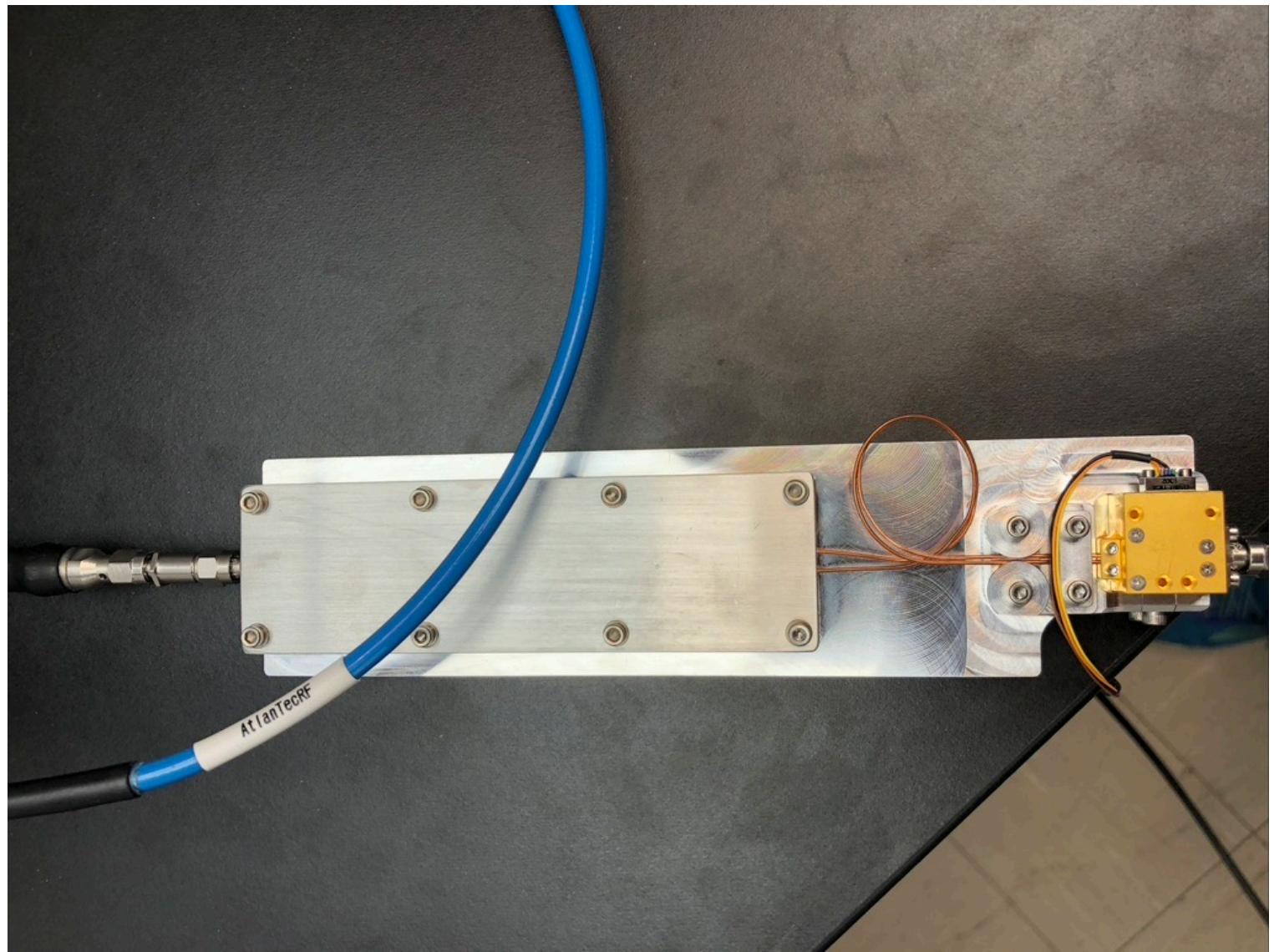
Antenna control box retrofit:



Antenna control box retrofit:

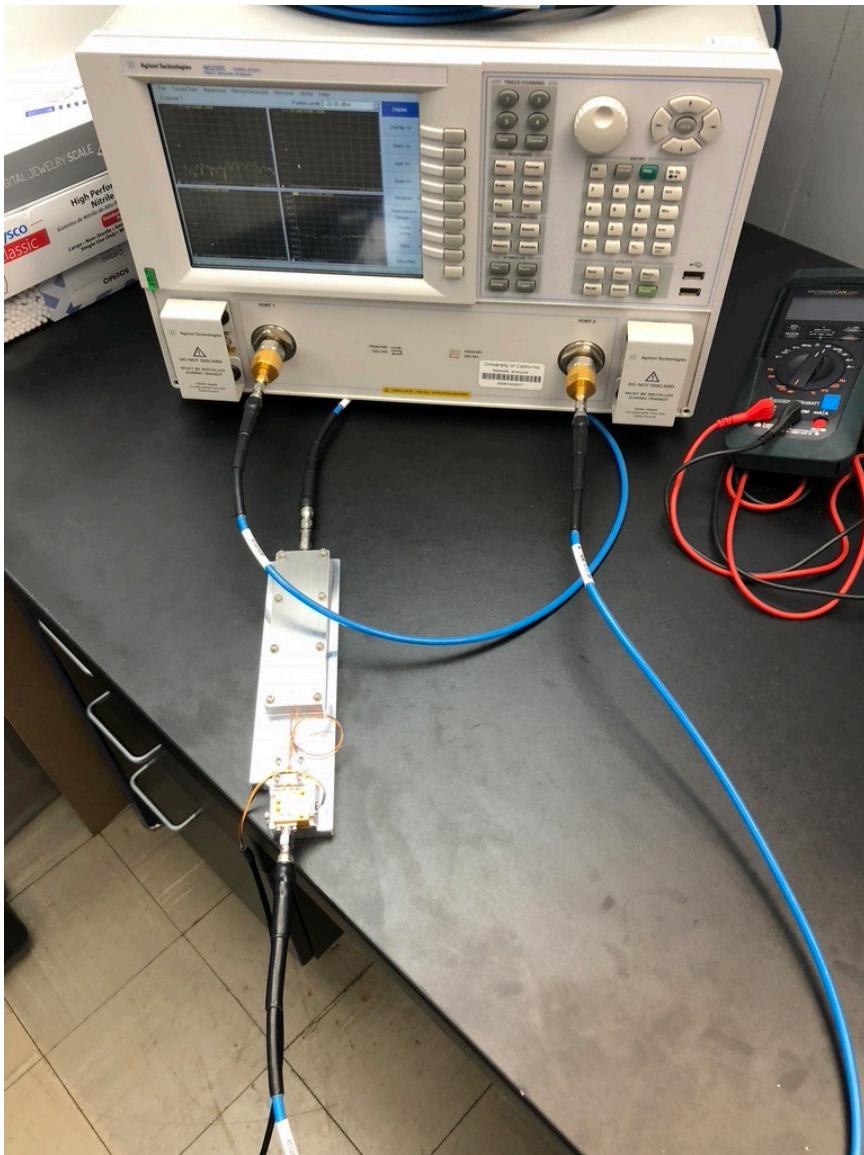
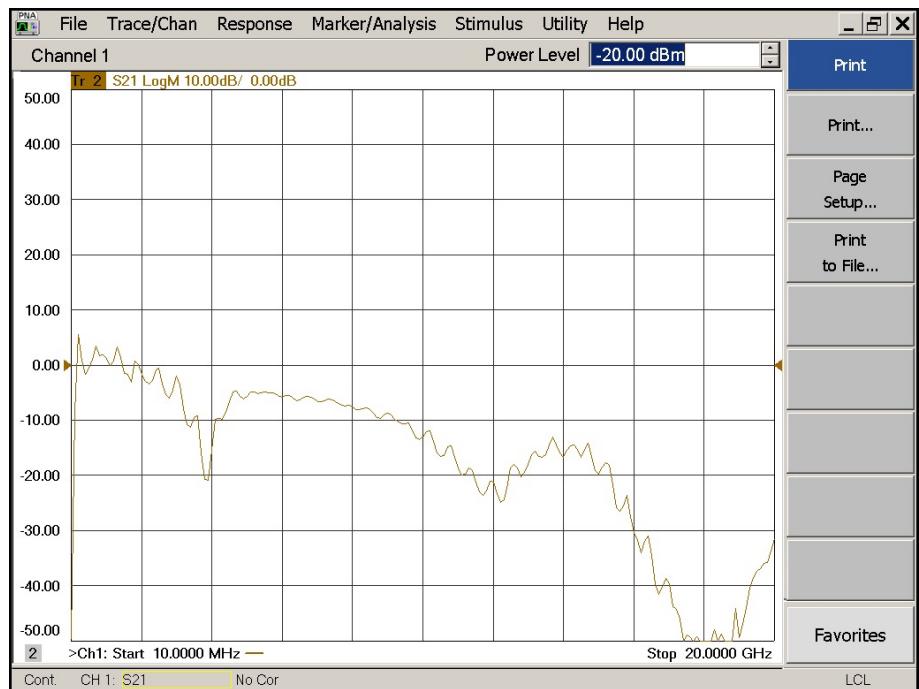


LNA test setup:

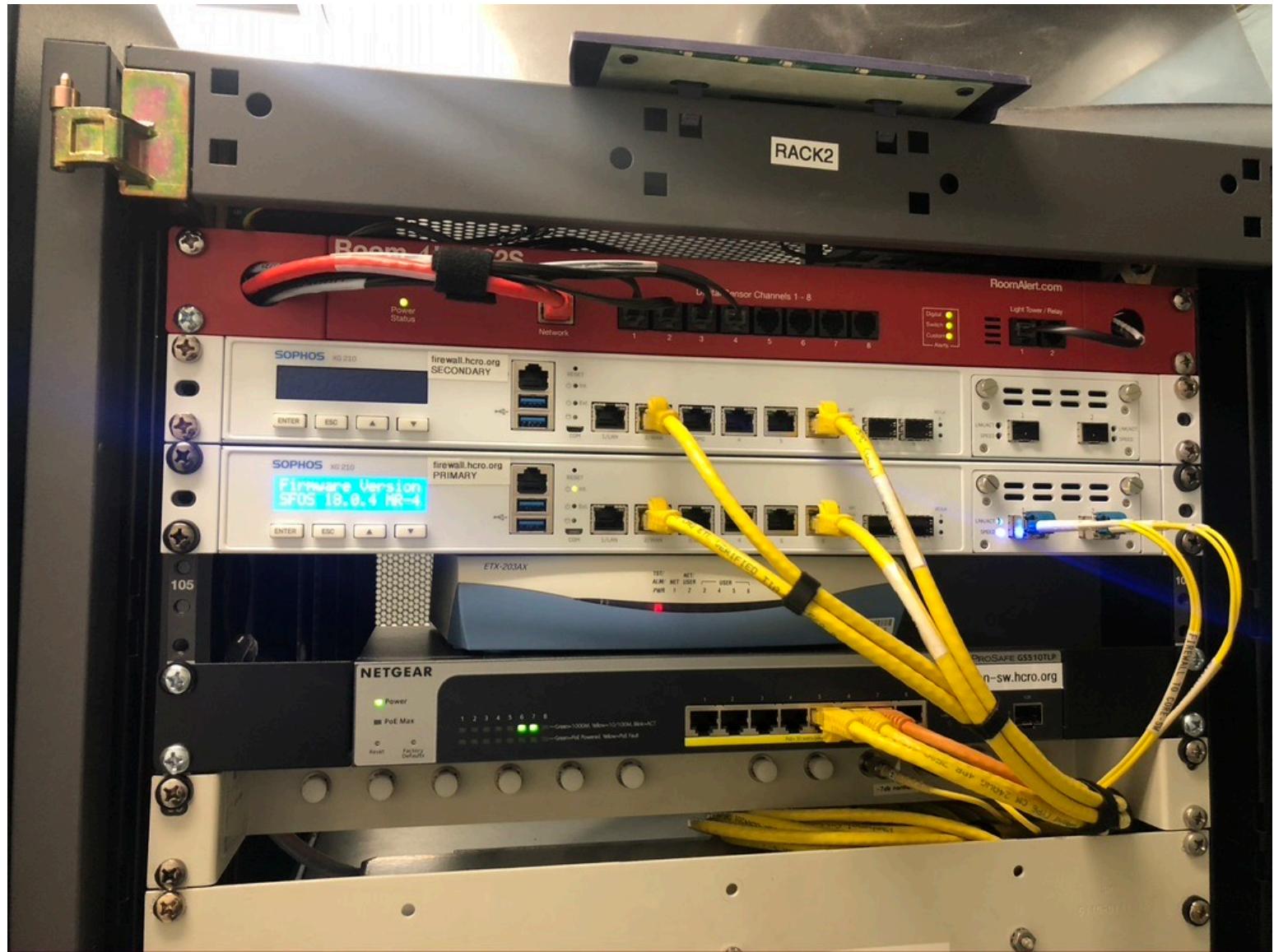


LNA test setup:

- Connected to VNA via 30dB attenuator
- Input power total -50dBm



Down Time:



Planned Maintenance on FEEDS:

- 3C feed 020
 - Test vacuum system
- feed 016
 - Test LNAs
- Assembly of new Antonio Feeds:
 - Test vacuum (24h)
 - Install on antenna and cool down(24h)
 - Tsys measurement with absorber