**Minex Hot/Cold Feed Test Procedure**

1. Setup
   1. Place the feed at a location that allows to point at the sky without any blockage within the approximately 15 deg beam.
   2. Without the PAX amplifiers: use two AOX amplifiers. Supply the amplifiers with a linear 5V power supply (has been ordered too).
   3. Connect the FieldFox and check for:
      1. Correct power level
      2. RFI (EMI)
      3. Dynamic range
2. Measurement
   1. Both measurements for hot and hold should be taken directly one after the other.
   2. Write down the weather conditions: blue, cloudy, rainy…
   3. Measure and write down the absorber temperature.
   4. Take data for cold measurement, average for 5 to 20 seconds.
   5. Take data for hot measurement, average for 5 to 20 seconds.
   6. Then repeat procedure for other polarization.
3. Calculate feed temperature
   1. Use both measurements to calculate the Y-factor
   2. Use the measured absorber temperature and estimate the sky temperature to calculate the feed temperature. Both measurements must be in Kelvin.(Blue ≈ 10K, Cloudy ≈ 15K - 20K)
   3. Plot the feed temperature over the frequency band.