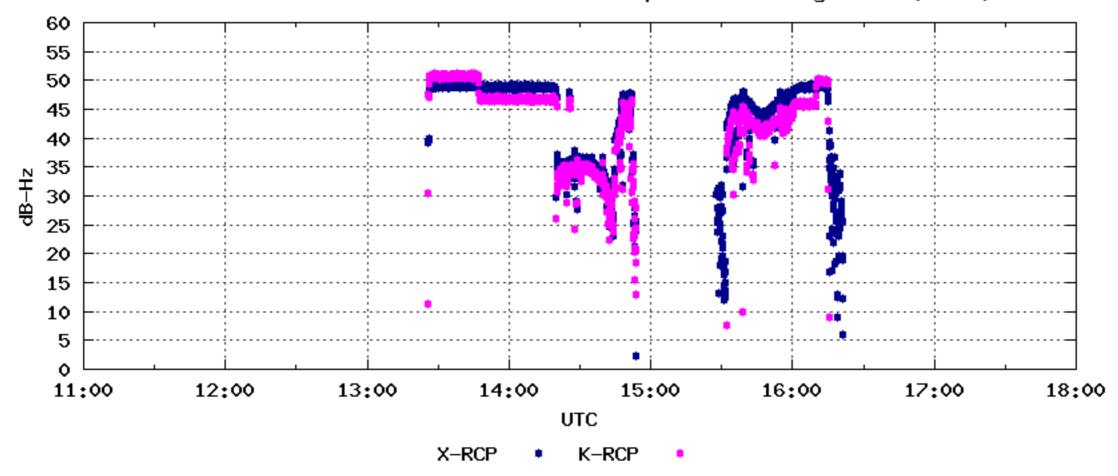
Spacecraft: Cassini

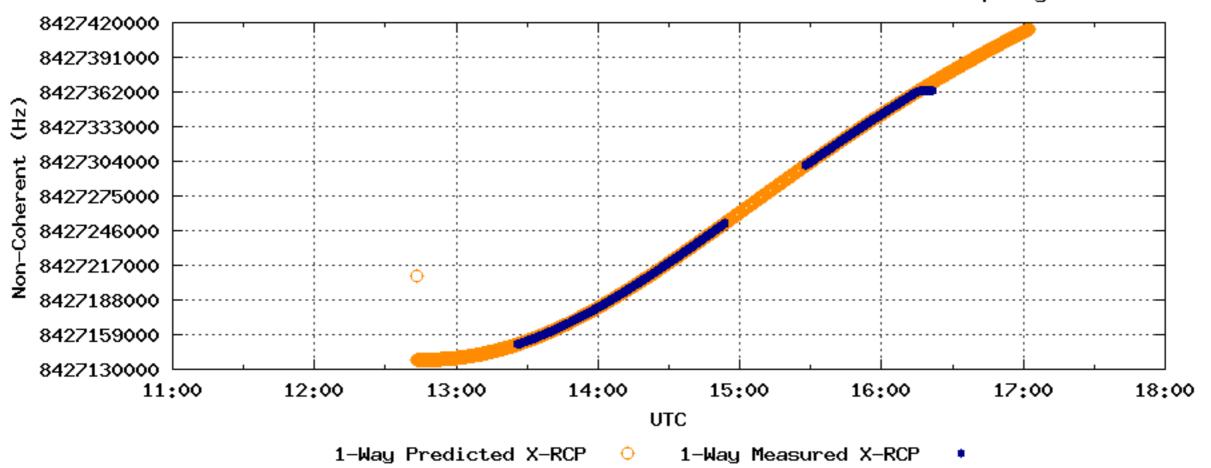
DSS: 26

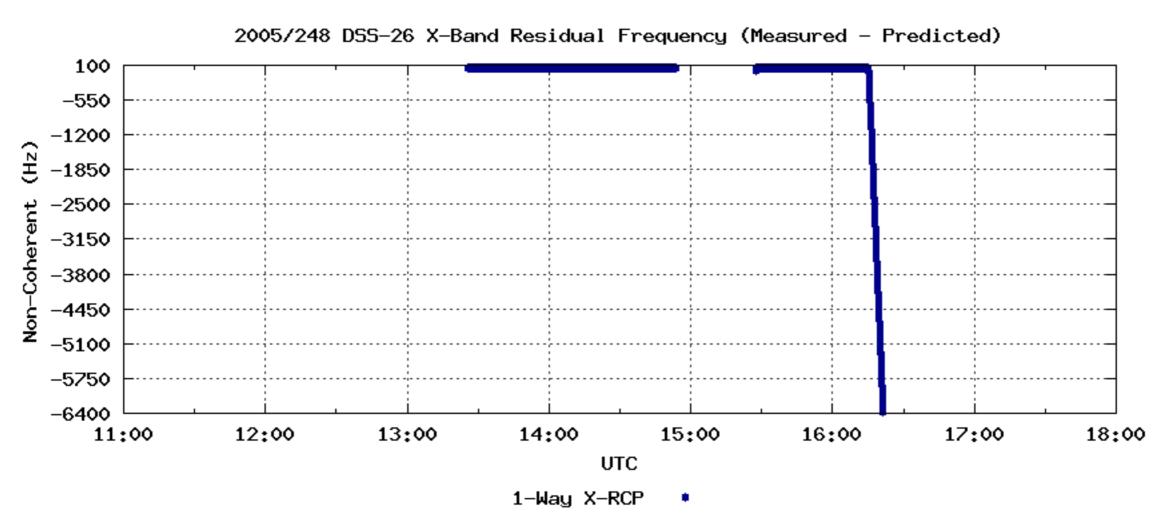
Monitor File: S14SROI2005\_248\_1106\_26\_MON.ecsv APPLICABLE\_START\_TIME = 2005-248T11:06:28.697; APPLICABLE\_STOP\_TIME = 2005-248T17:31:20.573; 60 minutes omitted from beginning of file 5 minutes omitted from end of file

- 02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency
- 03. X-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 04. Ka-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 05. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power
- 06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature
- 07. Carrier Loop Tracking Bandwidth
- 08. Azimuth & Elevation
- 09. Conscan Drive Status
- 10. Azimuth & Elevation Monopulse Corrections
- 11. Azimuth & Elevation Residuals
- 12. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 13. Elevation & Azimuth, Elevation & Azimuth Corrections, and Wind Speed and Direction
- 14. Index

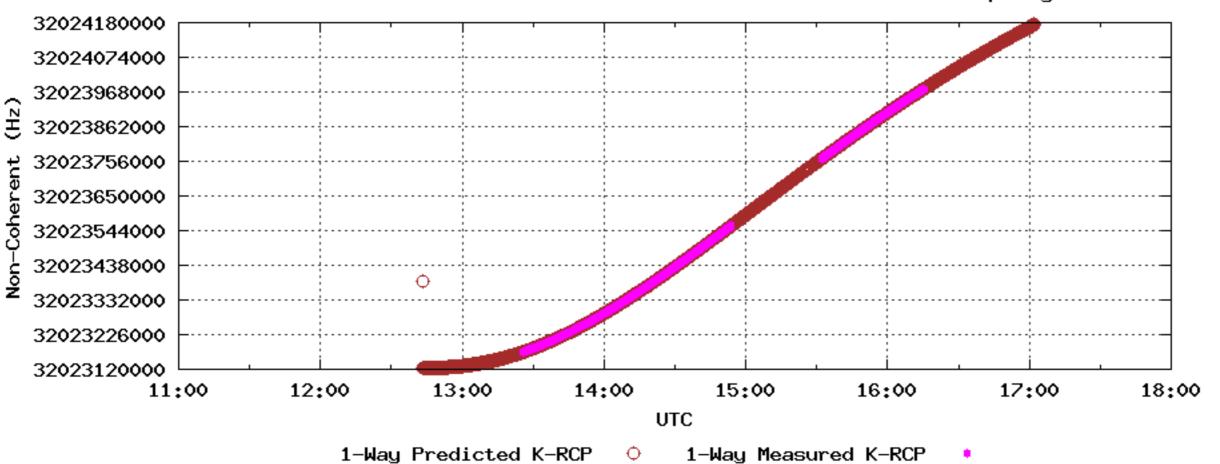


2005/248 DSS-26 Carrier Frequency Residual (Measured - Predicted) 1000 200 -600 (Hz) -1400 Non-Coherent -2200 -3000 -3800 -4600 -5400 -6200 -7000 12:00 18:00 11:00 13:00 14:00 15:00 16:00 17:00 UTC 1-Way X-RCP 1-Way K-RCP

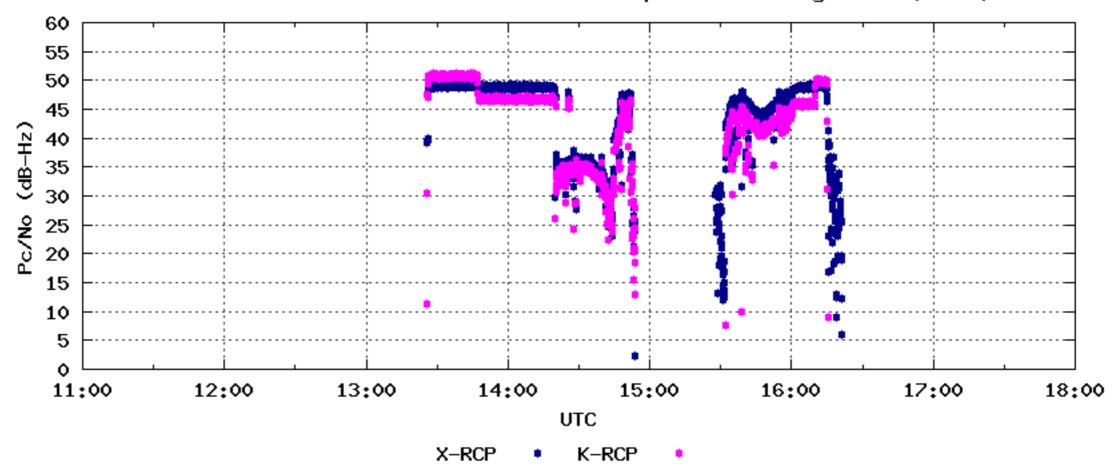


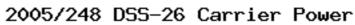


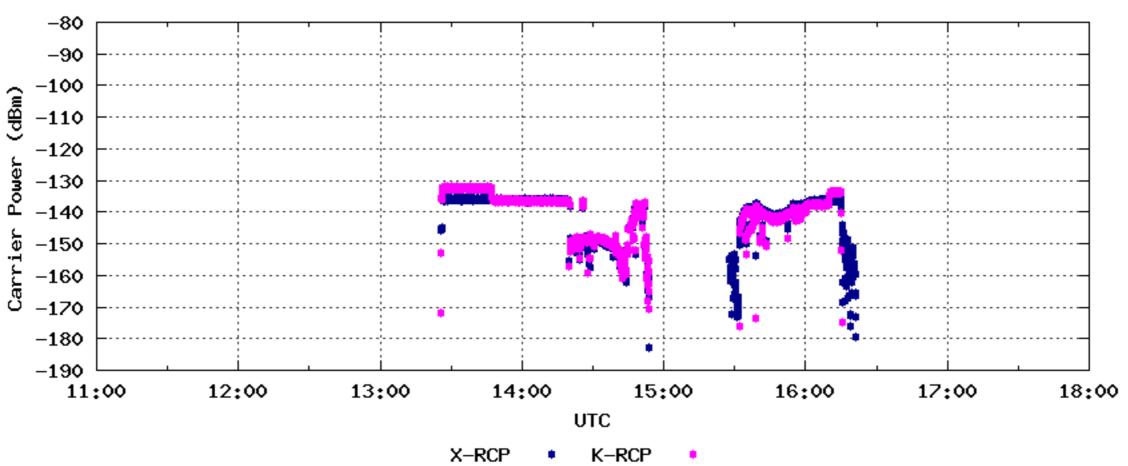
2005/248 DSS-26 K-Band Measured and Predicted Carrier Frequency

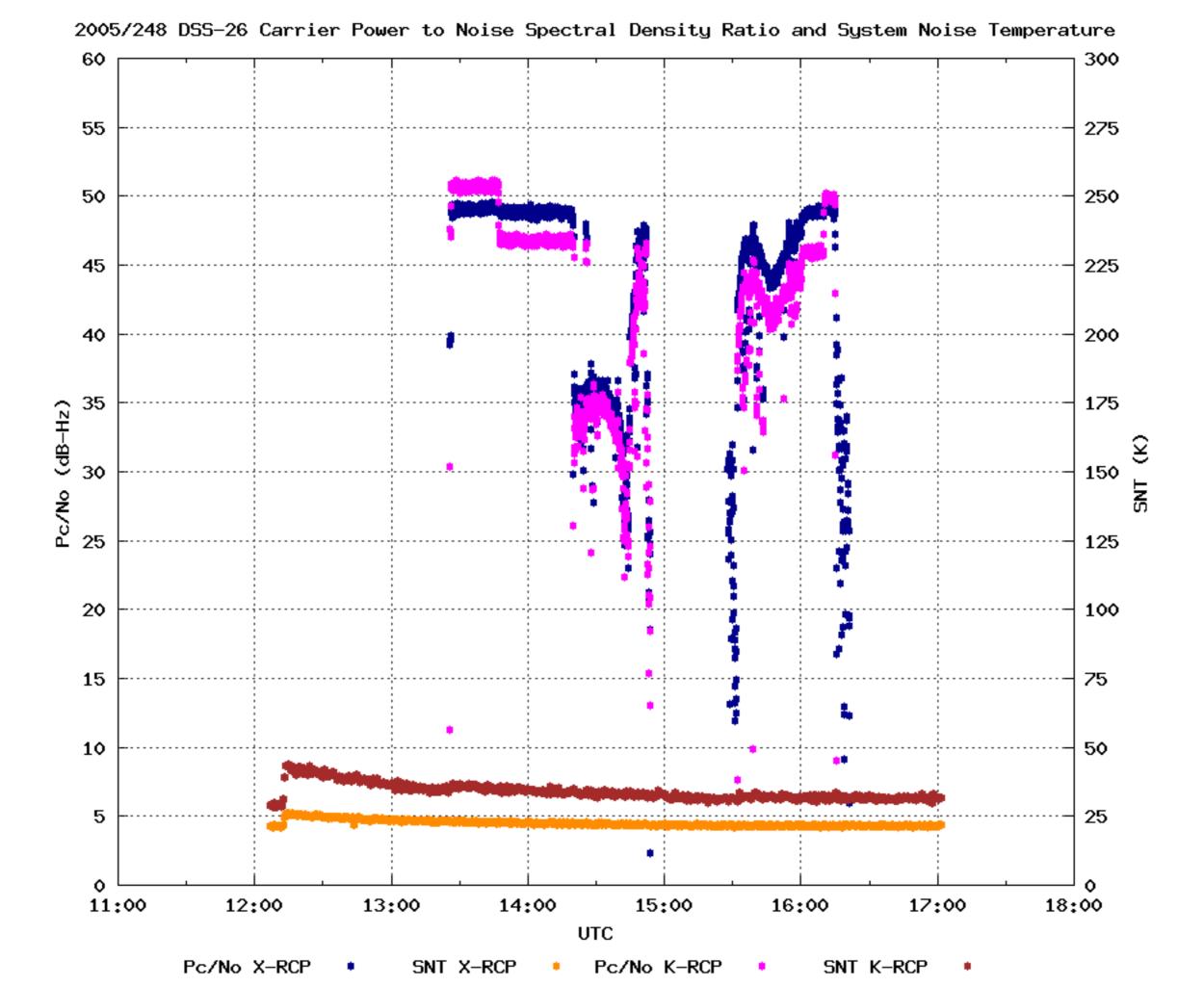


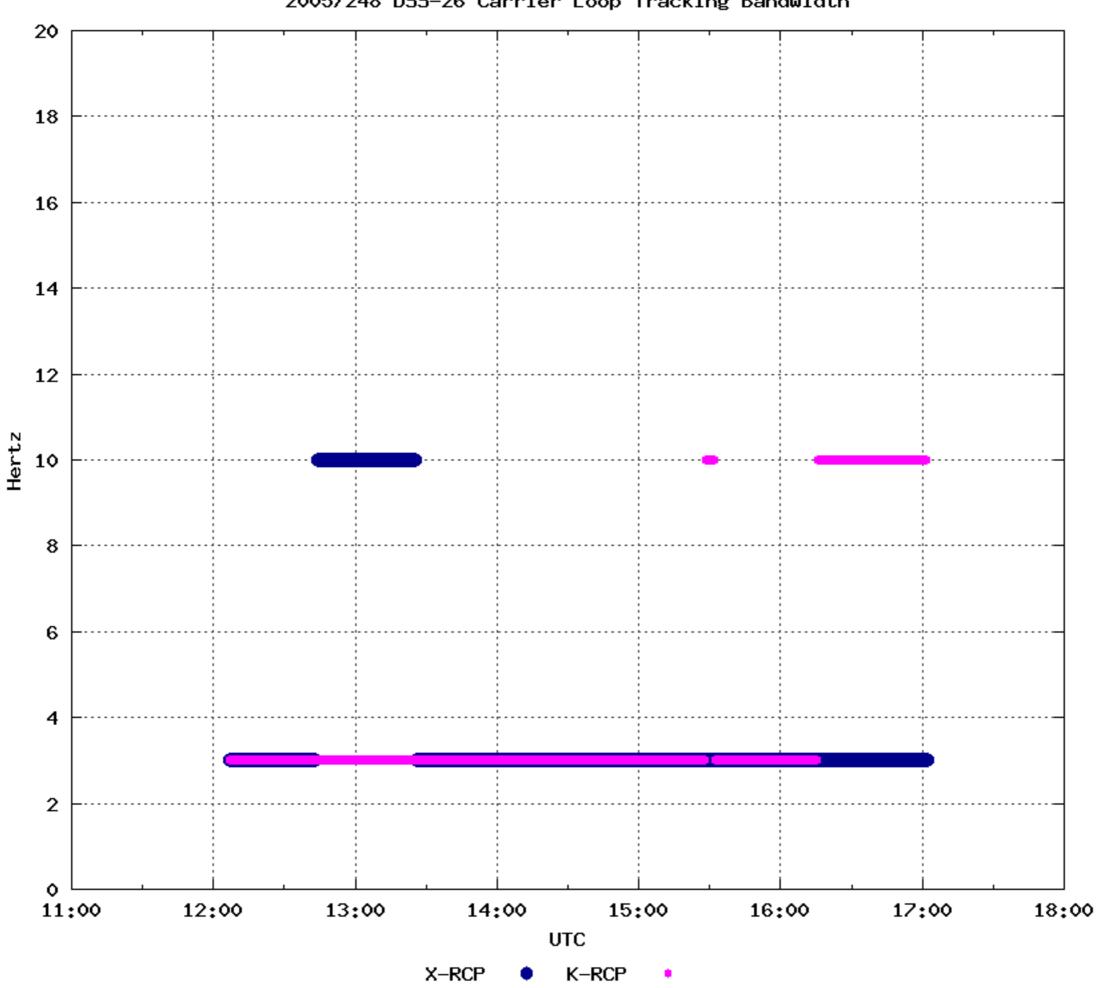
2005/248 DSS-26 K-Band Residual Frequency (Measured - Predicted) 200 170 140 (Hz) 110 Non-Coherent 80 50 20 -10 -40 -70 -100 12:00 13:00 11:00 14:00 15:00 16:00 17:00 18:00 UTC 1-Way K-RCP

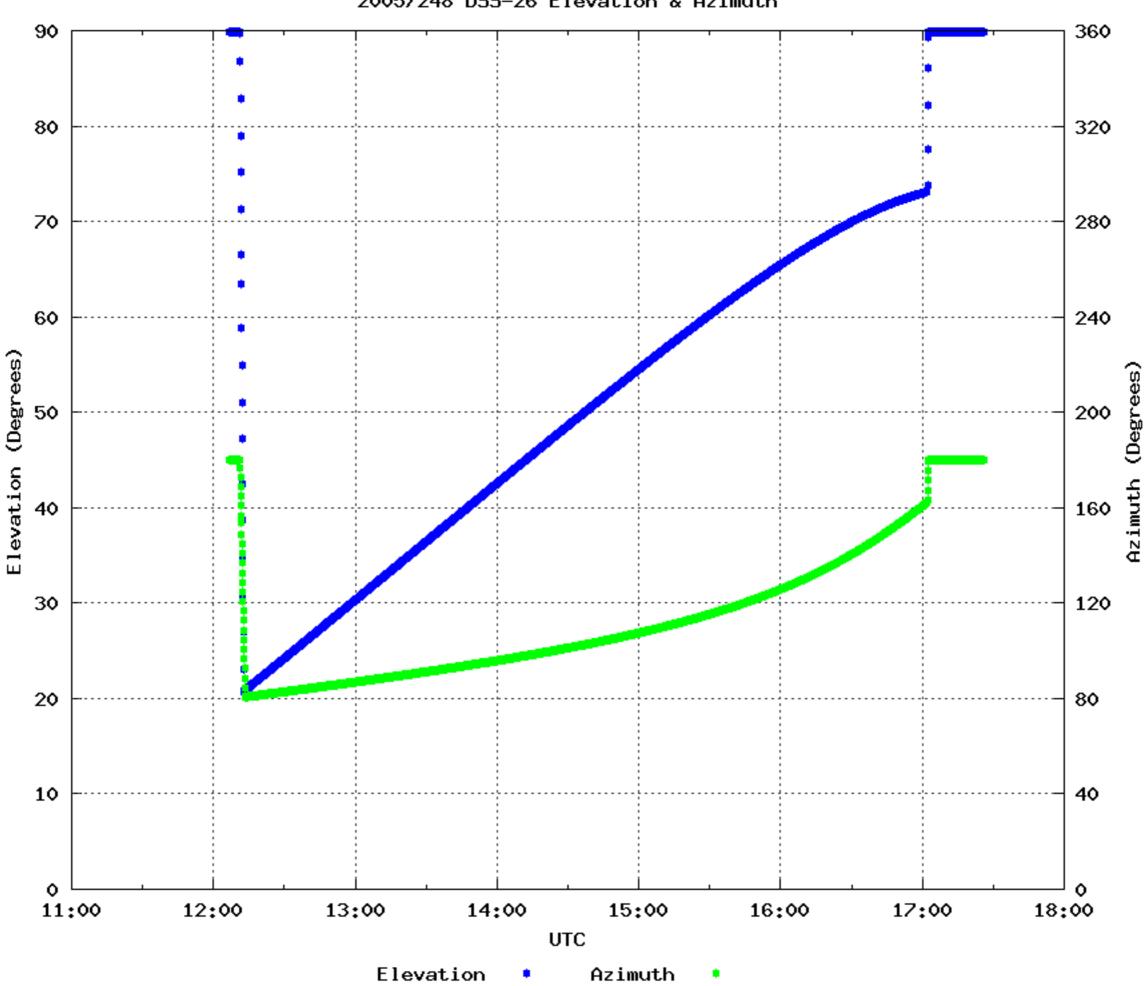


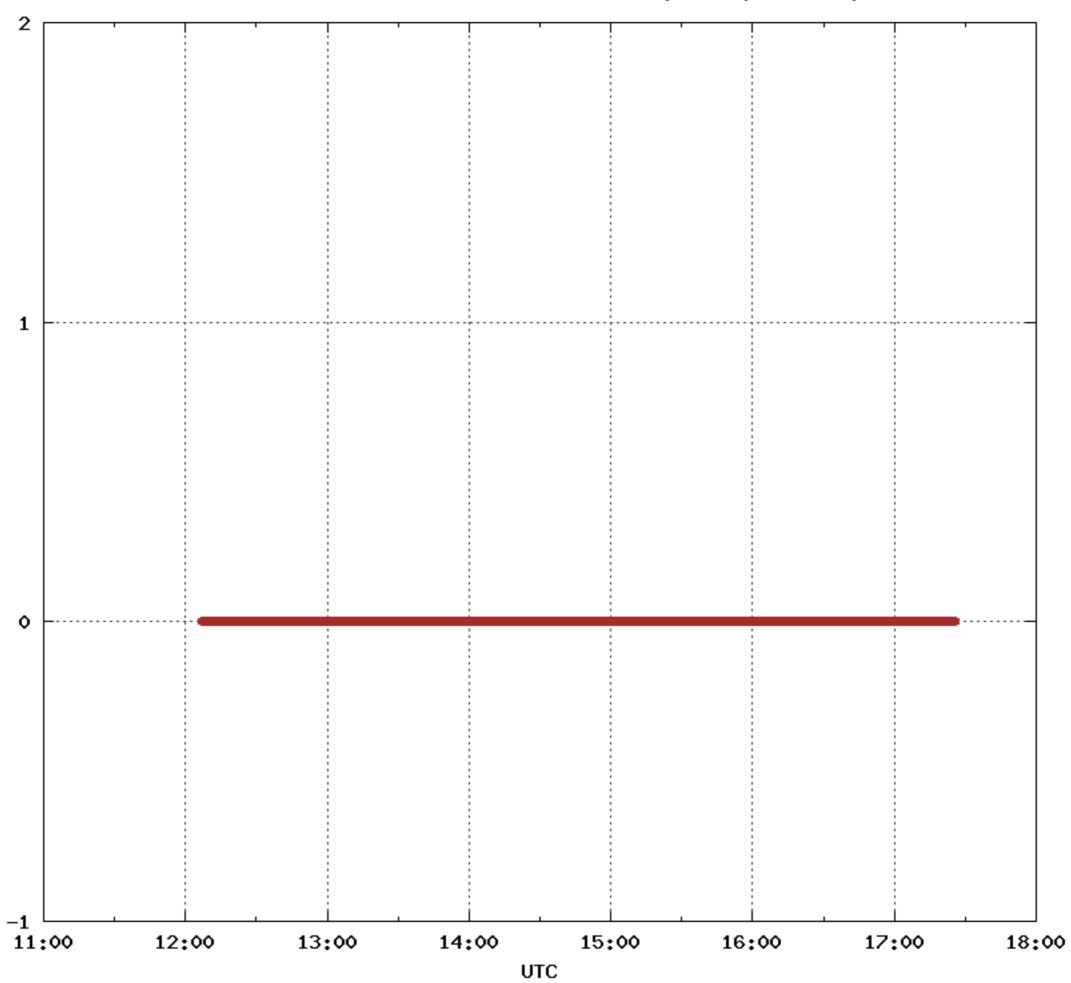


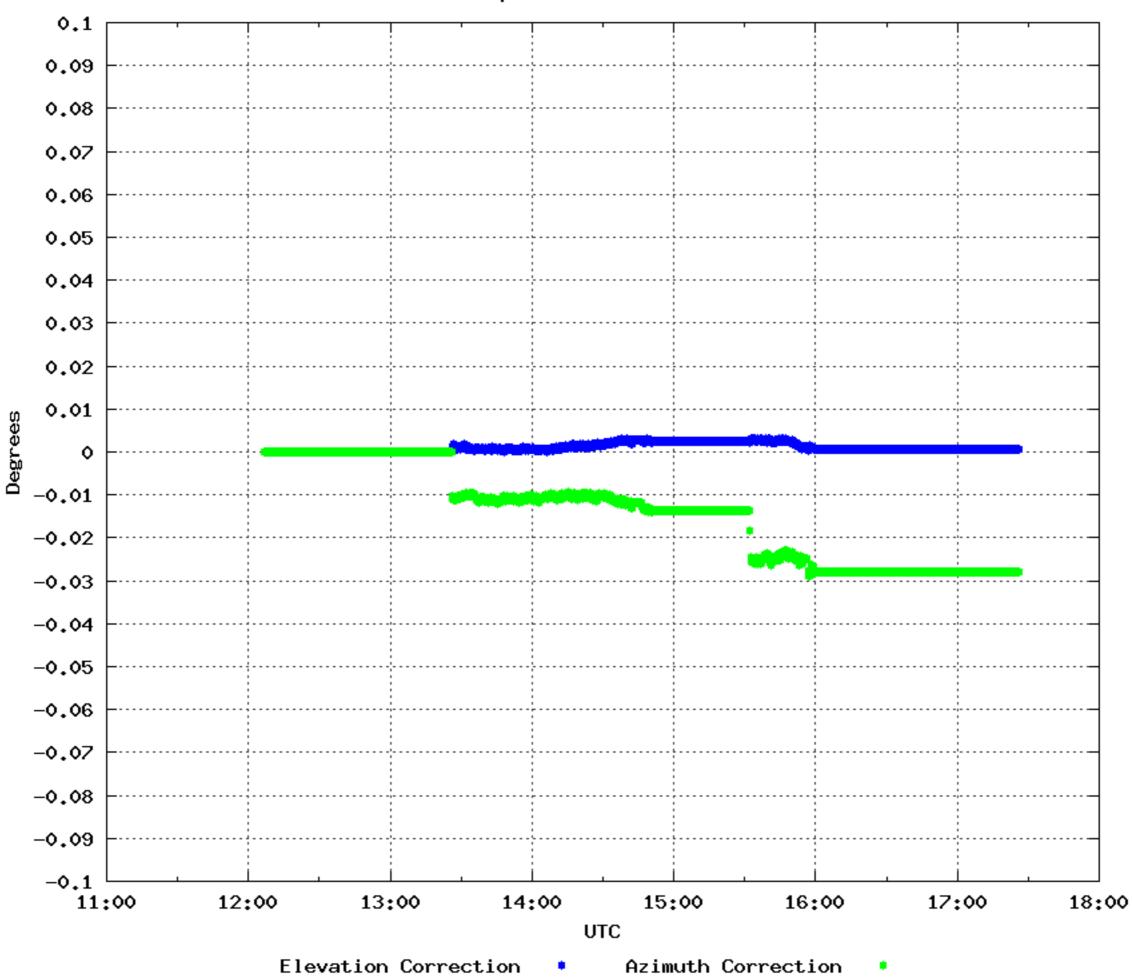


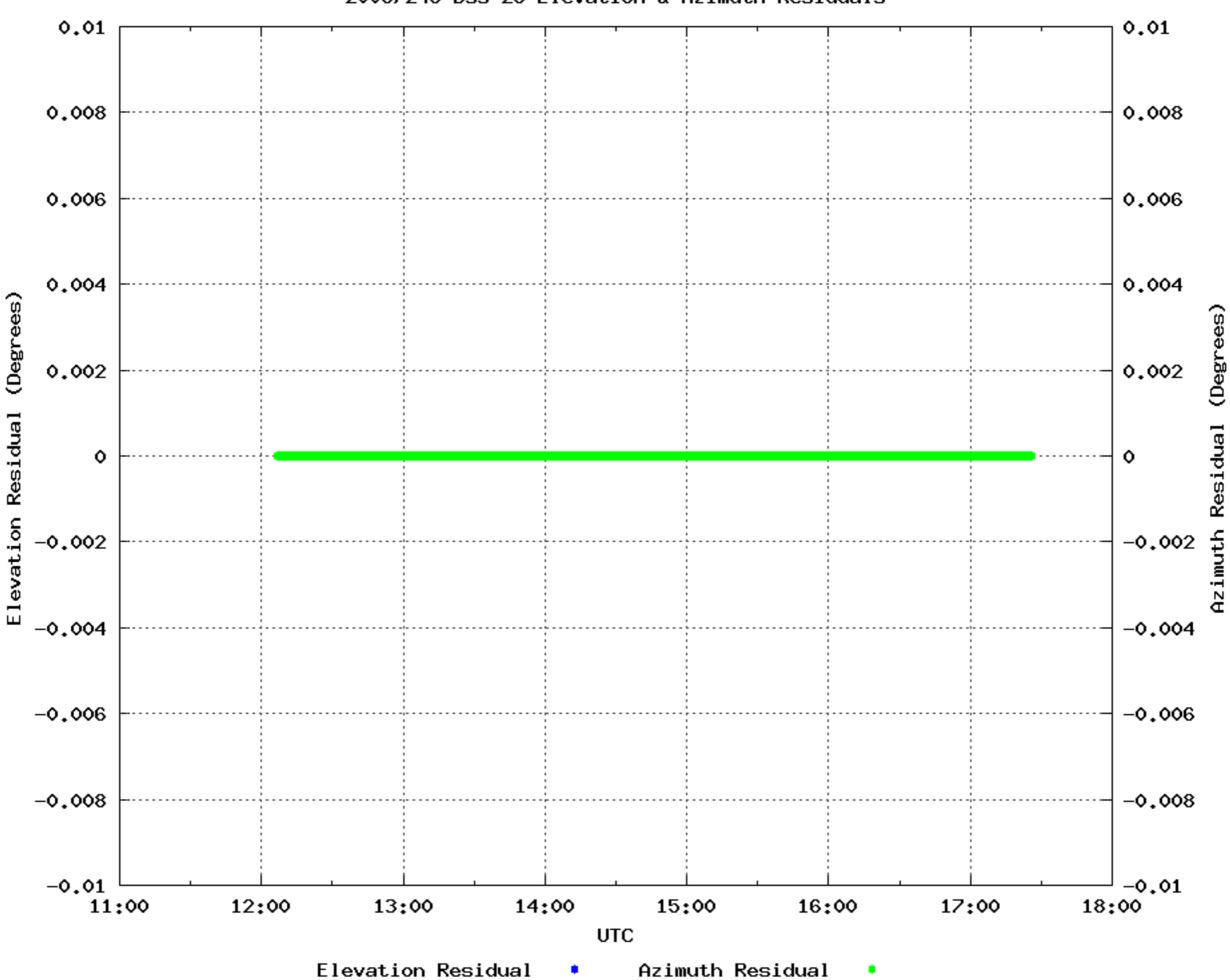




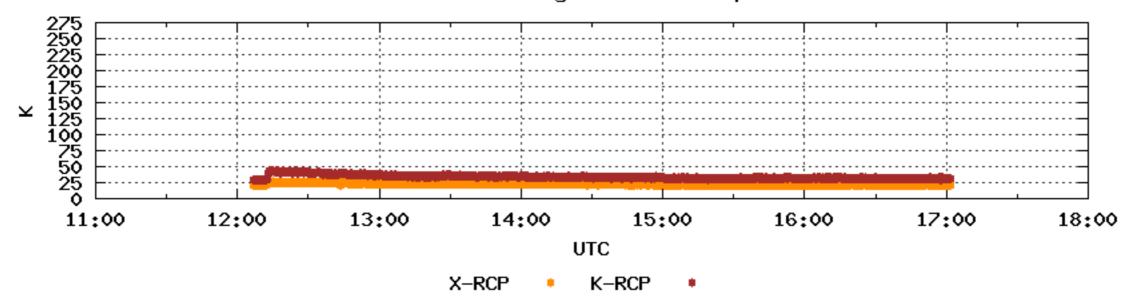




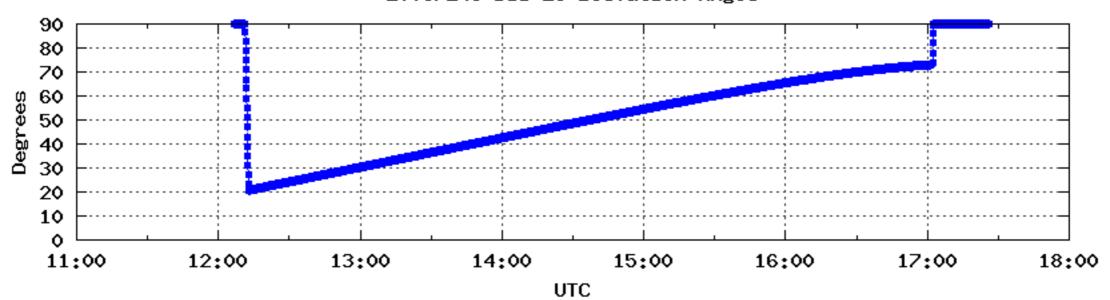


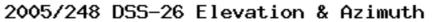


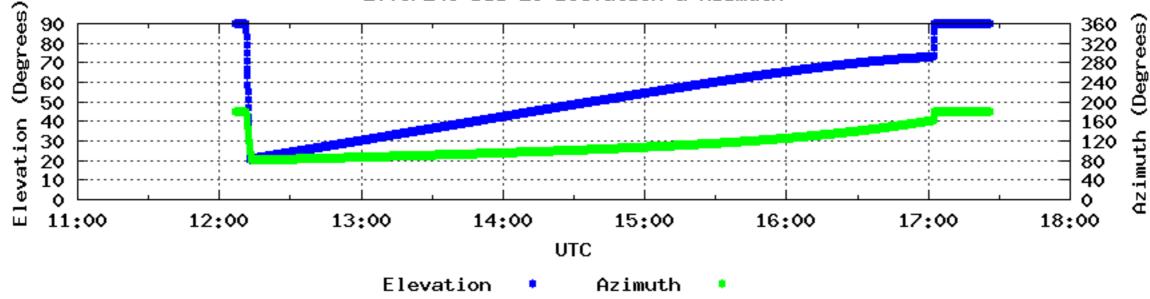
# 2005/248 DSS-26 System Noise Temperature



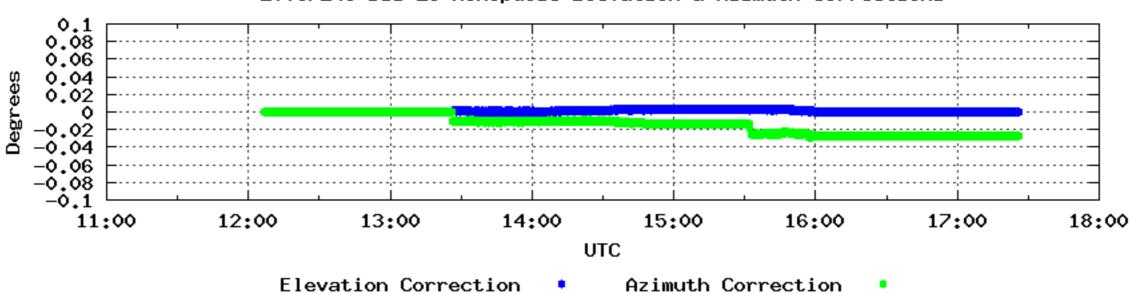
# 2005/248 DSS-26 Elevation Angle







# 2005/248 DSS-26 Monopulse Elevation & Azimuth Corrections



02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency

#### Top:

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

#### Bottom:

Residual Frequency (M-1305, M-1805, M-2305, M-2805)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748)
and by Downlink Band (M-1245, M-1745, M-2245, M-2745)
and Polarization (M-1267, M-1767, M-2267, M-2767)

03. X-Band - Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency

#### Top:

Predicted Frequency including Doppler Shift (M-1320, M-1820, M-2320, M-2820) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Measured Carrier Frequency (M-1304, M-1804, M-2304, M-2804) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

### Bottom:

Residual Frequency (M-1305, M-1805, M-2305, M-2805)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748)
and by Downlink Band (M-1245, M-1745, M-2245, M-2745)
and Polarization (M-1267, M-1767, M-2267, M-2767)

04. Ka-Band - Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency

# Top:

Predicted Frequency including Doppler Shift (M-1320, M-1820, M-2320, M-2820) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Measured Carrier Frequency (M-1304, M-1804, M-2304, M-2804) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

#### Bottom:

Residual Frequency (M-1305, M-1805, M-2305, M-2805)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748)
and by Downlink Band (M-1245, M-1745, M-2245, M-2745)

05. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power

#### Top:

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

#### Bottom:

Carrer Power (M-1310, M-1810, M-2310, M-2810)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745)
and Polarization (M-1267, M-1767, M-2267, M-2767)

06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

System Noise Temperature (M-1318, M-1818, M-2318, M-2818) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

07. Carrier Loop Tracking Bandwidth

Carrier Loop Tracking Bandwidth (M-1299, M-1799, M-2299, M-2799) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

08. Azimuth & Elevation Elevation Angle (M-0304) Azimuth Angle (M-0305)

09. Conscan Drive Status

Conscan Drive Status (M-0308)

10. Azimuth & Elevation Monopulse Corrections

Elevation Corrections (M-0815) Azimuth Corrections (M-0814)

11. Azimuth & Elevation Residuals

Elevation Residuals (M-0307) Azimuth Residuals (M-0306)

12. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity

#### Top:

System Noise Temperature (M-1318, M-1818, M-2318, M-2818) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

#### Middle:

Elevation Angle (M-0304)

## Bottom:

Precipitation Rate (M-0406) Relative Humidity (M-0409)

13. Elevation & Azimuth, Elevation & Azimuth Corrections, and Wind Speed and Direction

#### Top:

Elevation Angle (M-0304) Azimuth Angle (M-0305)

#### Middle:

Elevation Corrections (M-0815) Azimuth Corrections (M-0814)

## Bottom:

Wind Speed (M-0388)
Wind Direction (M-0391)