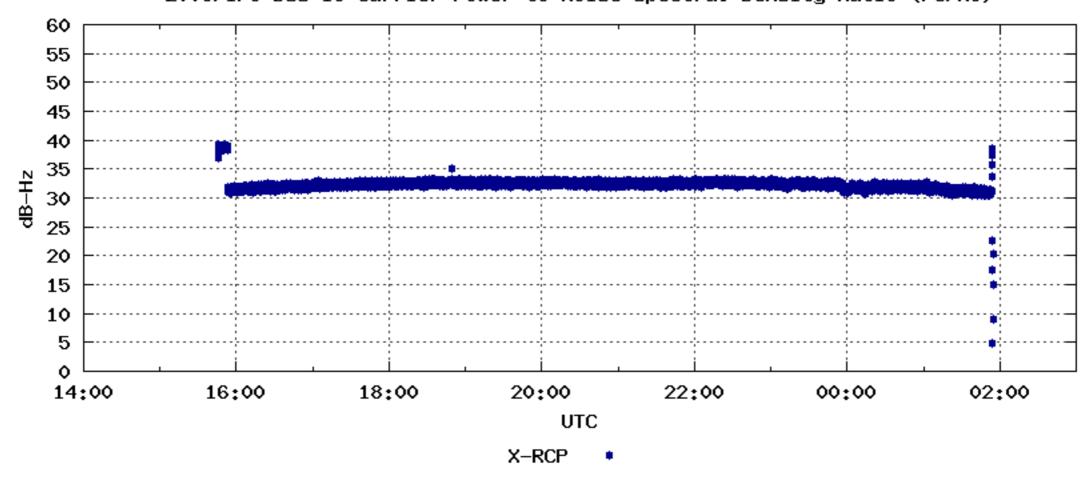
Spacecraft: Cassini

DSS: 15

Monitor File: S12SAGS2005_178_1440_15_MON.ecsv APPLICABLE_START_TIME = 2005-178T14:40:35.757; APPLICABLE_STOP_TIME = 2005-179T02:03:38.667; 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. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power
- 05. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature
- 06. Carrier Loop Tracking Bandwidth
- 07. Conscan Drive Status
- 08. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 9. Index

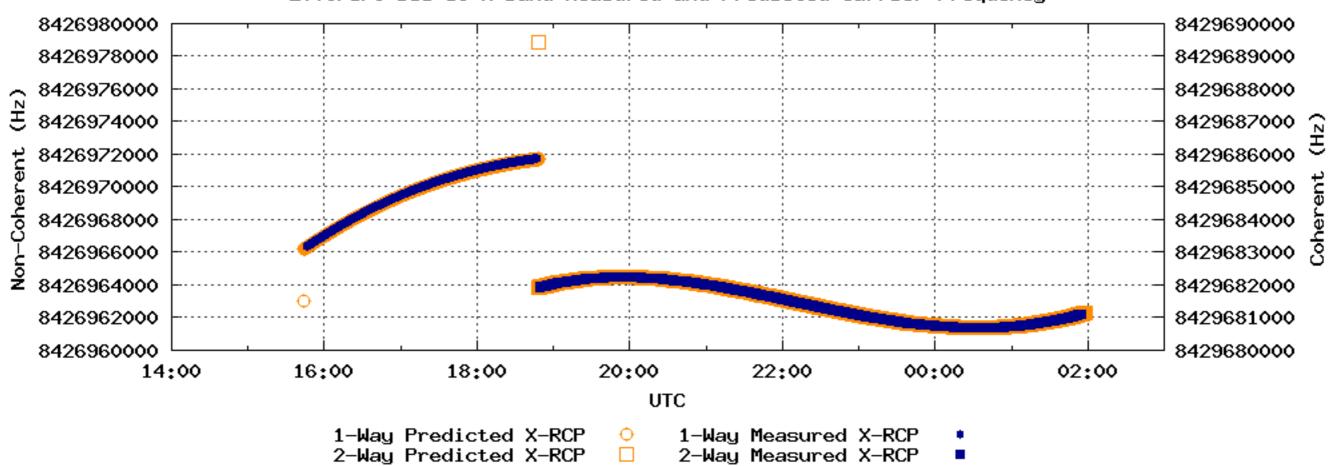
2005/178 DSS-15 Carrier Power to Noise Spectral Density Ratio (Pc/No)

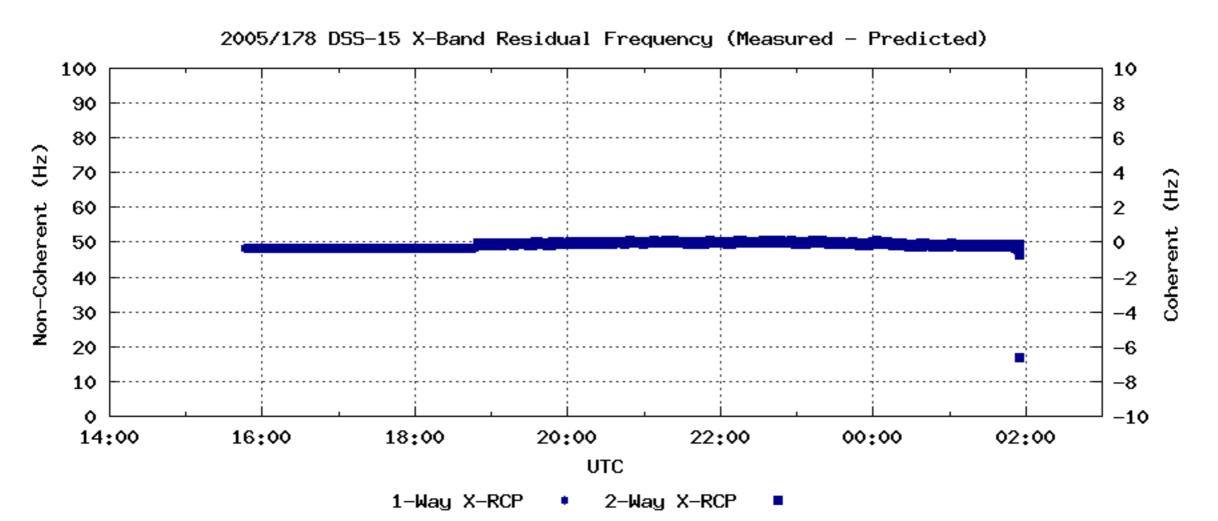


2005/178 DSS-15 Carrier Frequency Residual (Measured - Predicted) 1000 10 900 8 800 (Hz) 700 Coherent (Hz) Non-Coherent 600 500 ٥ 400 300 200 -6 100 -8 -10 ٥ 20:00 02:00 14:00 16:00 18:00 22:00 00:00 UTC

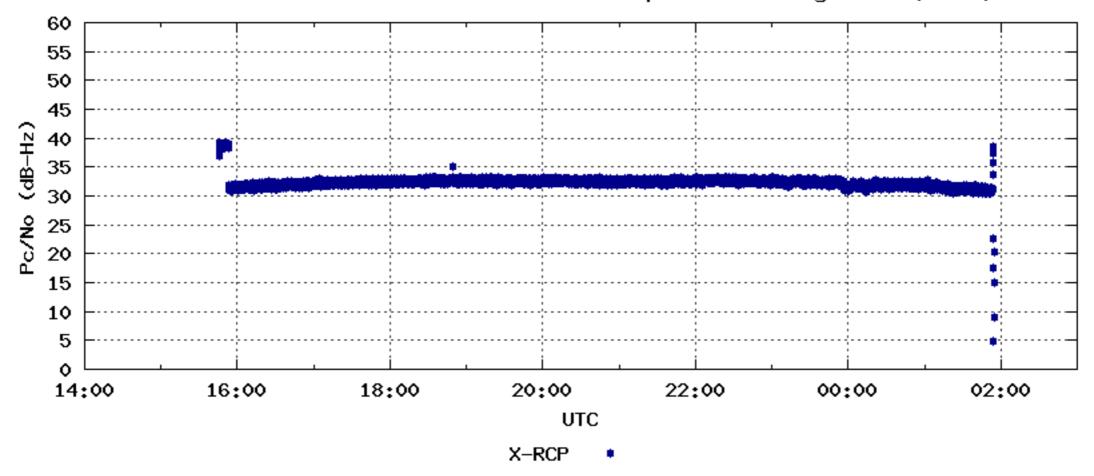
2-Way X-RCP

1-Way X-RCP

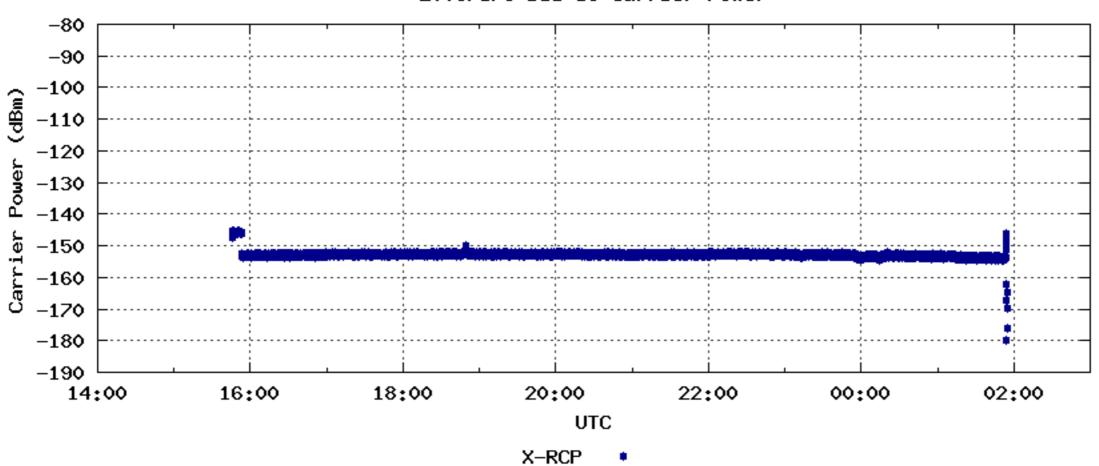


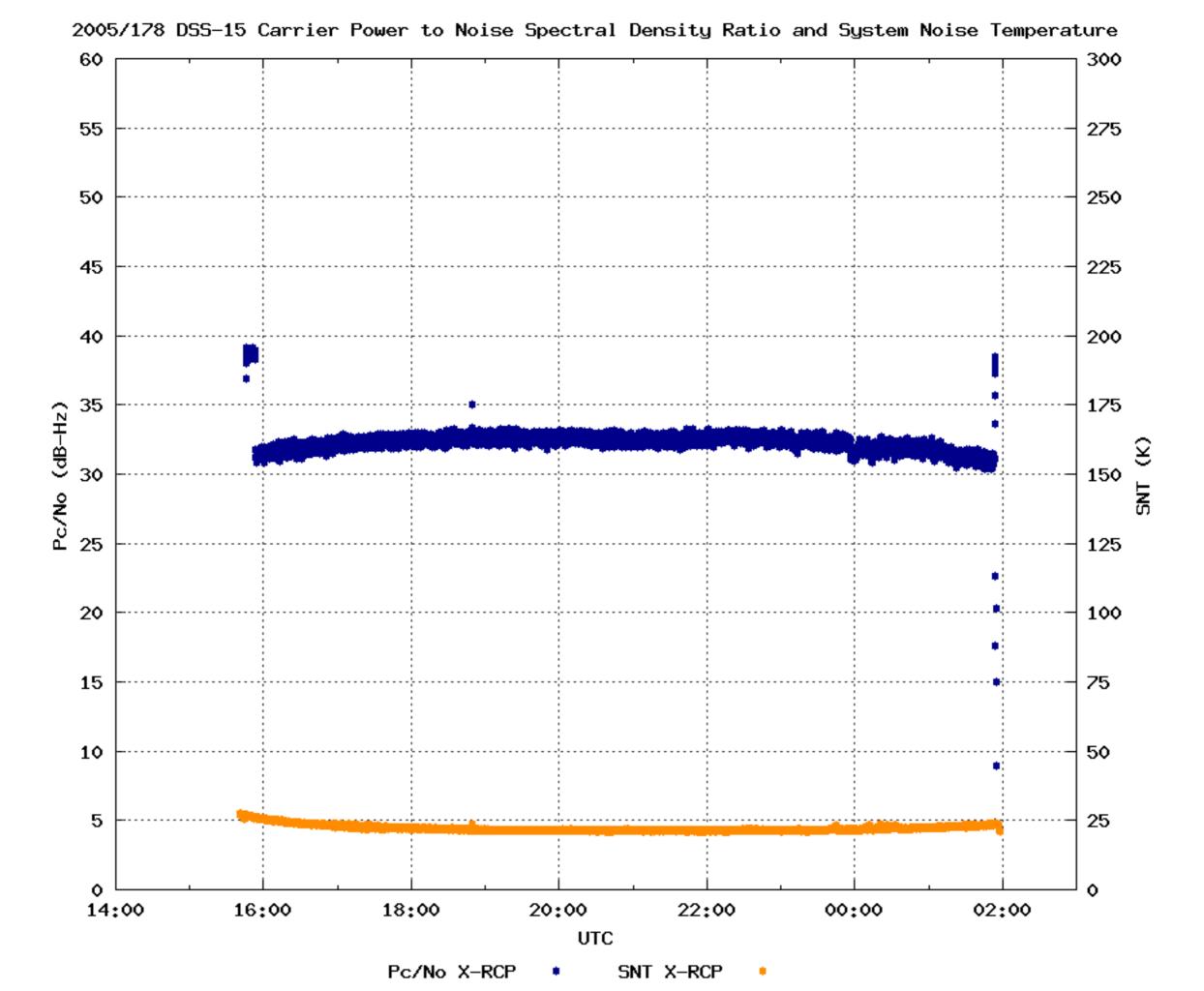


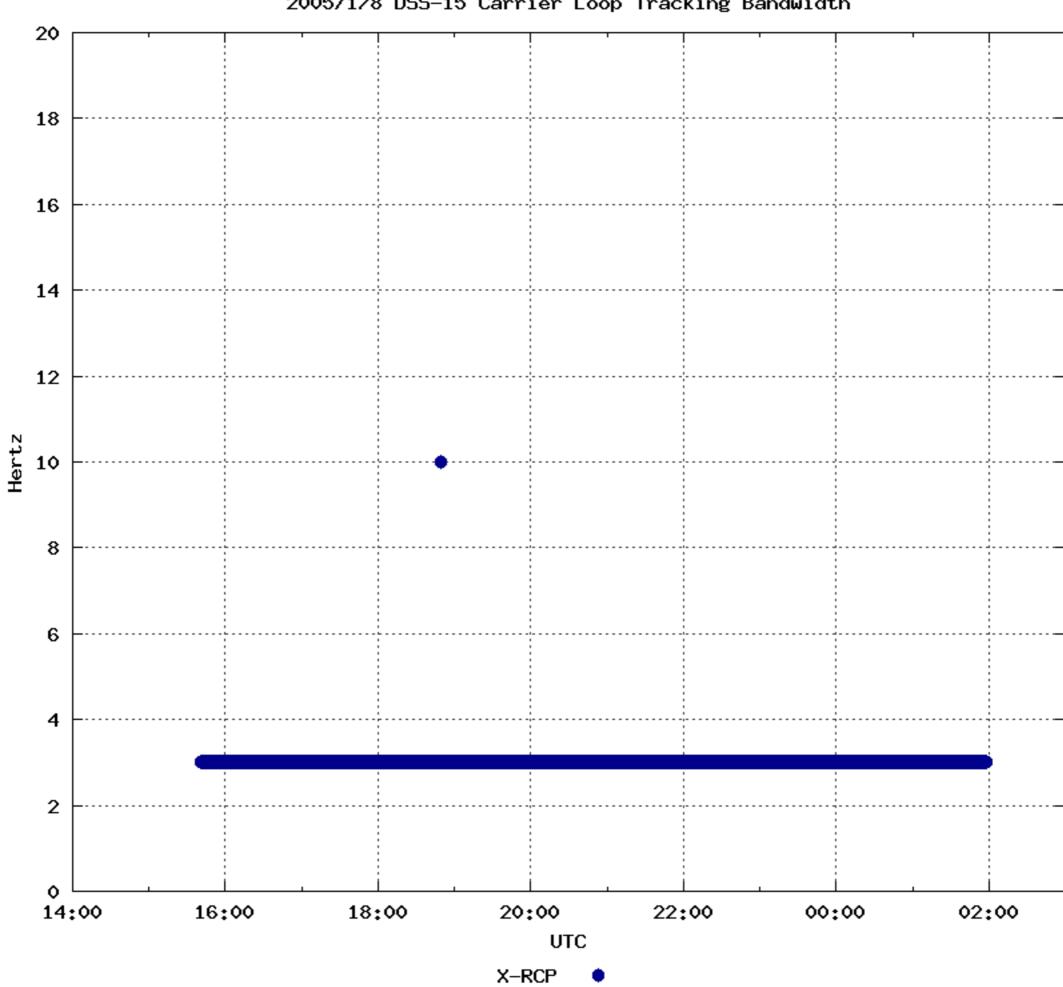
2005/178 DSS-15 Carrier Power to Noise Spectral Density Ratio (Pc/No)

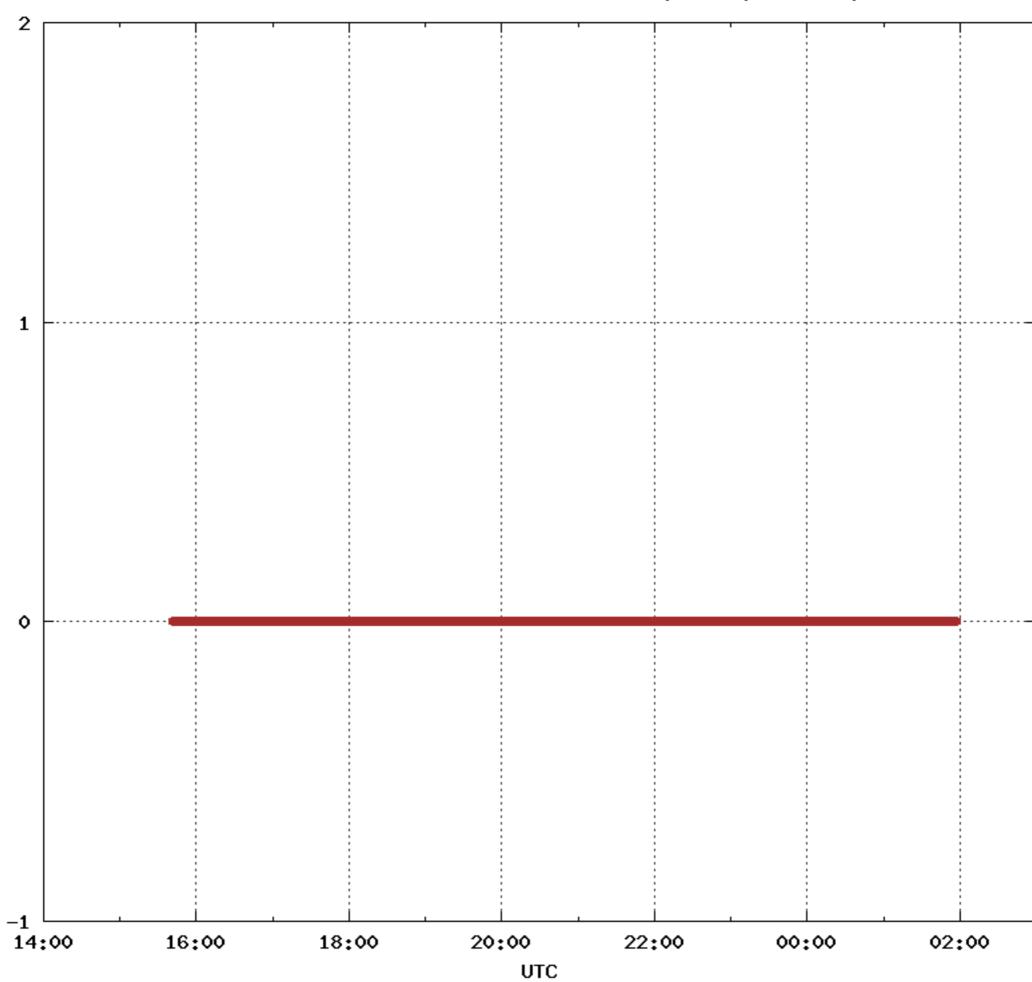


2005/178 DSS-15 Carrier Power

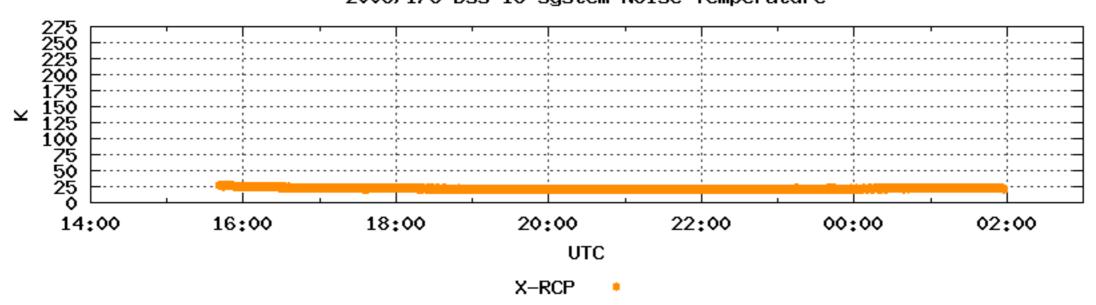








2005/178 DSS-15 System Noise Temperature



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. 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)

05. 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)

06. 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)

07. Conscan Drive Status

Conscan Drive Status (M-0308)

08. 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)