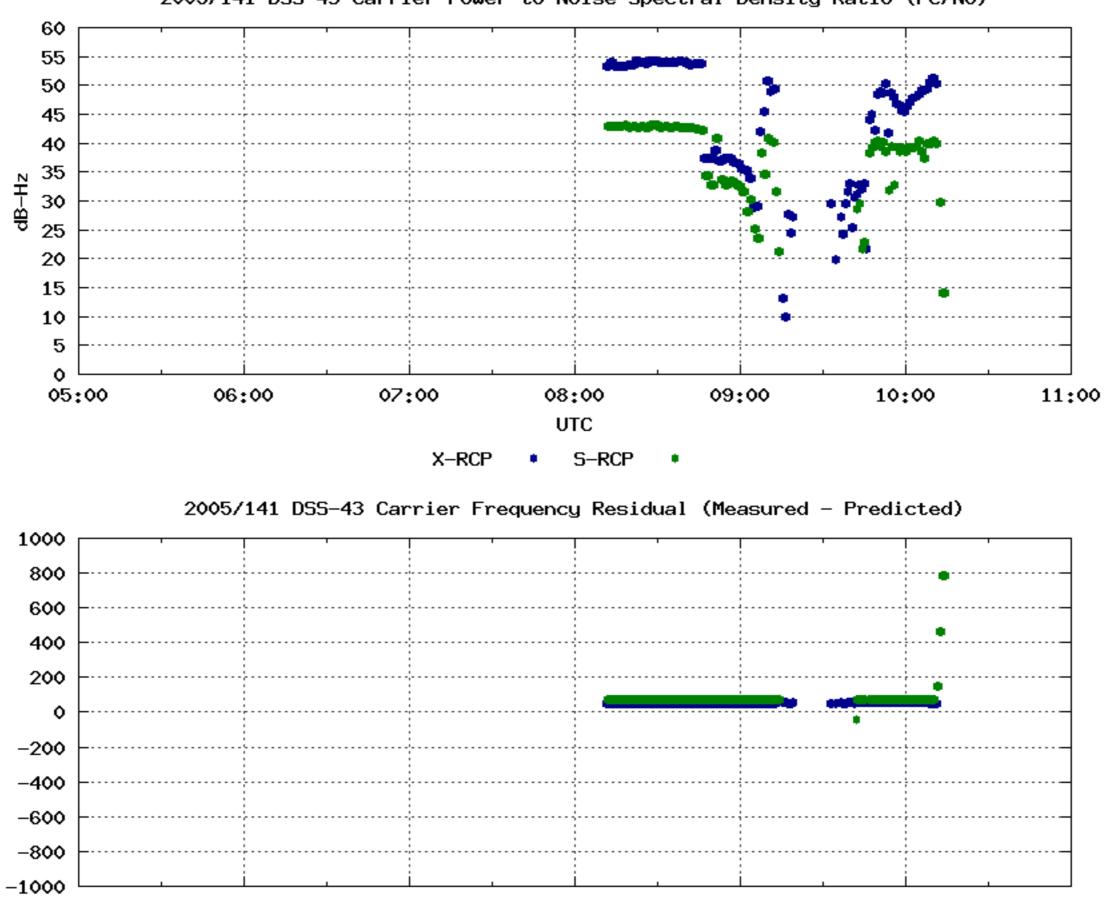
Spacecraft: Cassini
DSS: 43
Monitor File: S11SROI2005_141_0521_43_MON.ecsv
APPLICABLE_START_TIME = 2005-141T05:21:05.968;
APPLICABLE_STOP_TIME = 2005-141T10:20:01.403;
60 minutes omitted from beginning of file
5 minutes omitted from end of file

- 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. S-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 05. Uplink Frequency and Power
- 06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power
- 07. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature
- 08. Carrier Loop Tracking Bandwidth
- 09. Conscan Drive Status
- 10. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 11. Index



2005/141 DSS-43 Carrier Power to Noise Spectral Density Ratio (Pc/No)

1-Way X-RCP • 1-Way S-RCP •

08:00

UTC

09:00

10:00

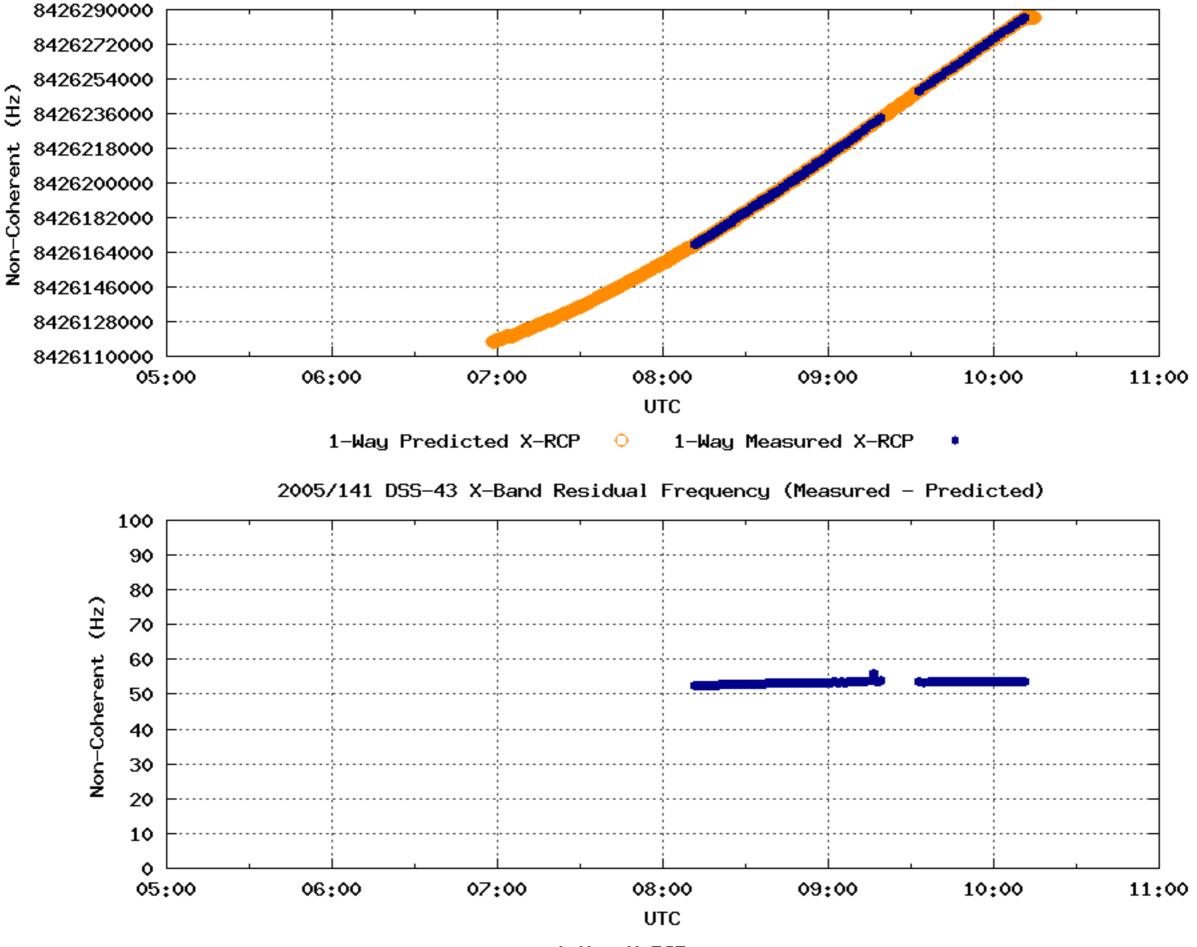
11:00

07:00

Non-Coherent (Hz)

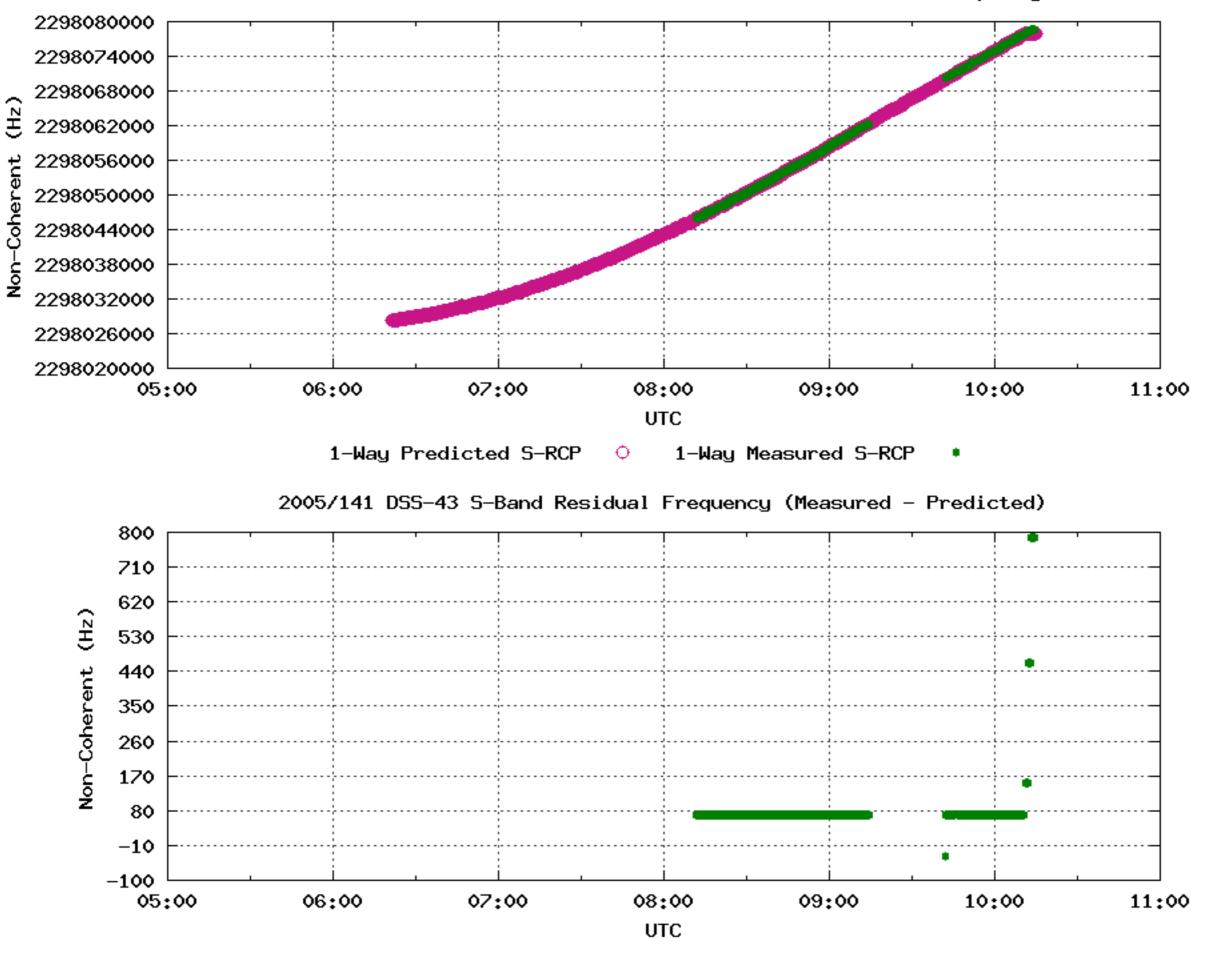
05:00

06:00



2005/141 DSS-43 X-Band Measured and Predicted Carrier Frequency

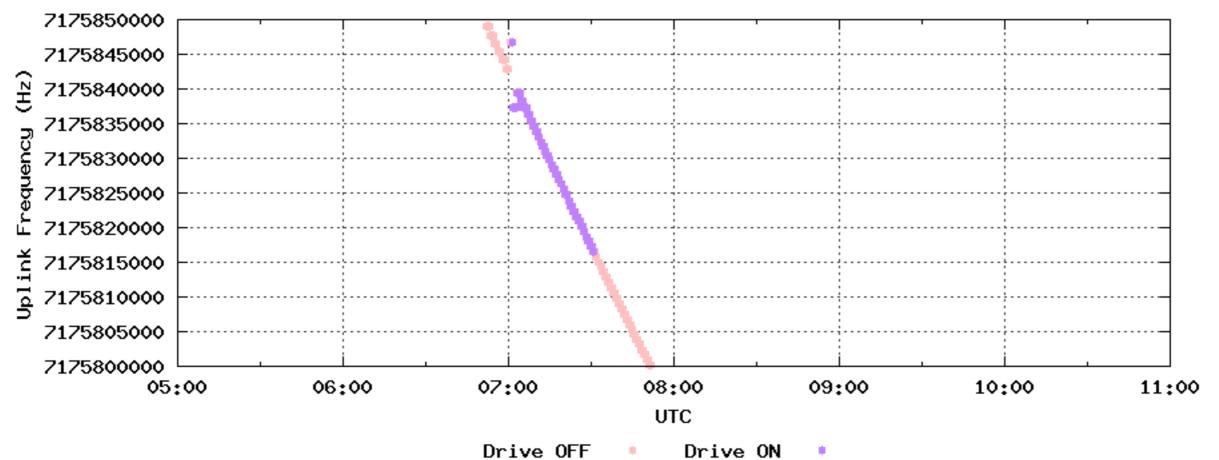
1-Way X-RCP 🔹 🖲



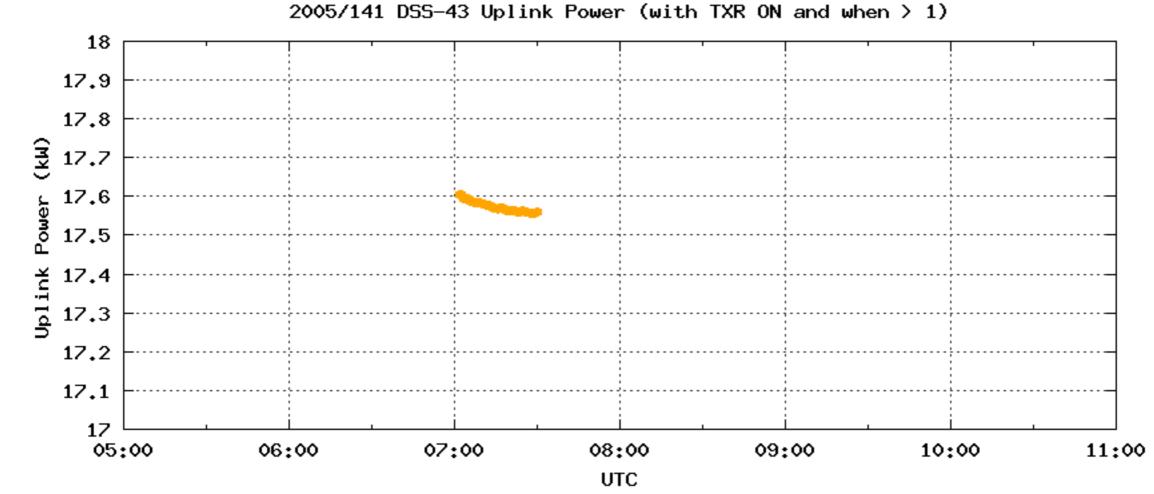
2005/141 DSS-43 S-Band Measured and Predicted Carrier Frequency

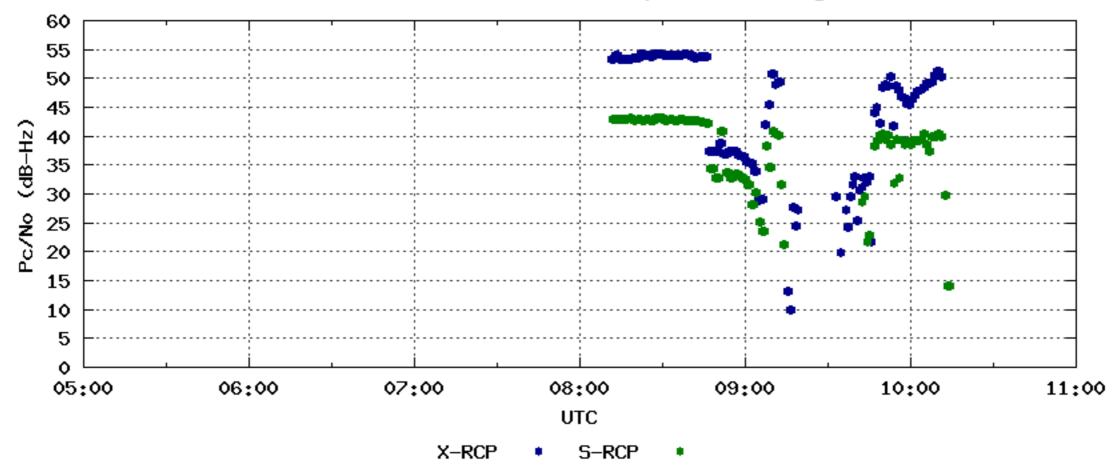
1-Way S-RCP 🔹 🖲

2005/141 DSS-43 Uplink Frequency



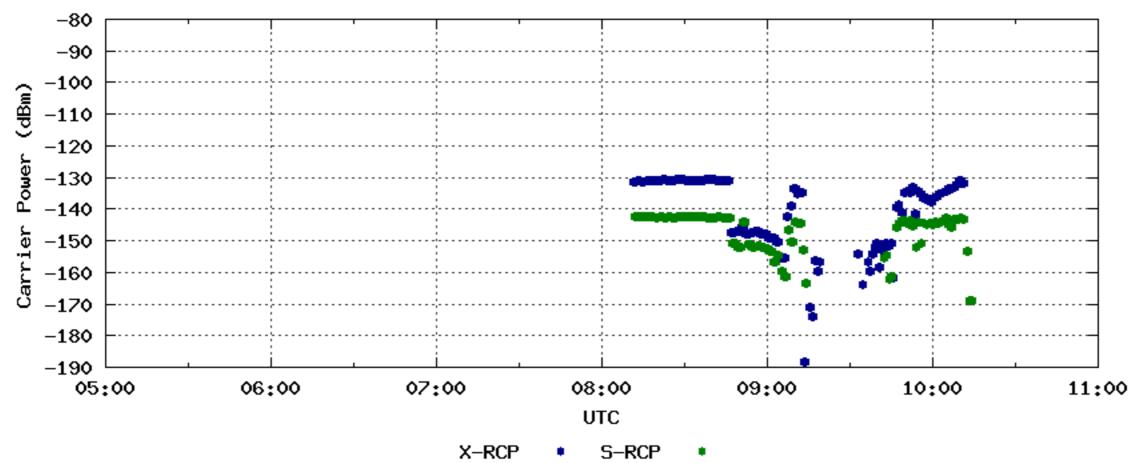


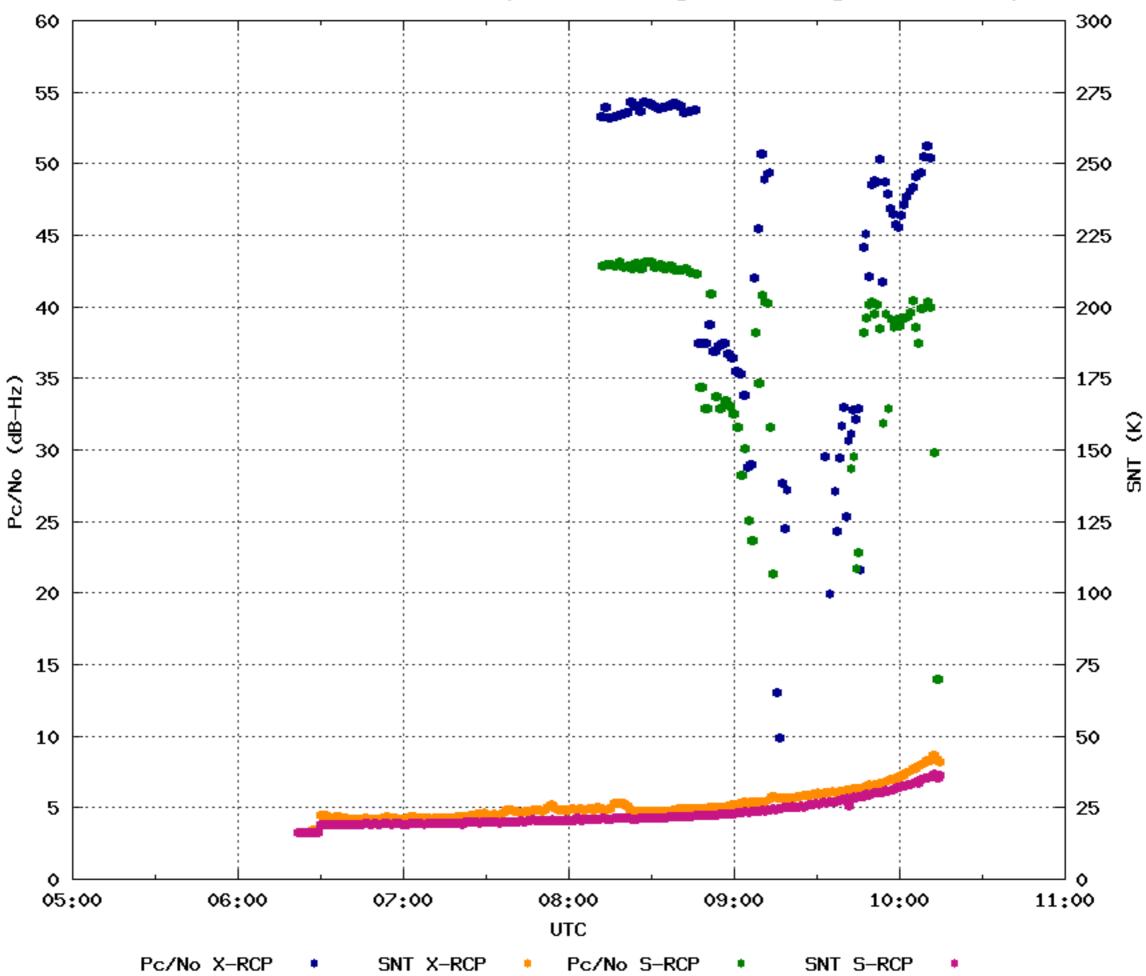




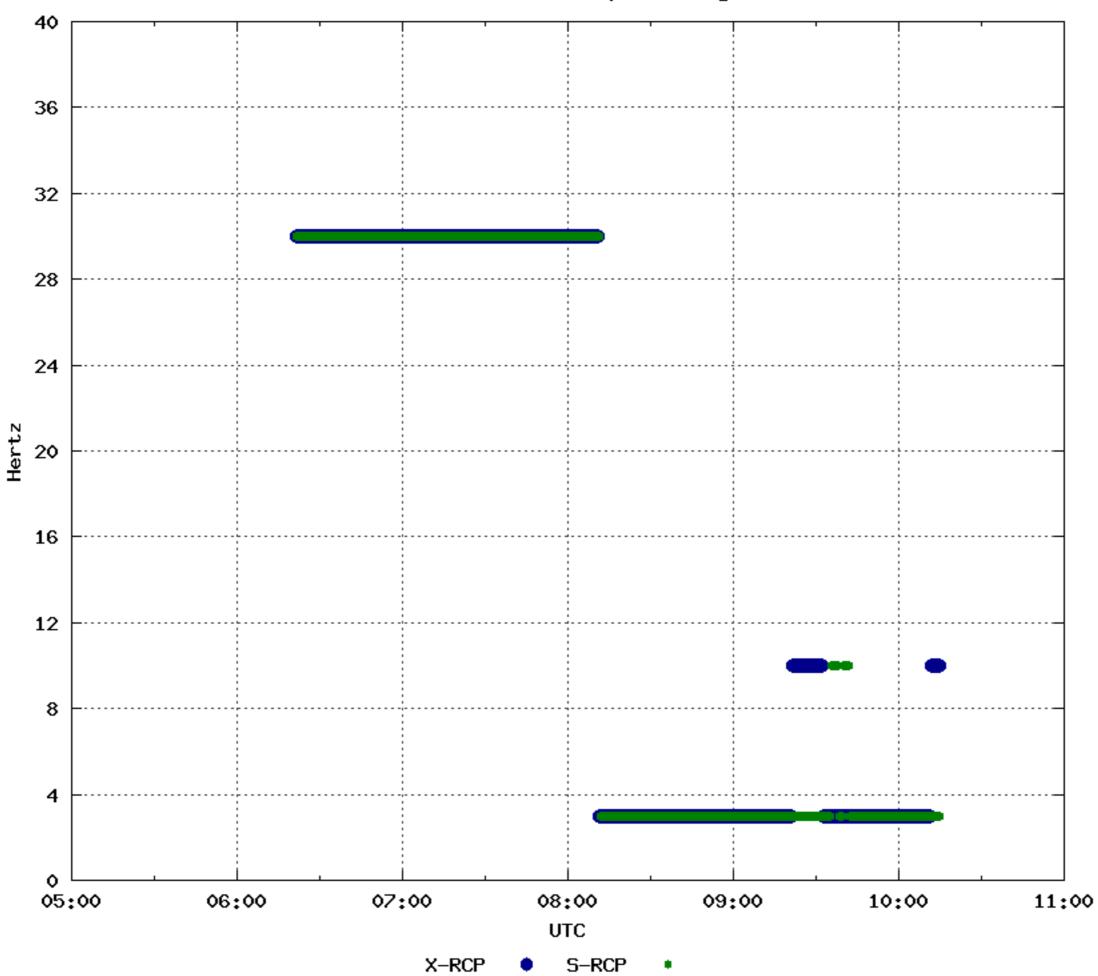
2005/141 DSS-43 Carrier Power to Noise Spectral Density Ratio (Pc/No)



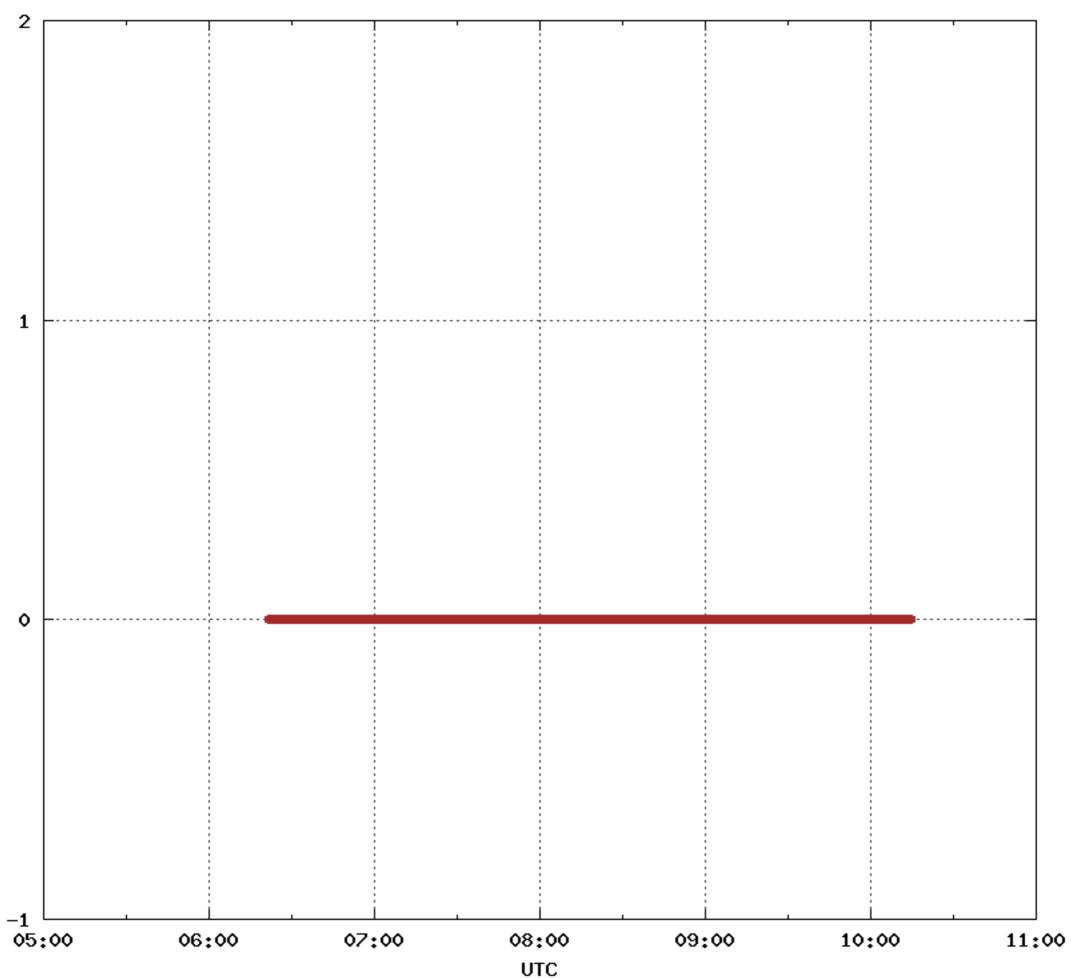




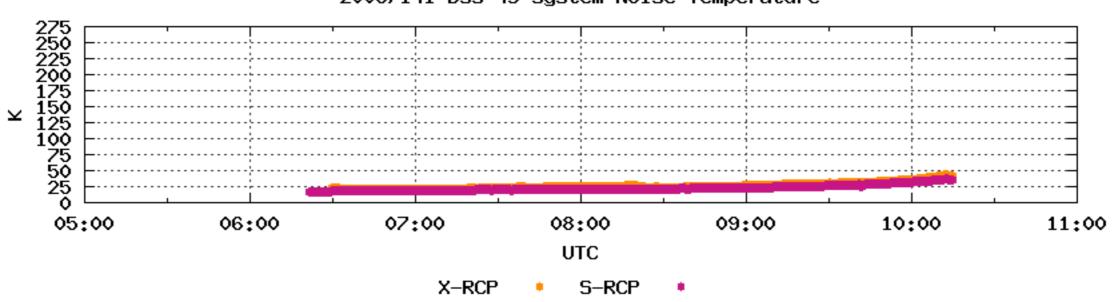
2005/141 DSS-43 Carrier Power to Noise Spectral Density Ratio and System Noise Temperature



2005/141 DSS-43 Carrier Loop Tracking Bandwidth



2005/141 DSS-43 Conscan Drive Status (ON = 1; OFF = 0)



2005/141 DSS-43 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. S-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. Uplink Frequency and Power Top: Uplink Frequency (M-1049) filtered by Transmitter Status (M-1070) Bottom: Uplink Power (M-1067) filtered by Transmitter Status (M-1070) 06. 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) 07. 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) 08. 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) 09. Conscan Drive Status Conscan Drive Status (M-0308) 10. 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)

and Polarization (M-1267, M-1767, M-2267, M-2767)

Middle: Elevation Angle (M-0304)

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