

S96 Cassini ESA Uplink Test

2016/298, Monday October 24, 2016 PDT

OWLT = ~01:29:30, RTLT = ~02:59:00

Madrid DSS-54 related activities

New Norcia DSS-74 related activities

Malargue DSS-84 related activities

Canberra DSS-43 related activities

Time ERT	Time PDT	Event	Comments
DOY 298 October 24			
08:00:00	1:00 AM	Ongoing DSS-43 track	Bit rate 99541
08:55:00	1:55 AM	DSS-43 Transmitter Off	
09:00:00	2:00 AM	DSS-43 EOT	
09:00:00	2:00 AM	Bit rate change to 1896	Until end of activity
09:30:00	2:30 AM	DSS-54 Pre-Cal	Pass# 0298. Cassini specific 4th-order pointing model
10:00:00	3:00 AM	DSS-74 Pre-Cal	
10:56:14	3:56 AM	S-band ON	RSS3BRWAF Opmode
11:00:00	4:00 AM	DSS-54 BOT	3-way
11:00:00	4:00 AM	DSS-54 Acquire X-band signal, 3-way w/ DSS-43	
11:00:00	4:00 AM	DSS-74 BOT	3-way
11:00:00	4:00 AM	DSS-74 Acquire X- and S-band signal, 3-way w/ DSS-43	
11:01:10	4:01 AM	Ka-band ON	RSS3BRWAF Opmode
11:01:00	4:01 AM	DSS-54 Acquire Ka-band signal, 3-way w/ DSS-43	
		DSS-54 Enable Monopulse	At Ka-band 3-way acquisition
11:16:00	4:16 AM	DSS-54 Transmitter ON, 18 kW, Ramped, SWEEP	
11:40:00	4:40 AM	DSS-74 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-54
11:40:05	4:40 AM	DSS-54 Transmitter Off	Uplink transfer to DSS-74
11:52:00	4:52 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 1-way
11:54:01	4:54 AM	DSS-54 Tracking mode change to 1-way	
11:54:01	4:54 AM	DSS-54 Enable Monopulse	After Ka-band 1-way acquisition
11:54:01	4:54 AM	DSS-74 Tracking mode change to 1-way	
12:00:00	5:00 AM	DSS-84 Pre-Cal	
12:35:00	5:35 AM	DSS-54 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-74
12:35:05	5:35 AM	DSS-74 Transmitter OFF	Uplink transfer to DSS-54
12:45:00	5:45 AM	DSS-74 EOT	
13:00:00	6:00 AM	DSS-84 BOT	1-way
13:00:00	6:00 AM	DSS-84 Acquire X- and Ka-band signals, 1-way	
13:20:00	6:20 AM	DSS-84 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-54
13:20:05	6:20 AM	DSS-54 Transmitter OFF	Uplink transfer to DSS-84
14:10:00	7:10 AM	DSS-84 Transmitter OFF	

Time ERT	Time PDT	Event	Comments
14:13:00	7:13 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 2-way
14:15:02	7:15 AM	DSS-54 Tracking mode change to 2-way	
14:15:02	7:15 AM	DSS-54 Enable Monopulse	After Ka-band 2-way acquisition
14:15:02	7:15 AM	DSS-84 Tracking mode change to 3-way w/ DSS-54	
14:30:00	7:30 AM	DSS-84 Transmitter ON, 18 kW, Ramped, SWEEP	
14:39:02	7:39 AM	DSS-54 Tracking mode change to 3-way w/ DSS-74	
14:39:02	7:39 AM	DSS-84 Tracking mode change to 3-way w/ DSS-74	
14:45:00	7:45 AM	DSS-54 Transmitter ON, 18 kW, Ramped	Uplink transfer from DSS-84
14:45:05	7:45 AM	DSS-84 Transmitter OFF	Uplink transfer to DSS-54
15:00:00	8:00 AM	DSS-84 EOT	
15:34:02	8:34 AM	DSS-54 Tracking mode change to 2-way	
16:19:03	9:19 AM	DSS-54 Tracking mode change to 3-way w/ DSS-84	
17:07:00	10:07 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 1-way
17:09:03	10:09 AM	DSS-54 Tracking mode change to 1-way	
17:09:03	10:09 AM	DSS-54 Enable Monopulse	After Ka-band 1-way acquisition
17:27:00	10:27 AM	DSS-54 Disable Monopulse without clearing the offsets	Before mode switch to 3-way
17:29:04	10:29 AM	DSS-54 Tracking mode change to 3-way w/ DSS-84	
17:29:04	10:29 AM	DSS-54 Enable Monopulse	After Ka-band 3-way acquisition
17:44:04	10:44 AM	DSS-54 Tracking mode change to 2-way	
17:55:00	10:55 AM	DSS-54 Transmitter OFF	
18:00:00	11:00 AM	DSS-54 EOT	
18:00:32	11:00 AM	S- and Ka-band OFF	