

# XRT Timeline to be uploaded on 2009/03/21

Period: 2009/03/21 09:40:00 - 2009/03/26 10:03:00

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## Normal mode

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XOB #15E7: HOP81 - Al/poly, G-band - 16s - 384x384													
Term		Pointing (x, y)					Comment						
03/21 10:09:00 - 03/21 17:54:54		Fixed ( 0.0, 940.0)					# OP start + 10min, HOP 81, polar monitoring campn, N pole.						
<b>PROG= 12 Inf.-time(s)</b>													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 1 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1064, 1048)	Q=90	0	0	2.0sec
└─ Subr= 2 1-time(s) 2.0sec													
└─ Seqn= 99 30-time(s) 60.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=90	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1650: Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(723/11571) + G-band(16)-2													
Term		Pointing (x, y)					Comment						
03/21 17:58:00 - 03/21 18:09:54		Fixed ( 0.0, 0.0)					synoptic, shifted manually.						
03/22 18:08:00 - 03/23 05:35:54		Fixed ( 0.0, 0.0)					synoptic, shifted 5.0 min						
03/23 17:42:00 - 03/24 05:57:54		Fixed ( 0.0, 0.0)					synoptic, shifted -21.0 min						
<b>PROG= 16 1-time(s)</b>													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 36 1-time(s) 4.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 7 1-time(s) 2.0sec													
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 88 1-time(s) 4.0sec													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 92 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #162A: Synoptic 9 Filter- 2x2 Q98													
Term		Pointing (x, y)					Comment						
03/21 18:12:00 - 03/21 18:49:54		Fixed ( 0.0, 0.0)					synoptic, shifted manually.						
<b>PROG= 11 1-time(s)</b>													
└─ Subr= 1 1-time(s) 180.0sec													
└─ Seqn= 82 1-time(s) 25.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 57 1-time(s) 25.0sec													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 63 1-time(s) 25.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 93 1-time(s) 25.0sec													
	C-poly/Open	C-poly/Open	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
	C-poly/Open	C-poly/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 30 1-time(s) 25.0sec													
	Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 42 1-time(s) 4.0sec													
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Subr= 2 1-time(s) 360.0sec													
└─ Seqn= 20 1-time(s) 4.0sec													
	med-Al/Open	med-Al/Open	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 45 1-time(s) 4.0sec													
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 50 1-time(s) 4.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 92 1-time(s) 4.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1661: Bright point - multfilter - 512x512 - AEC 4 - Q95-2												
Term		Pointing (x, y)					Comment					
03/21 18:53:00 - 03/22 06:02:24		Track ( -51.1, -0.0) @ 03/21 18:30:00					# QS tracking for EIS QS diagnostics, and SOT cancelation observations (telemetry permitting)					
03/23 10:03:00 - 03/23 14:51:30		Track ( 53.6, -0.4) @ 03/23 05:46:00					# Cont., and also EIS EUV response to magnetic cancelation events (with SOT and XRT sup					
<b>PROG= 19 Inf.-time(s)</b>												
└─ Subr= 1 1-time(s) 2.0sec												

<b>Seqn= 53 10-time(s) 240.0sec</b>												
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	4	0	2.0sec
C-poly/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	4	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	4	0	2.0sec
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	4	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	4	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

**XOB #166B: Synoptic Q95 2x2 - Al/mesh(256/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(512/4096) + G-band(16)**

Term	Pointing (x, y)	Comment
03/22 06:05:30 - 03/22 06:12:24	Fixed ( 0.0, 0.0)	synoptic, shifted 2.5 min
03/23 05:39:00 - 03/23 09:59:54	Fixed ( 0.0, 0.0)	synoptic, shifted -24.0 min
03/24 06:01:00 - 03/26 10:03:00	Fixed ( 0.0, 0.0)	synoptic, shifted -2.0 min

**PROG= 03 1-time(s)**

<b>Subr= 1 1-time(s) 12.0sec</b>												
<b>Seqn= 68 1-time(s) 4.0sec</b>												
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
<b>Seqn= 7 1-time(s) 2.0sec</b>												
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
<b>Seqn= 89 1-time(s) 4.0sec</b>												
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
<b>Seqn= 92 1-time(s) 2.0sec</b>												
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

**XOB #164A: Use with caution - Quiet Sun deep exposures - thin filters - 768x768 - Q95**

Term	Pointing (x, y)	Comment
03/22 06:15:30 - 03/22 10:12:30	Track ( 57.7, -0.3) @ 03/22 06:12:30	# Cont.

**PROG= 14 Inf.-time(s)**

<b>Subr= 1 1-time(s) 2.0sec</b>												
<b>Seqn= 95 10-time(s) 4.0sec</b>												
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	45.2s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
C-poly/Open	C-poly/Open	close	Safe	Norm	64.0s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
med-Be/Open	med-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	64.0s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	64.0s	Obs	1x1	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

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**Flare mode**

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NOT USED

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**Active Region Search**

\* \* \* \* \*

NOT USED

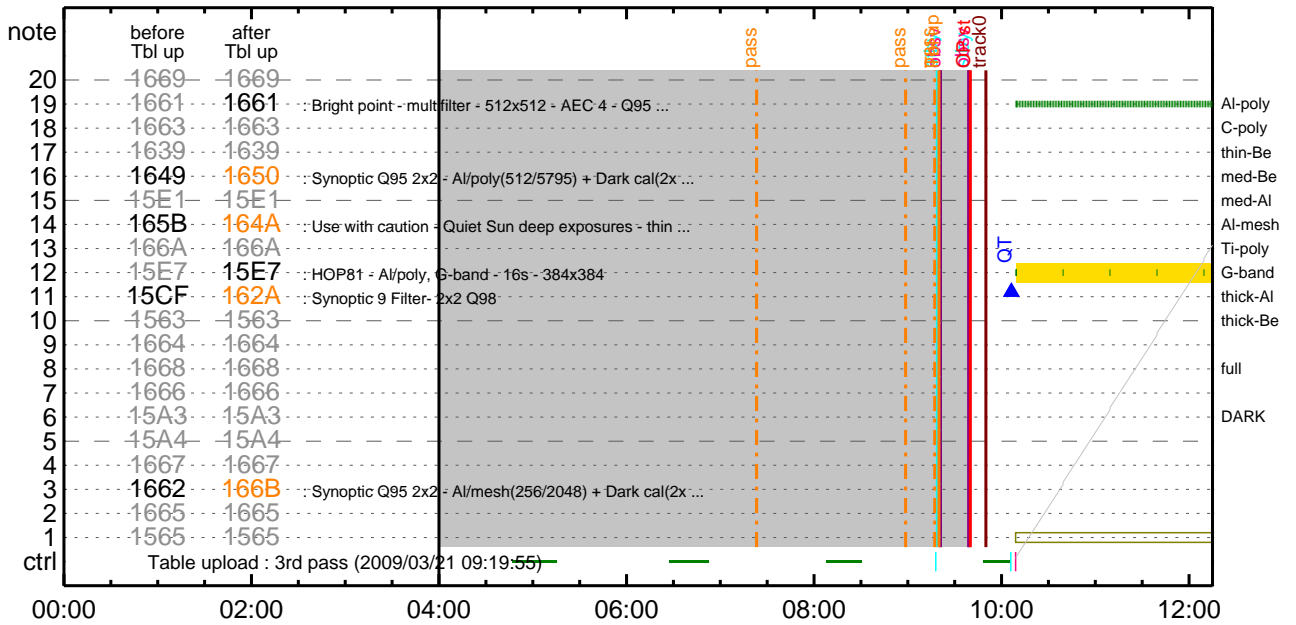
\* \* \* \* \*

**Flare Detection**

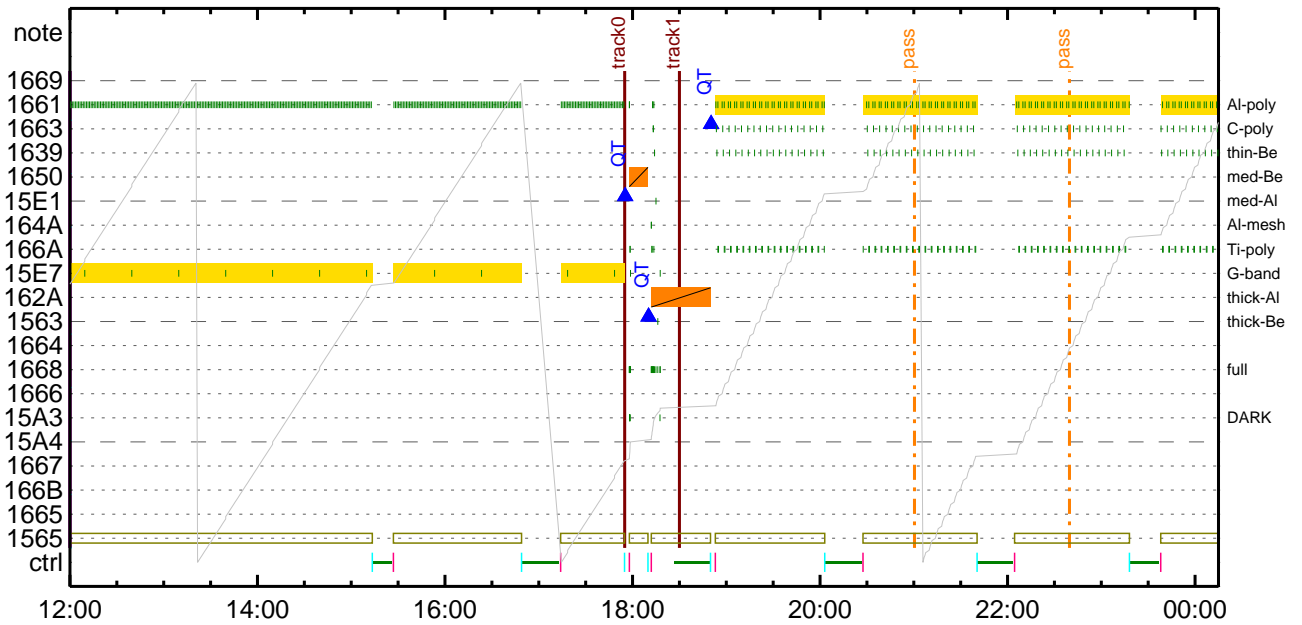
\* \* \* \* \*

NOT USED

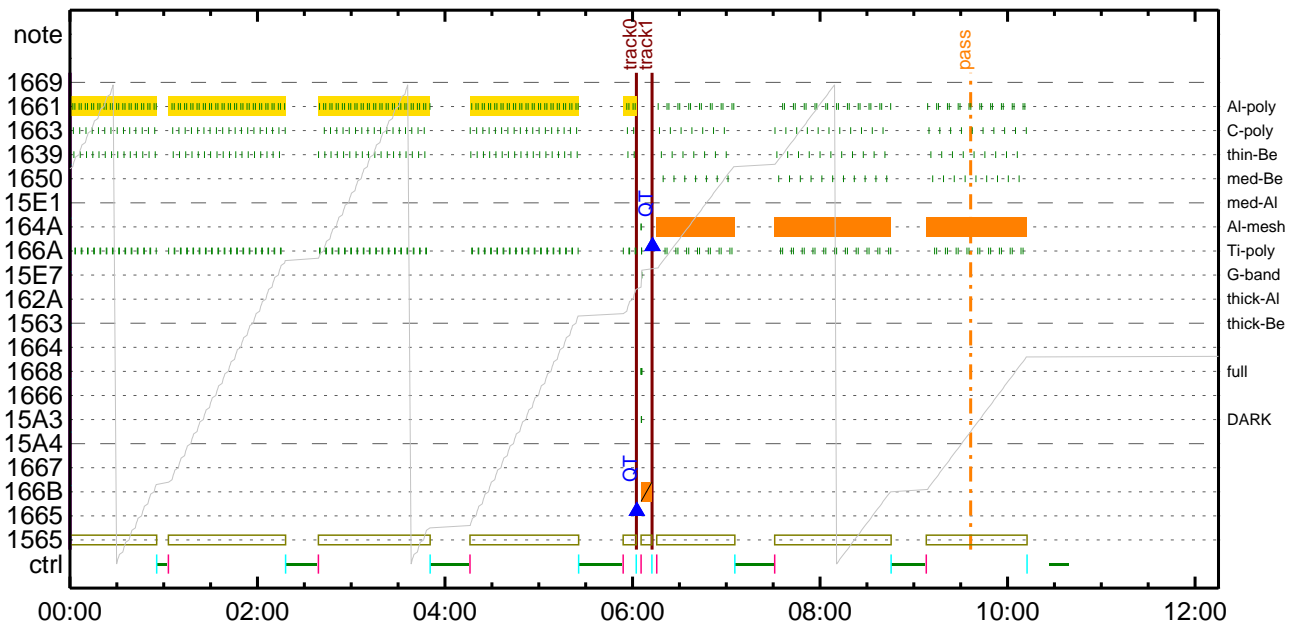
### CMDI #0461 2009/03/21



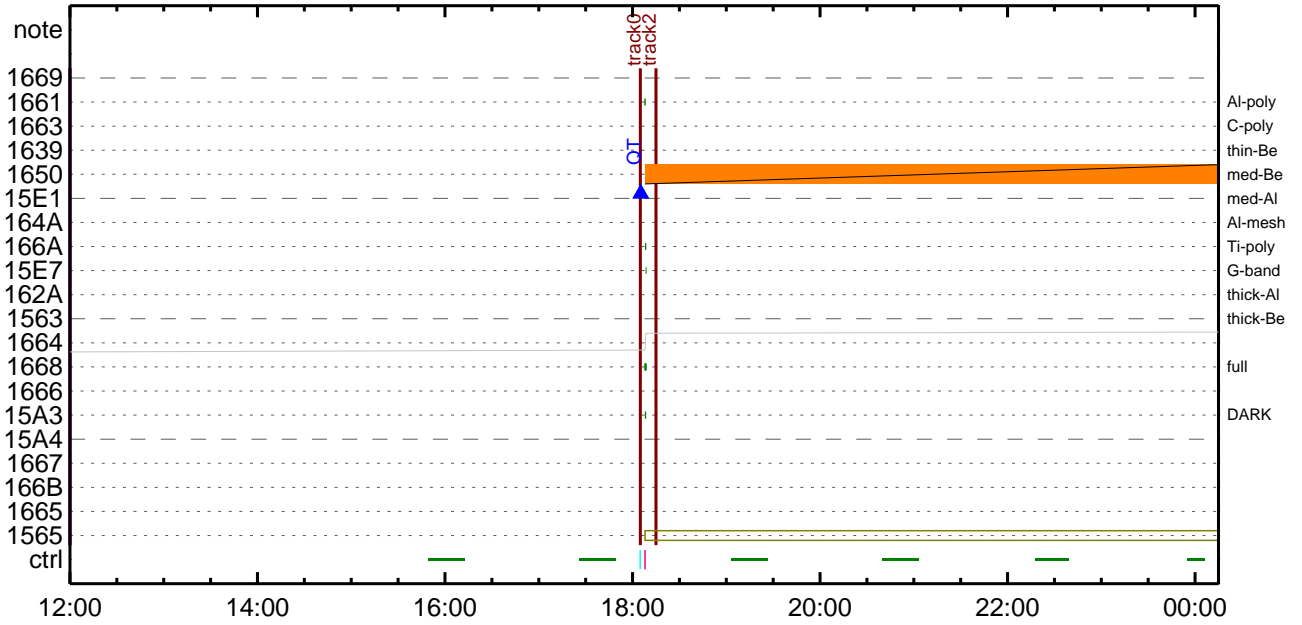
### CMDI #0461 2009/03/21



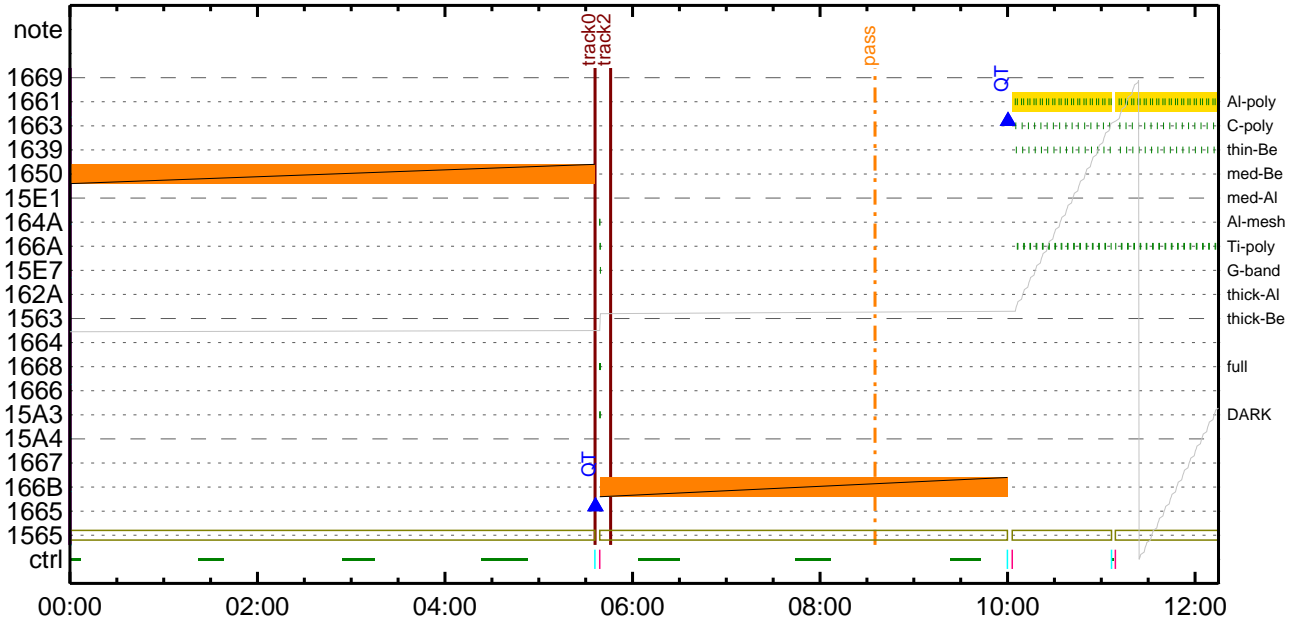
### CMDI #0461 2009/03/22



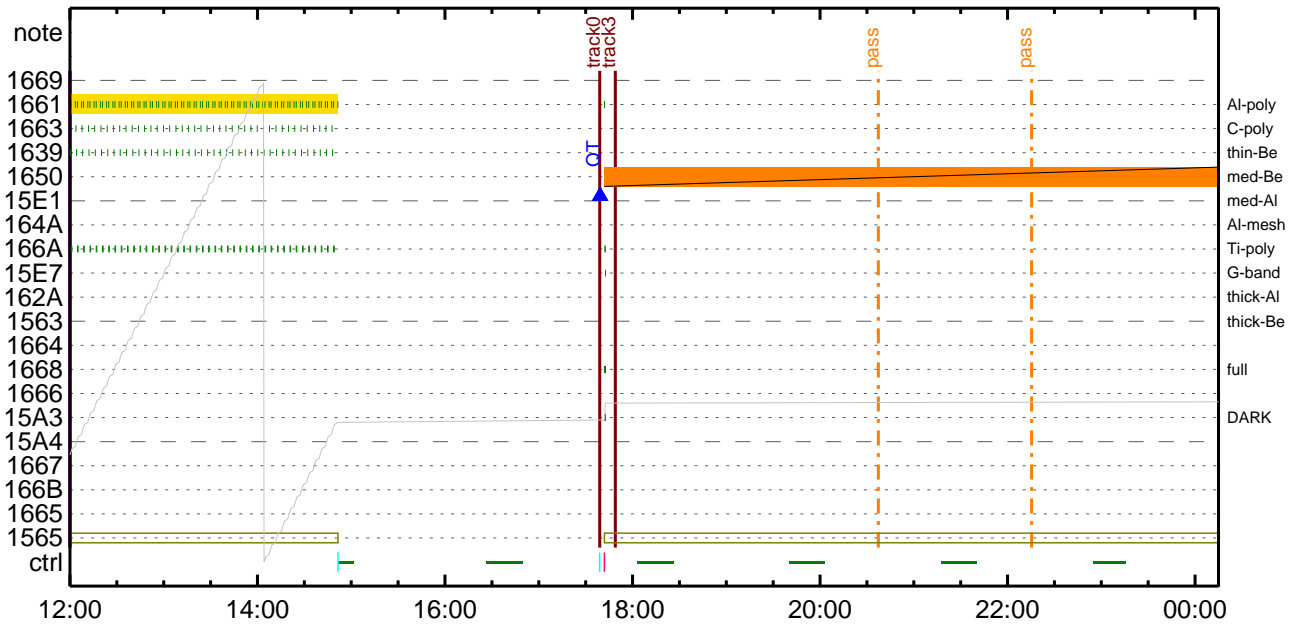
CMDI #0461 2009/03/22



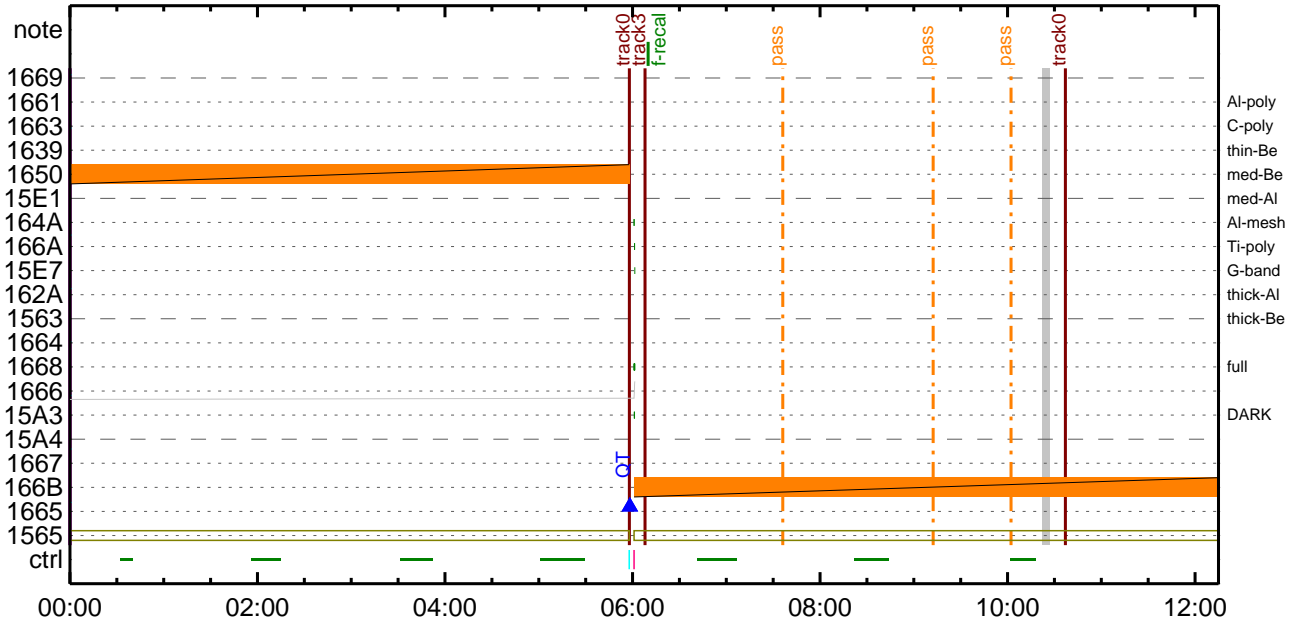
CMDI #0461 2009/03/23



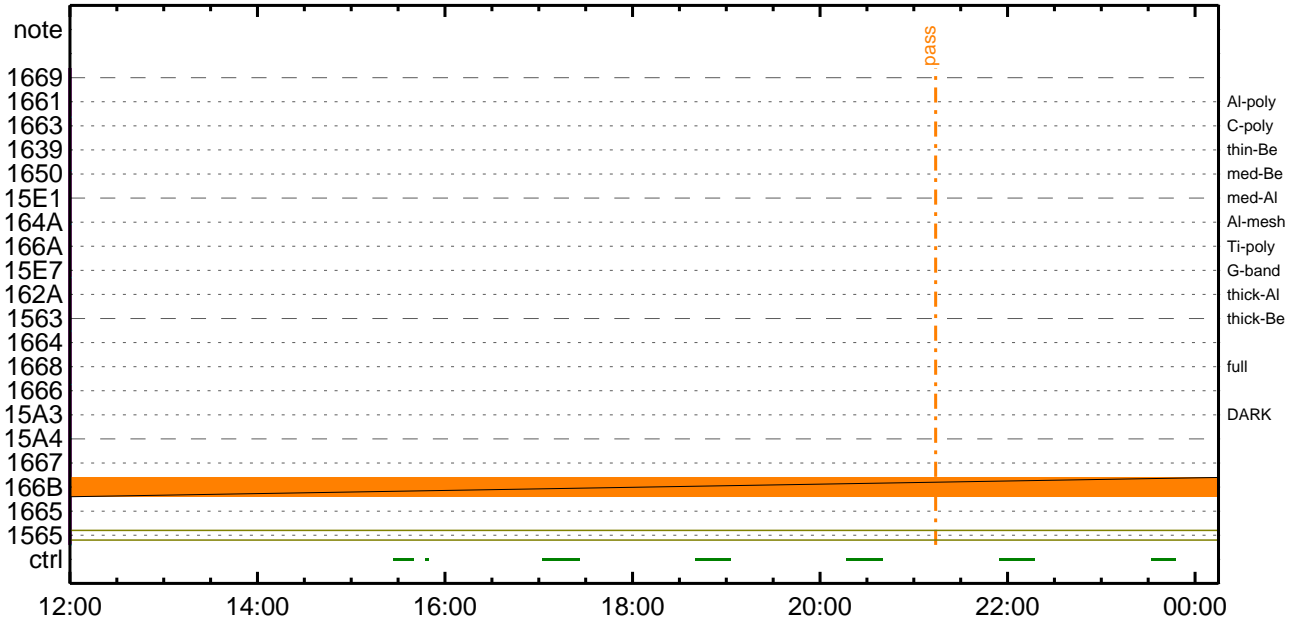
CMDI #0461 2009/03/23



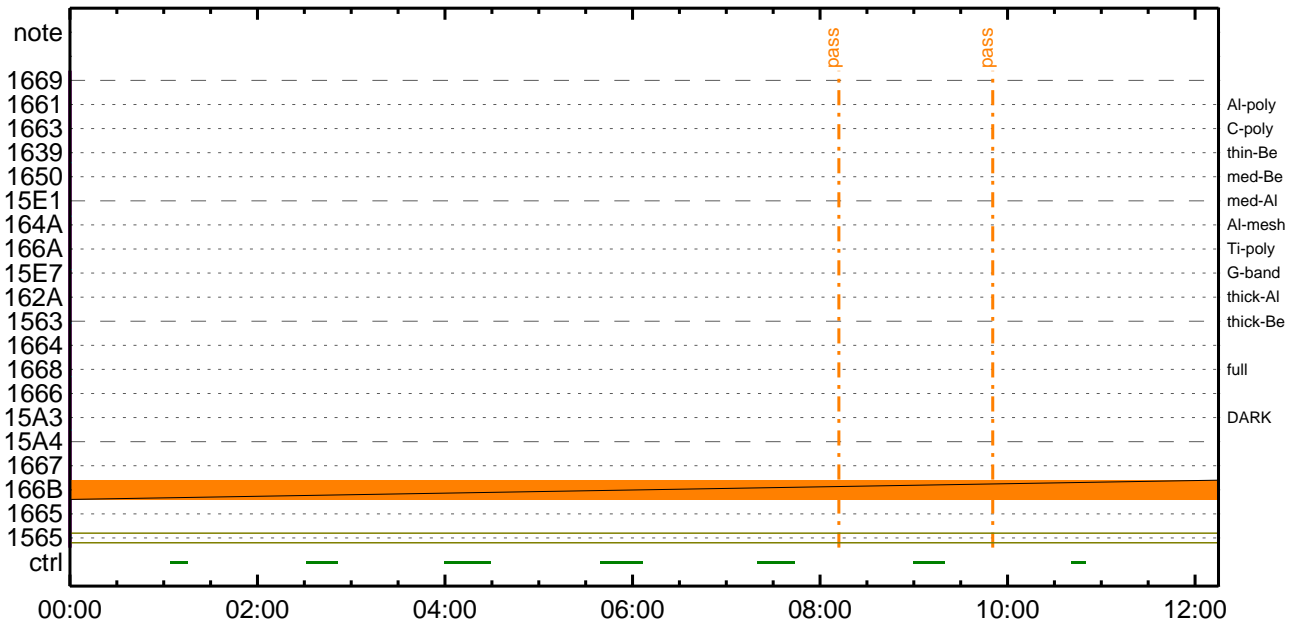
CMDI #0461 2009/03/24



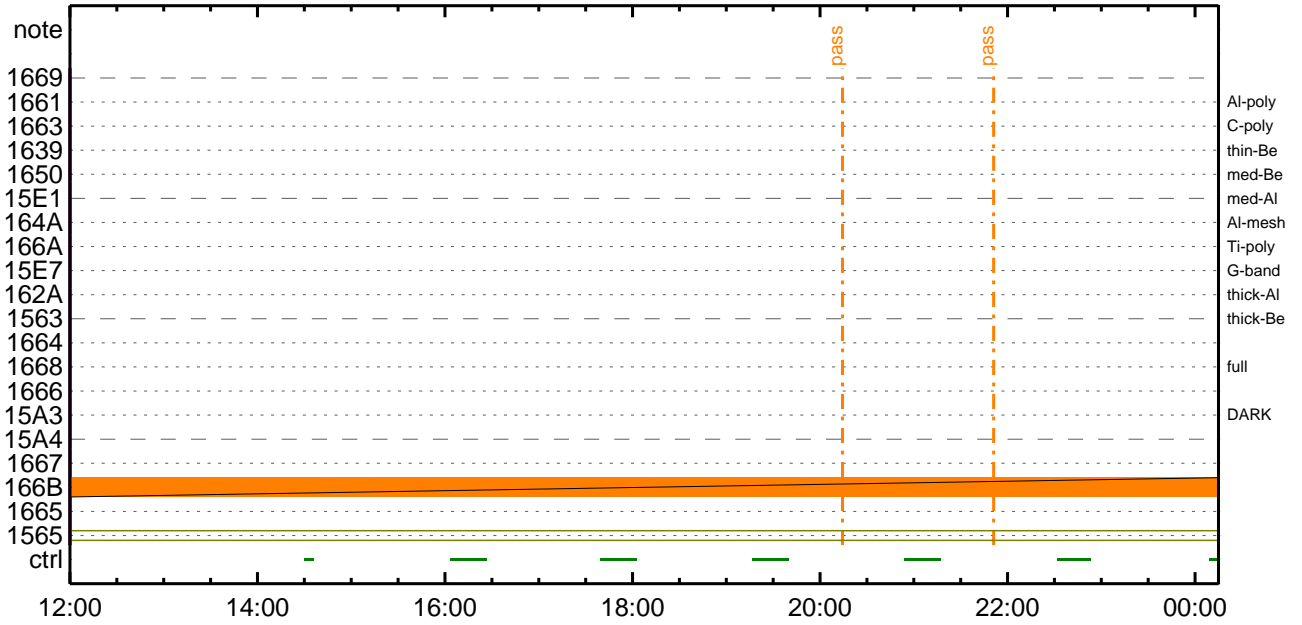
CMDI #0461 2009/03/24



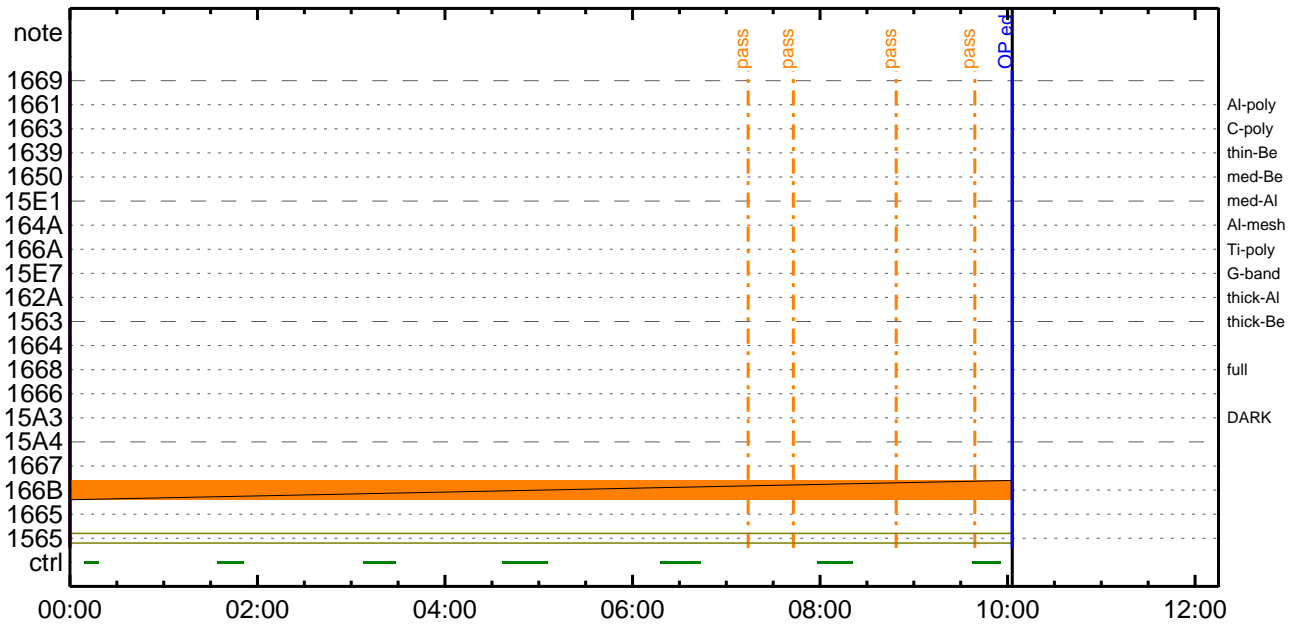
CMDI #0461 2009/03/25



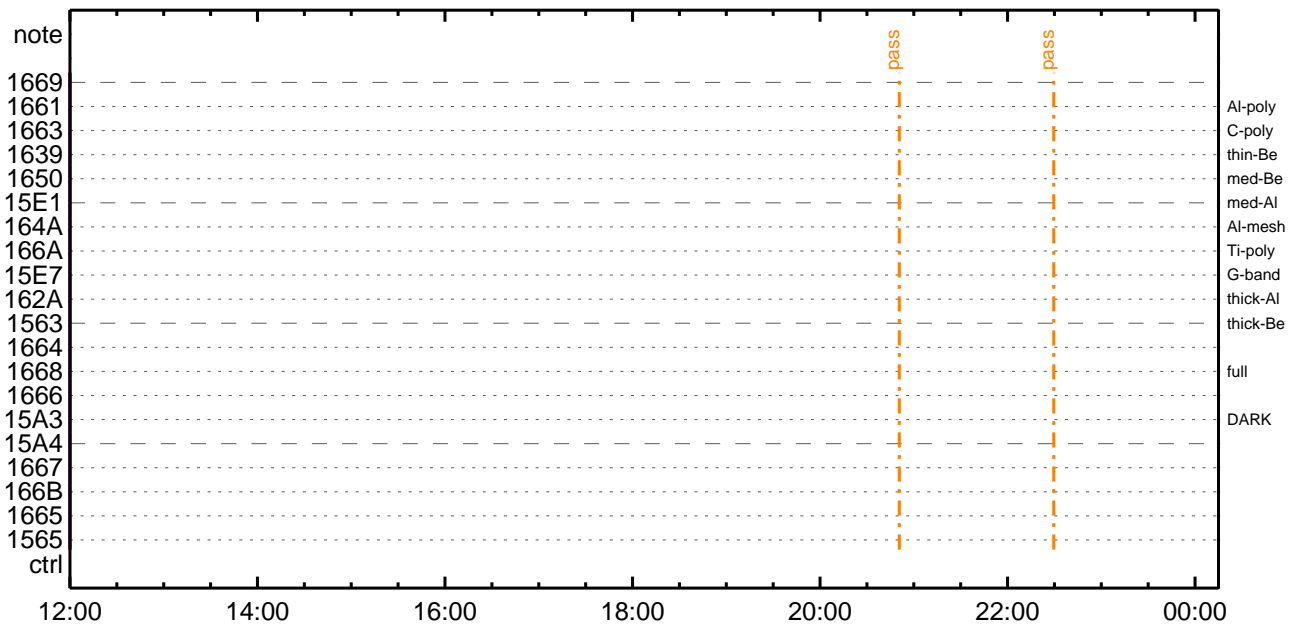
CMDI #0461 2009/03/25



CMDI #0461 2009/03/26



CMDI #0461 2009/03/26





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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;ã
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-486:OP
0104 ( )
0105 S. OG og-486:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°ëYAYôYx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAYôYx½ªî»ò³îç§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î¼E¹ç.ë²îOK²³îç§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAYôYx½ªî»ò³îç§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î¼E¹ç.ë²îOK²³îç§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAYôYx½ªî»ò³îç§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î¼E¹ç.ë²îOK²³îç§
0165 C.
0166 C. ***** °E²¼²î¼E¹ç.ë²îOK²³îç§ *****
0167 C. DHUYâ;½YE;E½Y½.¥î;½YE;Eòðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²-Á÷ç@NG²î¼E¹ç;ç°E²¼²î¼E¹ç@²î¼E¹ç²î¼E¹ç²î¼E¹ç
0180 C. çç[HK1_PKT_FORM_NO] EQ 2
0181 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0182 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0183 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2009-03-21 09:35:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2009-03-21 09:35:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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(a) Spacecraft Operation Procedure (real-commands)

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main-488 2009-03-21 11:37:21 130 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÄY-¼Ä»Û;ä
0005 C.
0006 C. YÄYß;¼Y³YFÿóYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÀø•µ°È»Í×ÁÇøÍYçYÄY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈøÈ¼°ÇÓø•ø¿¼í¹çøÍ;çÀ®, ùø¹øÈøÈøÇÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 06 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 20 20)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 80 0c 0c)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0f 80 80 04 04)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 10 80 80 10 10)
0052 . C. ----- Success Verify ? OK / NG ____
0053 C.
0054 C.
0055 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0056 C.
0057 +. DC 07-F0 MDP_XRT_MODE_OBSV
0058 BC (c2)
0059 +. TI 2009-03-21 09:39:02.0
0060 DC 07-F0 MDP_XRT_MODE_OBSV
0061 BC (c2)
0062 . C. ----- Success Verify ? OK / NG ____
0063 C.
0064 C. ***** XRT END *****
0065 . C. *****
0066 C. SOT table upload
0067 C. *****
0068 . C. < Stop FG table >
0069 +. DC 07-F0 MDP_FG_CTRL_MANU
0070 BC (51)
0071 . C. -----
0072 C. MDP_FG_CTRL_MODE = MANU [ ]
0073 C. -----
0074 C.
0075 . C. <Upload FG Observation Table>
0076 . S. RAM ram-264:MDP_OBS_F
0077 ( )
0078 C.
0079 . C. < Dump RAMID=MDP_OBS_F >
0080 +. DC 07-F0 MDP_DUMP_FGTBL
0081 BC (82 07 00 00 00 38 b8)
0082 C. -----
0083 C. MDP_OBS_F verify = OK/NG [ ]
0084 C. -----
0085 C.
0086 . C. < Stop SP table >
0087 +. DC 07-F0 MDP_SP_CTRL_MANU
0088 BC (61)
0089 C. -----
0090 C. MDP_SP_CTRL_MODE = MANU [ ]
0091 C. -----
0092 C.
0093 . C. <Upload SP Observation Table>
0094 . S. RAM ram-286:MDP_OBS_S
0095 ( )
```



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\*\*\* OP Sequence for XRT \*\*\*

2009/03/21	09:50:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	00	ac	73	00	00
2009/03/21	10:05:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	10:05:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/03/21	10:06:16.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0		c4		0c	
2009/03/21	10:06:18.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0		d0			
2009/03/21	10:06:20.5	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0		d5			
2009/03/21	10:06:22.5	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0		d9			
2009/03/21	10:06:24.5	XRT_FLRCTRL_DIS_406_OG [0x196]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2009/03/21	10:09:00.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	15:13:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	15:26:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/21	15:27:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	16:49:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	17:13:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/21	17:14:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	17:54:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	17:54:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2009/03/21	17:55:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2009/03/21	17:55:16.0	XRT_QT_PROG_SET_404_OG [0x194]							
		MDP_XRT_QT_PROG_SET	2	07-F0		c4		10	
2009/03/21	17:55:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0		d9			
2009/03/21	17:55:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2009/03/21	17:55:22.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0		d5			
2009/03/21	17:58:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	18:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	18:09:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2009/03/21	18:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]							
		MDP_XRT_QT_PROG_SET	2	07-F0		c4		0b	
2009/03/21	18:10:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0		d9			
2009/03/21	18:10:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2009/03/21	18:10:22.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0		d5			
2009/03/21	18:12:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	18:30:00.0	AOCS_ORe-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	01	00	00	00	00
2009/03/21	18:49:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	18:49:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/03/21	18:50:16.0	XRT_QT_PROG_SET_401_OG [0x191]							
		MDP_XRT_QT_PROG_SET	2	07-F0		c4		13	
2009/03/21	18:50:18.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0		d0			
2009/03/21	18:50:20.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0		d5			
2009/03/21	18:50:22.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0		d9			
2009/03/21	18:50:24.0	XRT_FLRCTRL_DIS_406_OG [0x196]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2009/03/21	18:53:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	20:03:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	20:26:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/21	20:27:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	21:40:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	22:03:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/21	22:04:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2009/03/21	23:18:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0		c1			
2009/03/21	23:37:00.5	XRT_Custom_430_OG [0x1ae]							
2009/03/21	23:38:00.5	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0		c0			

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2009/03/22	00:55:30.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	01:02:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	01:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	02:18:00.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	02:38:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	02:39:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	03:50:30.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	04:15:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	04:16:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	05:25:30.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	05:53:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	05:54:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	06:02:24.0	XRT_CTRL_MANU_428_OG [0x1ac]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	06:02:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]								
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00					
2009/03/22	06:02:30.0	AOCS_ORe-point_Start_2_OG [0x098]								
		AOCU_NM	5	02-76	00 00 00 00 00					
2009/03/22	06:02:46.0	XRT_QT_PROG_SET_443_OG [0x1bb]								
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03					
2009/03/22	06:02:48.0	XRT_FLD_DIS_419_OG [0x1a3]								
		MDP_XRT_FLD_DIS	1	07-F0	d9					
2009/03/22	06:02:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]								
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9					
2009/03/22	06:02:52.0	XRT_ARS_DIS_410_OG [0x19a]								
		MDP_XRT_ARS_DIS	1	07-F0	d5					
2009/03/22	06:05:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	06:12:24.0	XRT_CTRL_MANU_428_OG [0x1ac]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	06:12:26.0	XRT_FOCUS_POSITION_441_OG [0x1b9]								
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00					
2009/03/22	06:12:30.0	AOCS_ORe-point_Start_3_OG [0x099]								
		AOCU_NM	5	02-76	01 00 00 00 00					
2009/03/22	06:12:46.0	XRT_QT_PROG_SET_426_OG [0x1aa]								
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e					
2009/03/22	06:12:48.0	XRT_AEC_RESET_415_OG [0x19f]								
		MDP_XRT_AEC_RESET	1	07-F0	d0					
2009/03/22	06:12:50.0	XRT_ARS_DIS_422_OG [0x1a6]								
		MDP_XRT_ARS_DIS	1	07-F0	d5					
2009/03/22	06:12:52.0	XRT_FLD_DIS_445_OG [0x1bd]								
		MDP_XRT_FLD_DIS	1	07-F0	d9					
2009/03/22	06:12:54.0	XRT_FLRCTRL_DIS_406_OG [0x196]								
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9					
2009/03/22	06:15:30.0	XRT_CTRL_AUTO_403_OG [0x193]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	07:05:30.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	07:30:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	07:31:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	08:45:30.0	XRT_CTRL_MANU_435_OG [0x1b3]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	09:07:00.0	XRT_Custom_430_OG [0x1ae]								
2009/03/22	09:08:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	10:12:30.0	XRT_CTRL_MANU_428_OG [0x1ac]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	18:04:54.0	XRT_CTRL_MANU_428_OG [0x1ac]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/22	18:04:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]								
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00					
2009/03/22	18:05:00.0	AOCS_ORe-point_Start_2_OG [0x098]								
		AOCU_NM	5	02-76	00 00 00 00 00					
2009/03/22	18:05:16.0	XRT_QT_PROG_SET_404_OG [0x194]								
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 10					
2009/03/22	18:05:18.0	XRT_FLD_DIS_419_OG [0x1a3]								
		MDP_XRT_FLD_DIS	1	07-F0	d9					
2009/03/22	18:05:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]								
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9					
2009/03/22	18:05:22.0	XRT_ARS_DIS_410_OG [0x19a]								
		MDP_XRT_ARS_DIS	1	07-F0	d5					
2009/03/22	18:08:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]								
		MDP_XRT_CTRL_AUTO	1	07-F0	c0					
2009/03/22	18:15:00.0	AOCS_ORe-point_Start_4_OG [0x09a]								
		AOCU_NM	5	02-76	02 00 00 00 00					
2009/03/23	05:35:54.0	XRT_CTRL_MANU_428_OG [0x1ac]								
		MDP_XRT_CTRL_MANU	1	07-F0	c1					
2009/03/23	05:35:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]								
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00					
2009/03/23	05:36:00.0	AOCS_ORe-point_Start_2_OG [0x098]								
		AOCU_NM	5	02-76	00 00 00 00 00					
2009/03/23	05:36:16.0	XRT_QT_PROG_SET_443_OG [0x1bb]								
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03					
2009/03/23	05:36:18.0	XRT_FLD_DIS_419_OG [0x1a3]								

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2009/03/23	05:36:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLD_DIS	1	07-F0	d9
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/03/23	05:36:22.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/03/23	05:39:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/03/23	05:46:00.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	02 00 00 00 00
2009/03/23	09:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/03/23	09:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/03/23	10:00:16.0	XRT_QT_PROG_SET_401_OG [0x191]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 13
2009/03/23	10:00:18.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0
2009/03/23	10:00:20.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/03/23	10:00:22.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/03/23	10:00:24.0	XRT_FLRCTRL_DIS_406_OG [0x196]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/03/23	10:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/03/23	11:06:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/03/23	11:08:00.0	XRT_Custom_430_OG [0x1ae]				
2009/03/23	11:09:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/03/23	14:51:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/03/23	17:38:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/03/23	17:38:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/03/23	17:39:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2009/03/23	17:39:16.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2009/03/23	17:39:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/03/23	17:39:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/03/23	17:39:22.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/03/23	17:42:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/03/23	17:49:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	03 00 00 00 00
2009/03/24	05:57:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/03/24	05:57:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/03/24	05:58:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2009/03/24	05:58:16.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 03
2009/03/24	05:58:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/03/24	05:58:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/03/24	05:58:22.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/03/24	06:01:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/03/24	06:08:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	03 00 00 00 00
2009/03/24	06:10:00.0	XRT_FOCUS_RECALIBRATE_446_OG [0x1be]	XRT_FOCUS_RECAL	2	07-F8	78 00
2009/03/24	10:37:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00