

XRT Timeline to be uploaded on 2008/08/09

Period: 2008/08/09 11:37:00 - 2008/08/14 11:27:00

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Normal mode

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XOB #1550: G-Band Alignment with North Pole Q90 2x2(G-band only) 8min Cadence - ROI For Limb Alignment-3												
Term	Pointing (x, y)							Comment				
08/09 12:02:00 - 08/09 14:00:00	Fixed (0.0, 945.0)							# OP start + 10min, alignment offset N.				
PROG= 06 1-time(s)												
└─ Subr= 1 1-time(s) 360.0sec												
└─ Seqn= 58 13-time(s) 480.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #1551: G-Band Alignment with East limb Q90 2x2 (G-band only) 8min Cadence - ROI for Limb Alignment-3												
Term	Pointing (x, y)							Comment				
08/09 14:45:00 - 08/09 16:45:00	Fixed (-945.0, 0.0)							* Alignment offset, E.				
PROG= 01 1-time(s)												
└─ Subr= 1 1-time(s) 360.0sec												
└─ Seqn= 30 13-time(s) 480.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15A3: Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16)												
Term	Pointing (x, y)							Comment				
08/09 17:51:30 - 08/09 17:59:24	Fixed (0.0, 0.0)							synoptic, shifted -10.5 min				
08/10 17:55:30 - 08/10 18:03:24	Fixed (0.0, 0.0)							synoptic, shifted -6.5 min				
08/11 18:15:30 - 08/11 18:23:24	Fixed (0.0, 0.0)							synoptic, shifted 13.5 min				
PROG= 11 1-time(s)												
└─ Subr= 1 1-time(s) 12.0sec												
└─ Seqn= 18 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= 72 1-time(s) 2.0sec												
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 76 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 #1591: Dither Pointing Q3 5x-ray NO_GBAND-long exposure												
Term	Pointing (x, y)							Comment				
08/09 18:47:00 - 08/09 18:51:54	Fixed (528.4, 528.4)							* XRT dither pointing.				
08/09 18:55:00 - 08/09 18:59:54	Fixed (529.4, 538.7)							* Cont.				
08/09 19:03:00 - 08/09 19:07:54	Fixed (530.5, 500.6)							* Cont.				
PROG= 10 1-time(s)												
└─ Subr= 1 1-time(s) 30.0sec												
└─ Seqn= 34 1-time(s) 30.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	1024x1024 (512, 512)	DPCM	0	0	6.0sec
C-poly/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	1x1	1024x1024 (512, 512)	DPCM	0	0	6.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	16.0s	Obs	1x1	1024x1024 (512, 512)	DPCM	0	0	6.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	11.3s	Obs	1x1	1024x1024 (512, 512)	DPCM	0	0	6.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	5.66s	Obs	1x1	1024x1024 (512, 512)	DPCM	0	0	6.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #1592: Dither Pointing Q4 5x-ray NO_GBAND-long exposure												
Term	Pointing (x, y)							Comment				
08/09 19:11:00 - 08/09 19:15:54	Fixed (-528.4, 528.4)							* Cont.				
08/09 19:19:00 - 08/09 19:23:54	Fixed (-535.6, 548.0)							* Cont.				
08/09 19:27:00 - 08/09 19:31:54	Fixed (-549.0, 522.2)							* Last dither pointing.				
PROG= 17 1-time(s)												
└─ Subr= 1 1-time(s) 30.0sec												
└─ Seqn= 27 1-time(s) 30.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	6.0sec
C-poly/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	6.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	16.0s	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	6.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	11.3s	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	6.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	5.66s	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	6.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15AF: XBP Q90 Al/poly (AEC1) + Ti/poly (AEC1) + Thin-Be (AEC0)-high cadence												
Term	Pointing (x, y)							Comment				

08/09 22:02:00 - 08/09 23:04:00 Track (-4.6, 0.1) @ 08/09 22:00:00 HOP 75, XBP study (with Hida).
 08/10 22:32:00 - 08/10 23:41:30 Fixed (0.0, 910.0) * HOP 75 (with Hida), Polar X-ray jet study.
 08/11 23:07:00 - 08/12 00:18:30 Track (2.9, 670.0) @ 08/11 23:05:00 HOP 75 (with Hida), QS chromospheric jet study.

PROG= 16 Inf.-time(s)													
Subr= 1 1-time(s) 400.0sec													
Seqn= 21 10-time(s) 40.0sec													
	Al-poly/Open	C-poly/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=90	1	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=90	1	0	2.0sec
Subr= 2 1-time(s) 4.0sec													
Seqn= 43 1-time(s) 4.0sec													
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	64.0s	Obs	1x1	384x384 (1024, 1024)	Q=90	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #15A4: Synoptic Q95 2x2 - Al/mesh(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16)			
Term	Pointing (x, y)	Comment	
08/10 06:02:00 - 08/10 06:09:54	Fixed (0.0, 0.0)	synoptic, and axion study.	
08/11 06:28:30 - 08/11 06:36:24	Fixed (0.0, 0.0)	synoptic, shifted 26.5 min	
08/12 06:02:00 - 08/12 06:09:54	Fixed (0.0, 0.0)	synoptic	

PROG= 12 1-time(s)													
Subr= 1 1-time(s) 12.0sec													
Seqn= 87 1-time(s) 4.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 72 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 76 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 #157D: Thermal analysis 8x8 2048FOV Al/p-C/p-Al/p+Ti/p-Thin/Be-Med/Al-Thick/Al-Thick/Be-no compression			
Term	Pointing (x, y)	Comment	
08/10 06:15:30 - 08/10 06:35:00	Fixed (0.0, 0.0)	synoptic, and axion study.	
08/10 14:30:30 - 08/10 14:50:00	Fixed (0.0, 0.0)	synoptic, and axion study.	

PROG= 07 1-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 73 1-time(s) 4.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	C-poly/Open	C-poly/Open	close	Safe	Norm	250ms	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	500ms	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	4.00s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 3 3-time(s) 4.0sec													
	med-Al/Open	med-Al/Open	close	Safe	Norm	32.0s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 70 5-time(s) 4.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	64.0s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #15AC: Axion Study no-AEC Be-thick-65s			
Term	Pointing (x, y)	Comment	
08/10 06:35:30 - 08/10 14:30:00	Fixed (0.0, 0.0)	synoptic, and axion study.	

PROG= 19 Inf.-time(s)													
Subr= 1 1-time(s) 100.0sec													
Seqn= 84 25-time(s) 4.0sec													
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
Subr= 2 1-time(s) 4.0sec													
Seqn= 90 1-time(s) 4.0sec													
	Open/thick-Be	Open/thick-Be	close	Safe	Dark	64.0s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #15AE: CH - Al/Mesh (16s) + Ti/Poly (32s) - 512x512 - Q95 - with half-res. full frame			
Term	Pointing (x, y)	Comment	
08/10 16:01:00 - 08/10 17:01:00	Track (647.3, -172.3) @ 08/10 15:30:00	* HOP 76, equatorial CH.	
08/10 19:15:00 - 08/10 20:15:00	Track (531.3, -383.3) @ 08/10 18:03:30	# HOP 76, equatorial CH.	
08/10 20:52:00 - 08/10 21:52:00	Track (271.3, -402.7) @ 08/10 20:30:00	* HOP 76, equatorial CH.	

PROG= 15 Inf.-time(s)													
Subr= 1 1-time(s) 12.0sec													
Seqn= 87 1-time(s) 4.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 72 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 76 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-AI	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Subr= 2 3-time(s) 1200.0sec												
Seqn= 79 1-time(s) 4.0sec												
Open/AI-mesh	Open/AI-mesh	close	Safe	Dark	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 2 10-time(s) 120.0sec												
Open/AI-mesh	Open/AI-mesh	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	0.5sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	32.0s	Obs	1x1	512x512 (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	

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Flare mode

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NOT USED

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Active Region Search

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NOT USED

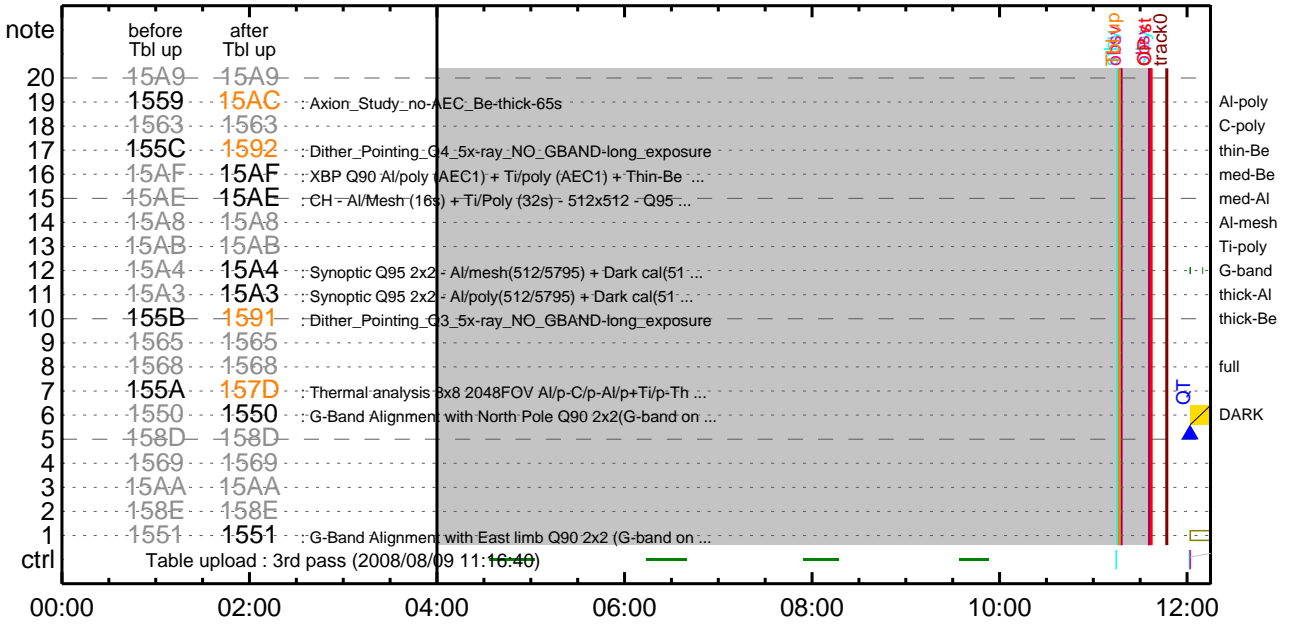
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Flare Detection

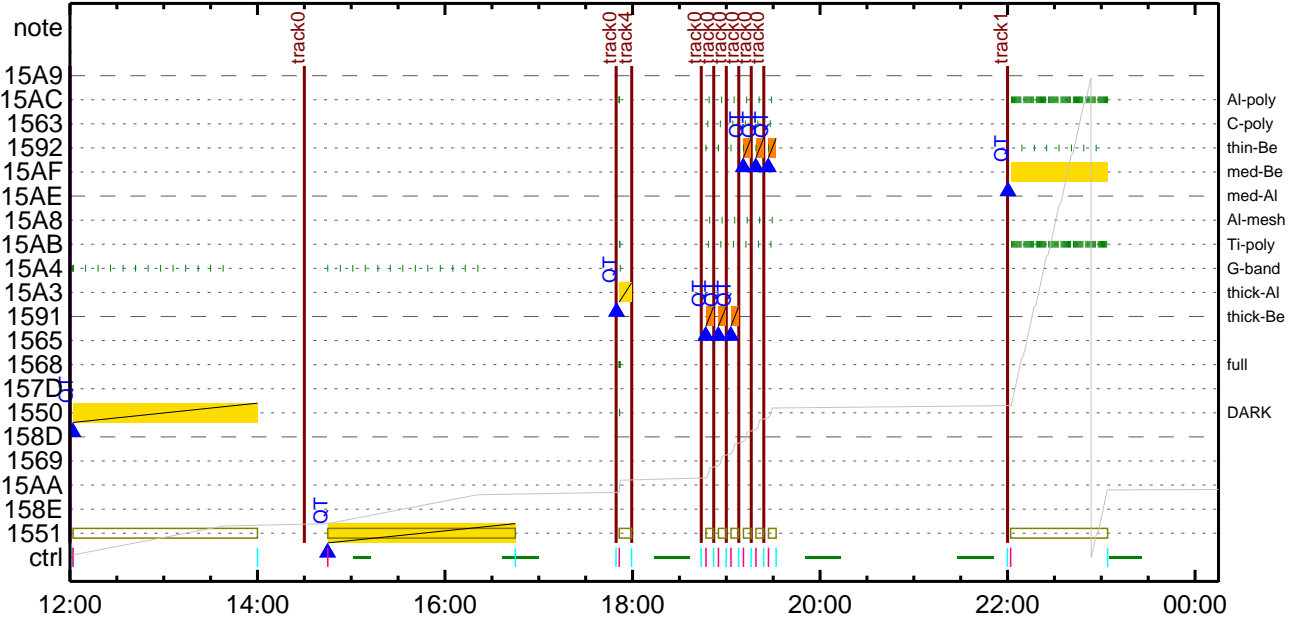
* * * * *

NOT USED

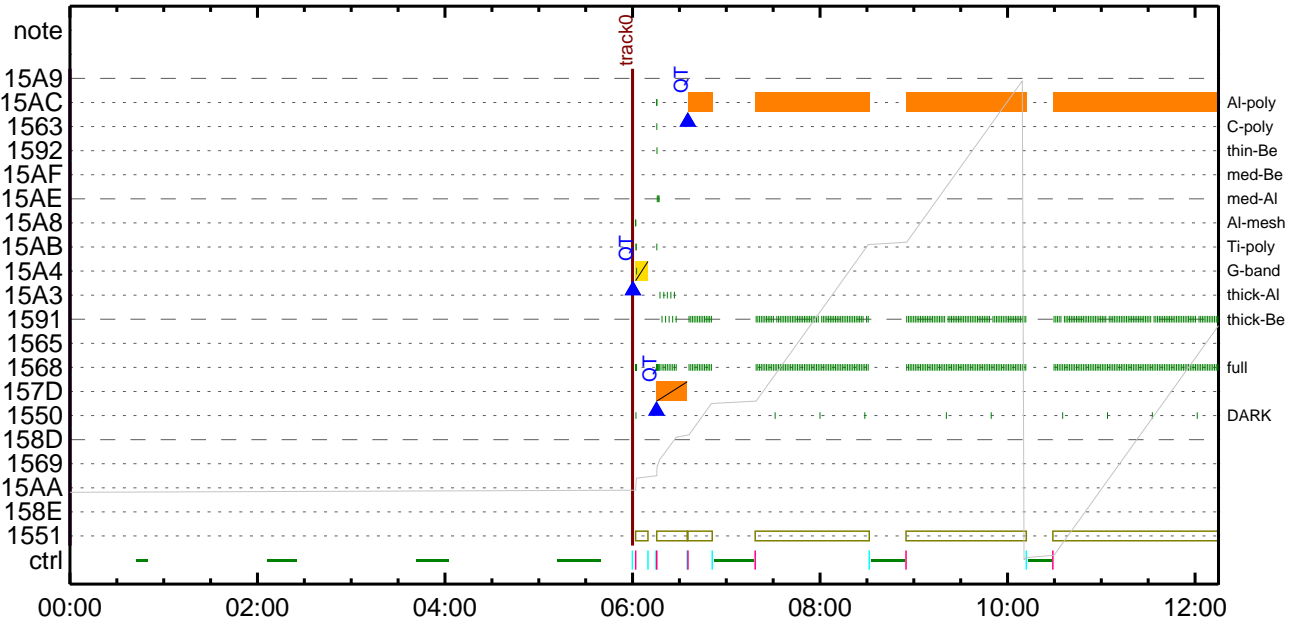
CMDI #0077 2008/08/09



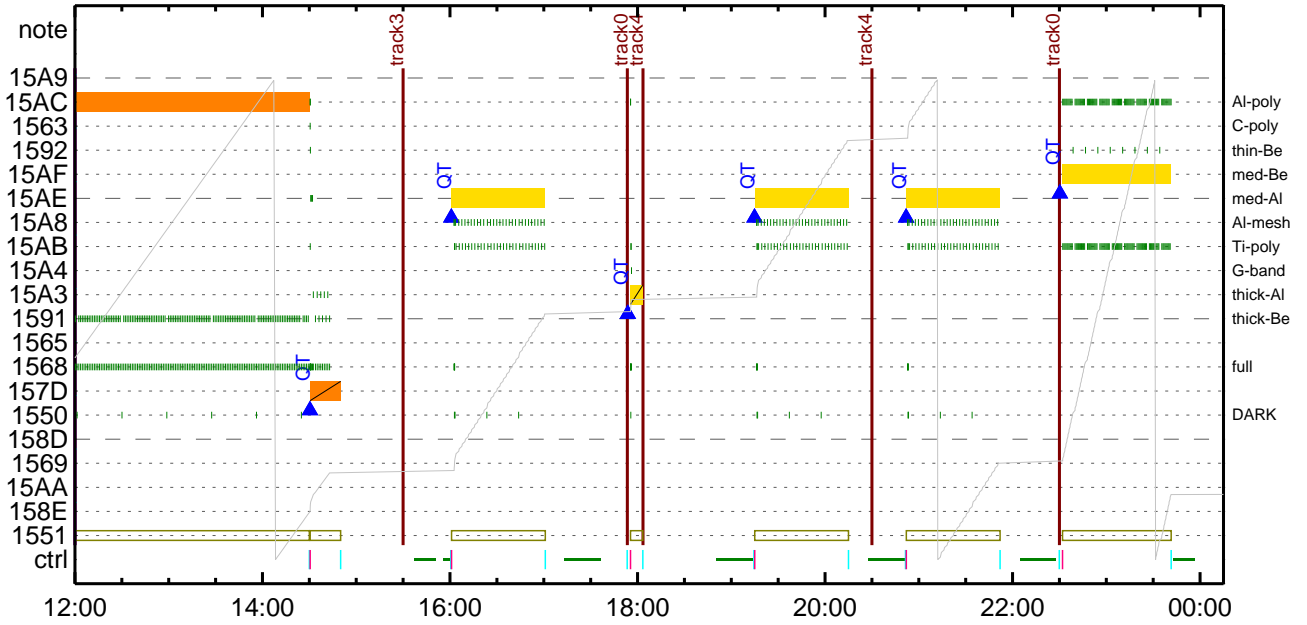
CMDI #0077 2008/08/09



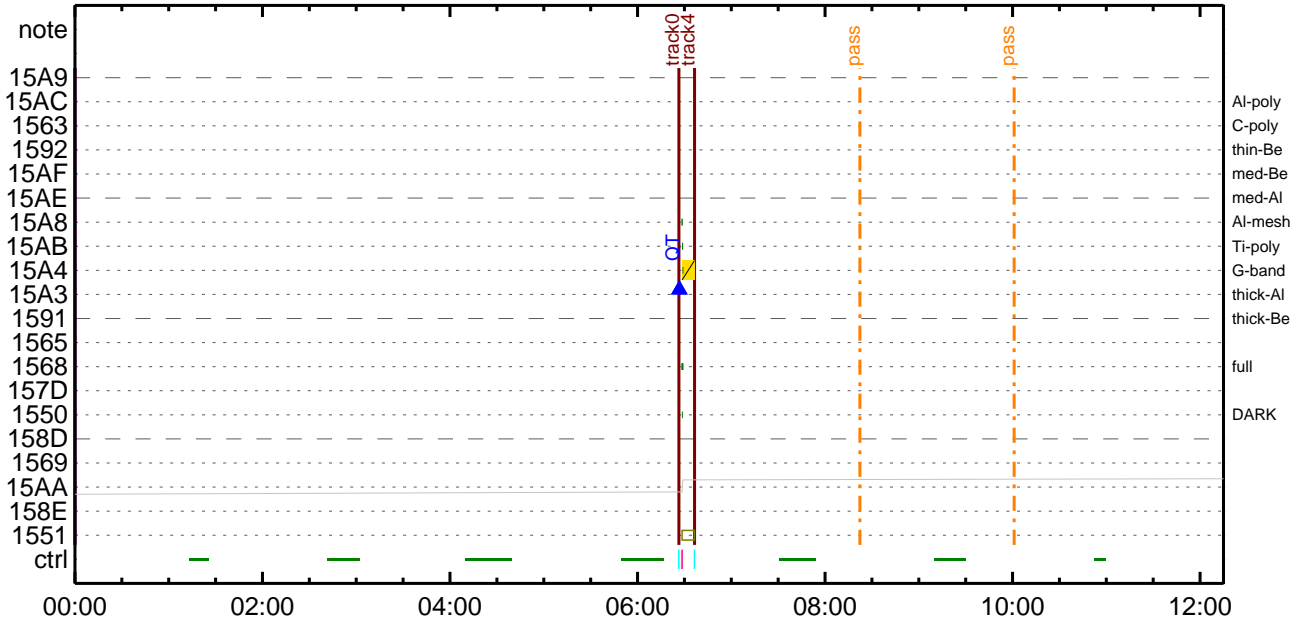
CMDI #0077 2008/08/10



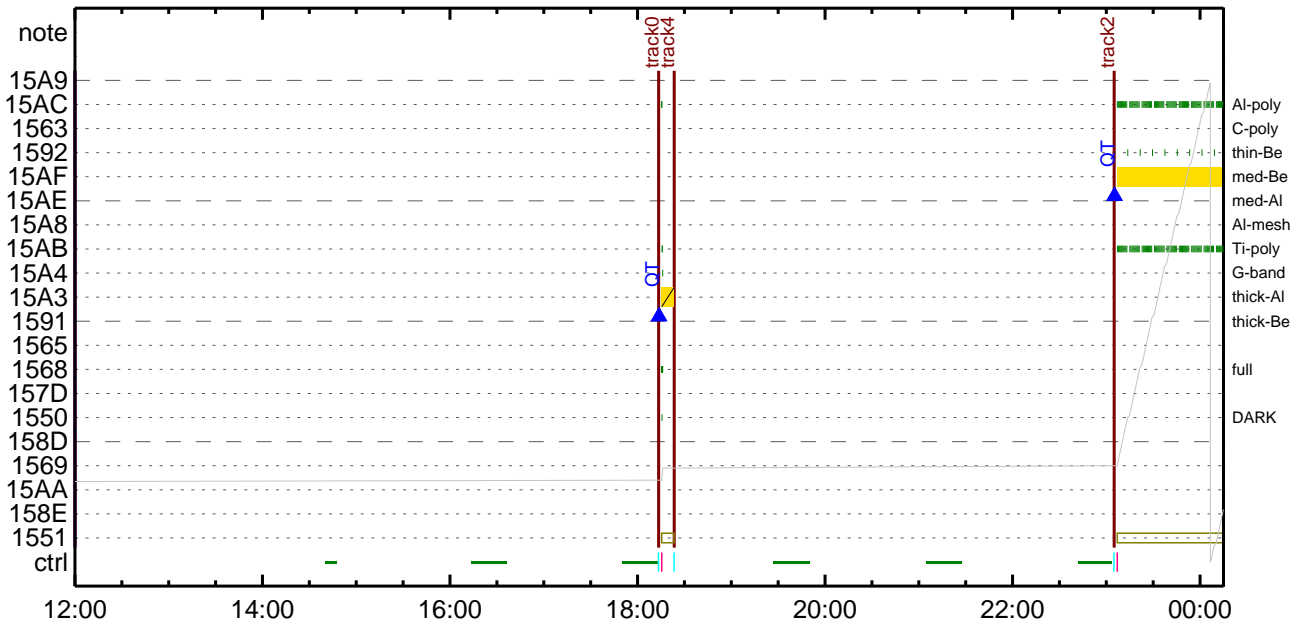
CMDI #0077 2008/08/10



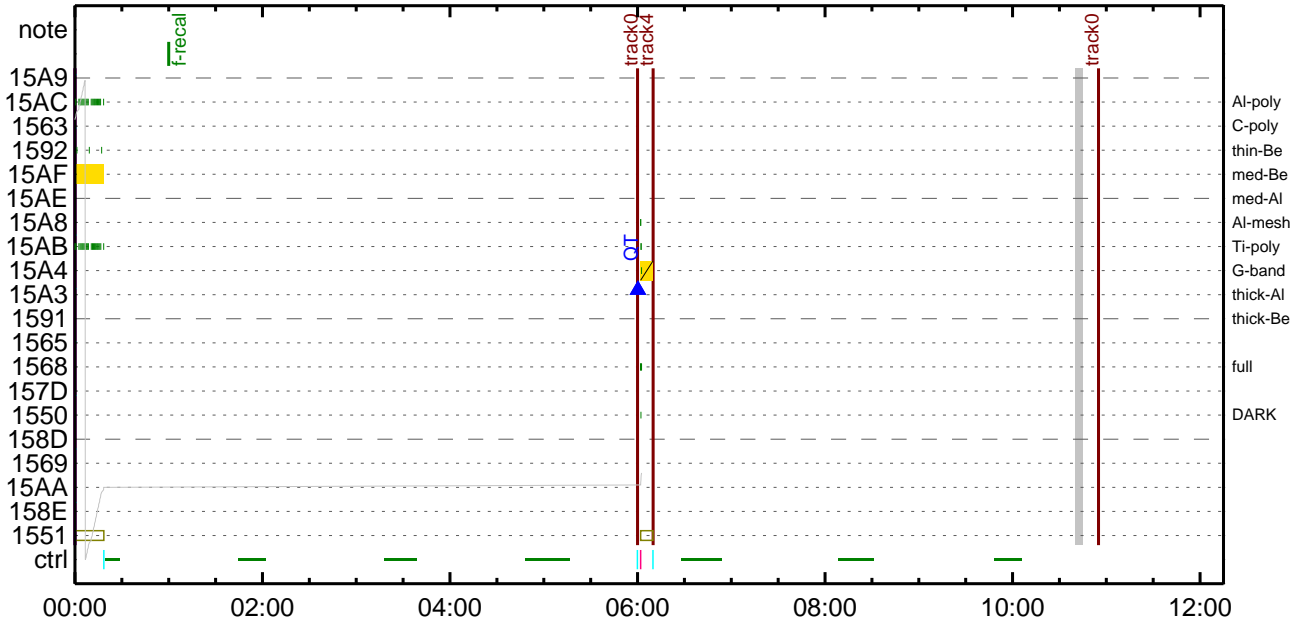
CMDI #0077 2008/08/11



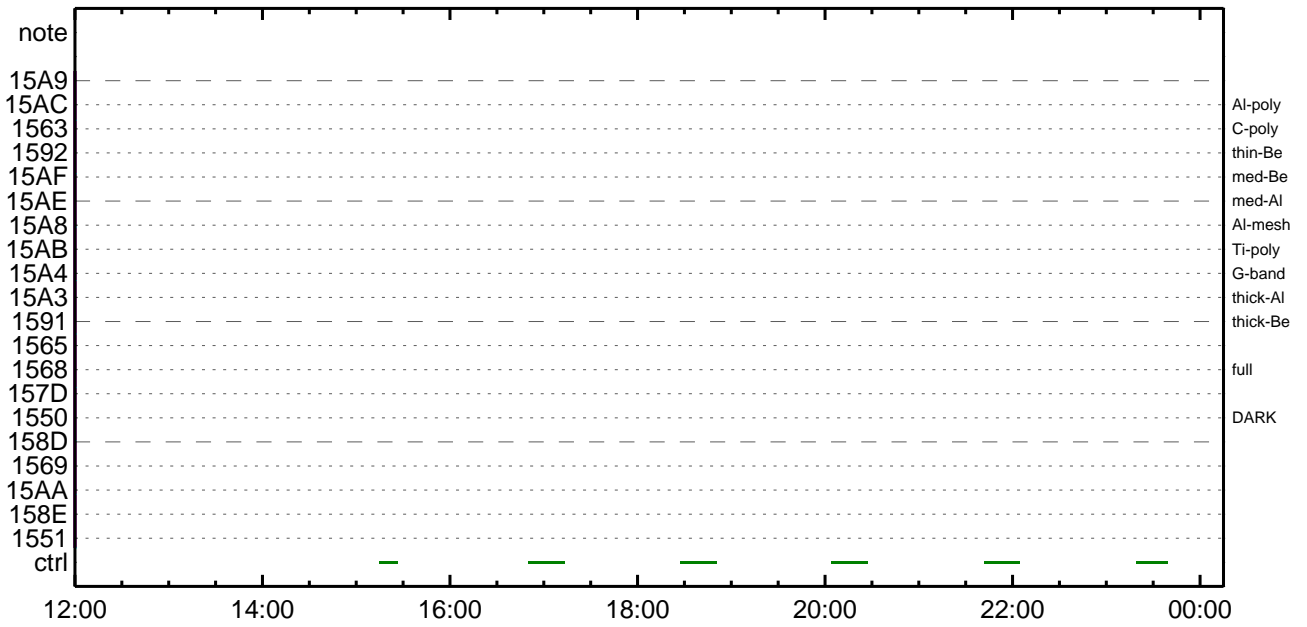
CMDI #0077 2008/08/11



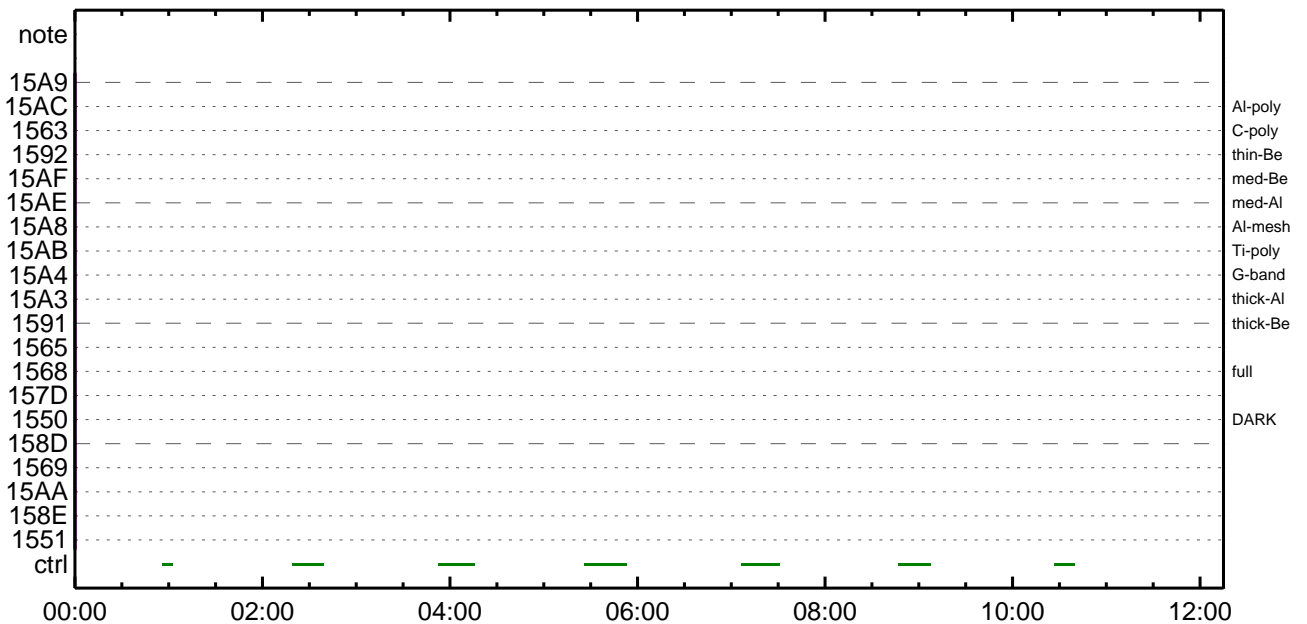
CMDI #0077 2008/08/12



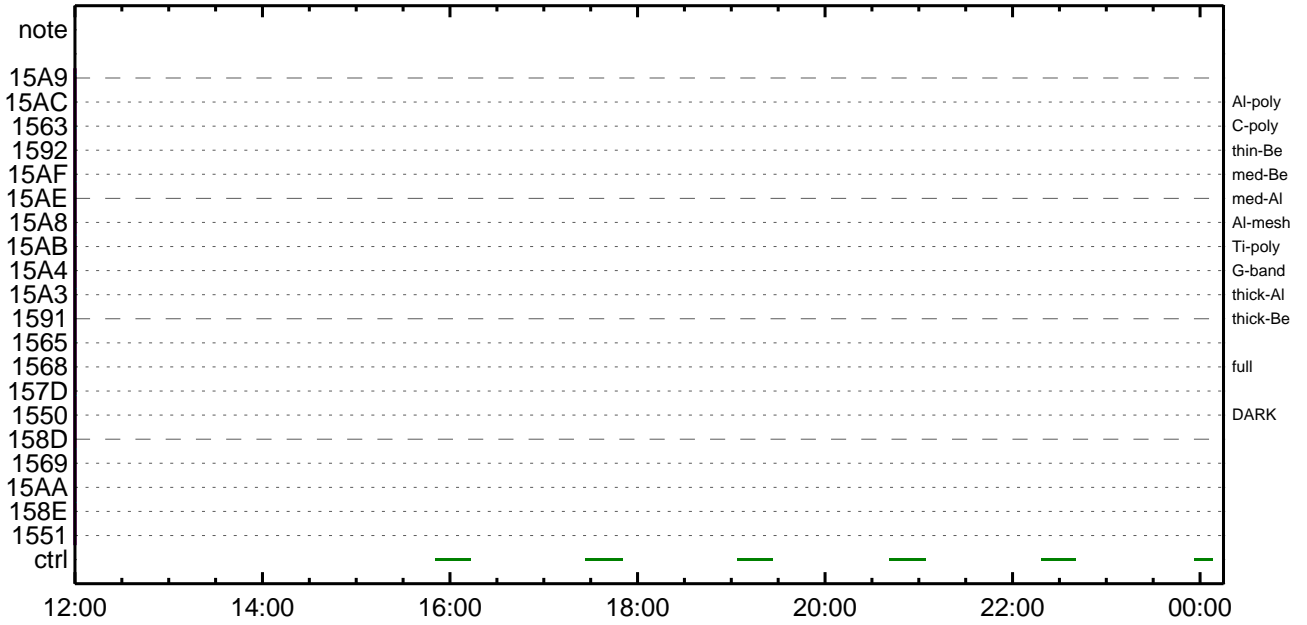
CMDI #0077 2008/08/12



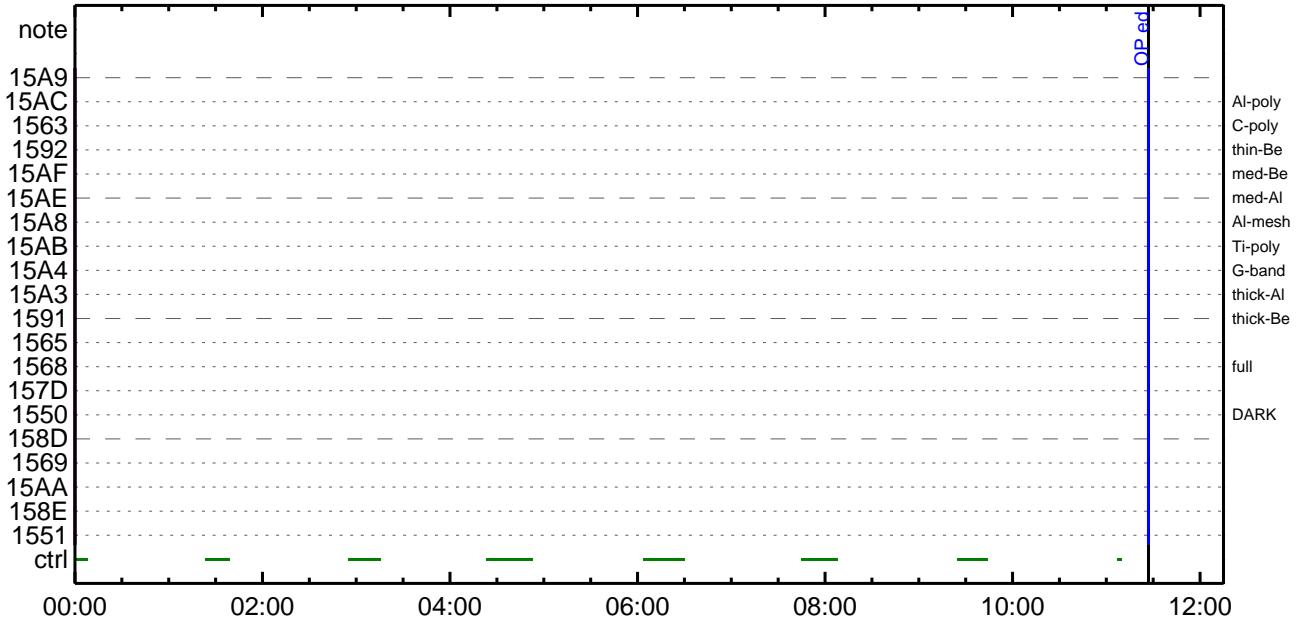
CMDI #0077 2008/08/13



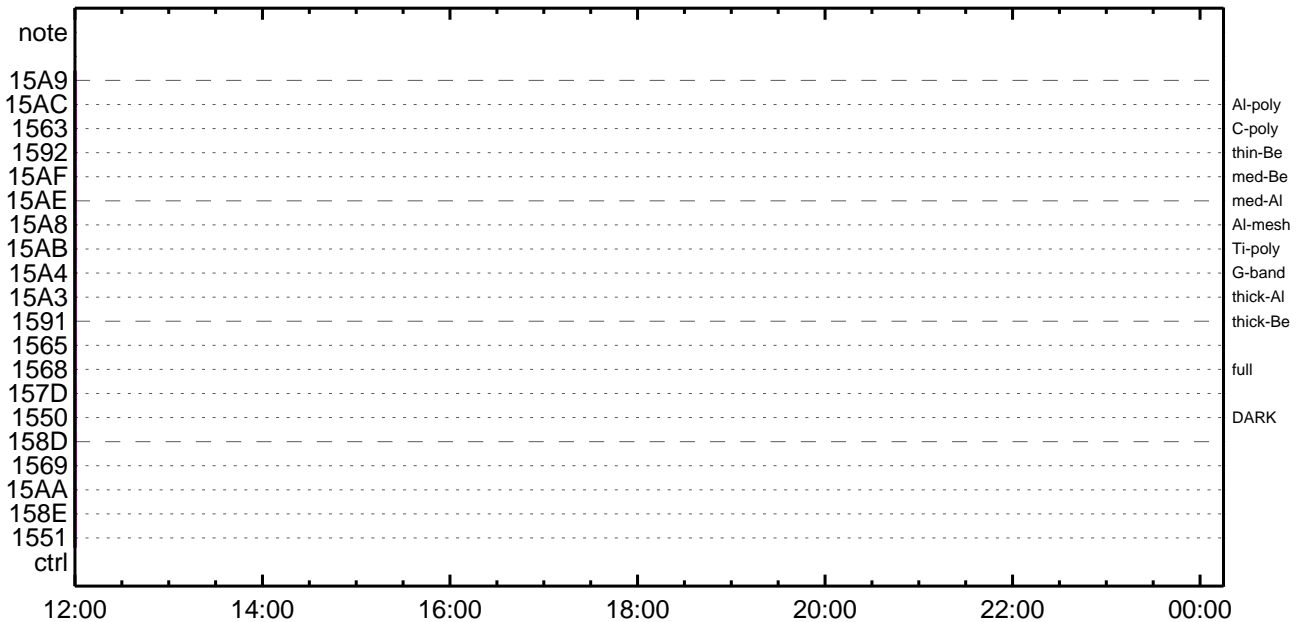
CMDI #0077 2008/08/13



CMDI #0077 2008/08/14



CMDI #0077 2008/08/14



(a) Spacecraft Operation Procedure (real-commands)

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main-059 2008-08-09 11:20:18 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;äAOSYÄY$YÄY-¼Ä»Û;ä
0005 C.
0006 C. YÄY$;¼Y³YFÝÖYÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;ÈççðÀð•µ°È»Í×ÄÇçÍYçYÄY×YÍ;¼YÉ;ÈÈè¼µ•ííÉ;ÈèÈ¼°ÇÔð•ç¼í¹ççí;çÄ®, ùñ¹àèððçÄ÷ç®ð•ðÈððð³ðÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYÍ;¼YÉ;|YÄYöY×
0016 C. *****
0017 C.
0018 . C. ;äOP/OGYÍ;¼YÉ;ä
0019 . S. OP op-059:OP
0020 ( )
0021 . S. OG og-059:OG
0022 ( )
0023 C.
0024 . C. ;änMOG&OPíî°èYÄYöY×;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. YÄYöY×¼ªª î»ðð³ îÇ§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGðî¼È¹ç•è² ÌOKðð³ îÇ§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. YÄYöY×¼ªª î»ðð³ îÇ§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGðî¼È¹ç•è² ÌOKðð³ îÇ§
0062 C.
0063 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. YÄYöY×¼ªª î»ðð³ îÇ§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OPðî¼È¹ç•è² ÌOKðð³ îÇ§
0081 C.
0082 . C. ***** òÈ²¼ðî¼Ä´ ¶Ä°ðÈÈ¬ðÀ÷ç® (¼äµ-YÄYöY×¼è¼çððÄÔÄæçª¼ª ð² ç¼í¹çççðà) *****
0083 C. DHUÿâ;¼YÉ;È¼Y¼; Yí;¼YÉ;Èèðíáð¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOADð¬Ä÷ç®NGðî¼È¹çç; ç°È²¼ðî¼TI-CMDÄ÷ç®ðî¼Ä¹Ôð•ðÈððð³ðÈ;f
```



```
0096 C.      0300; SET EDUMP I±°iYNY¹aÇ¹Ôa|a³aE; f
0097 C.
0098 . C.  TIY³YFYYÖYÉaðÄDİ¿ (UT)
0099 +. TI 2008-08-09 11:32:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.      çç[HK1_TI_CMD_NUM]           EQ      1COUNTUP
0102 C.
0103 +. TI 2008-08-09 11:32:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.      çç[HK1_TI_CMD_NUM]           EQ      1COUNTUP
0106 C.
0107 +. TI 2008-08-09 11:32:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.      çç[HK1_TI_CMD_NUM]           EQ      1COUNTUP
0110 C.
0111 +. TI 2008-08-09 11:36:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.      çç[HK1_TI_CMD_NUM]           EQ      1COUNTUP
0114 C.
0115 C.  °E²¼aİÄê%îİÑaİYÁY§YÁY-¹àİÜ
0116 C.      çç[HK1_TI_CMD_ENA/DIS]       EQ      ENA
0117 C.      çç[HK1_TI_CMD_NUM]         EQ      4
0118 C.      çç[HK1_NEXT_EXEC_PIM]      EQ      DHU
0119 C.      çç[HK1_NEXT_EXEC_DC]      EQ      0xB3
0120 C.
0121 . C.  *****
0122 C.  TIİİ°èYÁYÖY×
0123 C.  *****
0124 C.
0125 C.  TI_TBL(0x03AB00-0x03AEFF; § 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC      (03 ab 03 01 02)
0128 C.      çç[HK1_DMP_TOP_ADRS_1]     EQ      07
0129 C.      çç[HK1_DMP_TOP_ADRS_0]     EQ      2B
0130 C.      çç[HK1_DMP_BLOCK_NUM]      EQ      3
0131 C.      çç[HK1_DMP_REPEAT_NUM]     EQ      0
0132 C.      çç[HK1_DMA_DMP_PIM]       EQ      DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC      (07 0b f8)
0135 C.      çç[HK1_PKT_FORM_NO]        EQ      7
0136 C.      çç[HK1_PKT_GEN_TIME]       EQ      0.25 s
0137 C.      çç[HK1_S_TLM_BIT_RATE]     EQ      32k
0138 C.      çç[HK1_X_TLM_BIT_RATE]    EQ      4M
0139 C.      çç[HK1_DMP_CHK_FLG]       EQ      EXEC
0140 C.
0141 . C.  YÁYÖY×½ªİ»að³İÇ§
0142 C.      çç[HK1_DMP_CHK_FLG]       EQ      NON
0143 C.
0144 . C.  RAM ID=TI_TBLaİ%È¹Ç•è²İOKað³İÇ§
0145 C.
0146 . C.  DHUYâ;¼YÉ;È¼Y½;Yİ;¼YÈ;Èaðİáa¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC      (02 0a f8)
0149 C.      çç[HK1_PKT_FORM_NO]        EQ      2
0150 C.      çç[HK1_PKT_GEN_TIME]       EQ      0.5S
0151 C.      çç[HK1_S_TLM_BIT_RATE]     EQ      32K
0152 C.      çç[HK1_X_TLM_BIT_RATE]    EQ      4M
0153 C.
0154 C.  *****
0155 C.  SOT TI command set
0156 C.  *****
0157 C.  Execute, after the success of OP upload.
0158 +. TI 2008-08-09 11:36:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC      (41)
0161 . C.  -----
0162 C.      HK1_TI_CMD_NUM              = 1 CNTUP [ ]
0163 C.  -----
0164 C.  ***** SOT END *****
0165 . C.  Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C.  ***** Start EIS operation (TI set) *****
0169 C.  Execute, after the success of OP upload.
0170 C.  Set EIS TI-commands
0171 +. TI 2008-08-09 11:36:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC      (21 02)
0174 +. TI 2008-08-09 11:36:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC      (22)
0177 . C.      [ ] [HK1_TI_CMD_NUM]     EQ      2 COUNTUP
0178 C.  ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C.  ***** XRT START *****
0183 C.  Execute, after the success of OP upload.
0184 +. TI 2008-08-09 11:36:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC      (c3)
0187 . C.      [ ] [HK1_TI_CMD_NUM]     EQ      1COUNTUP
0188 C.
0189 C.  ***** XRT END *****
0190 C.
0191 . C.  ***** MDP `úÄİaİ»ö¼YaÈÄa¹aèDCBC•×²è *****
0192 C.  (¼a°İYÖYÁYÉYBYYÉYÁYÇYèaÈ%¼a¼A»Üa¹aé)
0193 . S. DC-BC dcbc-402:DCBC
```

```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```


(a) Spacecraft Operation Procedure (real-commands)

```
main-061 2008-08-09 11:20:18 118 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿øÁø•µ°È»Í×ÁÇøÍYçYÁY×Yí;¼YÉ;ÈÈè%µ•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 80 60 20 18)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 a0 80 18 20)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 20 20)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 40 40 10 10)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a c0 40 10 10)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0b 80 80 06 06)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0c 80 80 08 08)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0f 80 80 06 06)
0056 + DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 10 80 80 04 04)
0058 . C. ----- Success Verify ? OK / NG ____
0059 C.
0060 C.
0061 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0062 C.
0063 +. DC 07-F0 MDP_XRT_MODE_OBSV
0064 BC (c2)
0065 +. TI 2008-08-09 11:36:02.0
0066 DC 07-F0 MDP_XRT_MODE_OBSV
0067 BC (c2)
0068 . C. ----- Success Verify ? OK / NG ____
0069 C.
0070 C. ***** XRT END *****
0071 . C. *****
0072 C. SOT table upload
0073 C. *****
0074 . C. < Stop FG table >
0075 +. DC 07-F0 MDP_FG_CTRL_MANU
0076 BC (51)
0077 . C. -----
0078 C. MDP_FG_CTRL_MODE = MANU [ ]
0079 C. -----
0080 C.
0081 . C. <Upload FG Observation Table>
0082 . S. RAM ram-268:MDP_OBS_F
0083 ( )
0084 C.
0085 . C. < Dump RAMID=MDP_OBS_F >
0086 +. DC 07-F0 MDP_DUMP_FGTBL
0087 BC (82 07 00 00 00 38 b8)
0088 C. -----
0089 C. MDP_OBS_F verify = OK/NG [ ]
0090 C. -----
0091 C.
0092 C. *****
0093 C. SOT TI command set
0094 C. *****
0095 C. Execute, after the success of TBL upload.
```

```
0096 +. TI 2008-08-09 11:36:18.0
0097 DC 07-F0 MDP_SOT_MODE_OBSV
0098 BC (40)
0099 . C. -----
0100 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0101 C. -----
0102 C.
0103 C.
0104 . C. ***** MDP 'úÃîñî»ô¼ÝñÊÃðñ¹ñèDCBC•x²è *****
0105 C. (¼ã°îÝÔÝÃÝÊÝÞÝËÝáÝçÝèñ¼ññ¼Ã»Ûñ¹ñè)
0106 . S. DC-BC dcbc-402:DCBC
0107 (MDP_known_event)
0108 C.
0109 C.
0110 . C. ***** ÝÐÝ¹•Ï Daily±¿ÎÑñË´Øñ¹ñèDCBC•x²è *****
0111 . S. DC-BC dcbc-153:DCBC
0112 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0113 C.
0114 C.
0115 . C. ;ãLOSÝÁÝ§ÝÃÝ¬¼Ã»Û;ã
0116 C.
0117 . C. ***** LOS *****
0118 C.
```

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*** OP Sequence for XRT ***

```

2008/08/09 11:47:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM                    5 02-76 00 ac 00 00 00
2008/08/09 12:01:30.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 12:01:32.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION          4 07-F8 22 ff aa 00
2008/08/09 12:01:52.0 XRT_QT_PROG_SET_431_OG [0x1af]
                        MDP_XRT_QT_PROG_SET         2 07-F0 c4 06
2008/08/09 12:01:54.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS             1 07-F0 d9
2008/08/09 12:01:56.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS         1 07-F0 c9
2008/08/09 12:01:58.0 XRT_ARS_DIS_418_OG [0x1a2]
                        MDP_XRT_ARS_DIS             1 07-F0 d5
2008/08/09 12:02:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO           1 07-F0 c0
2008/08/09 14:00:00.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 14:30:00.0 AOCs_OrE-point_Start_2_OG [0x098]
                        AOCU_NM                    5 02-76 00 00 00 54 00
2008/08/09 14:44:30.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION          4 07-F8 22 ff aa 00
2008/08/09 14:44:50.0 XRT_QT_PROG_SET_400_OG [0x190]
                        MDP_XRT_QT_PROG_SET         2 07-F0 c4 01
2008/08/09 14:44:54.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS             1 07-F0 d9
2008/08/09 14:44:56.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS         1 07-F0 c9
2008/08/09 14:44:58.0 XRT_ARS_DIS_418_OG [0x1a2]
                        MDP_XRT_ARS_DIS             1 07-F0 d5
2008/08/09 14:45:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO           1 07-F0 c0
2008/08/09 16:45:00.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 17:49:24.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 17:49:26.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION          4 07-F8 22 ff aa 00
2008/08/09 17:49:30.0 AOCs_OrE-point_Start_3_OG [0x099]
                        AOCU_NM                    5 02-76 00 00 00 00 00
2008/08/09 17:49:46.0 XRT_QT_PROG_SET_409_OG [0x199]
                        MDP_XRT_QT_PROG_SET         2 07-F0 c4 0b
2008/08/09 17:49:48.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS             1 07-F0 d9
2008/08/09 17:49:50.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS         1 07-F0 c9
2008/08/09 17:49:52.0 XRT_ARS_DIS_427_OG [0x1ab]
                        MDP_XRT_ARS_DIS             1 07-F0 d5
2008/08/09 17:51:30.0 XRT_CTRL_AUTO_444_OG [0x1bc]
                        MDP_XRT_CTRL_AUTO           1 07-F0 c0
2008/08/09 17:59:24.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 17:59:30.0 AOCs_OrE-point_Start_4_OG [0x09a]
                        AOCU_NM                    5 02-76 04 00 00 00 00
2008/08/09 18:43:54.0 XRT_CTRL_MANU_405_OG [0x195]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 18:44:00.0 AOCs_OrE-point_Start_5_OG [0x09b]
                        AOCU_NM                    5 02-76 00 d1 07 d1 07
2008/08/09 18:46:32.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION          4 07-F8 22 ff aa 00
2008/08/09 18:46:52.0 XRT_QT_PROG_SET_449_OG [0x1c1]
                        MDP_XRT_QT_PROG_SET         2 07-F0 c4 0a
2008/08/09 18:46:54.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS             1 07-F0 d9
2008/08/09 18:46:56.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS         1 07-F0 c9
2008/08/09 18:46:58.0 XRT_ARS_DIS_418_OG [0x1a2]
                        MDP_XRT_ARS_DIS             1 07-F0 d5
2008/08/09 18:47:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO           1 07-F0 c0
2008/08/09 18:51:54.0 XRT_CTRL_MANU_405_OG [0x195]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 18:52:00.0 AOCs_OrE-point_Start_6_OG [0x09c]
                        AOCU_NM                    5 02-76 00 d0 21 d0 ee
2008/08/09 18:54:32.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION          4 07-F8 22 ff aa 00
2008/08/09 18:54:52.0 XRT_QT_PROG_SET_449_OG [0x1c1]
                        MDP_XRT_QT_PROG_SET         2 07-F0 c4 0a
2008/08/09 18:54:54.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS             1 07-F0 d9
2008/08/09 18:54:56.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS         1 07-F0 c9
2008/08/09 18:54:58.0 XRT_ARS_DIS_418_OG [0x1a2]
                        MDP_XRT_ARS_DIS             1 07-F0 d5
2008/08/09 18:55:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO           1 07-F0 c0
2008/08/09 18:59:54.0 XRT_CTRL_MANU_405_OG [0x195]
                        MDP_XRT_CTRL_MANU          1 07-F0 c1
2008/08/09 19:00:00.0 AOCs_OrE-point_Start_7_OG [0x09d]
                        AOCU_NM                    5 02-76 00 d3 7d d0 d5
2008/08/09 19:02:32.0 XRT_FOCUS_POSITION_442_OG [0x1ba]

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2008/08/09	19:02:52.0	XRT_QT_PROG_SET_449_OG [0x1c1]	4	07-F8	22	ff	aa	00
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0a		
2008/08/09	19:02:54.0	XRT_FLD_DIS_419_OG [0x1a3]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	c9			
2008/08/09	19:02:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	1	07-F0	d5			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/09	19:02:58.0	XRT_ARS_DIS_418_OG [0x1a2]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2008/08/09	19:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2008/08/09	19:07:54.0	XRT_CTRL_MANU_405_OG [0x195]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/09	19:08:00.0	AOCS_ORe-point_Start_8_OG [0x09e]	5	02-76	00	d1	07	2e f9
		AOCU_NM	5	02-76	00	d1	07	2e f9
2008/08/09	19:10:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	4	07-F8	22	ff	aa	00
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2008/08/09	19:10:52.0	XRT_QT_PROG_SET_423_OG [0x1a7]	2	07-F0	c4	11		
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	11		
2008/08/09	19:10:54.0	XRT_FLD_DIS_419_OG [0x1a3]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2008/08/09	19:10:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	1	07-F0	c9			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/09	19:10:58.0	XRT_ARS_DIS_418_OG [0x1a2]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2008/08/09	19:11:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2008/08/09	19:15:54.0	XRT_CTRL_MANU_405_OG [0x195]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/09	19:16:00.0	AOCS_ORe-point_Start_9_OG [0x09f]	5	02-76	00	cf	4c	2f 9d
		AOCU_NM	5	02-76	00	cf	4c	2f 9d
2008/08/09	19:18:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	4	07-F8	22	ff	aa	00
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2008/08/09	19:18:52.0	XRT_QT_PROG_SET_423_OG [0x1a7]	2	07-F0	c4	11		
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	11		
2008/08/09	19:18:54.0	XRT_FLD_DIS_419_OG [0x1a3]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2008/08/09	19:18:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	1	07-F0	c9			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/09	19:18:58.0	XRT_ARS_DIS_418_OG [0x1a2]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2008/08/09	19:19:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2008/08/09	19:23:54.0	XRT_CTRL_MANU_405_OG [0x195]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/09	19:24:00.0	AOCS_ORe-point_Start_10_OG [0x0a0]	5	02-76	00	d1	92	30 cc
		AOCU_NM	5	02-76	00	d1	92	30 cc
2008/08/09	19:26:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	4	07-F8	22	ff	aa	00
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2008/08/09	19:26:52.0	XRT_QT_PROG_SET_423_OG [0x1a7]	2	07-F0	c4	11		
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	11		
2008/08/09	19:26:54.0	XRT_FLD_DIS_419_OG [0x1a3]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2008/08/09	19:26:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	1	07-F0	c9			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/09	19:26:58.0	XRT_ARS_DIS_418_OG [0x1a2]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2008/08/09	19:27:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2008/08/09	19:31:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/09	21:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/09	21:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	4	07-F8	22	fe	97	00
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2008/08/09	22:00:00.0	AOCS_ORe-point_Start_11_OG [0x0a1]	5	02-76	01	00	00	00 00
		AOCU_NM	5	02-76	01	00	00	00 00
2008/08/09	22:00:16.0	XRT_QT_PROG_SET_420_OG [0x1a4]	2	07-F0	c4	10		
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	10		
2008/08/09	22:01:54.0	XRT_ARS_DIS_422_OG [0x1a6]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2008/08/09	22:01:56.0	XRT_FLD_DIS_445_OG [0x1bd]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2008/08/09	22:01:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	1	07-F0	c9			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/09	22:02:00.0	XRT_CTRL_AUTO_403_OG [0x193]	1	07-F0	c0			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2008/08/09	23:04:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/10	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	1	07-F0	c1			
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2008/08/10	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	4	07-F8	22	ff	aa	00
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2008/08/10	06:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	5	02-76	00	00	00	00 00
		AOCU_NM	5	02-76	00	00	00	00 00
2008/08/10	06:00:16.0	XRT_QT_PROG_SET_429_OG [0x1ad]	2	07-F0	c4	0c		
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0c		
2008/08/10	06:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]	1	07-F0	d9			
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2008/08/10	06:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	1	07-F0	c9			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2008/08/10	06:00:22.0	XRT_ARS_DIS_427_OG [0x1ab]	1	07-F0	d5			
		MDP_XRT_ARS_DIS	1	07-F0	d5			

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2008/08/10	06:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	06:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	06:15:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	06:15:02.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/10	06:15:22.0	XRT_QT_PROG_SET_404_OG [0x194]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2008/08/10	06:15:24.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	06:15:26.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	06:15:28.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	06:15:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	06:35:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	06:35:02.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/10	06:35:22.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 13				
2008/08/10	06:35:24.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	06:35:26.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	06:35:28.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	06:35:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	06:51:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	07:17:30.0	XRT_Custom_430_OG [0x1ae]							
2008/08/10	07:18:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	08:31:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	08:54:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/10	08:55:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	10:12:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	10:28:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/10	10:29:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	14:30:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	14:30:02.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/10	14:30:22.0	XRT_QT_PROG_SET_404_OG [0x194]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2008/08/10	14:30:24.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	14:30:26.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	14:30:28.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	14:30:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	14:50:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	15:30:00.0	AOCS_OrE-point_Start_12_OG [0x0a2]							
		AOCU_NM	5	02-76	03 00 00 00 00				
2008/08/10	16:00:30.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	16:00:32.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/10	16:00:52.0	XRT_QT_PROG_SET_415_OG [0x19f]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f				
2008/08/10	16:00:54.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	16:00:56.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	16:00:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	16:01:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	17:01:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	17:53:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	17:53:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/10	17:53:30.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/08/10	17:53:46.0	XRT_QT_PROG_SET_409_OG [0x199]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b				
2008/08/10	17:53:48.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	17:53:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				

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2008/08/10	17:53:52.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	17:55:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	18:03:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	18:03:30.0	AOCS_OrE-point_Start_13_OG [0x0a3]							
		AOCU_NM	5	02-76	04 fe 36 e7 1b				
2008/08/10	19:14:30.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	19:14:32.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/10	19:14:52.0	XRT_QT_PROG_SET_415_OG [0x19f]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f				
2008/08/10	19:14:54.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	19:14:56.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	19:14:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	19:15:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	20:15:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	20:30:00.0	AOCS_OrE-point_Start_4_OG [0x09a]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/08/10	20:51:30.5	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	20:51:32.5	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/10	20:51:52.5	XRT_QT_PROG_SET_415_OG [0x19f]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f				
2008/08/10	20:51:54.5	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	20:51:56.5	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	20:51:58.5	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	20:52:00.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	21:52:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	22:29:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/10	22:29:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/10	22:30:00.0	AOCS_OrE-point_Start_14_OG [0x0a4]							
		AOCU_NM	5	02-76	00 af 1b 00 00				
2008/08/10	22:30:16.0	XRT_QT_PROG_SET_420_OG [0x1a4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 10				
2008/08/10	22:31:54.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/10	22:31:56.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/10	22:31:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/10	22:32:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/10	23:41:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/11	06:26:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/11	06:26:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/11	06:26:30.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/08/11	06:26:46.0	XRT_QT_PROG_SET_429_OG [0x1ad]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0c				
2008/08/11	06:26:48.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/11	06:26:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/11	06:26:52.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/11	06:28:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/11	06:36:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/11	06:36:30.0	AOCS_OrE-point_Start_4_OG [0x09a]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/08/11	18:13:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/11	18:13:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/11	18:13:30.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/08/11	18:13:46.0	XRT_QT_PROG_SET_409_OG [0x199]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b				
2008/08/11	18:13:48.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/11	18:13:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/11	18:13:52.0	XRT_ARS_DIS_427_OG [0x1ab]							

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2008/08/11	18:15:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_ARS_DIS	1	07-F0	d5		
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2008/08/11	18:23:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2008/08/11	18:23:30.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	04 00 00 00 00		
2008/08/11	23:04:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2008/08/11	23:04:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2008/08/11	23:05:00.0	AOCS_ORe-point_Start_15_OG [0x0a5]	AOCU_NM	5	02-76	02 00 00 00 00		
2008/08/11	23:05:16.0	XRT_QT_PROG_SET_420_OG [0x1a4]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10		
2008/08/11	23:06:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2008/08/11	23:06:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2008/08/11	23:06:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2008/08/11	23:07:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2008/08/12	00:18:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2008/08/12	01:00:00.0	XRT_FOCUS_RECALIBRATE_410_OG [0x19a]	XRT_FOCUS_RECAL	2	07-F8	78 00		
2008/08/12	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2008/08/12	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2008/08/12	06:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00 00		
2008/08/12	06:00:16.0	XRT_QT_PROG_SET_429_OG [0x1ad]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0c		
2008/08/12	06:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2008/08/12	06:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2008/08/12	06:00:22.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2008/08/12	06:02:00.5	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2008/08/12	06:09:54.5	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2008/08/12	06:10:00.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	04 00 00 00 00		
2008/08/12	10:55:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00 00		