

# XRT Timeline to be uploaded on 2011/09/09

Period: 2011/09/09 09:31:00 - 2011/09/13 11:38:00

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## Normal mode

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XOB #189F: AR Standard-A(Filter-Ratio) with PFB, thin-Be, thick Al and Al/Poly context, 384x384 at 1064 1048, 60s cad											
Term	Pointing (x, y)				Comment						
09/09 09:44:00 - 09/09 17:44:00	Track ( 710.0, 149.8) <small>Ⓜ 09/09 09:41:00</small>				# OP start + 10min, Major Flare Watch, AR 11283 entire period. All HOPs canceled.						
09/09 18:20:30 - 09/10 05:54:24	Track ( 756.8, 157.5) <small>Ⓜ 09/09 18:17:30</small>				#						
09/10 06:07:30 - 09/10 10:48:54	Track ( 812.2, 168.7) <small>Ⓜ 09/10 06:04:30</small>				#						
<b>PROG= 18 1-time(s)</b>											
└─ Subr= 1 1-time(s) 2.0sec											
└─ Seqn= 19 1-time(s) 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 16.0s Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec											
└─ Open/G-band Open/G-band open Safe Norm 63ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec											
└─ Seqn= 76 4-time(s) 2.0sec											
└─ Al-poly/Open thin-Be/Open close Safe Norm 500ms Obs 1x1 512x512 (1024, 1024) Q=95 3 0 2.0sec											
└─ Open/Ti-poly Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec											
└─ thin-Be/Open med-Be/Open close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec											
└─ Open/thick-Al Open/thick-Al close Safe Norm 16.0s Obs 1x1 512x512 (1024, 1024) Q=95 3 0 2.0sec											
└─ Subr= 2 1-time(s) 2.0sec											
└─ Seqn= 62 20-time(s) 2.0sec											
└─ thin-Be/Open Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec											
└─ Open/Ti-poly Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 15.0sec											
└─ thin-Be/Open Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec											
└─ Open/Ti-poly Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 1 15.0sec											
└─ thin-Be/Open Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec											
└─ Open/Ti-poly Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 2 15.0sec											
└─ thin-Be/Open Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 3 2.0sec											
└─ Open/Ti-poly Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 3 15.0sec											
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Default Filter</span> <span>Thicker Filter</span> <span>VLS</span> <span>mode</span> <span>image</span> <span>Exp.</span> <span>CCD</span> <span>Bin</span> <span>ROI: size (center)</span> <span>Comp.</span> <span>AEC Buffer</span> <span>Interval</span> </div>											

XOB #187C: Synoptic Q95 2x2 - Al/mesh(45/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(88/2897) + Thin-Be(36)											
Term	Pointing (x, y)				Comment						
09/09 18:10:28 - 09/09 18:17:24	Fixed ( 0.0, 0.0)				synoptic, shifted 7.5 min						
09/10 05:57:30 - 09/10 06:04:24	Fixed ( 0.0, 0.0)				synoptic, shifted -5.5 min						

<b>PROG= 07 1-time(s)</b>											
└─ Subr= 1 1-time(s) 12.0sec											
└─ Seqn= 86 1-time(s) 4.0sec											
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 44ms 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=95 0 0 2.0sec											
└─ Seqn= 5 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											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec											
└─ Seqn= 37 1-time(s) 4.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 86ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Seqn= 32 1-time(s) 2.0sec											
└─ thin-Be/Open thin-Be/Open close Safe Norm 354ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ thin-Be/Open thin-Be/Open close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Seqn= 4 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											
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Default Filter</span> <span>Thicker Filter</span> <span>VLS</span> <span>mode</span> <span>image</span> <span>Exp.</span> <span>CCD</span> <span>Bin</span> <span>ROI: size (center)</span> <span>Comp.</span> <span>AEC Buffer</span> <span>Interval</span> </div>											

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## Flare mode

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XOB #1869: Flare standard obs. multifilter (thin-Be,med-Al,thick-Be 384x384 - Al-poly 512x512 2x2)											
Term	Pointing (x, y)				Comment						
09/09 09:44:00 - 09/09 17:44:00	Track ( 710.0, 149.8) <small>Ⓜ 09/09 09:41:00</small>				# OP start + 10min, Major Flare Watch, AR 11283 entire period. All HOPs canceled.						
09/09 18:20:30 - 09/10 05:54:24	Track ( 756.8, 157.5) <small>Ⓜ 09/09 18:17:30</small>				#						
09/10 06:07:30 - 09/10 10:48:54	Track ( 812.2, 168.7) <small>Ⓜ 09/10 06:04:30</small>				#						

<b>PROG= 13 1-time(s)</b>											
└─ Subr= 1 4-time(s) 2.0sec											
└─ Seqn= 55 45-time(s) 20.0sec											
└─ thin-Be/Open med-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec											
└─ med-Al/Open med-Al/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec											
└─ Open/thick-Be Open/thick-Be close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec											
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec											
└─ Seqn= 90 1-time(s) 2.0sec											
└─ Open/G-band Open/G-band open Safe Norm 63ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/thick-Al Open/thick-Al close Safe Dark 1.00s Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/thick-Al Open/thick-Al close Safe Dark 1.00s Obs 2x2 512x512 (1024, 1024) Q=98 0 0 2.0sec											
└─ Subr= 2 1-time(s) 600.0sec											
└─ Seqn= 89 1-time(s) 2.0sec											

Open/Al-mesh	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/Ti-poly	Open/thick-Be	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	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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### Active Region Search

\* \* \* \* \*

NOT USED

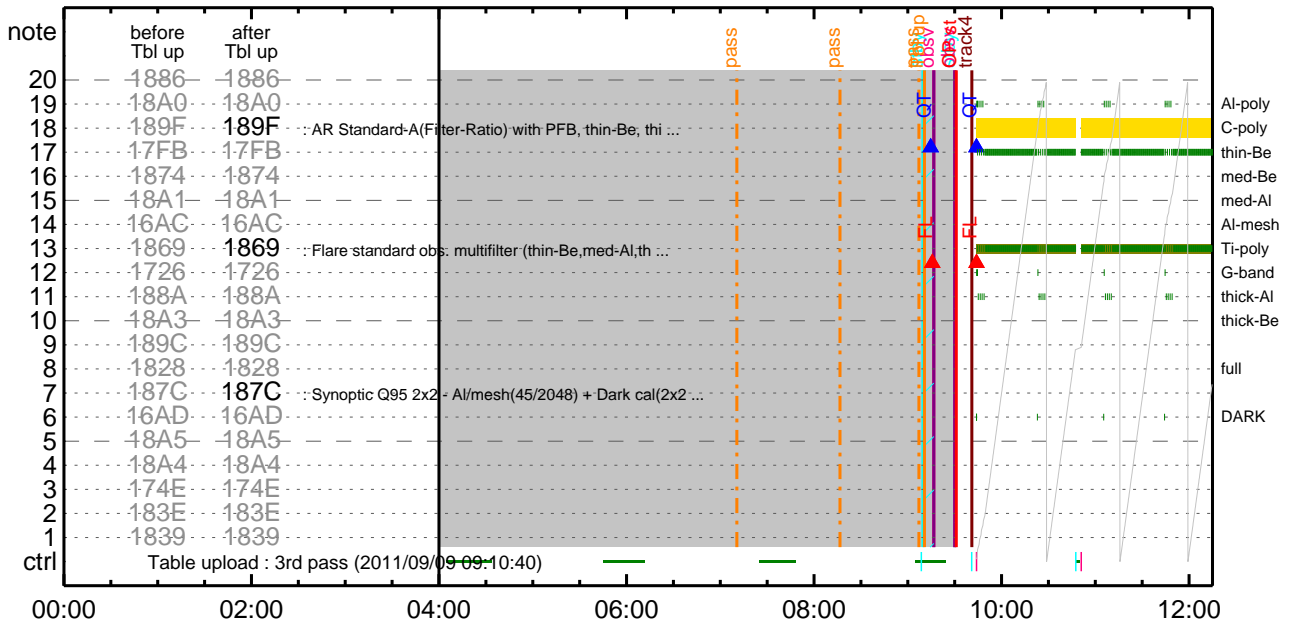
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### Flare Detection

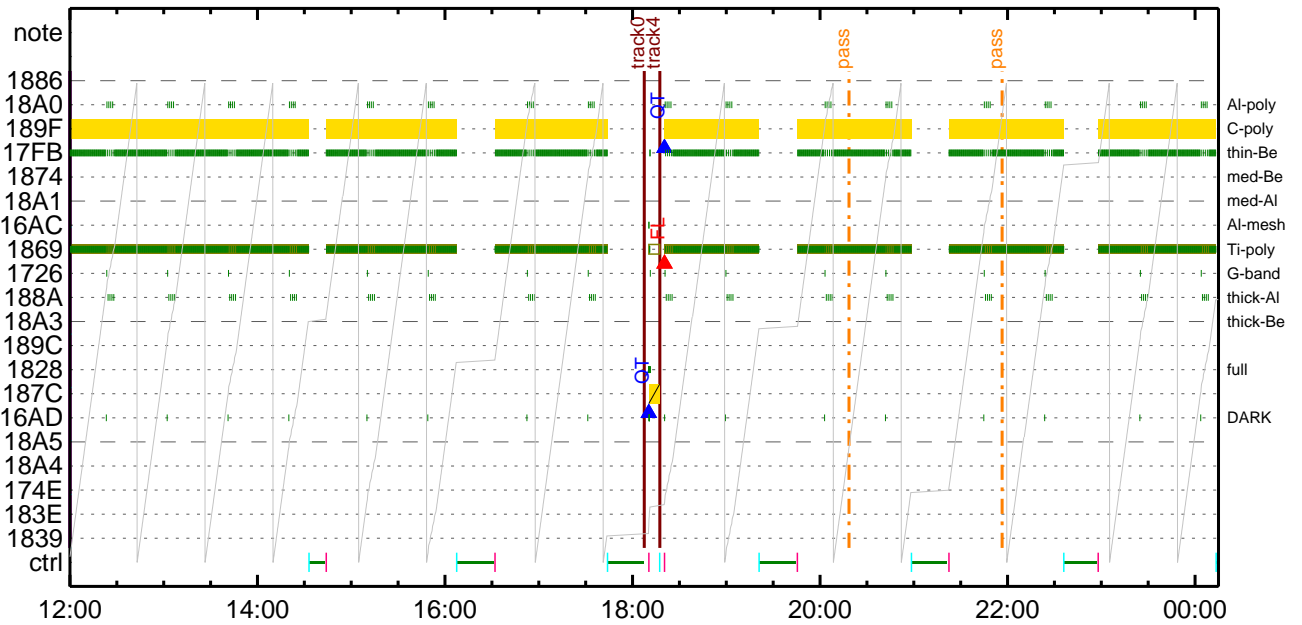
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FLD Patrol												
Term	Pointing (x, y)						Comment					
09/09 18:20:16 - 09/10 05:54:46	Track (	756.8,	157.5)	<sup>© 09/09 18:17:30</sup>	#							
09/10 06:07:16 - 09/13 11:38:00	Track (	812.2,	168.7)	<sup>© 09/10 06:04:30</sup>	#							
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

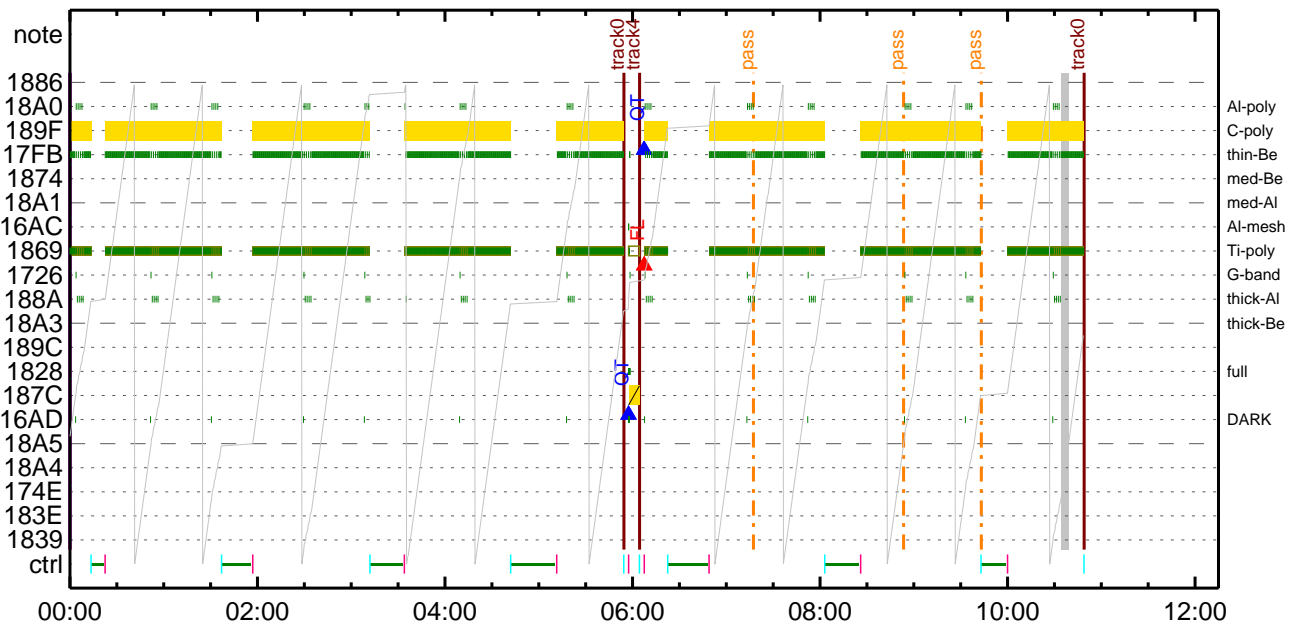
### CMDI #0134 2011/09/09



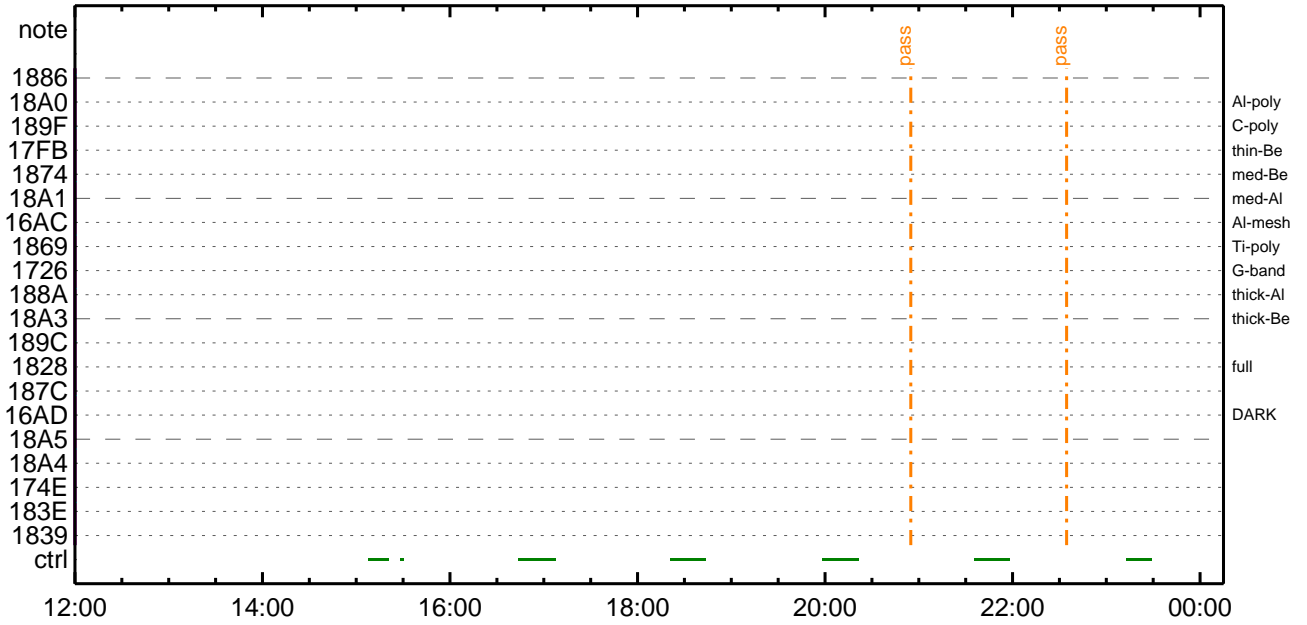
### CMDI #0134 2011/09/09



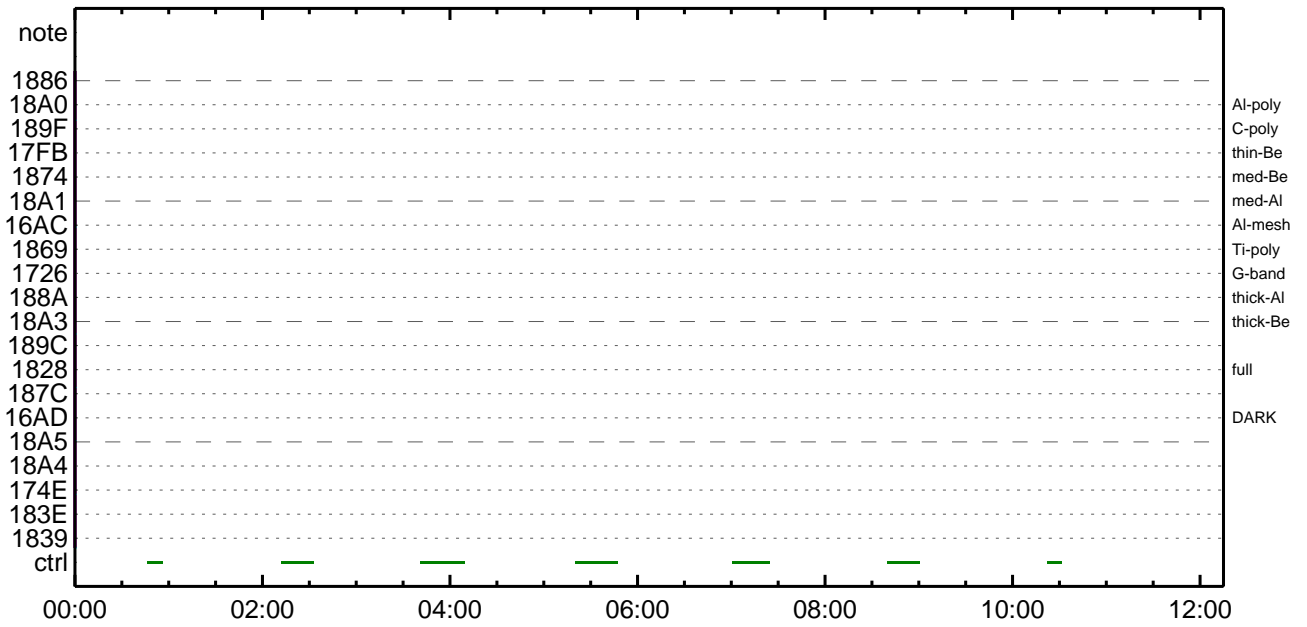
### CMDI #0134 2011/09/10



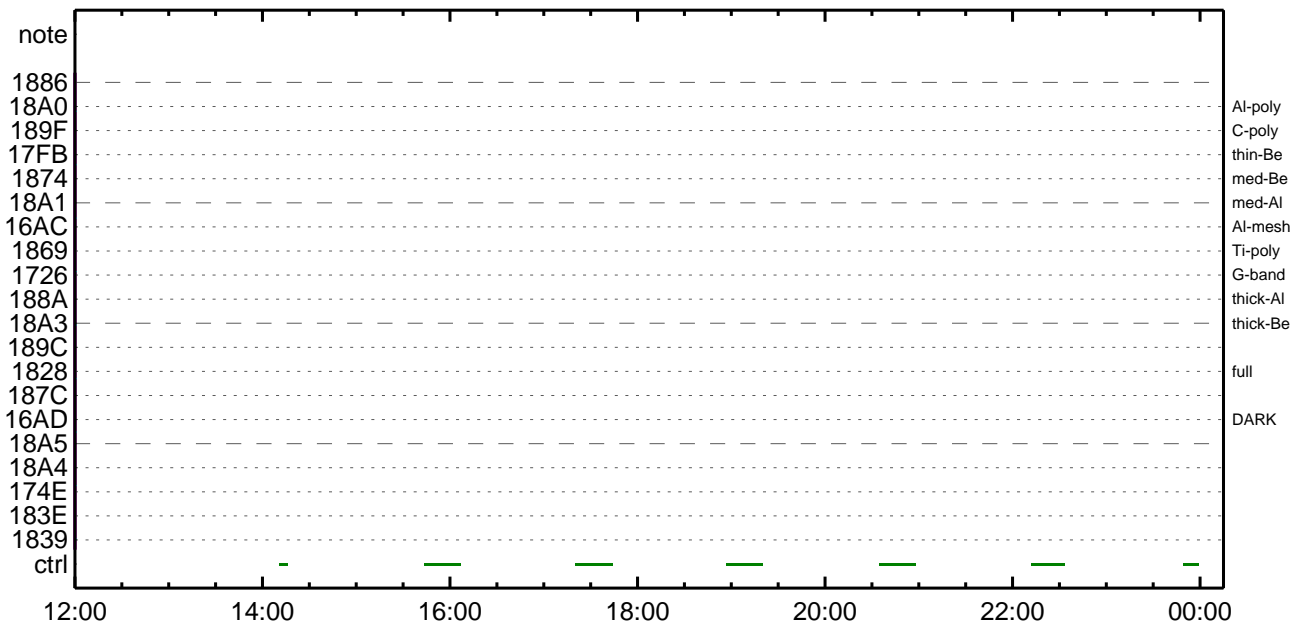
CMDI #0134 2011/09/10



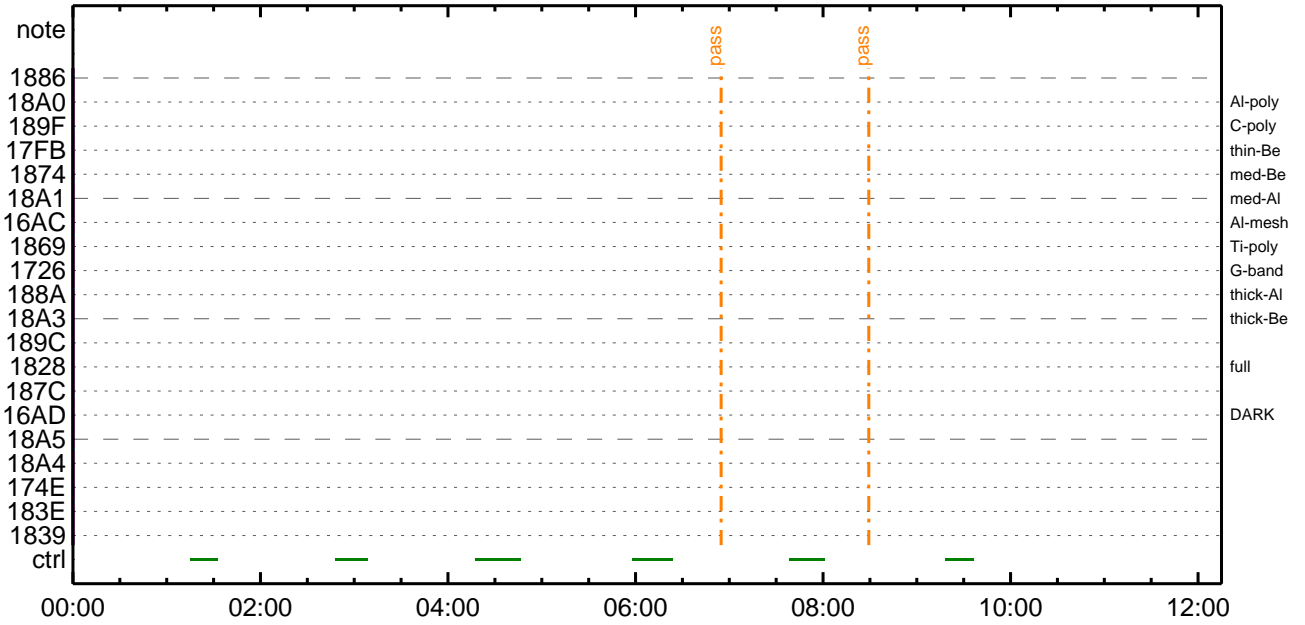
CMDI #0134 2011/09/11



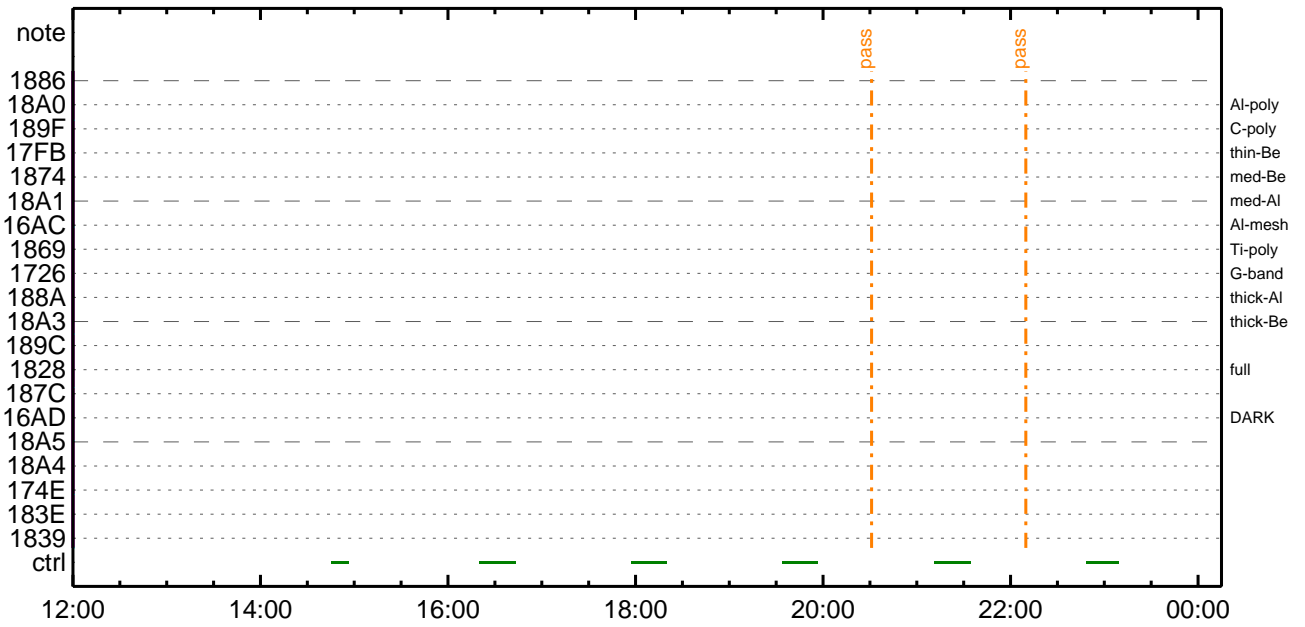
CMDI #0134 2011/09/11



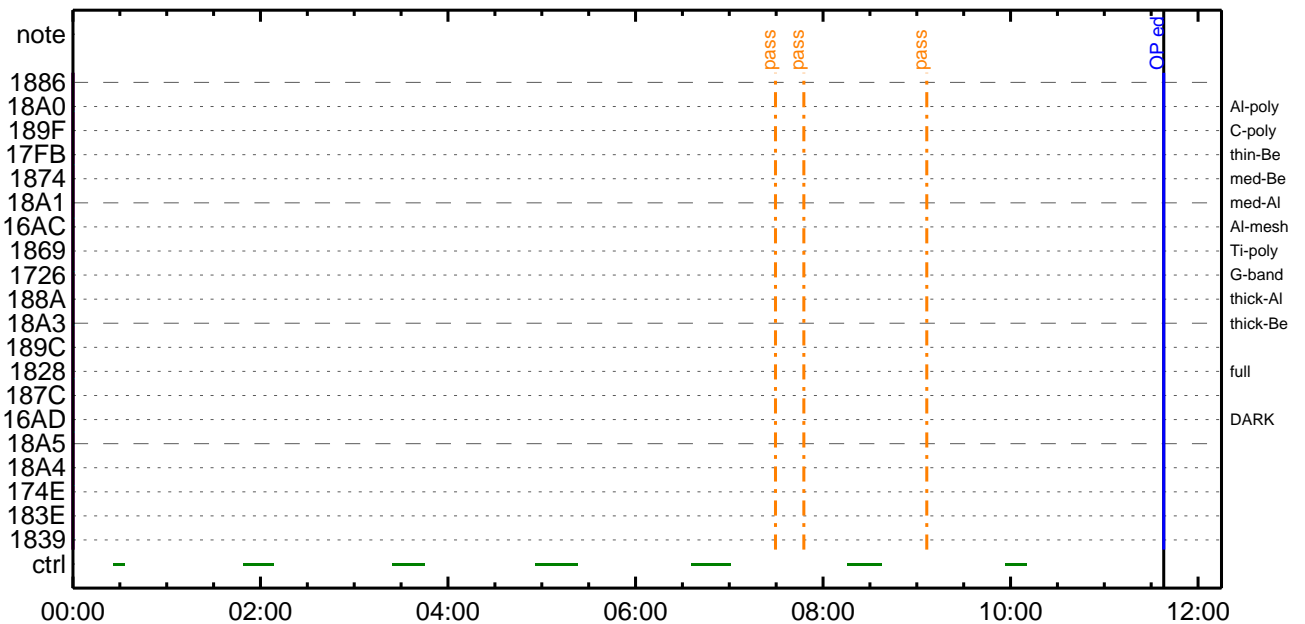
CMDI #0134 2011/09/12



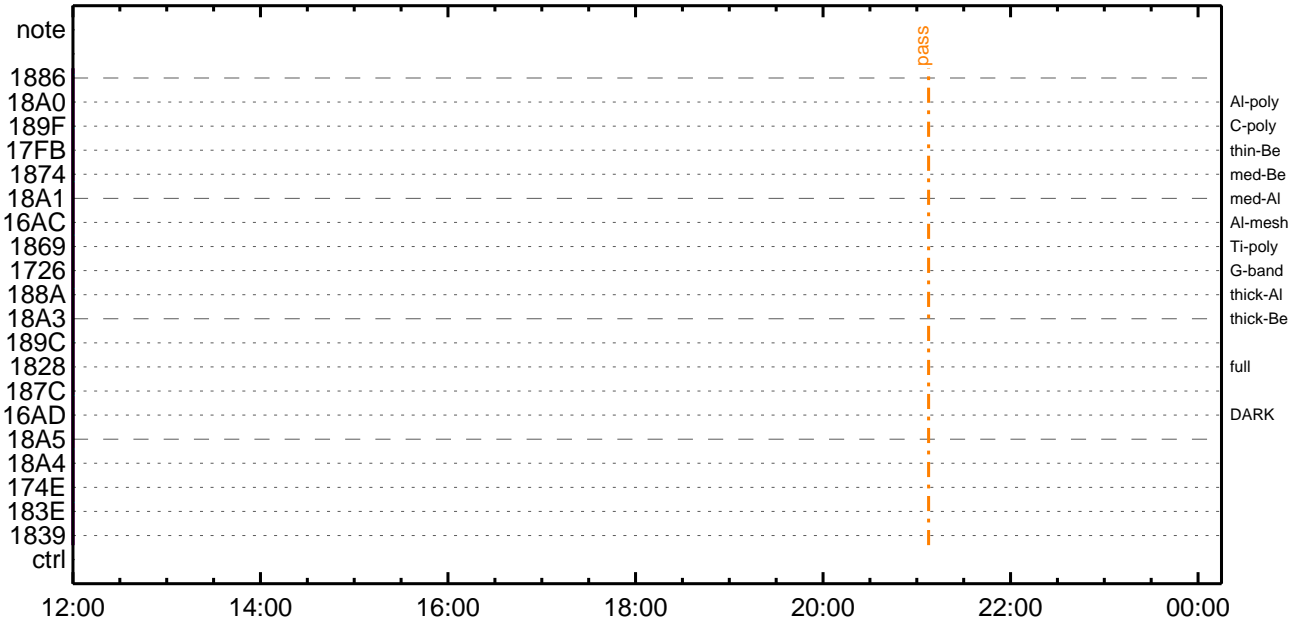
CMDI #0134 2011/09/12



CMDI #0134 2011/09/13



CMDI #0134 2011/09/13



(a) Spacecraft Operation Procedure (real-commands)

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main-323 2011-09-09 13:51:43 205 33 SOLAR-B MAIN //
0001  C.
0002  . C. ***** AOS *****
0003  C.
0004  . C. ;ãAOSYÁYŞYÄY-¼Ä»Û;ä
0005  C.
0006  C. YÄYŞ;¼Y³YFYÖYÉÁ+¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008  C.
0009  . C. ***** AOCs : Reload orbital element (send every contact) *****
0010  C. Áí;Èò¿òÁò•µ°Æ»Í×ÁÇòíYçYÄY×Yí;¼YÉ;ÈÈè¼µ•ííÉ;ÈòÈ¼°ÇÓò•ò¿¼í¹çòí;çÁ®, ùò¹òÈòòòçÁ+¿®ò•òÈòòòò³òÈ;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. ;ãOP/OGYí;¼YÉ;ä
0019  . S. OP      op-323:OP
0020  ( )
0021  . S. OG      og-323:OG
0022  ( )
0023  C.
0024  . C. ;ãNMOG&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×¼³ª î»òð³ îÇ§
0041  C.      çç[HK1_DMP_CHK_FLG]             EQ     NON
0042  . C. RAM ID=NMOGòí¼È¹ç•è² İOKòð³ 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×¼³ª î»òð³ îÇ§
0060  C.      çç[HK1_DMP_CHK_FLG]             EQ     NON
0061  . C. RAM ID=NMOGòí¼È¹ç•è² İOKòð³ 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×¼³ª î»òð³ îÇ§
0079  C.      çç[HK1_DMP_CHK_FLG]             EQ     NON
0080  . C. RAM ID=NMOG,RAM ID=OPòí¼È¹ç•è² İOKòð³ îÇ§
0081  C.
0082  . C. ***** 0È²¼òí¼Ä´¶¼°òÈÈ-ò°Á+¿® (¼áµ-YÄYÖY×¼è¼çòðÁÖÁæç¼ª°ò¼¼¼í¹çòçòâ) *****
0083  C. DHUYâ;¼YÉ;È¼Y¼; Yí;¼YÉ;Èòòíáò¹
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 UPLOADò-Á+¿®NGòí¼¹ç; ç°È²¼òí¼TI-CMDÁ+¿®òí¼Á¹Ôò•òÈòòòò³òÈ;f
    
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0096 C.                0x00; SET EDUMP 1x0iYNY1aÇ1Ôa|a³aE;E
0097 C.
0098 C. TIY³YBYÖYÉaðdADİ¿(UT)
0099 +. TI 2011-09-09 09:26:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2011-09-09 09:26:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2011-09-09 09:26:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2011-09-09 09:30:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C. °E²¼aİÄê%îİÑaİYÁY§YÁY-¹àİÛ
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;Èaðİãa¹
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 2011-09-09 09:30:16.0
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 2011-09-09 09:30:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2011-09-09 09:30:40.0
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 2011-09-09 09:30:00.0
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 `uÄİaİ»ö¼YöÈÄa¹aèDCBC•x²è *****
0192 C. (¼a°İYÖYÁYÈYB½YÈYÁYçYèaÈ¼a¼A»Ûa¹aé)
0193 C. 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;ã
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



```

0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 C.
0130 . C. ***** MDP 'ûÃîñî»ò¼ÿñÊÂðñ¹ñèDCBC•x²è *****
0131 C. (¼â°îÿÓÿÃÿÊÿPÿËÿâÿçÿèñÊ¼ñ¼Ã»Ûñ¹ñè)
0132 . S. DC-BC dcbc-402:DCBC
0133 (MDP_known_event)
0134 C.
0135 C.
0136 . C. ***** ÿDÿ¹•Ï Daily±;îÑñÊ'Øñ¹ñèDCBC•x²è *****
0137 . S. DC-BC dcbc-153:DCBC
0138 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0139 C.
0140 C.
0141 . C. ;ãLOSÿÃÿSÿÿÃÿ¹¼Ã»Û;ã
0142 C.
0143 . C. ***** LOS *****
0144 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-325 2011-09-09 13:51:44 133 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;Èα¿αÁα•μ°È»Í×ÁÇαÍY¿Y×Yí;¼YÉ;ÈÈ%μ•íÉ;ÈÈ¼°ÇÔα•α¿¼í¹çαÍ;çÀ®, ùα¹αÈαBαÇÁ+¿®α•αÈααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C. *** XRT STBY -> OPERATE
0017 +. DC 07-F8 XRT_OPERATE
0018 BC (03 02)
0019 C. *****
0020 +. DC 07-F0 MDP_XRT_CTRL_MANU
0021 BC (c1)
0022 + DC 07-F0 MDP_XRT_MODE_STBY
0023 BC (c3)
0024 . C. ----- Success Verify ? OK / NG____
0025 C.
0026 C. XRT Obs. Table Upload
0027 . S. RAM ram-291:MDP_OBS_X
0028 ( )
0029 C.
0030 +. DC 07-F0 MDP_DUMP_XRTTBL
0031 BC (84 07 00 00 00 3a d4)
0032 . C. ----- Comparison Check ? OK / ERR ____
0033 C.
0034 C.
0035 +. DC 07-F0 MDP_XRT_ROI_SET
0036 BC (cd 01 b1 b1 04 04)
0037 + DC 07-F0 MDP_XRT_ROI_SET
0038 BC (cd 02 b1 b1 08 08)
0039 + DC 07-F0 MDP_XRT_ROI_SET
0040 BC (cd 03 b1 b1 08 08)
0041 + DC 07-F0 MDP_XRT_ROI_SET
0042 BC (cd 04 b1 b1 06 06)
0043 + DC 07-F0 MDP_XRT_ROI_SET
0044 BC (cd 05 85 83 06 06)
0045 + DC 07-F0 MDP_XRT_ROI_SET
0046 BC (cd 06 85 83 06 06)
0047 + DC 07-F0 MDP_XRT_ROI_SET
0048 BC (cd 07 80 80 08 08)
0049 + DC 07-F0 MDP_XRT_ROI_SET
0050 BC (cd 08 80 80 20 20)
0051 + DC 07-F0 MDP_XRT_ROI_SET
0052 BC (cd 09 80 80 20 08)
0053 + DC 07-F0 MDP_XRT_ROI_SET
0054 BC (cd 0a 80 80 08 20)
0055 + DC 07-F0 MDP_XRT_ROI_SET
0056 BC (cd 0f 80 80 06 06)
0057 + DC 07-F0 MDP_XRT_ROI_SET
0058 BC (cd 10 80 80 08 08)
0059 + DC 07-F0 MDP_XRT_FLD_ENA
0060 BC (d8)
0061 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0062 BC (c8)
0063 +. DC 07-F0 MDP_XRT_AEC_RESET
0064 BC (d0)
0065 + DC 07-F0 MDP_XRT_ARS_DIS
0066 BC (d5)
0067 +. DC 07-F0 MDP_XRT_FLD_RESET
0068 BC (da)
0069 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0070 BC (c4 12)
0071 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0072 BC (c5 0d)
0073 . C. ----- Success Verify ? OK / NG ____
0074 C.
0075 C.
0076 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0077 C.
0078 +. DC 07-F0 MDP_XRT_MODE_OBSV
0079 BC (c2)
0080 +. TI 2011-09-09 09:30:02.0
0081 DC 07-F0 MDP_XRT_MODE_OBSV
0082 BC (c2)
0083 . C. ----- Success Verify ? OK / NG ____
0084 C.
0085 C. ***** XRT END *****
0086 . C. *****
0087 C. SOT table upload
0088 C. *****
0089 . C. < Stop FG table >
0090 +. DC 07-F0 MDP_FG_CTRL_MANU
0091 BC (51)
0092 . C. -----
0093 C. MDP_FG_CTRL_MODE = MANU [ ]
0094 C. -----
0095 C.
```

```

0096 . C. <Upload FG Observation Table>
0097 . S. RAM ram-264:MDP_OBS_F
0098 ( )
0099 C.
0100 . C. < Dump RAMID=MDP_OBS_F >
0101 +. DC 07-F0 MDP_DUMP_FGTBL
0102 BC (82 07 00 00 00 38 b8)
0103 C. -----
0104 C. MDP_OBS_F verify = OK/NG [ ]
0105 C. -----
0106 C.
0107 C. *****
0108 C. SOT TI command set
0109 C. *****
0110 C. Execute, after the success of TBL upload.
0111 +. TI 2011-09-09 09:30:18.0
0112 DC 07-F0 MDP_SOT_MODE_OBSV
0113 BC (40)
0114 . C. -----
0115 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0116 C. -----
0117 C.
0118 C.
0119 . C. ***** MDP 'úÃîñî»ö¼ÝñÊÂðñ¹ñèDCBC•x²è *****
0120 C. (¼ã°îÝÓÝÄÝÈÝÞÝËÝáÝçÝèñ¼ñ¼Ä»Ûñ¹ñè)
0121 . S. DC-BC dcbc-402:DCBC
0122 (MDP_known_event)
0123 C.
0124 C.
0125 . C. ***** ÝÐÝ¹•Ï Daily±¿ÎññÉ´Øñ¹ñèDCBC•x²è *****
0126 . S. DC-BC dcbc-153:DCBC
0127 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0128 C.
0129 C.
0130 . C. ;ãLOSÝÄÝ$ÝÄÝ¬¼Ä»Û;ä
0131 C.
0132 . C. ***** LOS *****
0133 C.

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

2011/09/09	09:40:54.0	XRT_CTRL_MANU_439_OG [0x1b7]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	09:41:00.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2011/09/09	09:43:26.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2011/09/09	09:43:46.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2011/09/09	09:43:48.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2011/09/09	09:43:50.0	XRT_AEC_RESET_443_OG [0x1bb]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2011/09/09	09:43:52.0	XRT_ARS_DIS_431_OG [0x1af]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2011/09/09	09:43:54.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/09	09:43:56.0	XRT_QT_PROG_SET_448_OG [0x1c0]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12				
2011/09/09	09:43:58.0	XRT_FL_PROG_SET_420_OG [0x1a4]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2011/09/09	09:44:00.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/09	10:47:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	10:47:32.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/09	10:47:34.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/09	10:50:00.0	XRT_Custom_418_OG [0x1a2]							
2011/09/09	10:50:44.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/09	10:51:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/09	14:33:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	14:33:02.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/09	14:33:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/09	14:36:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/09	14:43:00.0	XRT_Custom_418_OG [0x1a2]							
2011/09/09	14:44:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/09	16:07:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	16:07:32.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/09	16:07:34.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/09	16:10:44.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/09	16:31:00.5	XRT_Custom_418_OG [0x1a2]							
2011/09/09	16:32:00.5	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/09	17:44:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	17:44:02.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/09	17:44:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/09	17:47:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/09	18:07:24.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2011/09/09	18:07:30.0	AOCS_OrE-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2011/09/09	18:07:44.0	XRT_FLD_DIS_402_OG [0x192]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2011/09/09	18:07:46.0	XRT_FLRCTRL_DIS_433_OG [0x1b1]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2011/09/09	18:07:48.0	XRT_ARS_DIS_438_OG [0x1b6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2011/09/09	18:10:26.0	XRT_QT_PROG_SET_410_OG [0x19a]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2011/09/09	18:10:28.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/09	18:17:24.0	XRT_CTRL_MANU_439_OG [0x1b7]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/09	18:17:30.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2011/09/09	18:19:56.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2011/09/09	18:20:16.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2011/09/09	18:20:18.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2011/09/09	18:20:20.0	XRT_AEC_RESET_443_OG [0x1bb]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2011/09/09	18:20:22.0	XRT_ARS_DIS_431_OG [0x1af]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				

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2011/09/09	18:20:24.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/09	18:20:26.0	XRT_QT_PROG_SET_448_OG [0x1c0]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	12
2011/09/09	18:20:28.0	XRT_FL_PROG_SET_420_OG [0x1a4]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2011/09/09	18:20:30.0	XRT_CTRL_AUTO_406_OG [0x196]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/09	19:21:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/09	19:21:02.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/09	19:21:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/09	19:24:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/09	19:44:30.0	XRT_Custom_418_OG [0x1a2]					
2011/09/09	19:45:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/09	20:58:30.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/09	20:58:32.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/09	20:58:34.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/09	21:01:44.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/09	21:21:30.0	XRT_Custom_418_OG [0x1a2]					
2011/09/09	21:22:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/09	22:36:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/09	22:36:02.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/09	22:36:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/09	22:39:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/09	22:57:00.0	XRT_Custom_418_OG [0x1a2]					
2011/09/09	22:58:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/10	00:13:30.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/10	00:13:32.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/10	00:13:34.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/10	00:16:44.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/10	00:21:30.0	XRT_Custom_418_OG [0x1a2]					
2011/09/10	00:22:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/10	01:37:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/10	01:37:02.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/10	01:37:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/10	01:40:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/10	01:56:00.0	XRT_Custom_418_OG [0x1a2]					
2011/09/10	01:57:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/10	03:12:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/10	03:12:02.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/10	03:12:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/10	03:15:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/10	03:33:00.0	XRT_Custom_418_OG [0x1a2]					
2011/09/10	03:34:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/10	04:42:00.0	XRT_CTRL_MANU_408_OG [0x198]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/10	04:42:02.0	XRT_FLD_RESET_412_OG [0x19c]	MDP_XRT_FLD_RESET	1	07-F0	da	
2011/09/10	04:42:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2011/09/10	04:45:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2011/09/10	05:10:30.0	XRT_Custom_418_OG [0x1a2]					
2011/09/10	05:11:30.0	XRT_CTRL_AUTO_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2011/09/10	05:54:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2011/09/10	05:54:26.0	XRT_FOCUS_POSITION_401_OG [0x191]	XRT_FOCUS_POSITION	4	07-F8	22	ff aa 00
2011/09/10	05:54:30.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00 00 00 00
2011/09/10	05:54:46.0	XRT_FLD_DIS_402_OG [0x192]	MDP_XRT_FLD_DIS	1	07-F0	d9	

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2011/09/10	05:54:48.0	XRT_FLRCTRL_DIS_433_OG [0x1b1]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2011/09/10	05:54:50.0	XRT_ARS_DIS_438_OG [0x1b6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2011/09/10	05:57:28.0	XRT_QT_PROG_SET_410_OG [0x19a]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	07			
2011/09/10	05:57:30.0	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/10	06:04:24.0	XRT_CTRL_MANU_439_OG [0x1b7]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/10	06:04:30.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2011/09/10	06:06:56.0	XRT_FOCUS_POSITION_409_OG [0x199]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2011/09/10	06:07:16.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2011/09/10	06:07:18.0	XRT_FLRCTRL_ENA_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2011/09/10	06:07:20.0	XRT_AEC_RESET_443_OG [0x1bb]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2011/09/10	06:07:22.0	XRT_ARS_DIS_431_OG [0x1af]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2011/09/10	06:07:24.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/10	06:07:26.0	XRT_QT_PROG_SET_448_OG [0x1c0]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	12			
2011/09/10	06:07:28.0	XRT_FL_PROG_SET_420_OG [0x1a4]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2011/09/10	06:07:30.5	XRT_CTRL_AUTO_406_OG [0x196]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/10	06:22:30.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/10	06:22:32.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/10	06:22:34.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/10	06:25:44.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/10	06:48:00.0	XRT_Custom_418_OG [0x1a2]							
2011/09/10	06:49:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/10	08:03:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/10	08:03:02.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/10	08:03:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/10	08:06:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/10	08:25:00.0	XRT_Custom_418_OG [0x1a2]							
2011/09/10	08:26:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/10	09:43:00.0	XRT_CTRL_MANU_408_OG [0x198]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/10	09:43:02.0	XRT_FLD_RESET_412_OG [0x19c]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2011/09/10	09:43:04.0	XRT_PREFLR_STRT_422_OG [0x1a6]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2011/09/10	09:46:14.0	XRT_PREFLR_STOP_424_OG [0x1a8]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2011/09/10	09:59:00.0	XRT_Custom_418_OG [0x1a2]							
2011/09/10	10:00:00.0	XRT_CTRL_AUTO_419_OG [0x1a3]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2011/09/10	10:48:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2011/09/10	10:49:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00