XRT Timeline to be uploaded on 2009/01/06

Period: 2009/01/06 10:02:00 - 2009/01/10 11:10:00

Normal mode

XOB #15E2: AR multifilter - Al/mesh,Ti/Poly,Al/Poly,Thin-Be FOV256 AEC1 Q95- 2 min cad

Term	Pointing (x, y)	Comment
01/06 10:14:30 - 01/06 15:00:30	Fixed (817.0, 470.1)	# OP start + 10min Limb AR OBS
01/06 18:03:30 - 01/07 02:35:30	Fixed (817.0, 470.1)	#Limb AR OBS

PROG= 12 Inf.-time(s)
Subr= 1 1-time(s) 90.0sec
Seqn= 81 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	1x1	256x256 (1024, 1024)	Q=95	1	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	1x1	256x256 (1024, 1024)	Q=95	1	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	8.00s	Obs	1x1	256x256 (1024, 1024)	Q=95	1	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	22.6s	Obs	1x1	256x256 (1024, 1024)	Q=95	1	0	2.0sec

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
01/06 17:54:30 - 01/06 18:03:00	Fixed (0.0, 0.0)	synoptic, shifted -8.5 min
01/07 06:03:00 - 01/07 07:12:00	Fixed (0.0, 0.0)	synoptic
01/07 17:58:30 - 01/08 06:28:24	Fixed (0.0, 0.0)	synoptic, shifted -4.5 min
01/08 06:31:30 - 01/10 11:10:00	Fixed (0.0, 0.0)	synoptic, shifted 28.5 min

PROG= 07 1-time(s)
Subr= 1 1-time(s) 12.0sec
Seqn= 36 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 67 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 88 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1634: MHD Waves-Al/poly 384FOV - 20s cadence with Ti-poly context+G-band alignment

Term	Pointing (x, y)	Comment
01/07 07:15:06 - 01/07 09:29:24	Track (-19.8, -0.2) @ 01/07 06:10:00	# DC OBS with MDI

PROG= 13 Inf.-time(s)
Subr= 1 3-time(s) 2.0sec
Seqn= 51 60-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	20.0sec

Seqn= 75 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
C-poly/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	DPCM	1	0	2.0sec

Subr= 2 1-time(s) 2.0sec
Seqn= 84 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec

Flare mode

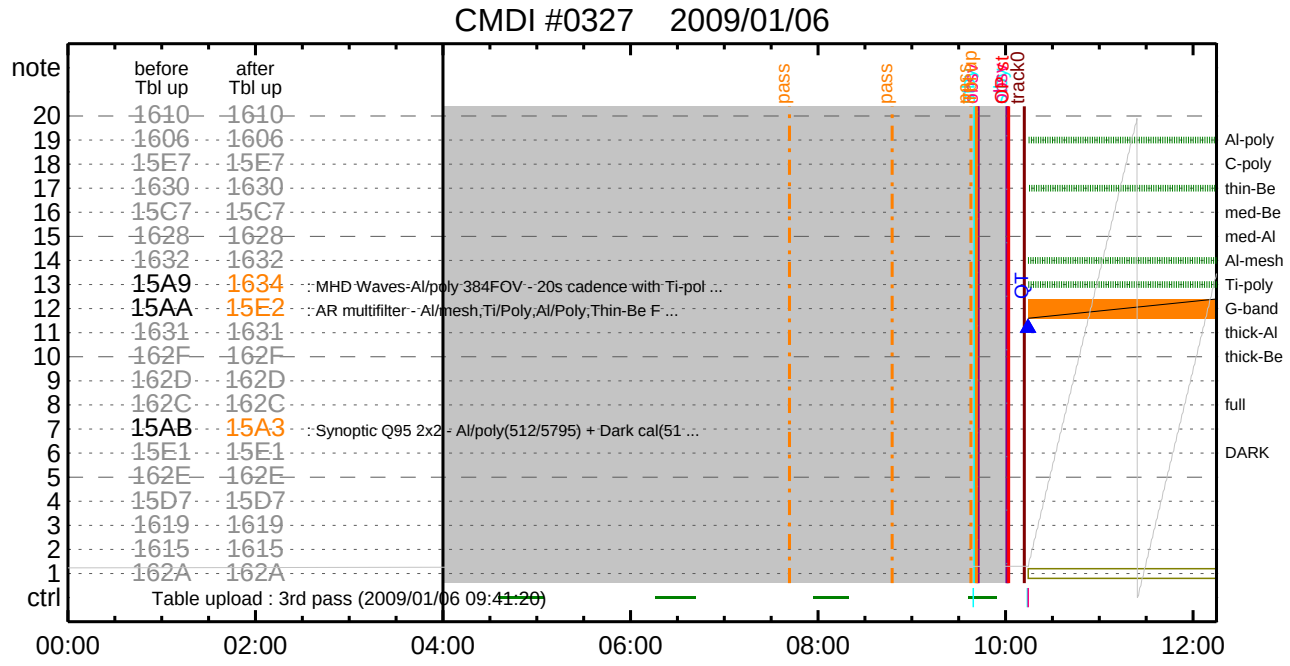
NOT USED

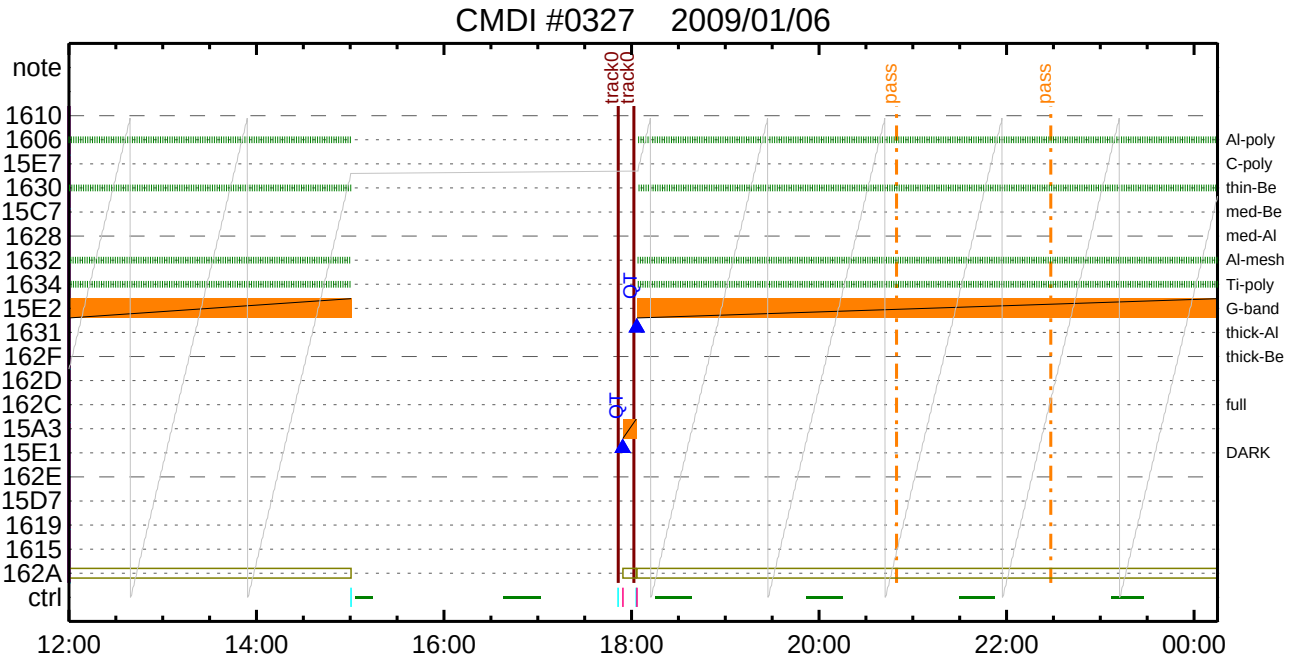
Active Region Search

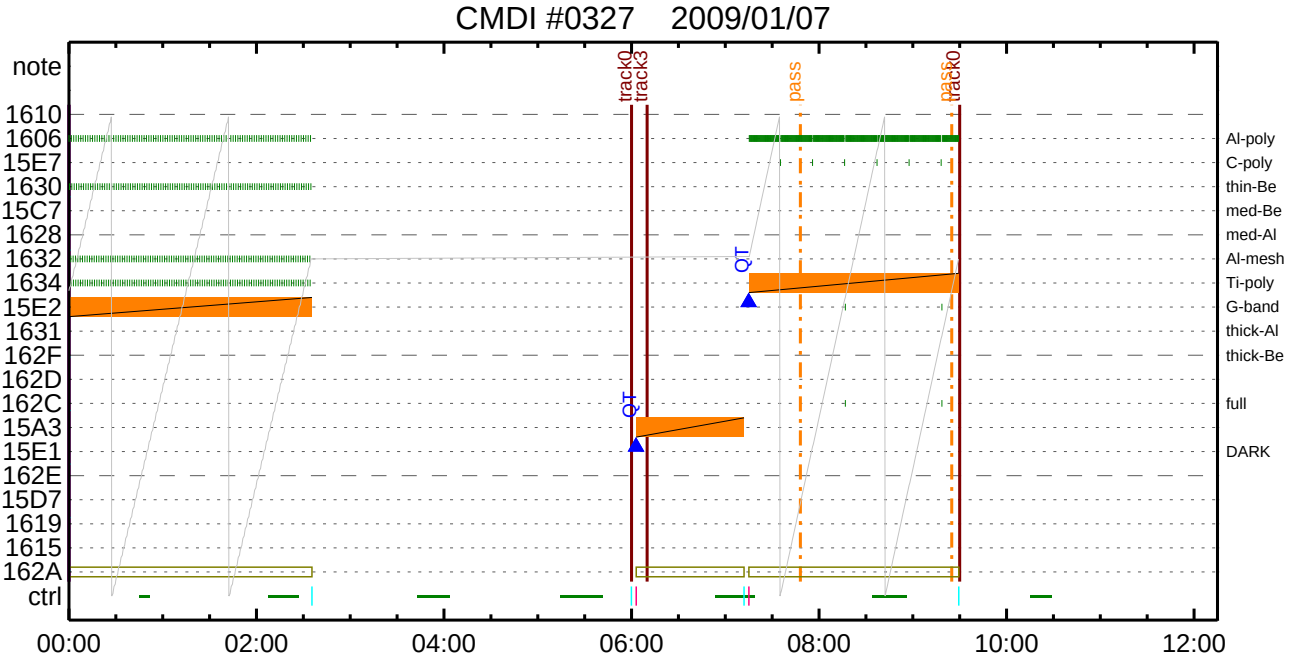
NOT USED

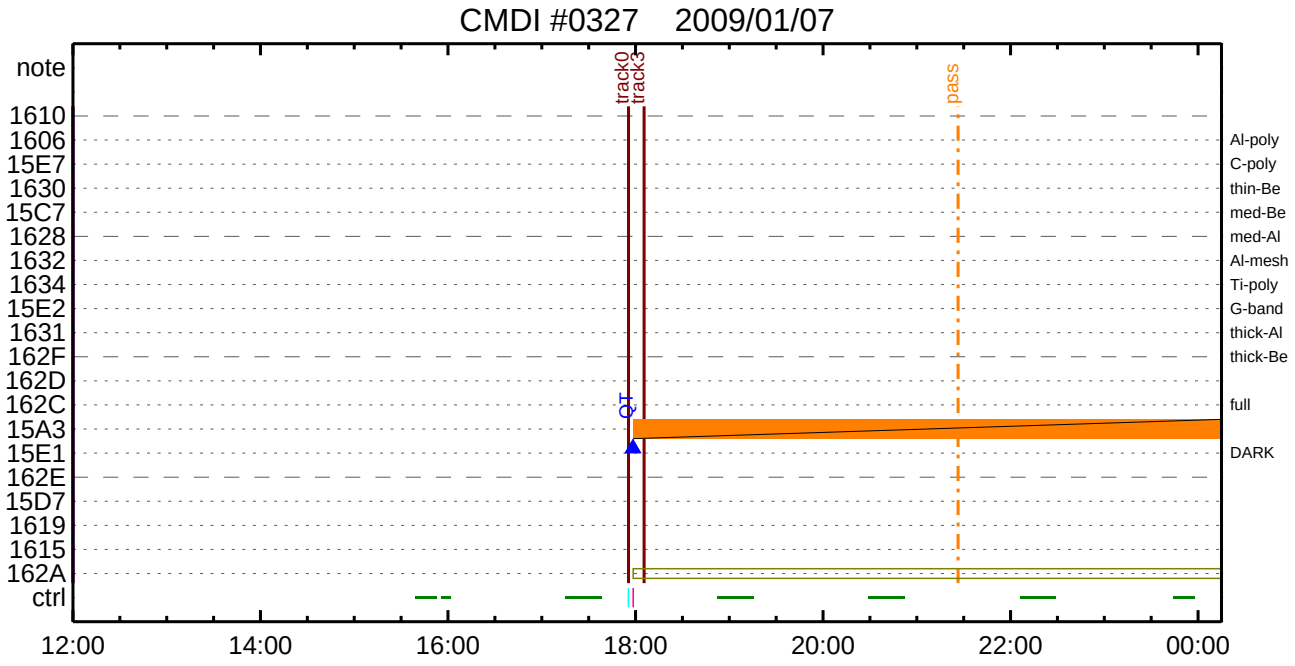
Flare Detection

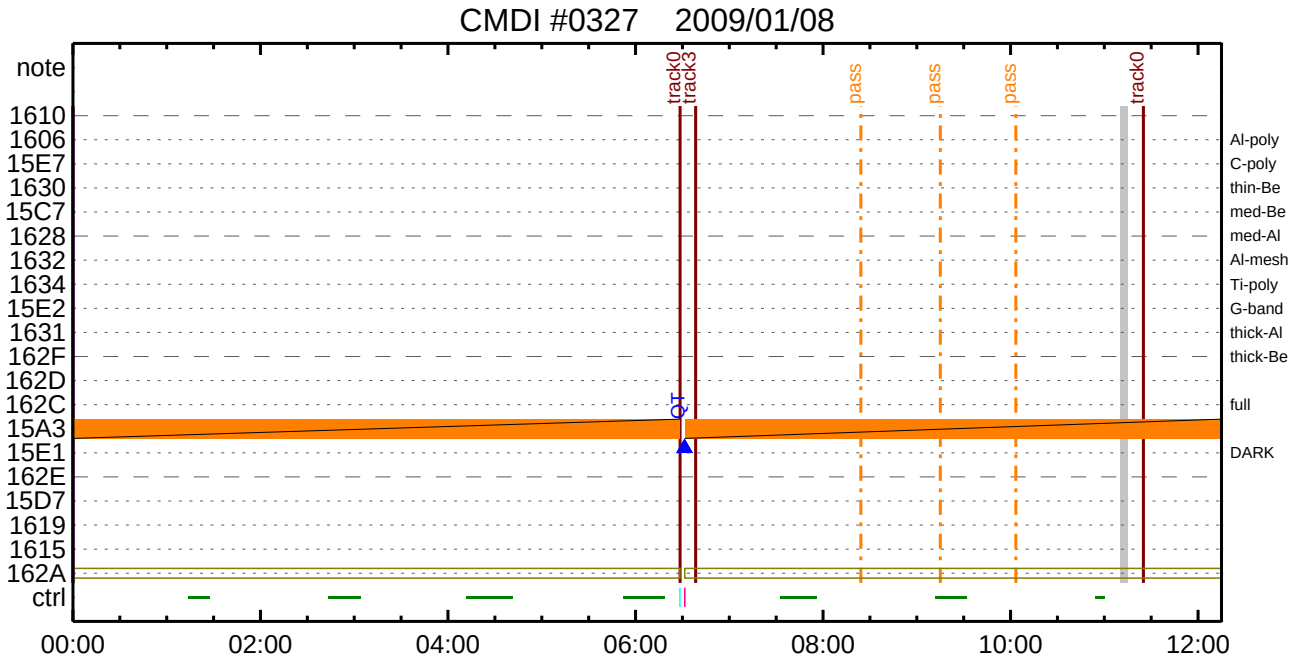
NOT USED

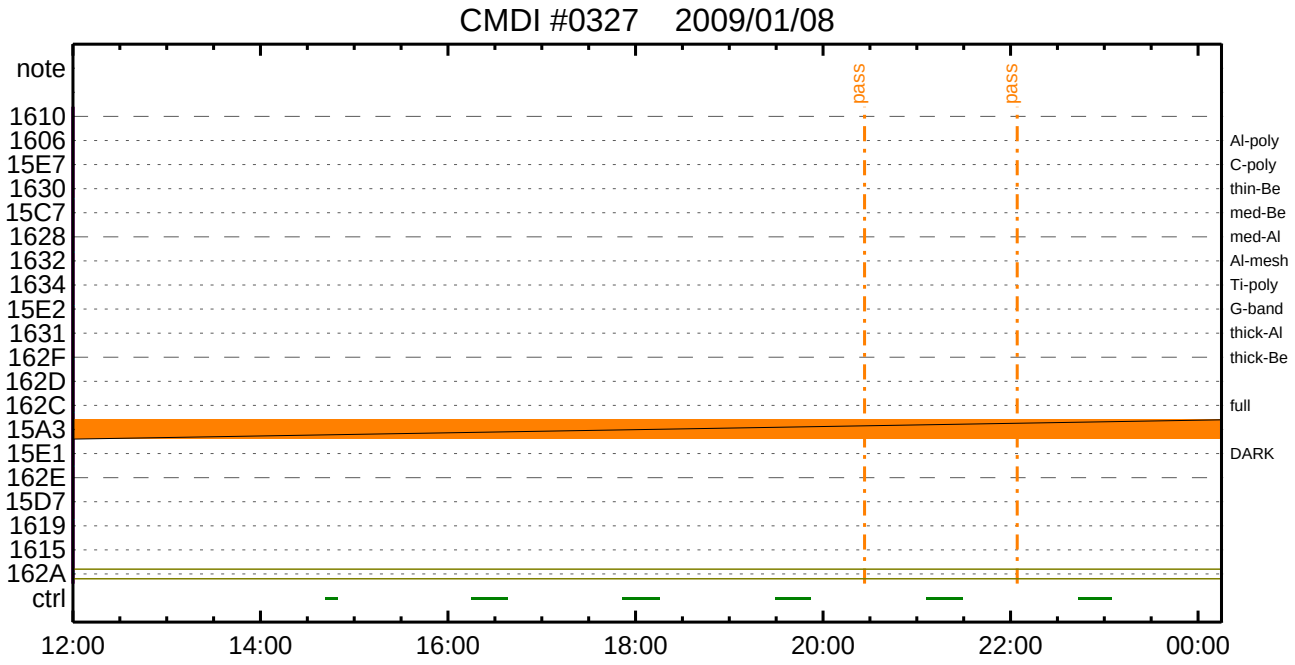

CMDI #0327 2009/01/06
note
before Tbl up
after Tbl up
20 1610 1610
19 1606 1606
18 15E7 15E7
17 1630 1630
16 15C7 15C7
15 1628 1628
14 1632 1632
13 15A9 1634 : MHD Waves-Al/poly 384FOV - 20s cadence with Ti-pol ...
12 15AA 15E2 : AR multifilter - Al/mesh,Ti/Poly,Al/Poly,Thin-Be F ...
11 1631 1631
10 162F 162F
9 162D 162D
8 162C 162C
7 15AB 15A3 : Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(51 ...
6 15E1 15E1
5 162E 162E
4 15D7 15D7
3 1619 1619
2 1615 1615
1 162A 162A
ctrl
Table upload : 3rd pass (2009/01/06 09:41:20)
pass
pass
track0
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

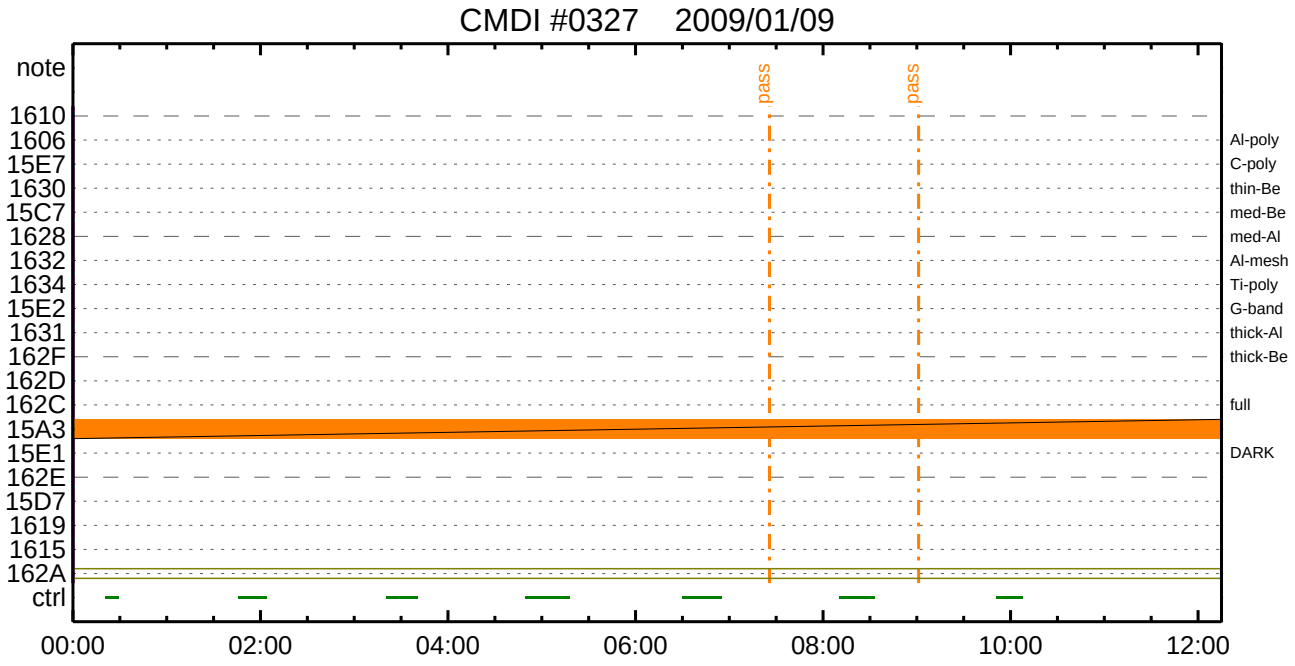

CMDI #0327 2009/01/06
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
track0
track0
pass
pass
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0327 2009/01/07
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
track0
track3
pass
pass
track0
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0327 2009/01/07
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
track0
track3
pass
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0327 2009/01/08
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
track0
track3
pass
pass
pass
track0
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0327 2009/01/08
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00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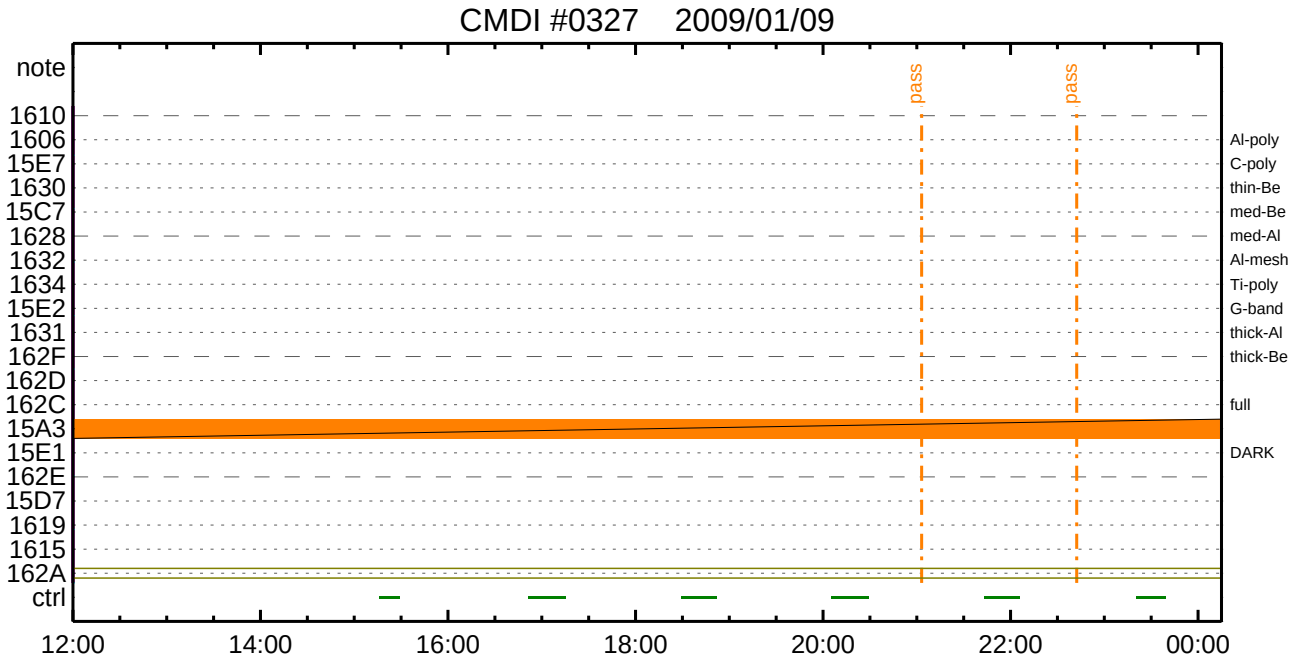
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0327 2009/01/09
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
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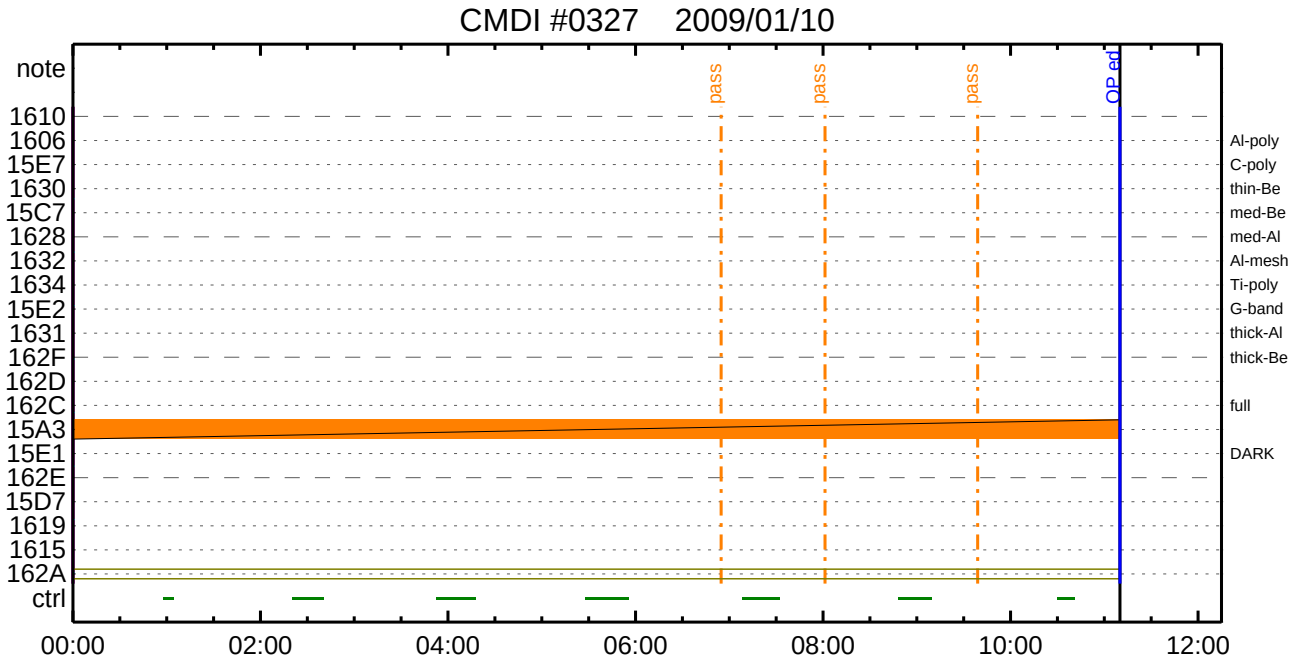
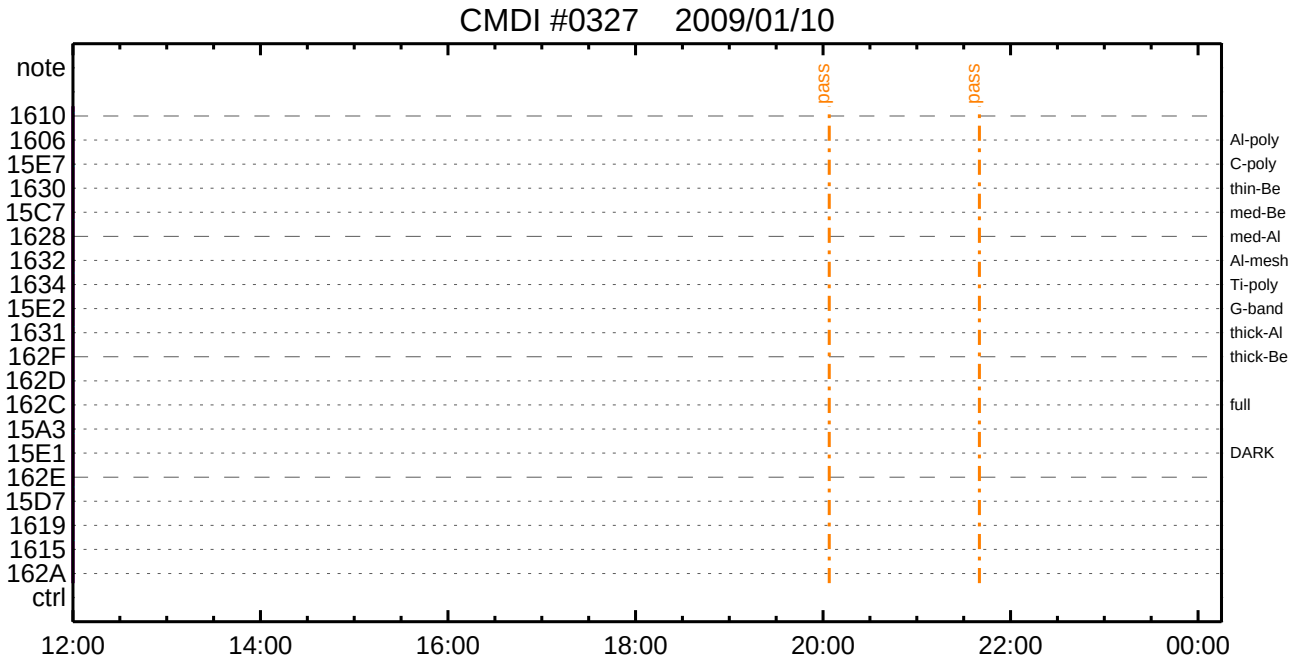

CMDI #0327 2009/01/10
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0327 2009/01/10
note
1610
1606
15E7
1630
15C7
1628
1632
1634
15E2
1631
162F
162D
162C
15A3
15E1
162E
15D7
1619
1615
162A
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

```
(a) Spacecraft Operation Procedure (real-commands)

main-332 2009-01-06 12:43:01 205 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP    op-332:OP
0020     ()
0021   . S. OG    og-332:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡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.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0029     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0030     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0031     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0032     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0033   +. DC 01-22 DHU_MODE_CHNG
0034     BC       (07 0b f8)
0035     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0036     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0037     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0038     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0039     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0040   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0041     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
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.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0048     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0049     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0050     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0051     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0052   +. DC 01-22 DHU_MODE_CHNG
0053     BC       (07 0b f8)
0054     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0055     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0056     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0057     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0058     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0059   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0060     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
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.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0067     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0068     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0069     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0070     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0071   +. DC 01-22 DHU_MODE_CHNG
0072     BC       (07 0b f8)
0073     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0074     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0075     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0076     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0077     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0078   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0079     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0084   +. DC 01-22 DHU_MODE_CHNG
0085     BC       (02 0a f8)
0086     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0087     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0088     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0089     C.                       ¢¢[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 UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
0096     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0097     C.
0098   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0099   +. TI 2009-01-06 09:57:00.0
0100     DC 01-B3 DHU_OP_STOP
0101     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0102     C.
0103   +. TI 2009-01-06 09:57:01.0
0104     DC 01-B4 DHU_OP_COPY
0105     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0106     C.
0107   +. TI 2009-01-06 09:57:01.0
0108     DC 01-B5 DHU_OPOG_COPY
0109     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0110     C.
0111   +. TI 2009-01-06 10:01:59.5
0112     DC 01-B2 DHU_OP_START
0113     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0114     C.
0115     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0116     C.                       ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0117     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     4
0118     C.                       ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0119     C.                       ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0120     C.
0121   . C. ****************************
0122     C. TIÎÎ°è¥À¥ó¥×
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.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0129     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0130     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0131     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0132     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0133   +. DC 01-22 DHU_MODE_CHNG
0134     BC       (07 0b f8)
0135     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0136     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0137     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0138     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0139     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0140     C.
0141   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0142     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0143     C.
0144   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0145     C.
0146   . C. DHU¥â¡¼¥É¡Ê¼ý¸¸¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0147   +. DC 01-22 DHU_MODE_CHNG
0148     BC       (02 0a f8)
0149     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0150     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0151     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0152     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0153     C.
0154   . C. Stop EIS observation and temporarily disable EIS mode changes
0155     C.
0156     C.
0157     C. ********** Start EIS operation (TI set) **********
0158     C. Execute, after the success of OP upload.
0159     C. Set EIS TI-commands
0160   +. TI 2009-01-06 10:01:30.0
0161     DC 07-FC EIS_MODE_MANU
0162     BC       (21 02)
0163   +. TI 2009-01-06 10:01:40.0
0164     DC 07-FC EIS_MODE_CHG_DIS
0165     BC       (22)
0166   . C.                        [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0167     C. *********** End EIS operation (TI set) ***********
0168     C.
0169     C.
0170     C. ********************************
0171     C.  SOT TI command set
0172     C. ********************************
0173     C. Execute, after the success of OP upload.
0174   +. TI 2009-01-06 10:01:16.0
0175     DC 07-F0 MDP_SOT_MODE_STBY
0176     BC       (41)
0177   . C. ------------------------------------
0178     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0179     C. ------------------------------------
0180     C. ************ SOT END ***********
0181     C.
0182     C. ************ XRT START ***********
0183     C. Execute, after the success of OP upload.
0184   +. TI 2009-01-06 10:01:00.0
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 ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0192     C. (¾å°Ì¥Ó¥Ã¥Ë¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0193   . S. DC-BC dcbc-402:DCBC
```

```
0194     (MDP_known_event)
0195     C.
0196     C.
0197   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0198   . S. DC-BC dcbc-153:DCBC
0199     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200     C.
0201     C.
0202   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0203     C.
0204   . C. ********** LOS **********
0205     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-333 2009-01-06 12:43:01 175 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
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 SATUS] 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. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131   +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133   +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 4773502.8 +- 1.0 (s) [ ]
0136     C.
0137   . C.
0138   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_MANU
0140     BC       (21 02)
0141   . C. Verify EIS in MANUAL mode
0142   . C. Estimated OBSTBL upload time is 18s
0143     C. ********************************
0144     C. EIS START OBSTBL LOAD
0145     C. ********************************
0146   . S. RAM   ram-820:EIS_OBSTBL
0147     ()
0148   +. DC 07-FC EIS_DUMP_OBSTBL
0149     BC       (07 07 07 00 00 70 00)
0150     C.
0151     C. Execute, after the success of OBSTBL upload.
0152     C. Set EIS TI-commands
0153   +. TI 2009-01-06 10:01:50.0
0154     DC 07-FC EIS_MODE_CHG_ENA
0155     BC       (20)
0156   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0157     C. ********************************
0158     C. EIS END OBSTBL LOAD
0159     C. ********************************
0160     C.
0161   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0162     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0163   . S. DC-BC dcbc-402:DCBC
0164     (MDP_known_event)
0165     C.
0166     C.
0167   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0168   . S. DC-BC dcbc-153:DCBC
0169     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0170     C.
0171     C.
0172   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0173     C.
0174   . C. ********** LOS **********
0175     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-334 2009-01-06 12:43:01 154 33 SOLAR-B MAIN //
0001     C.
0002    . C. *********** AOS ***********
0003     C.
0004    . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007    +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009    . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011    +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014    . C. ********************************
0015     C.  SOT table upload
0016     C. ********************************
0017    . C. < Stop FG table >
0018    +. DC 07-F0 MDP_FG_CTRL_MANU
0019     BC       (51)
0020    . C. ------------------------------------
0021     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0022     C. ------------------------------------
0023     C.
0024    . C. <Upload FG Observation Table>
0025    . S. RAM   ram-262:MDP_OBS_F
0026     ()
0027     C.
0028    . C. < Dump RAMID=MDP_OBS_F >
0029    +. DC 07-F0 MDP_DUMP_FGTBL
0030     BC       (82 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_F verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035    . C. < Stop SP table >
0036    +. DC 07-F0 MDP_SP_CTRL_MANU
0037     BC       (61)
0038     C. ------------------------------------
0039     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0040     C. ------------------------------------
0041     C.
0042    . C. <Upload SP Observation Table>
0043    . S. RAM   ram-283:MDP_OBS_S
0044     ()
0045     C.
0046    . C. < Dump RAMID=MDP_OBS_S >
0047    +. DC 07-F0 MDP_DUMP_SPTBL
0048     BC       (83 07 00 00 00 38 b8)
0049     C. ------------------------------------
0050     C.  MDP_OBS_S verify = OK/NG        [ ]
0051     C. ------------------------------------
0052     C.
0053    . C. < Upload DPL table >
0054     C.
0055     C. ¥¢¥Ã¥×¥í¡¼¥É¤ÎÁ°¤ËSTS_CHK¤òOFF¤Ë¤¹¤ë
0056     C.
0057    . S. RAM   ram-271:MDP_DPL
0058     ()
0059     C.
0060    . C. < Dump RAMID=MDP_DPL >
0061    +. DC 07-F0 MDP_DUMP_FGTBL
0062     BC       (82 07 00 38 b8 00 40)
0063     C. ------------------------------------
0064     C.  MDP_DPL verify          = OK    [ ]
0065     C. ------------------------------------
0066     C.
0067     C. STS_CHK¤òON¤Ë¤¹¤ë
0068     C.
0069    . C. < Update MDP DSC PAR1 >
0070    +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0071     BC       (4c)
0072     C.  MDP_CMD_CODE          = F04C0700[ ]
0073     C.  MDP_CMD_CNT        (count-up 1) [ ]
0074     C. ------------------------------------
0075     C.
0076    . C.
0077     C. ********************************
0078     C.  SOT TI command set
0079     C. ********************************
0080     C. Execute, after the success of TBL upload.
0081    +. TI 2009-01-06 10:01:18.0
0082     DC 07-F0 MDP_SOT_MODE_OBSV
0083     BC       (40)
0084    . C. ------------------------------------
0085     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0086     C. ------------------------------------
0087     C.
0088     C.
0089     C. ************ XRT START ************
0090     C.
0091    +. DC 07-F0 MDP_XRT_CTRL_MANU
0092     BC       (c1)
0093    +  DC 07-F0 MDP_XRT_MODE_STBY
0094     BC       (c3)
0095    . C. ----------- Success Verify ?             OK / NG____
```

```
0096     C.
0097     C. XRT Obs. Table Upload
0098   . S. RAM   ram-291:MDP_OBS_X
0099     ()
0100     C.
0101  +. DC 07-F0 MDP_DUMP_XRTTBL
0102     BC       (84 07 00 00 00 3a d4)
0103   . C. ------------ Comparison Check ?                        OK / ERR ____
0104     C.
0105     C.
0106  +. DC 07-F0 MDP_XRT_ROI_SET
0107     BC       (cd 01 b1 b1 04 04)
0108  +  DC 07-F0 MDP_XRT_ROI_SET
0109     BC       (cd 02 b1 b1 08 08)
0110  +  DC 07-F0 MDP_XRT_ROI_SET
0111     BC       (cd 03 b1 b1 08 08)
0112  +  DC 07-F0 MDP_XRT_ROI_SET
0113     BC       (cd 04 b1 b1 06 06)
0114  +  DC 07-F0 MDP_XRT_ROI_SET
0115     BC       (cd 06 80 80 04 04)
0116  +  DC 07-F0 MDP_XRT_ROI_SET
0117     BC       (cd 07 80 80 20 20)
0118  +  DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 08 80 80 06 06)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 09 80 80 08 08)
0122  +  DC 07-F0 MDP_XRT_ROI_SET
0123     BC       (cd 0f 80 80 04 04)
0124  +  DC 07-F0 MDP_XRT_ROI_SET
0125     BC       (cd 10 80 80 10 10)
0126   . C. ---------- Success Verify ?            OK / NG ____
0127     C.
0128     C.
0129   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0130     C.
0131  +. DC 07-F0 MDP_XRT_MODE_OBSV
0132     BC       (c2)
0133  +. TI 2009-01-06 10:01:02.0
0134     DC 07-F0 MDP_XRT_MODE_OBSV
0135     BC       (c2)
0136   . C. ---------- Success Verify ?            OK / NG ____
0137     C.
0138     C. ************ XRT END ***********
0139     C.
0140   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0141     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0142   . S. DC-BC dcbc-402:DCBC
0143     (MDP_known_event)
0144     C.
0145     C.
0146   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0147   . S. DC-BC dcbc-153:DCBC
0148     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0149     C.
0150     C.
0151   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0152     C.
0153   . C. *********** LOS ***********
0154     C.
```

```
*** OP Sequence for XRT ***

2009/01/06  10:12:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM               5 02-76 00 d6 36 b7 65
2009/01/06  10:14:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/06  10:14:02.0  XRT_FOCUS_POSITION_436_OG [0x1b4]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/06  10:14:22.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0c
2009/01/06  10:14:24.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/06  10:14:26.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/06  10:14:28.0  XRT_FLRCTRL_DIS_416_OG [0x1a0]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/06  10:14:30.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/06  15:00:30.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/06  17:51:24.0  XRT_CTRL_MANU_429_OG [0x1ad]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/06  17:51:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM               5 02-76 00 00 00 00 00
2009/01/06  17:54:02.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/06  17:54:22.0  XRT_QT_PROG_SET_408_OG [0x198]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 07
2009/01/06  17:54:24.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/06  17:54:26.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/06  17:54:28.0  XRT_ARS_DIS_417_OG [0x1a1]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/06  17:54:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/06  18:01:30.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM               5 02-76 00 d6 36 b7 65
2009/01/06  18:03:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/06  18:03:02.0  XRT_FOCUS_POSITION_436_OG [0x1b4]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/06  18:03:22.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0c
2009/01/06  18:03:24.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/06  18:03:26.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/06  18:03:28.0  XRT_FLRCTRL_DIS_416_OG [0x1a0]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/06  18:03:30.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/07  02:35:30.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/07  05:59:54.0  XRT_CTRL_MANU_429_OG [0x1ad]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/07  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM               5 02-76 00 00 00 00 00
2009/01/07  06:02:32.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/07  06:02:52.0  XRT_QT_PROG_SET_408_OG [0x198]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 07
2009/01/07  06:02:54.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/07  06:02:56.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/07  06:02:58.0  XRT_ARS_DIS_417_OG [0x1a1]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/07  06:03:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/07  06:10:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM               5 02-76 03 00 00 00 00
2009/01/07  07:12:00.0  XRT_CTRL_MANU_429_OG [0x1ad]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/07  07:14:38.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/07  07:14:58.0  XRT_QT_PROG_SET_405_OG [0x195]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0d
2009/01/07  07:15:00.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/07  07:15:02.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/07  07:15:04.0  XRT_ARS_DIS_417_OG [0x1a1]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/07  07:15:06.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/07  09:29:24.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/07  09:30:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM               5 02-76 00 d6 36 b7 65
2009/01/07  17:55:24.0  XRT_CTRL_MANU_429_OG [0x1ad]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/07  17:55:30.0  AOCS_ORe-point_Start_2_OG [0x098]
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                                    AOCU_NM               5 02-76 00 00 00 00 00
2009/01/07  17:58:02.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/07  17:58:22.0  XRT_QT_PROG_SET_408_OG [0x198]
                                    MDP_XRT_QT_PROG_SET   2 07-F0 c4 07
2009/01/07  17:58:24.0  XRT_FLD_DIS_419_OG [0x1a3]
                                    MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/07  17:58:26.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/07  17:58:28.0  XRT_ARS_DIS_417_OG [0x1a1]
                                    MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/07  17:58:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/07  18:05:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM               5 02-76 03 00 00 00 00
2009/01/08  06:28:24.0  XRT_CTRL_MANU_429_OG [0x1ad]
                                    MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/01/08  06:28:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM               5 02-76 00 00 00 00 00
2009/01/08  06:31:02.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/01/08  06:31:22.0  XRT_QT_PROG_SET_408_OG [0x198]
                                    MDP_XRT_QT_PROG_SET   2 07-F0 c4 07
2009/01/08  06:31:24.0  XRT_FLD_DIS_419_OG [0x1a3]
                                    MDP_XRT_FLD_DIS       1 07-F0 d9
2009/01/08  06:31:26.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/01/08  06:31:28.0  XRT_ARS_DIS_417_OG [0x1a1]
                                    MDP_XRT_ARS_DIS       1 07-F0 d5
2009/01/08  06:31:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/01/08  06:38:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM               5 02-76 03 00 00 00 00
2009/01/08  11:25:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM               5 02-76 00 00 00 00 00
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