

# XRT Timeline to be uploaded on 2008/12/07

Period: 2008/12/07 11:00:00 - 2008/12/11 10:13:00

\* \* \* \* \*

Normal mode

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| XOB #1615: Al/poly (AEC4) + Ti/poly (AEC4) + Thin-Be (AEC4) - 2-min cadence - FOV384 - Q95             |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
|--|-----------------|----------------|------------------|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y) |                | Comment          |                                  |  |  |  |  |  |  |  |  |  |  |
| 12/07 11:12:02 - 12/07 17:36:00  | Track (         | -332.4, 550.8) | @ 12/07 11:10:00 | # OP start + 10min & CH activity |  |  |  |  |  |  |  |  |  |  |
| 12/07 18:12:00 - 12/08 04:33:30  | Track (         | -285.0, 551.4) | @ 12/07 18:10:00 | CH activity                      |  |  |  |  |  |  |  |  |  |  |
| 12/08 18:01:32 - 12/09 05:59:54  | Track (         | -116.2, 553.3) | @ 12/08 17:59:30 | CH activity                      |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 02 1-time(s)</b>  |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 120.0sec  |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 42 3-time(s) 120.0sec   |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Al-poly/Open C-poly/Open close Safe Norm 8.00s Obs 1x1 384x384 (1024, 1024) Q=95 4 0 2.0sec         |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Ti-poly Open/thick-Al close Safe Norm 8.00s Obs 1x1 384x384 (1024, 1024) Q=95 4 0 2.0sec       |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 2 1-time(s) 8.0sec  |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 99 2-time(s) 4.0sec   |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ thin-Be/Open thin-Be/Open close Safe Norm 22.6s Obs 1x1 384x384 (1024, 1024) Q=95 4 0 2.0sec        |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 82 1-time(s) 4.0sec   |                 |                |                  |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ thin-Be/Open thin-Be/Open close Safe Dark 22.6s Obs 1x1 384x384 (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 #15D6: Synoptic Q95 2x2 - Al/poly(362/5795) + Dark cal(512 Q98) + Ti-poly(512/11571) + G-band(16)  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
|--|-----------------|-----------|---------|-----------------------------|--|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y) |           | Comment |                             |  |  |  |  |  |  |  |  |  |  |
| 12/07 18:03:00 - 12/07 18:05:00  | Fixed (         | 0.0, 0.0) |         | synoptic                    |  |  |  |  |  |  |  |  |  |  |
| 12/08 17:51:30 - 12/08 17:59:24  | Fixed (         | 0.0, 0.0) |         | synoptic, shifted -10.5 min |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 16 1-time(s)</b>  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 12.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 74 1-time(s) 4.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Al-poly/Open Al-poly/Open close Safe Norm 354ms 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= 57 1-time(s) 2.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Dark 354ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec      |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 4 1-time(s) 4.0sec  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Ti-poly Open/thick-Al close Safe Norm 500ms 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 #15FE: Full Sun - multi-filter snapshots   |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
|--|-----------------|-----------|---------|----------|--|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y) |           | Comment |          |  |  |  |  |  |  |  |  |  |  |
| 12/07 18:05:10 - 12/07 18:09:54  | Fixed (         | 0.0, 0.0) |         | synoptic |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 20 1-time(s)</b>  |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 30.0sec   |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 51 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 125ms Obs 8x8 2048x2048 (1024, 1024) DPCM 0 0 2.0sec          |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 250ms Obs 8x8 2048x2048 (1024, 1024) DPCM 0 0 2.0sec |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ thin-Be/Open thin-Be/Open close Safe Norm 500ms Obs 8x8 2048x2048 (1024, 1024) DPCM 0 0 2.0sec        |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 2 1-time(s) 2.0sec  |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 81 2-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          |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ med-Be/Open med-Be/Open close Safe Norm 11.3s Obs 8x8 2048x2048 (1024, 1024) DPCM 0 0 2.0sec          |                 |           |         |          |  |  |  |  |  |  |  |  |  |  |
| └─ med-Be/Open med-Al/Open close Safe Dark 32.0s 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 #15D7: Synoptic Q95 2x2 - Al/mesh(362/5795) + Dark cal(362 Q98) + Ti-poly(512/11571) + G-band(16)  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
|--|-----------------|-----------|---------|-----------------------------|--|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y) |           | Comment |                             |  |  |  |  |  |  |  |  |  |  |
| 12/08 05:48:30 - 12/08 09:58:54  | Fixed (         | 0.0, 0.0) |         | synoptic, shifted -13.5 min |  |  |  |  |  |  |  |  |  |  |
| 12/09 06:02:00 - 12/09 06:09:54  | Fixed (         | 0.0, 0.0) |         | synoptic                    |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 04 1-time(s)</b>  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 12.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 29 1-time(s) 4.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Al-mesh Open/Ti-poly close Safe Norm 354ms 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= 57 1-time(s) 2.0sec   |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Dark 354ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec      |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Seqn= 4 1-time(s) 4.0sec  |                 |           |         |                             |  |  |  |  |  |  |  |  |  |  |
| └─ Open/Ti-poly Open/thick-Al close Safe Norm 500ms 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 #1619: Al/poly (AEC4) + Ti/poly (AEC4) + Thin-Be (AEC4) - 3-min cadence - FOV512 - Q95**

| Term                            | Pointing (x, y)                         | Comment  |
|---------------------------------|---|--|
| 12/08 10:01:02 - 12/08 16:36:00 | Track ( -202.8, 552.3) @ 12/08 05:56:30 | CH activity  |
| <b>PROG= 03 Inf.-time(s)</b>    |   |  |
| Subr= 1                         | 1-time(s) 180.0sec                      |  |
| Seqn= 63                        | 3-time(s) 180.0sec                      |  |
| Al-poly/Open                    | C-poly/Open close                       | Safe Norm 8.00s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec             |
| Open/Ti-poly                    | Open/thick-Al close                     | Safe Norm 8.00s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec             |
| Subr= 2                         | 1-time(s) 8.0sec                        |  |
| Seqn= 93                        | 2-time(s) 4.0sec                        |  |
| thin-Be/Open                    | thin-Be/Open close                      | Safe Norm 22.6s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec             |
| Seqn= 10                        | 1-time(s) 4.0sec                        |  |
| thin-Be/Open                    | thin-Be/Open close                      | Safe Dark 22.6s Obs 1x1 512x512 (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 #1618: Event Histogram - med-Be (512ms) - dark (512ms) - 128FOV - offset (1048, 1024)**

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 12/09 06:12:00 - 12/09 06:52:30 | Track ( -27.3, 554.3) @ 12/09 06:10:00 | CH activity  |
| <b>PROG= 19 Inf.-time(s)</b>    |  |  |
| Subr= 1                         | 1-time(s) 2.0sec                       |  |
| Seqn= 47                        | 1-time(s) 2.0sec                       |  |
| med-Be/Open                     | med-Be/Open close                      | Safe Dark 500ms Obs 1x1 128x128 (1048, 1024) DPCM 0 0 2.0sec             |
| Seqn= 97                        | 3-time(s) 10.0sec                      |  |
| med-Be/Open                     | med-Be/Open close                      | Safe Norm 500ms Obs 1x1 128x128 (1048, 1024) DPCM 0 0 2.0sec             |
| Default Filter                  | Thicker Filter                         | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

NOT USED

\* \* \* \* \*

**Active Region Search**

\* \* \* \* \*

NOT USED

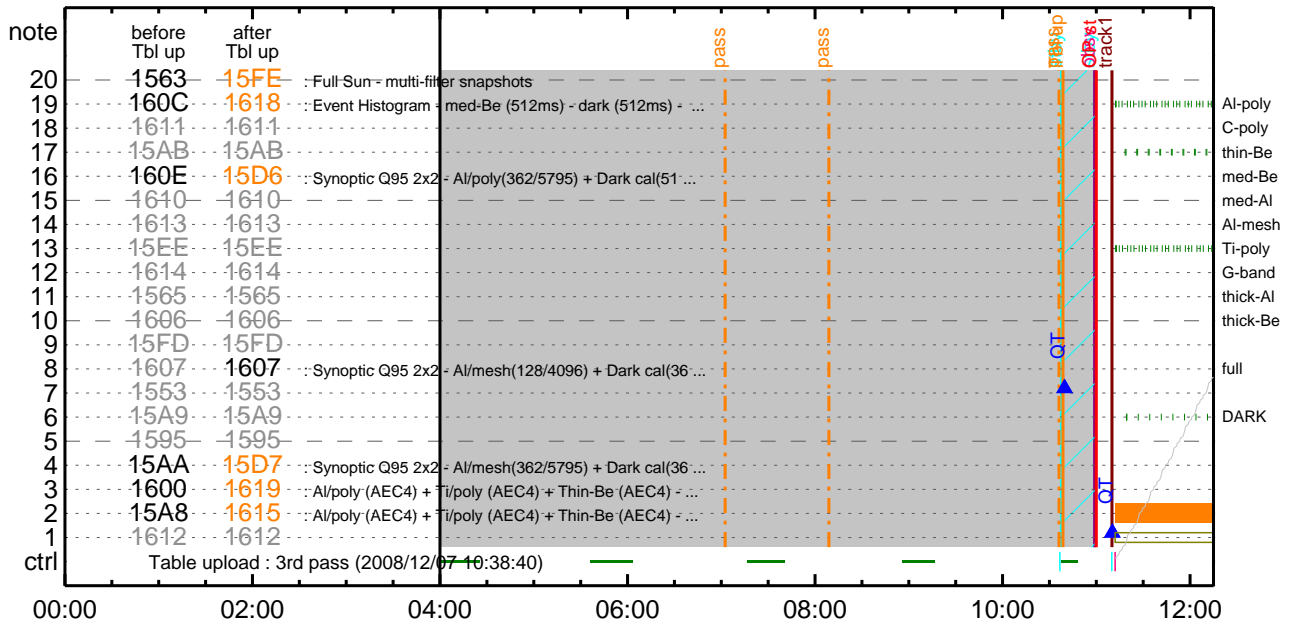
\* \* \* \* \*

**Flare Detection**

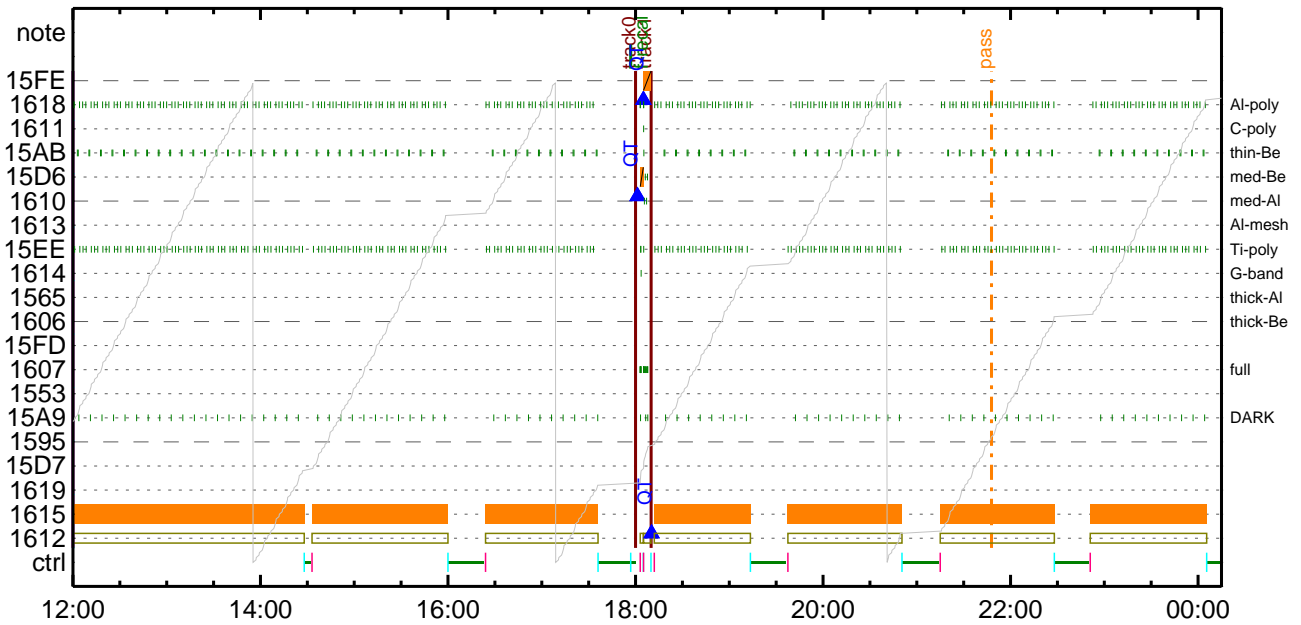
\* \* \* \* \*

NOT USED

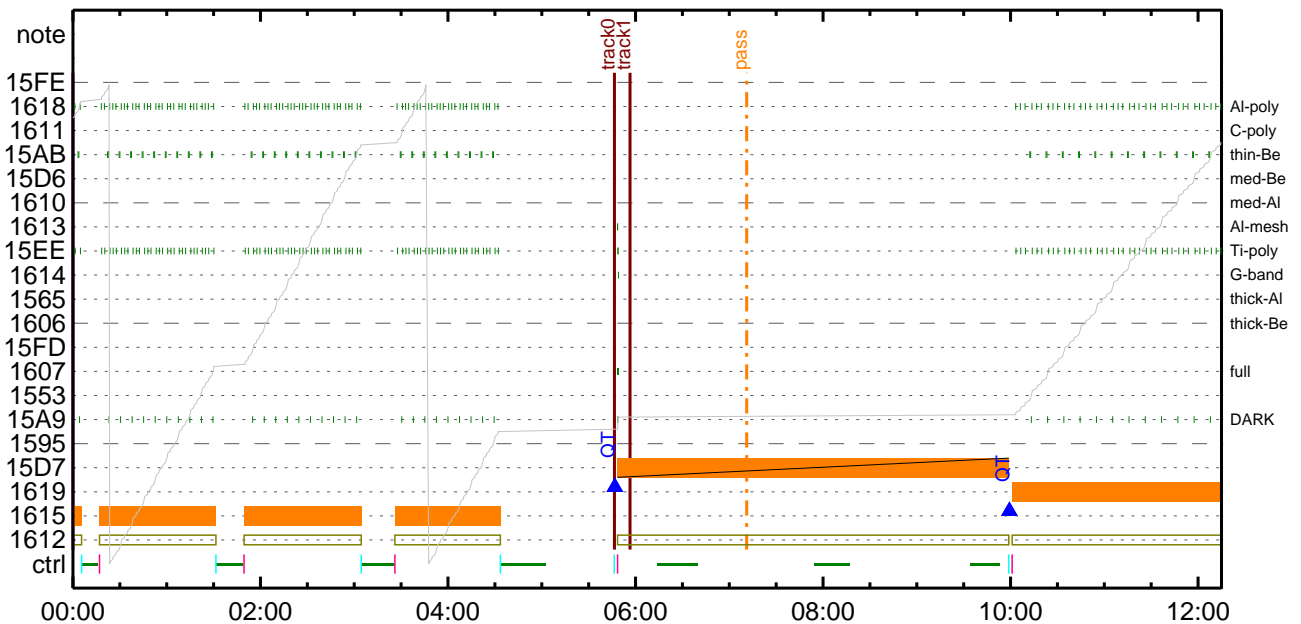
### CMDI #0288 2008/12/07



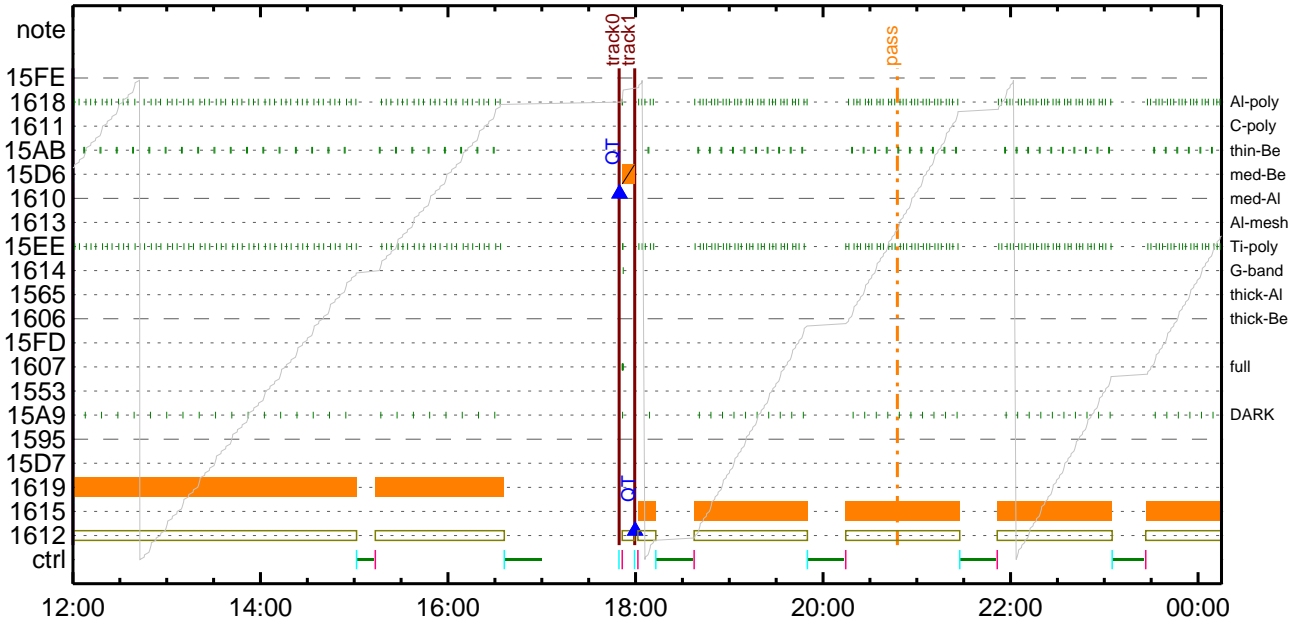
### CMDI #0288 2008/12/07



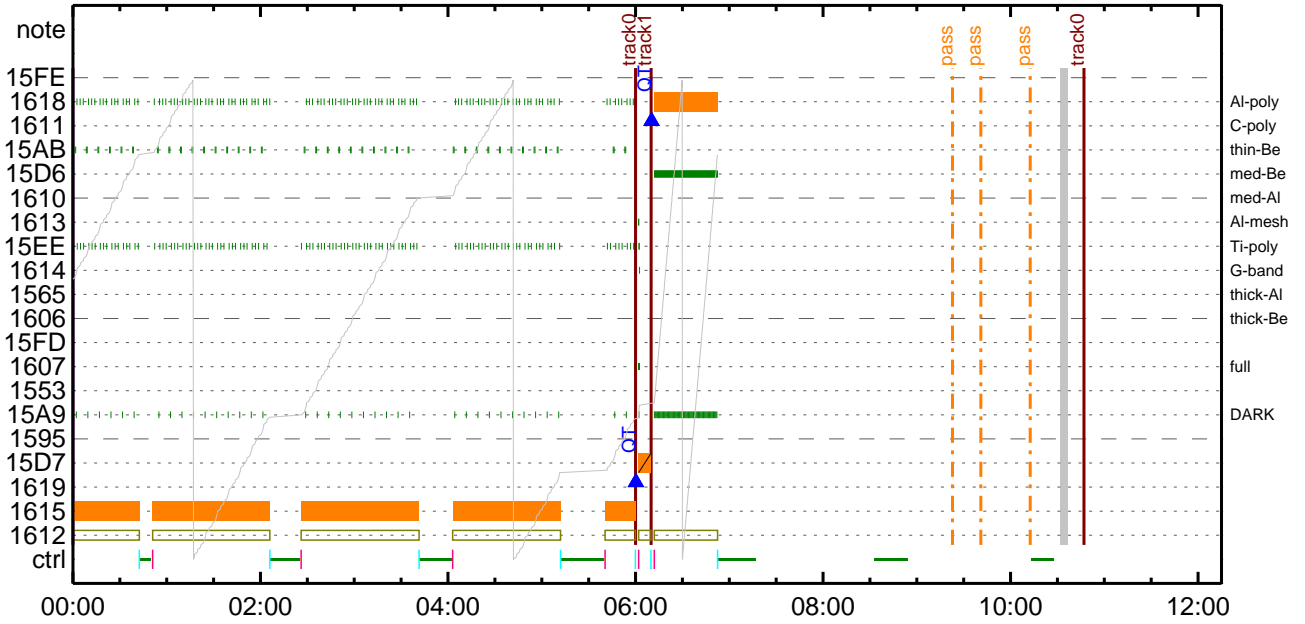
### CMDI #0288 2008/12/08



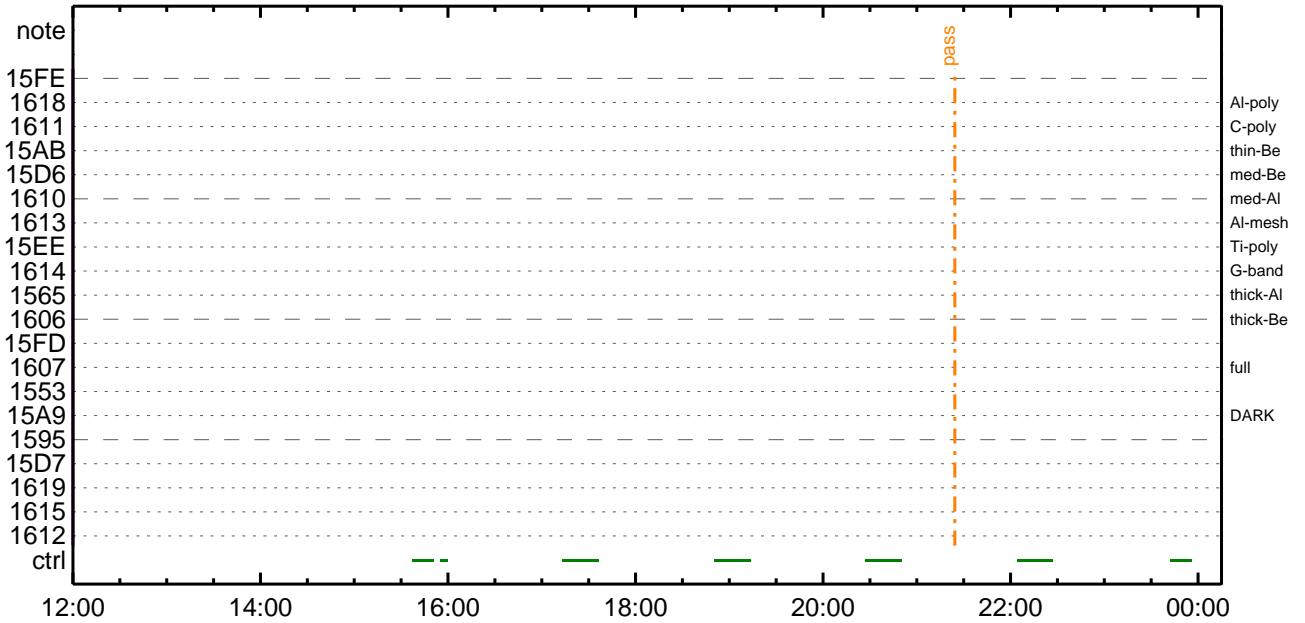
CMDI #0288 2008/12/08



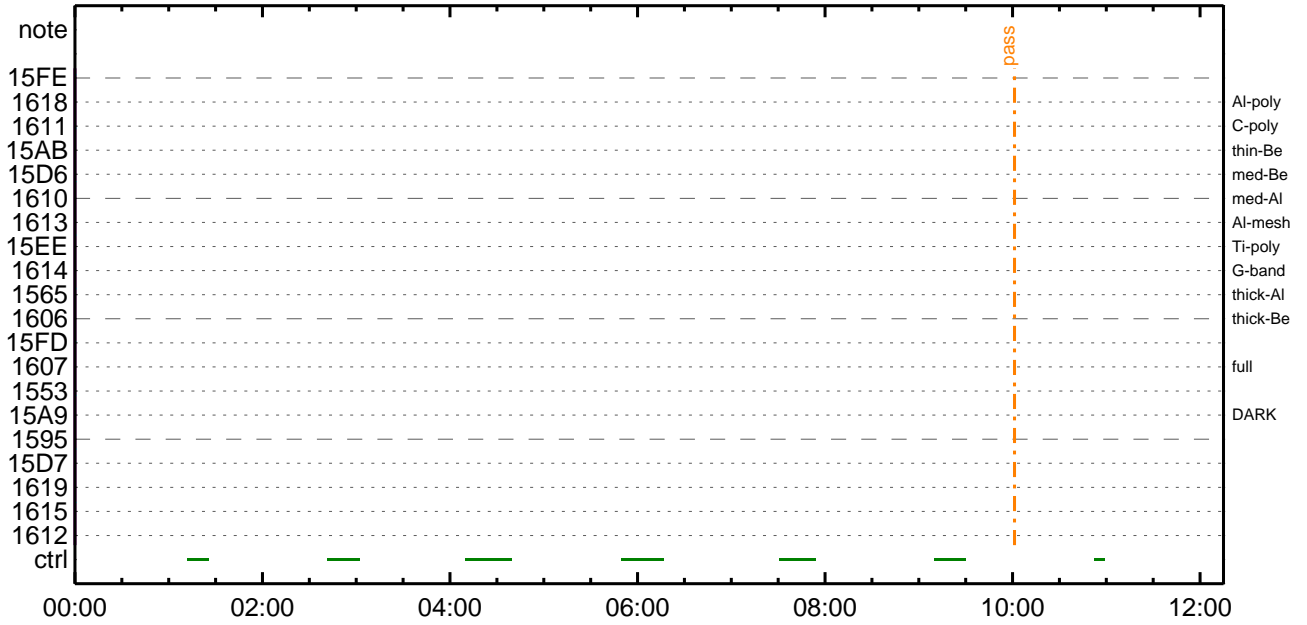
CMDI #0288 2008/12/09



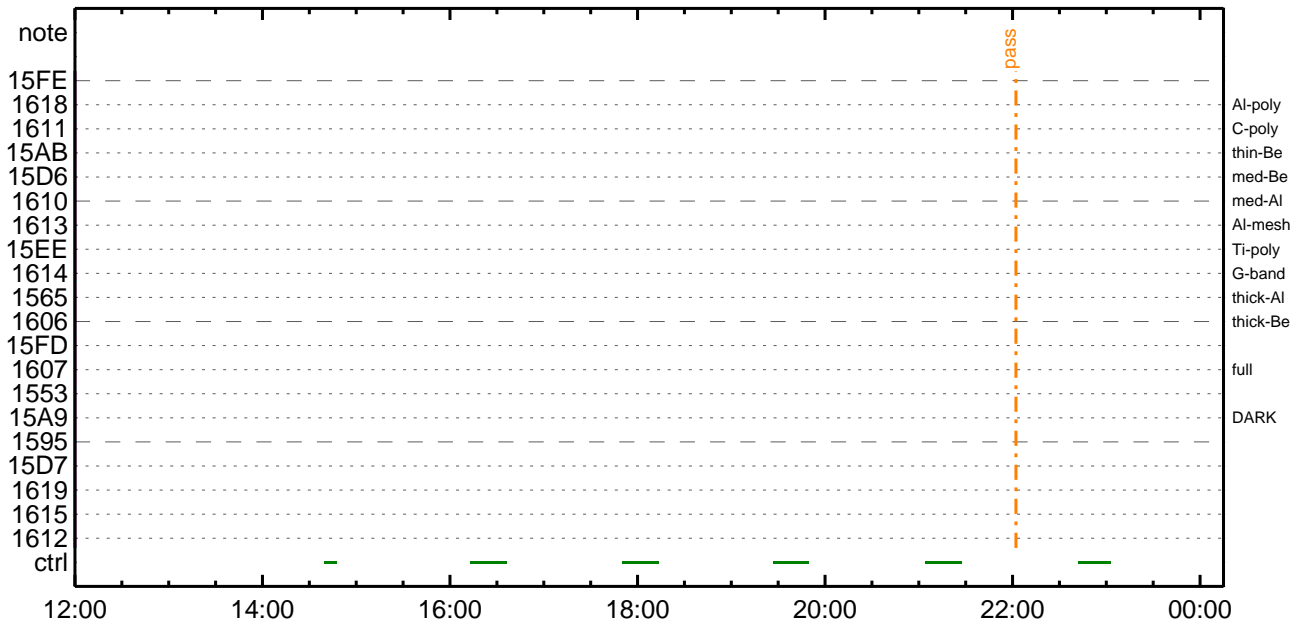
CMDI #0288 2008/12/09



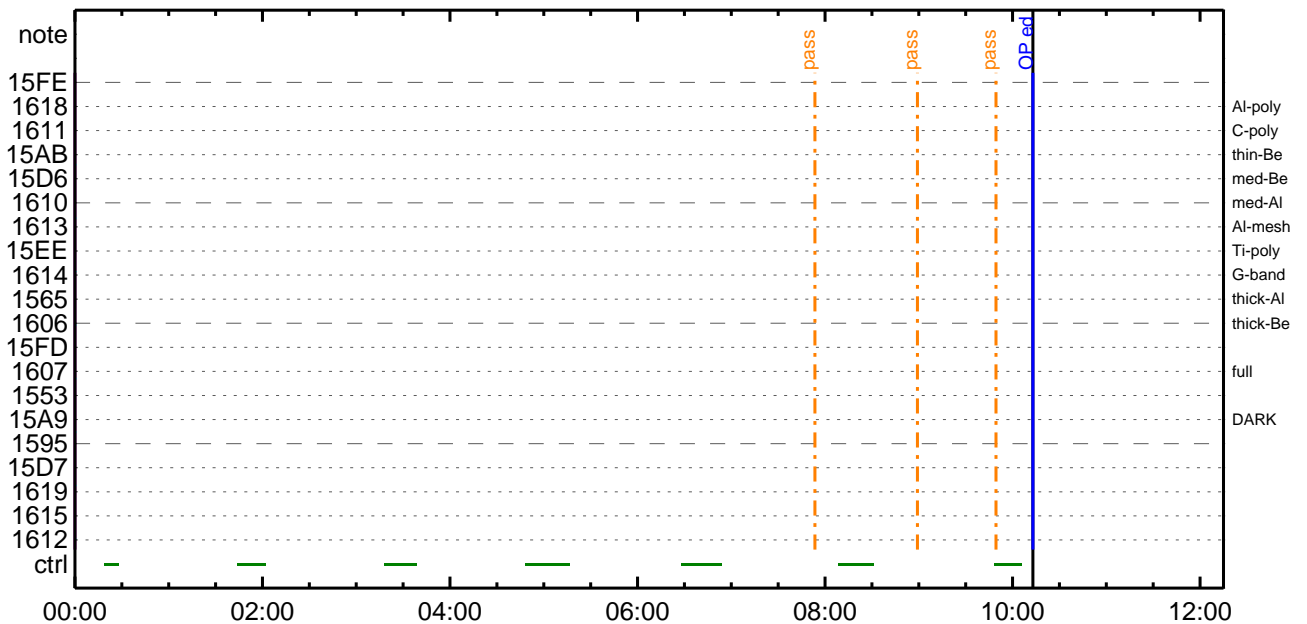
CMDI #0288 2008/12/10



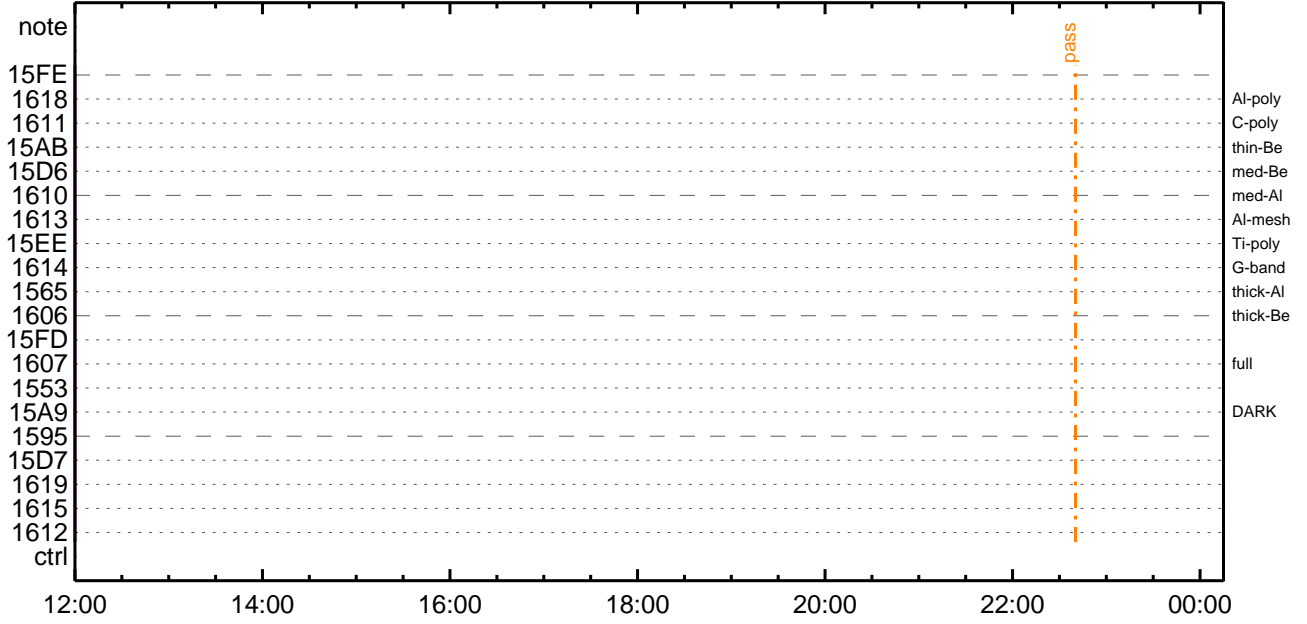
CMDI #0288 2008/12/10



CMDI #0288 2008/12/11



CMDI #0288 2008/12/11





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0096 C.          0300; SET EDUMP I±°iYÑY¹aÇ¹Ôa|a³aE; f
0097 C.
0098 . C. TIY³YBYÖYÉaðdÄDİ¿(UT)
0099 +. TI 2008-12-07 10:55:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.          çç[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0102 C.
0103 +. TI 2008-12-07 10:55:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.          çç[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0106 C.
0107 +. TI 2008-12-07 10:55:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.          çç[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0110 C.
0111 +. TI 2008-12-07 10:59:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.          çç[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0114 C.
0115 C.  °Ê²¼aİÄê%îİÑaİYÁY§YÁY-¹àìÛ
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. TIİİî°èYÄYÖY×
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. YÄYÖY×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. 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 2008-12-07 10:59:30.0
0161 DC 07-FC EIS_MODE_MANU
0162 BC          (21 02)
0163 +. TI 2008-12-07 10:59:40.0
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 2008-12-07 10:59:16.0
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 2008-12-07 10:59:00.0
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 ´ûÄİaİ»ö¼YõÈÄD¹aèDCBC•×²è *****
0192 C. (%â°İYÖYÄYÈYBÿYÁYÇYèaÈ%¼a¼Ä»Ûa¹aè)
0193 . S. DC-BC dcbc-402:DCBC

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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.
```



```
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 AOCS_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 AOCS_DUMP 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 AOCS_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_MANU
0131 BC (21 02)
0132 . C. Verify EIS in MANUAL mode
0133 . C. Estimated OBSTBL upload time is 14s
0134 C. *****
0135 C. EIS START OBSTBL LOAD
0136 C. *****
0137 . S. RAM ram-820:EIS_OBSTBL
0138 ( )
0139 +. DC 07-FC EIS_DUMP_OBSTBL
0140 BC (07 07 07 00 00 70 00)
0141 C.
0142 C. Execute, after the success of OBSTBL upload.
0143 C. Set EIS TI-commands
0144 +. TI 2008-12-07 10:59:50.0
0145 DC 07-FC EIS_MODE_CHG_ENA
0146 BC (20)
0147 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0148 C. *****
0149 C. EIS END OBSTBL LOAD
0150 C. *****
0151 C.
0152 . C. ***** MDP 'uÃiãî»ö¼ÝðËÄð¹ñèDCBC•x²è *****
0153 C. (%ã°îÝÓÝÄÝËÝÞÝËÝÄÝ¼Ýèñ¾¼ã¼Ä»Û¹ñè)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** ÝÐÝ¹•ï Daily±¿îÑñË´ø¹ñèDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOSÝÄÝ§ÝÄÝ¹¼Ä»Û;ã
0164 C.
0165 . C. ***** LOS *****
0166 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-284 2008-12-07 12:04:09 142 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;È□¿□□□•µ°È»Í×ÁÇ□íYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÉ;È□È¼°ÇÓ□•□¿¼í¹ç□í;çÀ®, ù□¹□è□□□□çÁ+¿®□•□È□□□□□È;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 80 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 20 20)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 83 80 02 02)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0f 80 80 04 04)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 10 80 80 10 10)
0052 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0053 BC (c4 08)
0054 + DC 07-F0 MDP_XRT_ARS_DIS
0055 BC (d5)
0056 + DC 07-F0 MDP_XRT_FLD_DIS
0057 BC (d9)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_DIS
0059 BC (c9)
0060 . C. ----- Success Verify ? OK / NG ____
0061 C.
0062 C.
0063 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0064 C.
0065 +. TI 2008-12-07 10:59:02.0
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-269: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. < Upload DPL table >
0093 C.
0094 C. YçYÁY×Yí;¼YÉ□íÁ°□ÈSTS_CHK□□□OFF□È□¹□è
0095 C.
```



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

|            |            |                                      |   |       |                |  |  |  |  |
|------------|------------|--------------------------------------|---|-------|----------------|--|--|--|--|
| 2008/12/07 | 11:09:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 11:09:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/12/07 | 11:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2008/12/07 | 11:10:16.0 | XRT_QT_PROG_SET_414_OG [0x19e]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2008/12/07 | 11:11:54.0 | XRT_AEC_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |  |  |  |  |
| 2008/12/07 | 11:11:56.0 | XRT_ARS_DIS_422_OG [0x1a6]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/07 | 11:11:58.0 | XRT_FLD_DIS_445_OG [0x1bd]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/07 | 11:12:00.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/07 | 11:12:02.0 | XRT_CTRL_AUTO_403_OG [0x193]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 14:28:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 14:32:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2008/12/07 | 14:33:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 16:00:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 16:23:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2008/12/07 | 16:24:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 17:36:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 17:56:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 17:56:56.0 | XRT_FOCUS_RECALIBRATE_418_OG [0x1a2] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |  |  |  |  |
| 2008/12/07 | 18:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2008/12/07 | 18:00:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2008/12/07 | 18:01:16.0 | XRT_QT_PROG_SET_404_OG [0x194]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2008/12/07 | 18:01:18.0 | XRT_FLD_DIS_419_OG [0x1a3]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/07 | 18:01:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/07 | 18:01:22.0 | XRT_ARS_DIS_427_OG [0x1ab]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/07 | 18:03:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 18:05:00.0 | XRT_CTRL_MANU_428_OG [0x1ac]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 18:05:02.0 | XRT_QT_PROG_SET_420_OG [0x1a4]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 14          |  |  |  |  |
| 2008/12/07 | 18:05:04.0 | XRT_FLD_DIS_419_OG [0x1a3]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/07 | 18:05:06.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/07 | 18:05:08.0 | XRT_ARS_DIS_417_OG [0x1a1]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/07 | 18:05:10.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 18:09:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 18:09:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/12/07 | 18:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2008/12/07 | 18:10:16.0 | XRT_QT_PROG_SET_414_OG [0x19e]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2008/12/07 | 18:11:54.0 | XRT_ARS_DIS_422_OG [0x1a6]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/07 | 18:11:56.0 | XRT_FLD_DIS_445_OG [0x1bd]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/07 | 18:11:58.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/07 | 18:12:00.0 | XRT_CTRL_AUTO_403_OG [0x193]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 19:13:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 19:36:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2008/12/07 | 19:37:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 20:50:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 21:14:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2008/12/07 | 21:15:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/07 | 22:28:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/07 | 22:50:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2008/12/07 | 22:51:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2008/12/08 | 00:05:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 00:16:00.5 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2008/12/08 | 00:17:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 01:31:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 01:48:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2008/12/08 | 01:49:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 03:04:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 03:25:00.5 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2008/12/08 | 03:26:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 04:33:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 05:46:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 05:46:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2008/12/08 | 05:46:30.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2008/12/08 | 05:46:46.0 | XRT_QT_PROG_SET_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2008/12/08 | 05:46:48.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/08 | 05:46:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/08 | 05:46:52.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/08 | 05:48:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 05:56:30.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2008/12/08 | 09:58:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 09:58:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/12/08 | 09:59:16.0 | XRT_QT_PROG_SET_443_OG [0x1bb]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2008/12/08 | 10:00:54.0 | XRT_AEC_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2008/12/08 | 10:00:56.0 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/08 | 10:00:58.0 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/08 | 10:01:00.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/08 | 10:01:02.0 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 15:01:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 15:12:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2008/12/08 | 15:13:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 16:36:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 17:49:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 17:49:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2008/12/08 | 17:49:30.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2008/12/08 | 17:49:46.0 | XRT_QT_PROG_SET_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2008/12/08 | 17:49:48.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/08 | 17:49:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/08 | 17:49:52.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/08 | 17:51:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 17:59:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/12/08 | 17:59:26.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/12/08 | 17:59:30.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2008/12/08 | 17:59:46.0 | XRT_QT_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2008/12/08 | 18:01:24.0 | XRT_AEC_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2008/12/08 | 18:01:26.0 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/12/08 | 18:01:28.0 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/12/08 | 18:01:30.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/12/08 | 18:01:32.0 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/12/08 | 18:13:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2008/12/08 | 18:36:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/08 | 18:37:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/08 | 19:50:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/08 | 20:13:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/08 | 20:14:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/08 | 21:27:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/08 | 21:50:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/08 | 21:51:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/08 | 23:05:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/08 | 23:25:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/08 | 23:26:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 00:42:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 00:50:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 00:51:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 02:06:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 02:25:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 02:26:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 03:41:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 04:02:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 04:03:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 05:12:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 05:39:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 05:40:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 05:59:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 05:59:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 06:00:00.0 | XRT_FOCUS_POSITION                | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2008/12/09 | 06:00:00.0 | AOCS_Or-point_Start_2_OG [0x098]  | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2008/12/09 | 06:00:16.0 | XRT_QT_PROG_SET_413_OG [0x19d]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |
| 2008/12/09 | 06:00:18.0 | XRT_FLD_DIS_419_OG [0x1a3]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2008/12/09 | 06:00:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2008/12/09 | 06:00:22.0 | XRT_ARS_DIS_427_OG [0x1ab]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2008/12/09 | 06:02:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 06:09:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 06:09:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2008/12/09 | 06:10:00.0 | AOCS_Or-point_Start_1_OG [0x097]  | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |
| 2008/12/09 | 06:10:16.0 | XRT_QT_PROG_SET_406_OG [0x196]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13          |
| 2008/12/09 | 06:11:54.0 | XRT_ARS_DIS_422_OG [0x1a6]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2008/12/09 | 06:11:56.0 | XRT_FLD_DIS_445_OG [0x1bd]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2008/12/09 | 06:11:58.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2008/12/09 | 06:12:00.0 | XRT_CTRL_AUTO_403_OG [0x193]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2008/12/09 | 06:52:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2008/12/09 | 10:47:00.0 | AOCS_Or-point_Start_2_OG [0x098]  | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |