

# XRT Timeline to be uploaded on 2015/02/26

Period: 2015/02/26 10:10:00 - 2015/03/03 09:20:00

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## Normal mode

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### XOB #1A02: AR standard-B (thin-Be) with PFB (384FOV), 512x512 at 1064 1048, thick Al and Al/Poly context, With G-band (33ms/45ms leak), 5min cad

| Term                            | Pointing (x, y)                        | Comment                                |
|---------------------------------|--|--|
| 02/26 10:23:00 - 02/26 15:10:30 | Track ( 390.4, -37.2) @ 02/26 10:20:00 | # OP start + 10min, AR 12289 tracking. |
| 02/26 18:13:00 - 02/27 00:45:30 | Track ( 455.6, -41.1) @ 02/26 18:10:00 | # AR cont.                             |
| 02/27 06:13:00 - 02/27 10:24:00 | Track ( 550.3, -48.2) @ 02/27 06:10:00 | # AR cont.                             |
| 02/27 18:14:00 - 02/28 02:49:00 | Track ( 637.6, -56.7) @ 02/27 18:11:00 | # AR cont.                             |
| 02/28 05:44:30 - 02/28 07:39:00 | Track ( 713.0, -66.0) @ 02/28 05:41:30 | # AR cont.                             |

**PROG= 12 Inf.-time(s)**

| Subr= 1       | 1-time(s)     | 2.0sec   |      |      |       |     |     |                      |      |   |   |         |
|---------------|---------------|----------|------|------|-------|-----|-----|----------------------|------|---|---|---------|
| Seqn= 20      | 2-time(s)     | 2.0sec   |      |      |       |     |     |                      |      |   |   |         |
| Open/G-band   | Open/G-band   | close    | Safe | Norm | 44ms  | Obs | 1x1 | 512x512 (1064, 1048) | DPCM | 0 | 0 | 2.0sec  |
| Seqn= 75      | 1-time(s)     | 2.0sec   |      |      |       |     |     |                      |      |   |   |         |
| Open/Ti-poly  | Open/thick-Al | close    | Safe | Dark | 16.0s | Obs | 1x1 | 512x512 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec  |
| Open/G-band   | Open/G-band   | open     | Safe | Norm | 32ms  | Obs | 1x1 | 512x512 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec  |
| Subr= 2       | 2-time(s)     | 2.0sec   |      |      |       |     |     |                      |      |   |   |         |
| Seqn= 66      | 2-time(s)     | 2.0sec   |      |      |       |     |     |                      |      |   |   |         |
| Al-poly/Open  | thin-Be/Open  | close    | Safe | Norm | 500ms | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec  |
| Open/thick-Al | Open/thick-Al | close    | Safe | Norm | 16.0s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec  |
| Seqn= 85      | 7-time(s)     | 300.0sec |      |      |       |     |     |                      |      |   |   |         |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 0 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 17.0sec |
| thin-Be/Open  | med-Be/Open   | close    | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 3 | 17.0sec |

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

### XOB #1A62: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Ti-poly(16/362/2048) + Thi

| Term                            | Pointing (x, y)   | Comment                     |
|---------------------------------|-------------------|-----------------------------|
| 02/26 18:03:00 - 02/26 18:09:54 | Fixed ( 0.0, 0.0) | synoptic                    |
| 02/27 06:03:00 - 02/27 06:09:54 | Fixed ( 0.0, 0.0) | synoptic                    |
| 02/27 18:04:00 - 02/27 18:10:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 1.0 min   |
| 02/28 05:34:30 - 02/28 05:41:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -28.5 min |

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

| Subr= 1      | 1-time(s)     | 12.0sec |      |      |       |     |     |                        |      |   |   |        |
|--------------|---------------|---------|------|------|-------|-----|-----|------------------------|------|---|---|--------|
| Seqn= 33     | 1-time(s)     | 4.0sec  |      |      |       |     |     |                        |      |   |   |        |
| Open/Al-mesh | Open/Al-mesh  | close   | Safe | Norm | 8ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh  | close   | Safe | Norm | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh  | close   | Safe | Norm | 1.00s | 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= 40     | 1-time(s)     | 4.0sec  |      |      |       |     |     |                        |      |   |   |        |
| Open/Ti-poly | Open/Ti-poly  | close   | Safe | Norm | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/Ti-poly  | close   | Safe | Norm | 354ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/Ti-poly  | close   | Safe | Norm | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 77     | 1-time(s)     | 2.0sec  |      |      |       |     |     |                        |      |   |   |        |
| thin-Be/Open | thin-Be/Open  | close   | Safe | Norm | 86ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open  | close   | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open  | close   | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 6      | 1-time(s)     | 2.0sec  |      |      |       |     |     |                        |      |   |   |        |
| Open/G-band  | Open/G-band   | open    | Safe | Norm | 8ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band  | Open/G-band   | close   | Safe | Norm | 32ms  | Obs | 1x1 | 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 #19FD: AR standard-B (thin-Be) with PFB, 384 FOV at 1064x1048, thin-Be, thick-Al, and Al/Poly context, With G-band (33ms/45ms leak), 10s cad, low

| Term                            | Pointing (x, y)                        | Comment                             |
|---------------------------------|--|-------------------------------------|
| 02/27 00:59:30 - 02/27 02:14:00 | Track ( 542.0, -40.1) @ 02/27 00:50:00 | # AR cont. (IHOP 247 01:00-02:15UT) |

**PROG= 04 Inf.-time(s)**

| Subr= 1      | 1-time(s)     | 2.0sec |      |      |       |     |     |                      |      |   |   |        |
|--------------|---------------|--------|------|------|-------|-----|-----|----------------------|------|---|---|--------|
| Seqn= 8      | 2-time(s)     | 2.0sec |      |      |       |     |     |                      |      |   |   |        |
| Open/G-band  | Open/G-band   | close  | Safe | Norm | 44ms  | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Subr= 2      | 2-time(s)     | 2.0sec |      |      |       |     |     |                      |      |   |   |        |
| Seqn= 24     | 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 | 32ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 42     | 2-time(s)     | 2.0sec |      |      |       |     |     |                      |      |   |   |        |
| Al-poly/Open | thin-Be/Open  | close  | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |

|                                   |                |       |      |       |       |     |     |                      |       |            |          |         |
|-----------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| thin-Be/Open                      | med-Be/Open    | close | Safe | Norm  | 5.66s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Open/thick-Al                     | Open/thick-Al  | close | Safe | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| <b>Seqn= 63 75-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |         |
| thin-Be/Open                      | med-Be/Open    | close | Safe | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 10.0sec |
| Default Filter                    | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

**XOB #1A1B: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 60s cadence, G-band - 384x384 33ms**

| Term                              | Pointing (x, y)        | Comment  |
|-----------------------------------|------------------------|--|
| 02/27 12:03:00 - 02/27 17:00:00   | Fixed ( -18.0, -940.0) | # HOP 206 (Polar Panorama Map)   |
| <b>PROG= 13 Inf.-time(s)</b>      |                        |  |
| <b>Subr= 1 1-time(s) 2.0sec</b>   |                        |  |
| <b>Seqn= 8 2-time(s) 2.0sec</b>   |                        |  |
| Open/G-band                       | Open/G-band close      | Safe Norm 44ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec              |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |                        |  |
| <b>Seqn= 48 1-time(s) 30.0sec</b> |                        |  |
| Open/G-band                       | Open/G-band open       | Safe Norm 32ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec              |
| <b>Subr= 3 30-time(s) 2.0sec</b>  |                        |  |
| <b>Seqn= 57 1-time(s) 60.0sec</b> |                        |  |
| Open/Al-mesh                      | Open/Al-mesh close     | Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec             |
| Al-poly/Open                      | Al-poly/Open close     | Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec             |
| Default Filter                    | Thicker Filter         | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

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**Flare mode**

\* \* \* \* \*

**XOB #1A61: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512**

| Term                              | Pointing (x, y)                        | Comment  |
|-----------------------------------|--|--|
| 02/26 10:23:00 - 02/26 15:10:30   | Track ( 390.4, -37.2) @ 02/26 10:20:00 | # OP start + 10min, AR 12289 tracking.                                   |
| 02/26 18:13:00 - 02/27 00:45:30   | Track ( 455.6, -41.1) @ 02/26 18:10:00 | # AR cont.   |
| 02/27 00:59:30 - 02/27 02:14:00   | Track ( 542.0, -40.1) @ 02/27 00:50:00 | # AR cont. (IHOP 247 01:00-02:15UT)                                      |
| 02/27 06:13:00 - 02/27 10:24:00   | Track ( 550.3, -48.2) @ 02/27 06:10:00 | # AR cont.   |
| 02/27 12:03:00 - 02/27 17:00:00   | Fixed ( -18.0, -940.0)                 | # HOP 206 (Polar Panorama Map)   |
| 02/27 18:14:00 - 02/28 02:49:00   | Track ( 637.6, -56.7) @ 02/27 18:11:00 | # AR cont.   |
| 02/28 05:44:30 - 02/28 07:39:00   | Track ( 713.0, -66.0) @ 02/28 05:41:30 | # AR cont.   |
| <b>PROG= 19 30-time(s)</b>        |  |  |
| <b>Subr= 1 20-time(s) 2.0sec</b>  |  |  |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |  |  |
| Al-poly/Open                      | Al-poly/thick-Al close                 | Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec             |
| <b>Seqn=100 1-time(s) 10.0sec</b> |  |  |
| thin-Be/Open                      | med-Be/Open close                      | Safe Norm 125ms Obs 1x1 384x384 (1024, 1024) Q=95 2 0 2.0sec             |
| med-Be/Open                       | Open/thick-Al close                    | Safe Norm 250ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec             |
| Open/thick-Al                     | Open/thick-Be close                    | Safe Norm 1.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec             |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |  |  |
| <b>Seqn= 10 1-time(s) 2.0sec</b>  |  |  |
| 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             |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |  |  |
| Al-poly/Open                      | Al-poly/thick-Al close                 | Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec             |
| <b>Seqn= 15 1-time(s) 2.0sec</b>  |  |  |
| Open/G-band                       | Open/G-band open                       | Safe Norm 44ms 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             |
| 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

\* \* \* \* \*

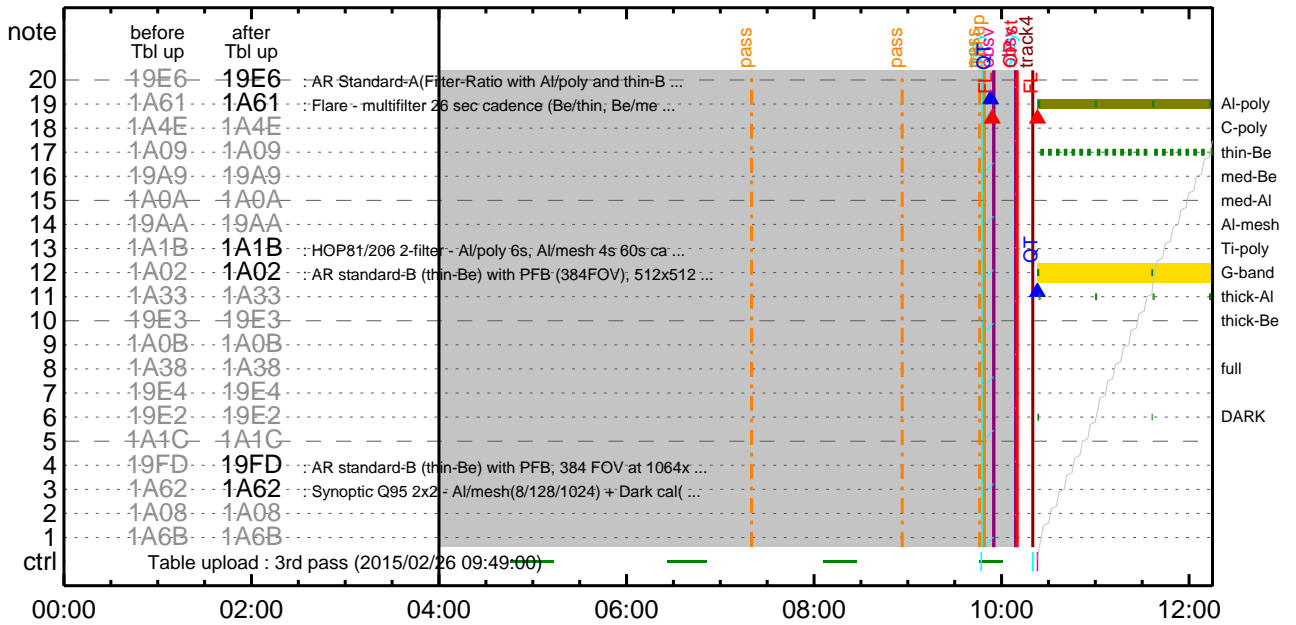
**Flare Detection**

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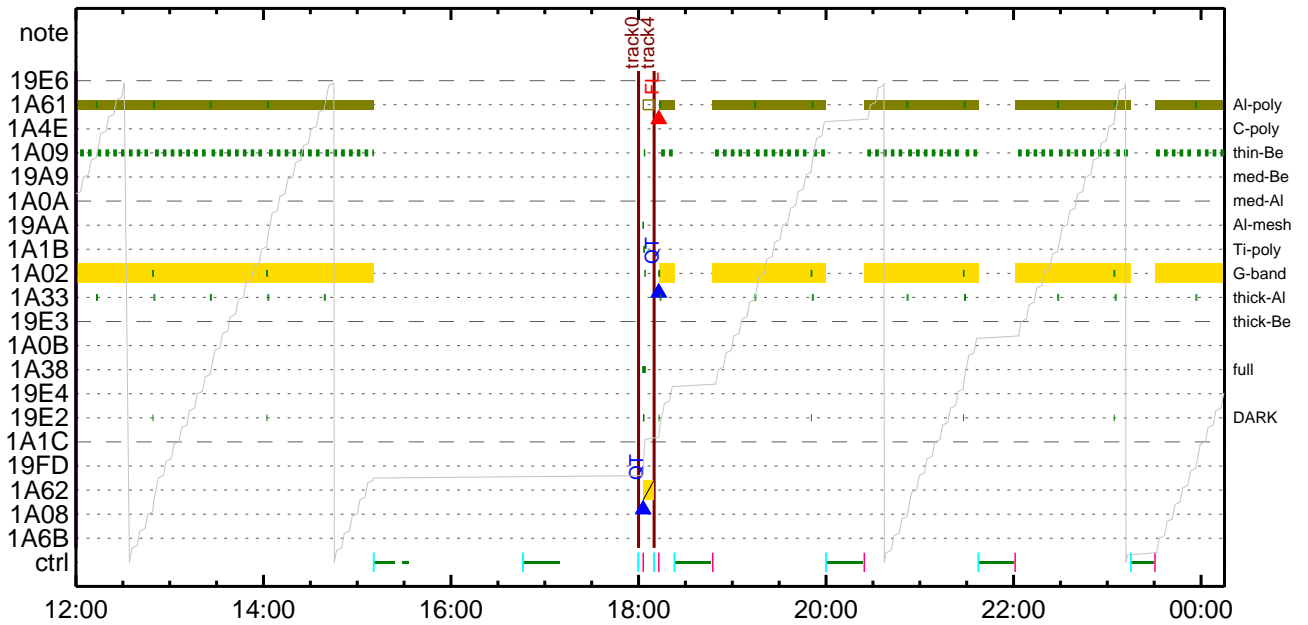
**FLD Patrol**

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 02/26 18:10:18 - 02/27 06:00:18 | Track ( 455.6, -41.1) @ 02/26 18:10:00 | # AR cont.   |
| 02/27 06:10:18 - 02/27 18:01:18 | Track ( 550.3, -48.2) @ 02/27 06:10:00 | # AR cont.   |
| 02/27 18:11:18 - 02/28 05:31:48 | Track ( 637.6, -56.7) @ 02/27 18:11:00 | # AR cont.   |
| 02/28 05:41:48 - 03/03 09:20:00 | Track ( 713.0, -66.0) @ 02/28 05:41:30 | # AR cont.   |
| Open/Ti-poly                    | Open/thick-Al close                    | Safe Norm 8ms Obs 8x8 Q=50 80sec   |
| Default Filter                  | Thicker Filter                         | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

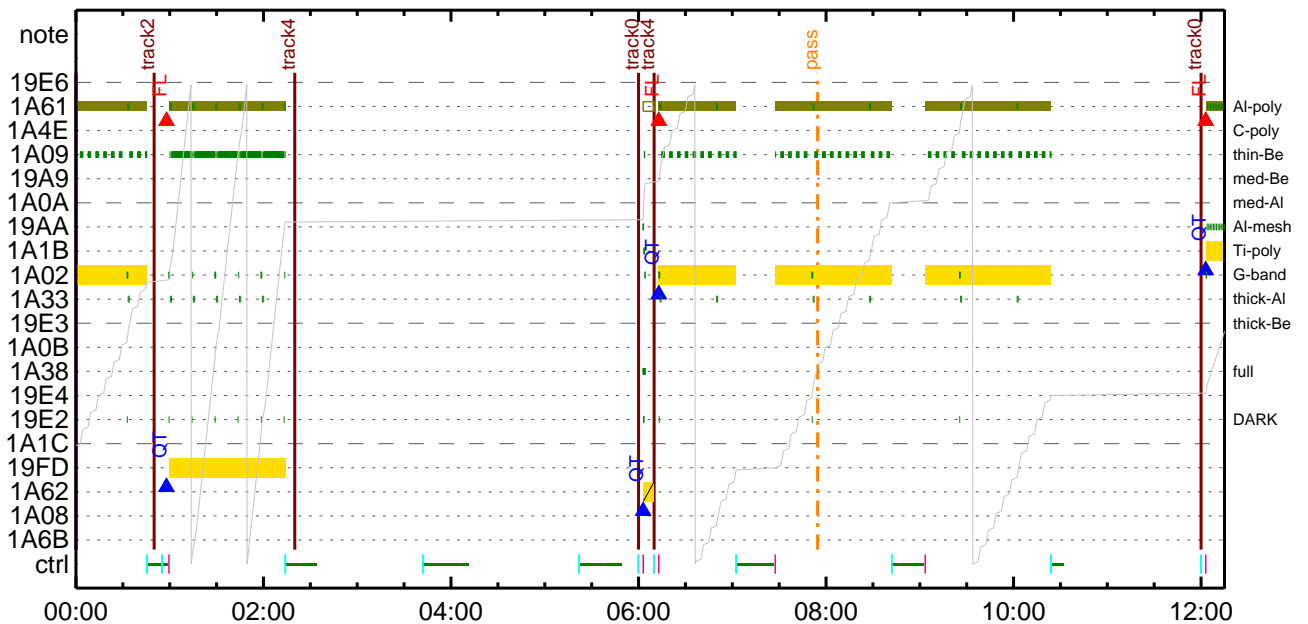
### CMDI #0950 2015/02/26



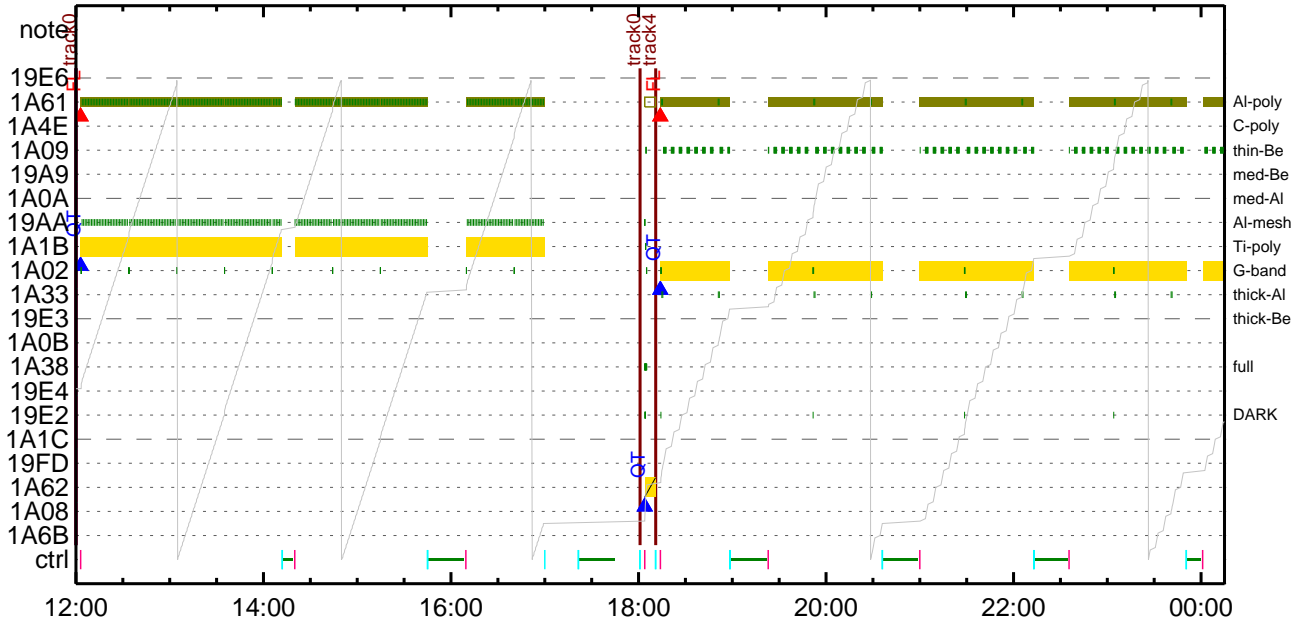
### CMDI #0950 2015/02/26



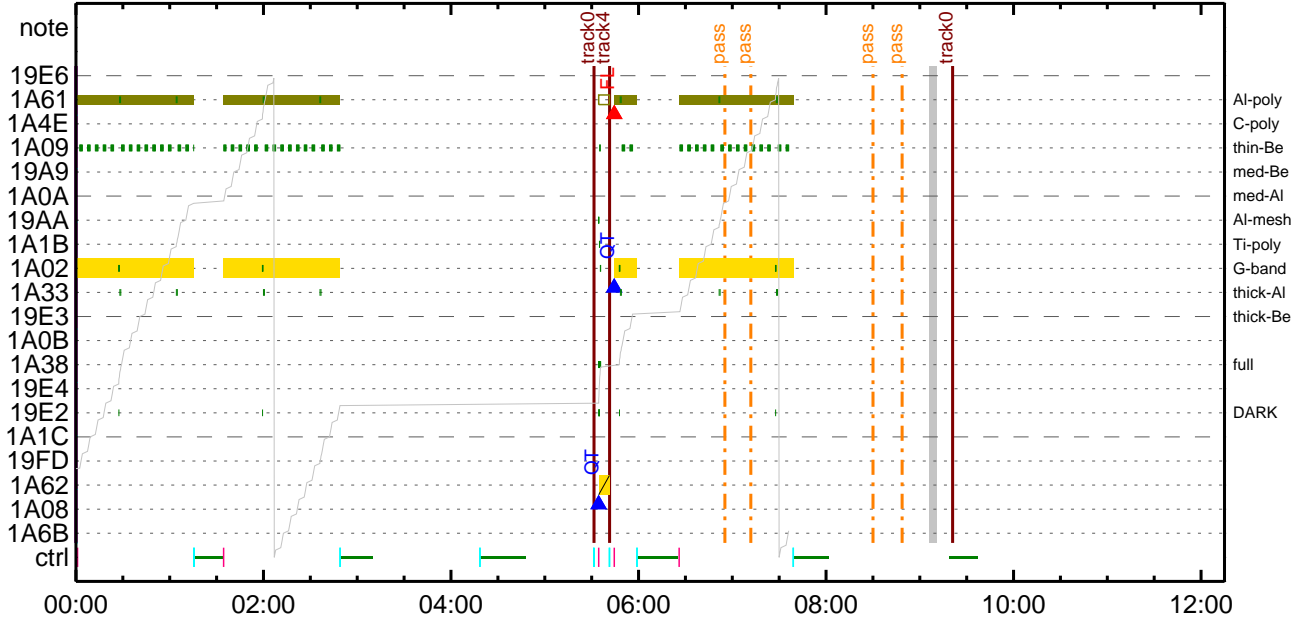
### CMDI #0950 2015/02/27



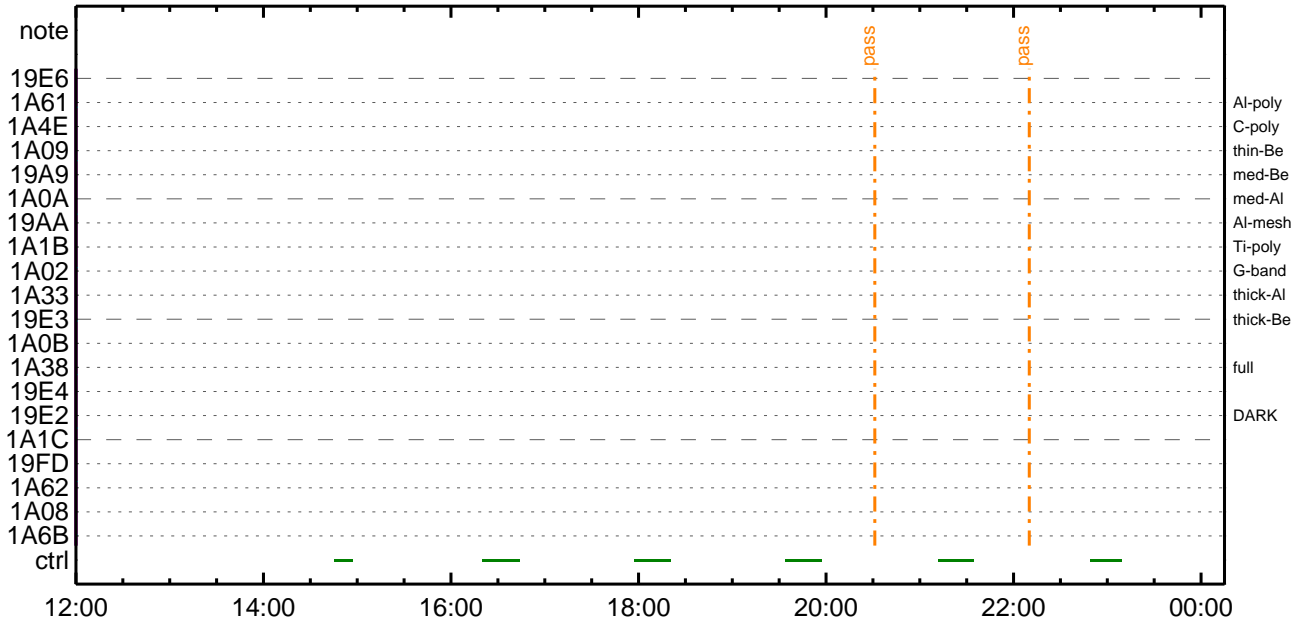
CMDI #0950 2015/02/27



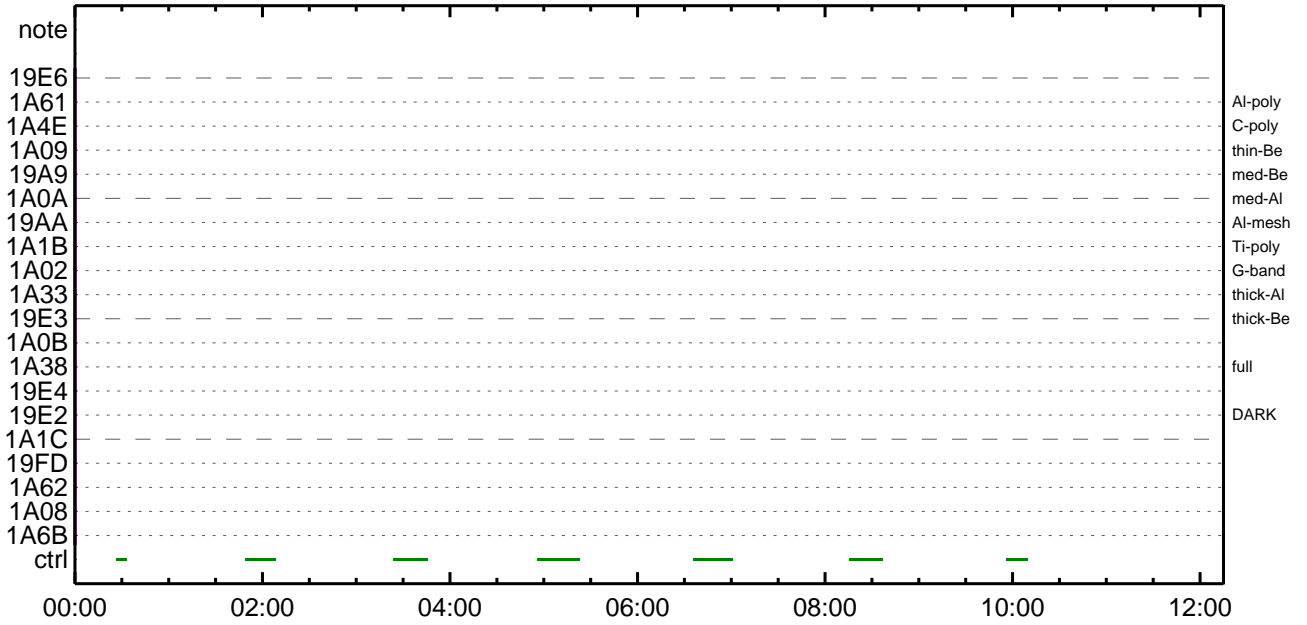
CMDI #0950 2015/02/28



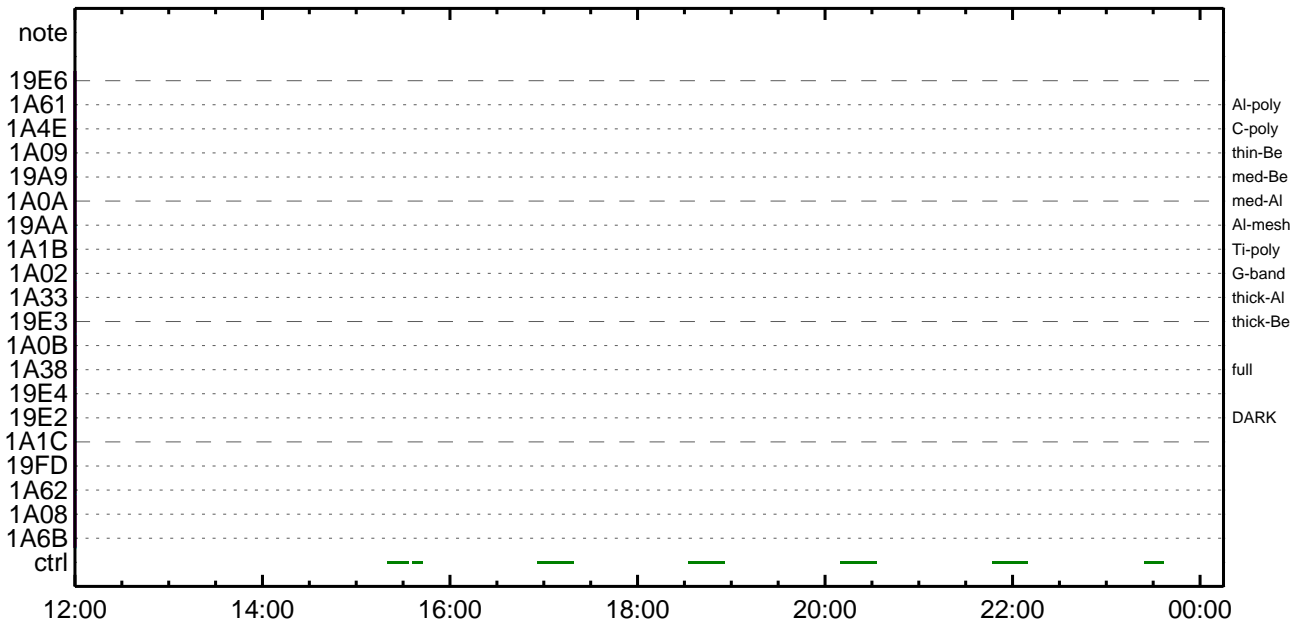
CMDI #0950 2015/02/28



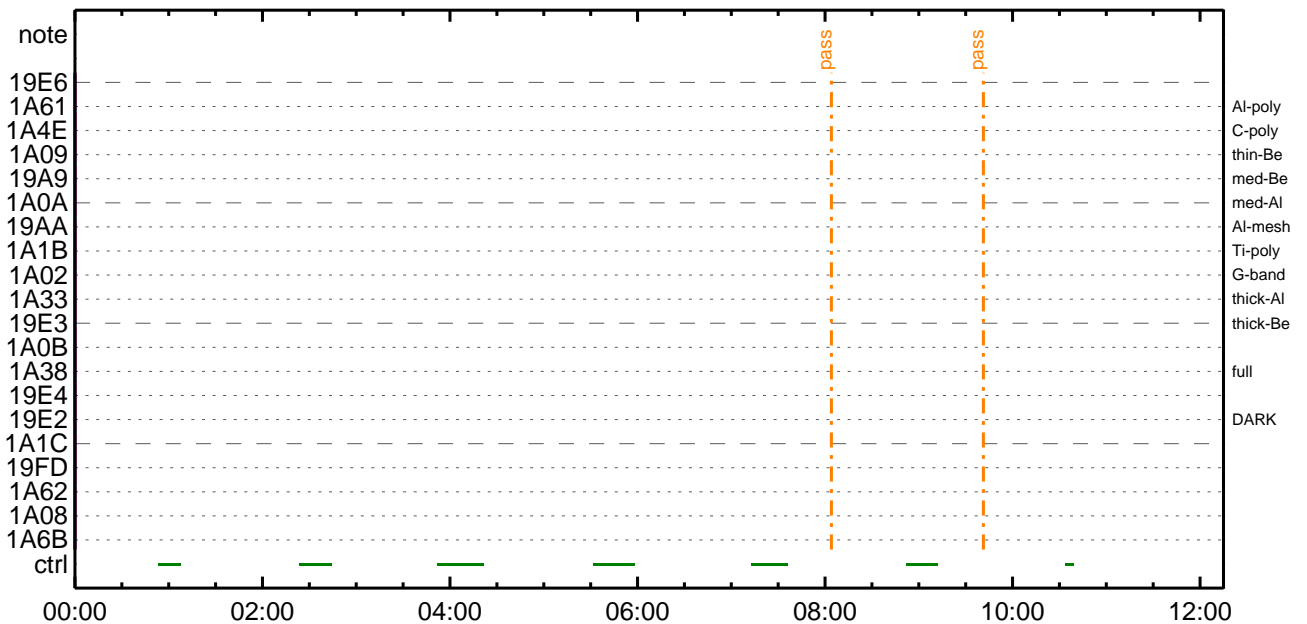
CMDI #0950 2015/03/01



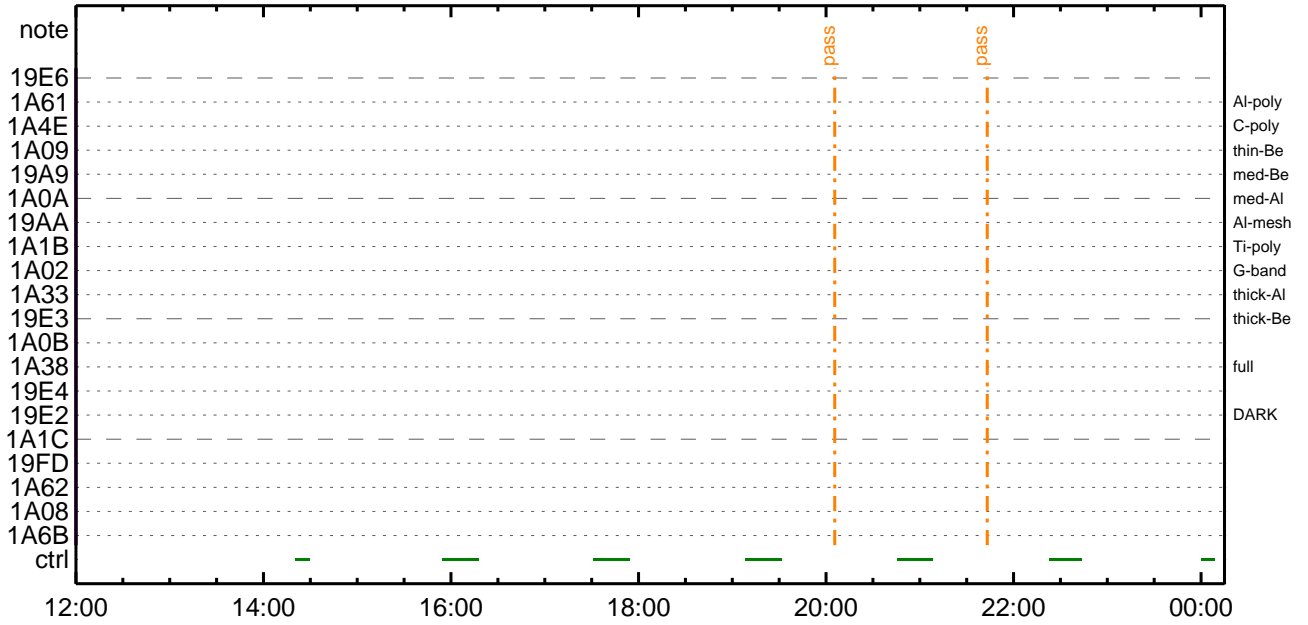
CMDI #0950 2015/03/01



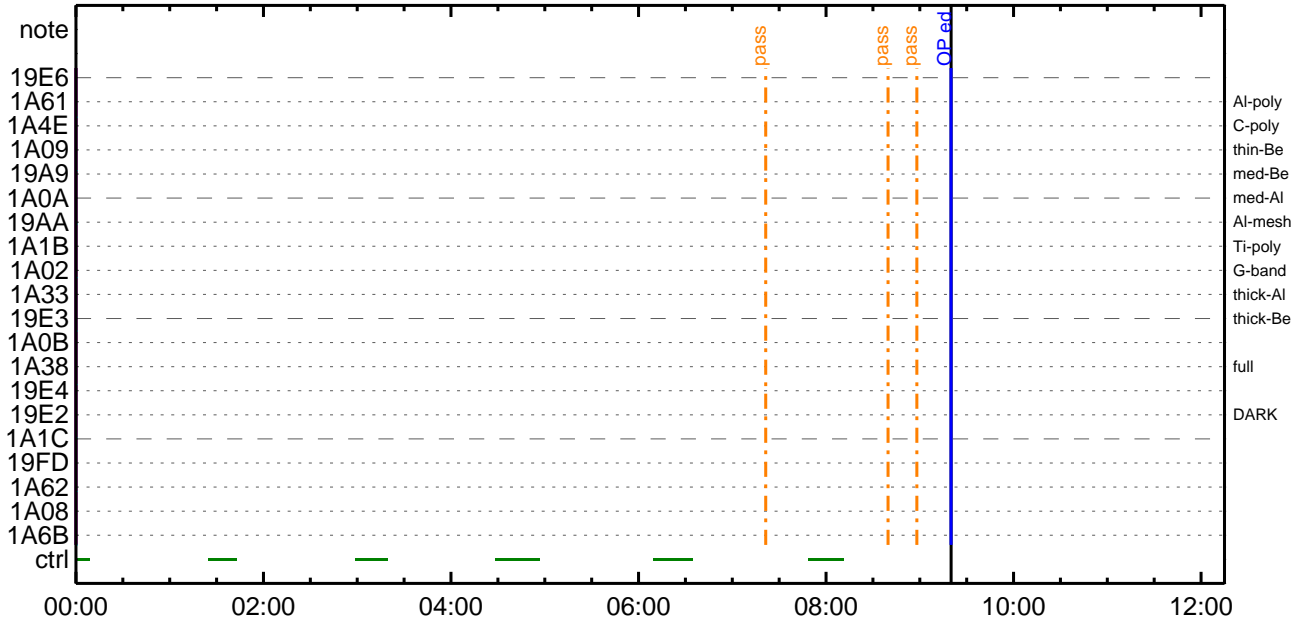
CMDI #0950 2015/03/02



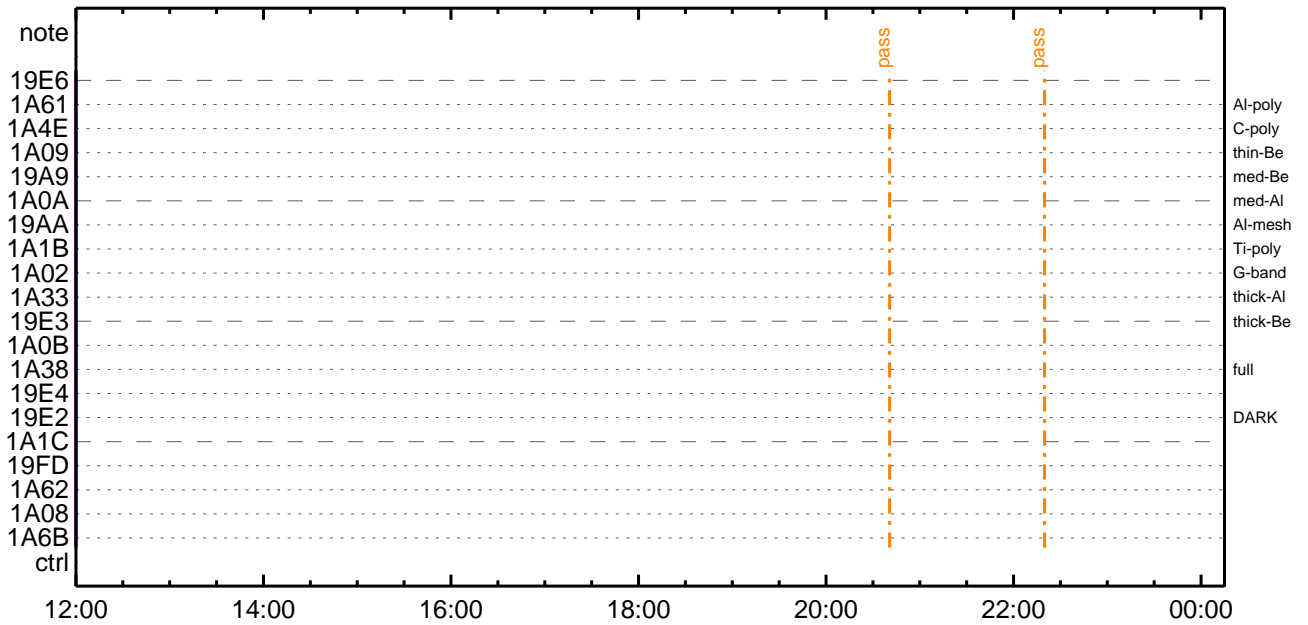
CMDI #0950 2015/03/02



CMDI #0950 2015/03/03



CMDI #0950 2015/03/03





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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOX
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-968:OP
0104 ( )
0105 S. OG og-968:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOX;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAYOXx½ª î»ò³ îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½E¹ç•è² îOKò³ îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAYOXx½ª î»ò³ îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½E¹ç•è² îOKò³ îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAYOXx½ª î»ò³ îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è² îOKò³ îÇ§
0165 C.
0166 C. ***** °E²¼ò î½Ã´ ¶Á°òEÉ¬ò°Á÷¿@ (¼âµ-YAYOXx½ê½çòðÁÔÃæç¼ª°¬òè¼i¹çòçðâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²-Á÷¿@NG²î½i¹ç;ç°E²¼ò îTI-CMDÁ÷¿@²î½Á¹Ô²°²E²²²³²E;f
0180 C. ²²²²;çSET²E²DUMP²î½±²î½Y¹²ç¹Ô²²²³²E;f
0181 C.
0182 C. TIY³Y²Y²Y²E²òðÁDî¿¿(UT)
0183 +. TI 2015-02-26 10:05:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2015-02-26 10:05:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2015-02-26 10:05:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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0194 C.
0195 +. TI 2015-02-26 10:09:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0198 C.
0199 C. °Ê²¼σîÄē%îîñσîŷÄŷ$ŷÄŷ¹àîÛ
0200 C.          çç[HK1_TI_CMD_ENA/DIS]      EQ          ENA
0201 C.          çç[HK1_TI_CMD_NUM]          EQ          4
0202 C.          çç[HK1_NEXT_EXEC_PIM]       EQ          DHU
0203 C.          çç[HK1_NEXT_EXEC_DC]       EQ          0xB3
0204 C.
0205 C. *****
0206 C. TIîî°èŷÄŷÖŷ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;$ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC      (03 ab 03 01 02)
0212 C.          çç[HK1_DMP_TOP_ADRS_1]    EQ          07
0213 C.          çç[HK1_DMP_TOP_ADRS_0]    EQ          2B
0214 C.          çç[HK1_DMP_BLOCK_NUM]     EQ          3
0215 C.          çç[HK1_DMP_REPEAT_NUM]    EQ          0
0216 C.          çç[HK1_DMA_DMP_PIM]       EQ          DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC      (07 0b f8)
0219 C.          çç[HK1_PKT_FORM_NO]       EQ          7
0220 C.          çç[HK1_PKT_GEN_TIME]      EQ          0.25 s
0221 C.          çç[HK1_S_TLM_BIT_RATE]    EQ          32k
0222 C.          çç[HK1_X_TLM_BIT_RATE]    EQ          4M
0223 C.          çç[HK1_DMP_CHK_FLG]      EQ          EXEC
0224 C.
0225 C. ŷÄŷÖŷ×½ªî»σò³îÇ$
0226 C.          çç[HK1_DMP_CHK_FLG]      EQ          NON
0227 C.
0228 C. RAM ID=TI_TBLσîîÈ¹ç•è²îOKσò³îÇ$
0229 C.
0230 C. DHUŷâ;¼ŷÉ;Èŷ½, ŷî;¼ŷÈ;Èσòîāσ¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC      (02 0a f8)
0233 C.          çç[HK1_PKT_FORM_NO]       EQ          2
0234 C.          çç[HK1_PKT_GEN_TIME]      EQ          0.5S
0235 C.          çç[HK1_S_TLM_BIT_RATE]    EQ          32K
0236 C.          çç[HK1_X_TLM_BIT_RATE]    EQ          4M
0237 C.
0238 C. Stop EIS observation and temporarily disable EIS mode changes
0239 C.
0240 C.
0241 C. ***** Start EIS operation (TI set) *****
0242 C. Execute, after the success of OP upload.
0243 C. Set EIS TI-commands
0244 +. TI 2015-02-26 10:09:30.0
0245 DC 07-FC EIS_MODE_MANU
0246 BC      (21 02)
0247 +. TI 2015-02-26 10:09:40.0
0248 DC 07-FC EIS_MODE_CHG_DIS
0249 BC      (22)
0250 C.          [ ] [HK1_TI_CMD_NUM]      EQ          2 COUNTUP
0251 C. ***** End EIS operation (TI set) *****
0252 C.
0253 C.
0254 C.
0255 C. ***** XRT START *****
0256 C. Execute, after the success of OP upload.
0257 +. TI 2015-02-26 10:09:00.0
0258 DC 07-F0 MDP_XRT_MODE_STBY
0259 BC      (c3)
0260 C.          [ ] [HK1_TI_CMD_NUM]      EQ          1COUNTUP
0261 C.
0262 C. ***** XRT END *****
0263 C.
0264 C. ***** MDP `ûÃîσî»ò¼ŷσÈÄσ¹σèDCBC•×²è *****
0265 C. (¼ª°îŷÖŷÄŷÈŷŷŷÈŷâŷçŷèσÈ¼σ¼Ä»Ûσ¹σè)
0266 S. DC-BC dcbc-402:DCBC
0267 (MDP_known_event)
0268 C.
0269 C.
0270 C. ***** ŷDŷ¹.İ Daily±;îñσÈ¹σèDCBC•×²è *****
0271 S. DC-BC dcbc-153:DCBC
0272 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0273 C.
0274 C.
0275 C. ð̄LOSŷÄŷ$ŷÄŷ¹¼Ä»Û;â
0276 C.
0277 C. ***** LOS *****
0278 C.

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(a) Spacecraft Operation Procedure (real-commands)

```
main-970 2015-02-26 12:25:46 98 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŠYÄY-¼Ä»Û;ä
0005 C.
0006 C. YÄYß;¼Y³YFÏÓYÉÄ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. ÁÍ;Èð¿ðÀð•µ°È»Í×ÁÇóÍYçYÄY×YÍ;¼YÉ;ÈÈèµ•íÍÉ;ÈðÈ¼°ÇÓð•ð¿¼í¹çðÍ;çÄ®, ùð¹ðèðÈçÄ+¿®ð•ðÈððð³ðÈ;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 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 85 83 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 20 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 80 80 08 20)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 08 08)
0056 + DC 07-F0 MDP_XRT_FLD_ENA
0057 BC (d8)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0059 BC (c8)
0060 + DC 07-F0 MDP_XRT_AEC_RESET
0061 BC (d0)
0062 + DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 + DC 07-F0 MDP_XRT_FLD_RESET
0065 BC (da)
0066 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0067 BC (c4 14)
0068 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0069 BC (c5 13)
0070 . C. ----- Success Verify ? OK / NG ____
0071 C.
0072 C.
0073 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0074 C.
0075 +. DC 07-F0 MDP_XRT_MODE_OBSV
0076 BC (c2)
0077 +. TI 2015-02-26 10:09:02.0
0078 DC 07-F0 MDP_XRT_MODE_OBSV
0079 BC (c2)
0080 . C. ----- Success Verify ? OK / NG ____
0081 C.
0082 C. ***** XRT END *****
0083 C.
0084 . C. ***** MDP `úÃÍðÍ»ò¼YðÈÄðð¹èDCBC•x²è *****
0085 C. (¼ã°íYÓYÄYÈYÏYÉYçYÈè¼¼¼¼¼»Û¹ðé)
0086 . S. DC-BC dcbc-402:DCBC
0087 (MDP_known_event)
0088 C.
0089 C.
0090 . C. ***** YDÏ¹•İ Daily±¿ÍÑðÈ´Øð¹èDCBC•x²è *****
0091 . S. DC-BC dcbc-153:DCBC
0092 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0093 C.
0094 C.
0095 . C. ;ãLOSÄYŠYÄY-¼Ä»Û;ä
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0096 C.  
0097 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0098 C.

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XRT\_OGLIST\_0950.chk

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

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2015/02/26 | 10:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 10:19:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 10:19:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/02/26 | 10:20:00.0 | AOCS_Orе-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 00 00 00 00 |  |  |
| 2015/02/26 | 10:20:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/02/26 | 10:20:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2015/02/26 | 10:20:22.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2015/02/26 | 10:20:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/02/26 | 10:20:26.0 | XRT_FLD_RESET_407_OG [0x197]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 10:22:56.0 | XRT_QT_PROG_SET_434_OG [0x1b2]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |  |  |
| 2015/02/26 | 10:22:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 13          |  |  |
| 2015/02/26 | 10:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 15:10:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 15:10:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 15:10:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 15:10:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 15:13:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 16:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 16:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 16:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 16:46:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 16:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 17:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2015/02/26 | 18:00:00.0 | AOCS_Orе-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2015/02/26 | 18:00:18.0 | XRT_FLD_DIS_422_OG [0x1a6]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2015/02/26 | 18:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2015/02/26 | 18:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/02/26 | 18:02:58.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |  |  |
| 2015/02/26 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/02/26 | 18:10:00.0 | AOCS_Orе-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 00 00 00 00 |  |  |
| 2015/02/26 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/02/26 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2015/02/26 | 18:10:22.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2015/02/26 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/02/26 | 18:10:26.0 | XRT_FLD_RESET_407_OG [0x197]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 18:12:56.0 | XRT_QT_PROG_SET_434_OG [0x1b2]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |  |  |
| 2015/02/26 | 18:12:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 13          |  |  |
| 2015/02/26 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 18:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 18:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 18:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |

|            |            |                                   |                     |   |       |                |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|
| 2015/02/26 | 18:23:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 18:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 18:46:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 18:47:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 20:00:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 20:00:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 20:00:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 20:00:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 20:03:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 20:23:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2015/02/26 | 20:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 21:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 21:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 21:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 21:37:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 21:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 22:00:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2015/02/26 | 22:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2015/02/26 | 23:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 23:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/26 | 23:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/26 | 23:15:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/26 | 23:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/26 | 23:29:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2015/02/26 | 23:30:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2015/02/27 | 00:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 00:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 00:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/27 | 00:45:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/27 | 00:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/27 | 00:50:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 02 00 00 00 00 |  |  |
| 2015/02/27 | 00:54:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 00:54:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 00:54:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/02/27 | 00:55:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2015/02/27 | 00:55:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2015/02/27 | 00:55:22.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2015/02/27 | 00:55:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2015/02/27 | 00:55:26.0 | XRT_FLD_RESET_407_OG [0x197]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/27 | 00:57:56.0 | XRT_QT_PROG_SET_433_OG [0x1b1]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |  |  |
| 2015/02/27 | 00:57:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 13          |  |  |
| 2015/02/27 | 00:58:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2015/02/27 | 00:59:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2015/02/27 | 02:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 02:14:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2015/02/27 | 02:14:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2015/02/27 | 02:14:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2015/02/27 | 02:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2015/02/27 | 02:20:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |                     |   |       |                |  |  |

|            |            |                                   |         |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---------|---|-------|----|----|----|----|----|
| 2015/02/27 | 03:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCU_NM | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 03:42:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 03:42:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 03:42:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 03:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 05:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 05:22:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 05:22:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 05:22:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 05:25:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 05:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |         |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                |         | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2015/02/27 | 06:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |         |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           |         | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2015/02/27 | 06:00:18.0 | XRT_FLD_DIS_422_OG [0x1a6]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   |         | 1 | 07-F0 | d9 |    |    |    |    |
| 2015/02/27 | 06:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               |         | 1 | 07-F0 | c9 |    |    |    |    |
| 2015/02/27 | 06:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/02/27 | 06:02:58.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 03 |    |    |    |
| 2015/02/27 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |         |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                |         | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2015/02/27 | 06:10:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |         |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           |         | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
| 2015/02/27 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   |         | 1 | 07-F0 | d8 |    |    |    |    |
| 2015/02/27 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               |         | 1 | 07-F0 | c8 |    |    |    |    |
| 2015/02/27 | 06:10:22.0 | XRT_AEC_RESET_413_OG [0x19d]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 |         | 1 | 07-F0 | d0 |    |    |    |    |
| 2015/02/27 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/02/27 | 06:10:26.0 | XRT_FLD_RESET_407_OG [0x197]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 06:12:56.0 | XRT_QT_PROG_SET_434_OG [0x1b2]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 0c |    |    |    |
| 2015/02/27 | 06:12:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               |         | 2 | 07-F0 | c5 | 13 |    |    |    |
| 2015/02/27 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 07:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 07:02:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 07:02:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 07:02:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 07:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 07:26:30.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2015/02/27 | 07:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 08:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 08:42:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 08:42:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 08:42:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 08:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 09:02:30.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2015/02/27 | 09:03:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 10:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 10:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |



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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2015/02/27 | 10:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/02/27 | 10:24:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/02/27 | 10:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/02/27 | 11:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 11:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 11:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/02/27 | 12:00:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 53 8d 01 99 |  |  |  |  |
| 2015/02/27 | 12:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/02/27 | 12:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/02/27 | 12:00:22.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2015/02/27 | 12:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/02/27 | 12:00:26.0 | XRT_FLD_RESET_407_OG [0x197]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/02/27 | 12:02:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |  |  |  |  |
| 2015/02/27 | 12:02:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 13          |  |  |  |  |
| 2015/02/27 | 12:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/02/27 | 14:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 14:12:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 14:12:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/02/27 | 14:12:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/02/27 | 14:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/02/27 | 14:19:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/02/27 | 14:20:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/02/27 | 15:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 15:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 15:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/02/27 | 15:45:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/02/27 | 15:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/02/27 | 16:08:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/02/27 | 16:09:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/02/27 | 17:00:00.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 17:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 17:21:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 17:21:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/02/27 | 17:21:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/02/27 | 17:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/02/27 | 18:00:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 18:00:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 18:00:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2015/02/27 | 18:01:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2015/02/27 | 18:01:18.0 | XRT_FLD_DIS_422_OG [0x1a6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2015/02/27 | 18:03:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2015/02/27 | 18:03:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/02/27 | 18:03:58.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2015/02/27 | 18:04:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/02/27 | 18:10:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 18:10:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/02/27 | 18:10:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/02/27 | 18:11:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |

|            |            |                                |                     |   |       |    |    |    |    |    |
|------------|------------|--------------------------------|---------------------|---|-------|----|----|----|----|----|
| 2015/02/27 | 18:11:18.0 | XRT_FLD_ENA_411_OG [0x19b]     | AOCU_NM             | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
|            |            |                                | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2015/02/27 | 18:11:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2015/02/27 | 18:11:22.0 | XRT_AEC_RESET_413_OG [0x19d]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2015/02/27 | 18:11:24.0 | XRT_ARS_DIS_423_OG [0x1a7]     |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/02/27 | 18:11:26.0 | XRT_FLD_RESET_407_OG [0x197]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 18:13:56.0 | XRT_QT_PROG_SET_434_OG [0x1b2] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0c |    |    |    |
| 2015/02/27 | 18:13:58.0 | XRT_FL_PROG_SET_401_OG [0x191] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 13 |    |    |    |
| 2015/02/27 | 18:14:00.0 | XRT_CTRL_AUTO_408_OG [0x198]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 18:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 18:58:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 18:58:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 18:58:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 19:01:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 19:22:00.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |    |    |    |    |
| 2015/02/27 | 19:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 20:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 20:36:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 20:36:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 20:36:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 20:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 20:59:00.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |    |    |    |    |
| 2015/02/27 | 21:00:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 22:13:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 22:13:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 22:13:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 22:13:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 22:16:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/27 | 22:34:30.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |    |    |    |    |
| 2015/02/27 | 22:35:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/27 | 23:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 23:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/27 | 23:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/27 | 23:50:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/27 | 23:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/28 | 00:00:00.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |    |    |    |    |
| 2015/02/28 | 00:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/28 | 01:15:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/28 | 01:15:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/28 | 01:15:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/28 | 01:15:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/28 | 01:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/28 | 01:33:30.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |    |    |    |    |
| 2015/02/28 | 01:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/02/28 | 02:49:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/28 | 02:49:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/02/28 | 02:49:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2015/02/28 | 02:49:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/02/28 | 02:52:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |                     |   |       |    |    |    |    |    |
|            |            |                                | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/02/28 | 04:18:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |    |    |    |    |

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|            |            |                                   |                               |   |       |                |  |
|------------|------------|-----------------------------------|-------------------------------|---|-------|----------------|--|
| 2015/02/28 | 04:18:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 04:18:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 04:18:36.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/02/28 | 04:21:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |  |
| 2015/02/28 | 05:31:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |  |
| 2015/02/28 | 05:31:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:31:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:31:30.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 ff aa 00    |  |
| 2015/02/28 | 05:31:48.0 | XRT_FLD_DIS_422_OG [0x1a6]        | AOCU_NM                       | 5 | 02-76 | 00 00 00 00 00 |  |
| 2015/02/28 | 05:34:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS               | 1 | 07-F0 | d9             |  |
| 2015/02/28 | 05:34:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS           | 1 | 07-F0 | c9             |  |
| 2015/02/28 | 05:34:28.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |  |
| 2015/02/28 | 05:34:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 03          |  |
| 2015/02/28 | 05:41:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/02/28 | 05:41:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:41:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:41:30.0 | AOCS_Ore-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/02/28 | 05:41:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                       | 5 | 02-76 | 04 00 00 00 00 |  |
| 2015/02/28 | 05:41:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA               | 1 | 07-F0 | d8             |  |
| 2015/02/28 | 05:41:52.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_FLRCTRL_ENA           | 1 | 07-F0 | c8             |  |
| 2015/02/28 | 05:41:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET             | 1 | 07-F0 | d0             |  |
| 2015/02/28 | 05:41:56.0 | XRT_FLD_RESET_407_OG [0x197]      | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |  |
| 2015/02/28 | 05:44:26.0 | XRT_QT_PROG_SET_434_OG [0x1b2]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/02/28 | 05:44:28.0 | XRT_FL_PROG_SET_401_OG [0x191]    | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 0c          |  |
| 2015/02/28 | 05:44:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET           | 2 | 07-F0 | c5 13          |  |
| 2015/02/28 | 05:59:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/02/28 | 05:59:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:59:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 05:59:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/02/28 | 06:02:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |  |
| 2015/02/28 | 06:25:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |  |
| 2015/02/28 | 06:26:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |  |
| 2015/02/28 | 07:39:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/02/28 | 07:39:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 07:39:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/02/28 | 07:39:06.0 | XRT_PREFLR_STRT_439_OG [0x1b7]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/02/28 | 07:42:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |  |
| 2015/02/28 | 09:21:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |  |
|            |            |                                   | AOCU_NM                       | 5 | 02-76 | 00 00 00 00 00 |  |