

# XRT Timeline to be uploaded on 2011/12/27

Period: 2011/12/27 09:29:00 - 2011/12/30 09:41:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

## XOB #18AE: AR Standard-A(Filter-Ratio) with PFB, shorter thin-Be, thick Al and Al/Poly context, 384x384 at 1064 1048 (all), 150s cad

| Term                                | Pointing (x, y)                            | Comment                                       |
|-------------------------------------|--|---|
| 12/27 09:42:00 - 12/27 17:42:30     | Track ( 667.8, -345.9) @ 12/27 09:39:00    | # OP start + 10minb, track AR11387            |
| 12/28 18:08:30 - 12/29 05:59:54     | Track ( 820.0, -354.0) @ 12/28 18:05:30    | # Cont,                                       |
| <b>PROG= 13 Inf.-time(s)</b>        |  |   |
| <b>Subr= 1 1-time(s) 2.0sec</b>     |  |   |
| <b>Seqn= 19 1-time(s) 2.0sec</b>    |  |   |
| Open/Ti-poly                        | Open/thick-Al close Safe Dark 16.0s        | Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec  |
| Open/G-band                         | Open/G-band open Safe Norm 63ms            | Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec  |
| <b>Seqn= 96 4-time(s) 2.0sec</b>    |  |   |
| Al-poly/Open                        | thin-Be/Open close Safe Norm 500ms         | Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| Open/Ti-poly                        | Open/thick-Be close Safe Norm 1.00s        | Obs 1x1 512x512 (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>Subr= 2 1-time(s) 2.0sec</b>     |  |   |
| <b>Seqn= 62 15-time(s) 150.0sec</b> |  |   |
| thin-Be/Open                        | Open/thick-Al close Safe Norm 500ms        | Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| Open/Ti-poly                        | Open/thick-Be close Safe Norm 1.00s        | Obs 1x1 384x384 (1064, 1048) Q=95 3 0 15.0sec |
| thin-Be/Open                        | Open/thick-Al close Safe Norm 500ms        | Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec  |
| Open/Ti-poly                        | Open/thick-Be close Safe Norm 1.00s        | Obs 1x1 384x384 (1064, 1048) Q=95 3 1 15.0sec |
| thin-Be/Open                        | Open/thick-Al close Safe Norm 500ms        | Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec  |
| Open/Ti-poly                        | Open/thick-Be close Safe Norm 1.00s        | Obs 1x1 384x384 (1064, 1048) Q=95 3 2 15.0sec |
| thin-Be/Open                        | Open/thick-Al close Safe Norm 500ms        | Obs 1x1 384x384 (1064, 1048) Q=95 3 3 2.0sec  |
| Open/Ti-poly                        | Open/thick-Be close Safe Norm 1.00s        | Obs 1x1 384x384 (1064, 1048) Q=95 3 3 15.0sec |
| Default Filter                      | Thicker Filter VLS mode image Exp. CCD Bin | ROI: size (center) Comp. AEC Buffer Interval  |

## XOB #18BF: Synoptic 9 Filter- 2x2 Q98 Short exp 2 loop

| Term                              | Pointing (x, y)                            | Comment  |
|-----------------------------------|--|--|
| 12/27 18:09:00 - 12/27 18:29:54   | Fixed ( 0.0, 0.0)                          | synoptic, shifted 6.0 min                      |
| <b>PROG= 14 2-time(s)</b>         |  |  |
| <b>Subr= 1 1-time(s) 180.0sec</b> |  |  |
| <b>Seqn= 82 1-time(s) 25.0sec</b> |  |  |
| Open/Al-mesh                      | Open/Al-mesh close Safe Norm 125ms         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Al-mesh                      | Open/Al-mesh close Safe Norm 1.00s         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 98 1-time(s) 25.0sec</b> |  |  |
| Open/Ti-poly                      | Open/Ti-poly close Safe Norm 250ms         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly                      | Open/Ti-poly close Safe Norm 2.00s         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 74 1-time(s) 25.0sec</b> |  |  |
| Al-poly/Open                      | Al-poly/Open close Safe Norm 125ms         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Al-poly/Open                      | Al-poly/Open close Safe Norm 1.00s         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 18 1-time(s) 25.0sec</b> |  |  |
| C-poly/Open                       | C-poly/Open close Safe Norm 250ms          | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| C-poly/Open                       | C-poly/Open close Safe Norm 2.00s          | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 24 1-time(s) 25.0sec</b> |  |  |
| Al-poly/Ti-poly                   | Al-poly/thick-Al close Safe Norm 2.00s     | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 9 1-time(s) 4.0sec</b>   |  |  |
| thin-Be/Open                      | thin-Be/Open close Safe Norm 11.3s         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| thin-Be/Open                      | thin-Be/Open close Safe Norm 1.00s         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Subr= 2 1-time(s) 180.0sec</b> |  |  |
| <b>Seqn= 33 1-time(s) 4.0sec</b>  |  |  |
| med-Al/Open                       | med-Al/Open close Safe Norm 22.6s          | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 71 1-time(s) 4.0sec</b>  |  |  |
| Open/thick-Be                     | Open/thick-Be close Safe Norm 64.0s        | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 67 1-time(s) 4.0sec</b>  |  |  |
| Open/Al-mesh                      | Open/Al-mesh close Safe Dark 250ms         | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| <b>Seqn= 4 1-time(s) 4.0sec</b>   |  |  |
| 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 #1881: CME watch - 4x4 - AEC 2 - Ti/poly

| Term                            | Pointing (x, y)        | Comment               |
|---------------------------------|------------------------|-----------------------|
| 12/27 18:33:00 - 12/27 18:52:54 | Fixed ( -10.0, -945.0) | # HOP79 N-S scan 1/20 |
| 12/27 18:56:00 - 12/27 19:19:30 | Fixed ( -10.0, -860.0) | 2/20                  |
| 12/27 19:46:30 - 12/27 20:06:24 | Fixed ( -10.0, -760.0) | 3/20                  |
| 12/27 20:09:30 - 12/27 20:29:24 | Fixed ( -10.0, -660.0) | 4/20                  |
| 12/27 20:32:30 - 12/27 20:56:30 | Fixed ( -10.0, -560.0) | 5/20                  |
| 12/27 21:24:00 - 12/27 21:43:54 | Fixed ( -10.0, -460.0) | 6/20                  |
| 12/27 21:47:00 - 12/27 22:06:54 | Fixed ( -10.0, -360.0) | 7/20                  |
| 12/27 22:10:00 - 12/27 22:34:00 | Fixed ( -10.0, -260.0) | 8/20                  |
| 12/27 22:59:00 - 12/27 23:18:54 | Fixed ( -10.0, -160.0) | 9/20                  |
| 12/27 23:22:00 - 12/27 23:41:54 | Fixed ( -10.0, -60.0)  | 10/20                 |
| 12/27 23:45:00 - 12/28 00:11:30 | Fixed ( -10.0, 30.0)   | 11/20                 |

|                                 |                       |       |
|---------------------------------|-----------------------|-------|
| 12/28 00:23:30 - 12/28 00:43:24 | Fixed ( -10.0, 130.0) | 12/20 |
| 12/28 00:46:30 - 12/28 01:06:24 | Fixed ( -10.0, 230.0) | 13/20 |
| 12/28 01:09:30 - 12/28 01:35:30 | Fixed ( -10.0, 330.0) | 14/20 |
| 12/28 01:58:00 - 12/28 02:17:54 | Fixed ( -10.0, 430.0) | 15/20 |
| 12/28 02:21:00 - 12/28 02:40:54 | Fixed ( -10.0, 530.0) | 16/20 |
| 12/28 02:44:00 - 12/28 03:10:00 | Fixed ( -10.0, 630.0) | 17/20 |
| 12/28 03:35:00 - 12/28 03:54:54 | Fixed ( -10.0, 730.0) | 18/20 |
| 12/28 03:58:00 - 12/28 04:40:30 | Fixed ( -10.0, 830.0) | 19/20 |
| 12/28 05:12:30 - 12/28 05:52:24 | Fixed ( -10.0, 930.0) | 20/20 |

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

|                            |                |       |      |       |       |     |     |                        |       |            |          |        |
|----------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 1 1-time(s) 120.0sec |                |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 57 1-time(s) 4.0sec  |                |       |      |       |       |     |     |                        |       |            |          |        |
| Open/Ti-poly               | Open/thick-Al  | close | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
| Default Filter             | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #18B0: Synoptic Q95 2x2 - Al/mesh(12/723) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(24/1443) + Thin-Be(88/2)**

| Term                            | Pointing (x, y)   | Comment                    |
|---------------------------------|-------------------|----------------------------|
| 12/28 05:55:30 - 12/28 06:02:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -7.5 min |
| 12/28 17:58:30 - 12/28 18:05:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -4.5 min |
| 12/29 06:03:00 - 12/29 06:09:54 | Fixed ( 0.0, 0.0) | synoptic                   |

**PROG= 08 1-time(s)**

|                           |                |       |      |       |       |     |     |                        |       |            |          |        |
|---------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 1 1-time(s) 12.0sec |                |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 46 1-time(s) 4.0sec |                |       |      |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh              | Open/Al-mesh   | close | Safe | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh              | Open/Al-mesh   | close | Safe | Norm  | 707ms | 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= 69 1-time(s) 4.0sec |                |       |      |       |       |     |     |                        |       |            |          |        |
| Open/Ti-poly              | Open/Ti-poly   | close | Safe | Norm  | 24ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Ti-poly              | Open/Ti-poly   | close | Safe | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 50 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  | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 4 1-time(s) 2.0sec  |                |       |      |       |       |     |     |                        |       |            |          |        |
| Open/G-band               | Open/G-band    | open  | Safe | Norm  | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Default Filter            | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #18AF: AR Standard-A(Filter-Ratio) with PFB, shorter thin-Be, thick Al and Al/Poly context, 384x384 at 1064 1048 (all), 4min cad**

| Term                            | Pointing (x, y)                         | Comment         |
|---------------------------------|---|-----------------|
| 12/28 06:05:30 - 12/28 17:55:24 | Track ( 771.9, -350.6) @ 12/28 06:02:30 | # Track AR11387 |

**PROG= 20 Inf.-time(s)**

|                              |                |       |      |       |       |     |     |                      |       |            |          |         |
|------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| Subr= 1 1-time(s) 2.0sec     |                |       |      |       |       |     |     |                      |       |            |          |         |
| Seqn= 19 1-time(s) 2.0sec    |                |       |      |       |       |     |     |                      |       |            |          |         |
| Open/Ti-poly                 | Open/thick-Al  | close | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| Open/G-band                  | Open/G-band    | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| Seqn= 96 4-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  |
| Open/Ti-poly                 | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 512x512 (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  |
| Subr= 2 1-time(s) 2.0sec     |                |       |      |       |       |     |     |                      |       |            |          |         |
| Seqn= 62 11-time(s) 240.0sec |                |       |      |       |       |     |     |                      |       |            |          |         |
| thin-Be/Open                 | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Open/Ti-poly                 | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 15.0sec |
| thin-Be/Open                 | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec  |
| Open/Ti-poly                 | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 15.0sec |
| thin-Be/Open                 | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec  |
| Open/Ti-poly                 | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 15.0sec |
| thin-Be/Open                 | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec  |
| Open/Ti-poly                 | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 15.0sec |
| Default Filter               | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

**XOB #18C7: AR Standard-A(Filter-Ratio) with PFB, shorter thin-Be, thick Al and Al/Poly context, 384x384 at 1064 1048 (all), 30s cad**

| Term                            | Pointing (x, y)                         | Comment |
|---------------------------------|---|---------|
| 12/29 06:13:00 - 12/29 10:51:54 | Track ( 857.5, -357.8) @ 12/29 06:10:00 | # Cont, |

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

|                           |               |       |      |      |       |     |     |                      |      |   |   |        |
|---------------------------|---------------|-------|------|------|-------|-----|-----|----------------------|------|---|---|--------|
| Subr= 1 1-time(s) 2.0sec  |               |       |      |      |       |     |     |                      |      |   |   |        |
| Seqn= 19 1-time(s) 2.0sec |               |       |      |      |       |     |     |                      |      |   |   |        |
| Open/Ti-poly              | Open/thick-Al | close | Safe | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Open/G-band               | Open/G-band   | open  | Safe | Norm | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 96 4-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 |
| Open/Ti-poly              | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 512x512 (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>Subr= 2 15-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 42 1-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 7.0sec |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 7.0sec |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 7.0sec |
| <b>Seqn= 43 1-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 7.0sec |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 7.0sec |
| thin-Be/Open                     | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
| Open/Ti-poly                     | Open/thick-Be  | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 7.0sec |
| Default Filter                   | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

### Flare mode

\* \* \* \* \*

### XOB #18C2: Flare standard obs. multifilter - thin-Be + (med-Al,thick-Be) 384x384 + (Al-poly 512x512 2x2)-no interval context-12 loops

| Term                            | Pointing (x, y)                                    | Comment                            |
|---------------------------------|--|------------------------------------|
| 12/27 09:42:00 - 12/27 17:42:30 | Track ( 667.8, -345.9) <sup>© 12/27 09:39:00</sup> | # OP start + 10minb, track AR11387 |
| 12/27 18:33:00 - 12/27 18:52:54 | Fixed ( -10.0, -945.0)                             | # HOP79 N-S scan 1/20              |
| 12/27 18:56:00 - 12/27 19:19:30 | Fixed ( -10.0, -860.0)                             | 2/20                               |
| 12/27 19:46:30 - 12/27 20:06:24 | Fixed ( -10.0, -760.0)                             | 3/20                               |
| 12/27 20:09:30 - 12/27 20:29:24 | Fixed ( -10.0, -660.0)                             | 4/20                               |
| 12/27 20:32:30 - 12/27 20:56:30 | Fixed ( -10.0, -560.0)                             | 5/20                               |
| 12/27 21:24:00 - 12/27 21:43:54 | Fixed ( -10.0, -460.0)                             | 6/20                               |
| 12/27 21:47:00 - 12/27 22:06:54 | Fixed ( -10.0, -360.0)                             | 7/20                               |
| 12/27 22:10:00 - 12/27 22:34:00 | Fixed ( -10.0, -260.0)                             | 8/20                               |
| 12/27 22:59:00 - 12/27 23:18:54 | Fixed ( -10.0, -160.0)                             | 9/20                               |
| 12/27 23:22:00 - 12/27 23:41:54 | Fixed ( -10.0, -60.0)                              | 10/20                              |
| 12/27 23:45:00 - 12/28 00:11:30 | Fixed ( -10.0, 30.0)                               | 11/20                              |
| 12/28 00:23:30 - 12/28 00:43:24 | Fixed ( -10.0, 130.0)                              | 12/20                              |
| 12/28 00:46:30 - 12/28 01:06:24 | Fixed ( -10.0, 230.0)                              | 13/20                              |
| 12/28 01:09:30 - 12/28 01:35:30 | Fixed ( -10.0, 330.0)                              | 14/20                              |
| 12/28 01:58:00 - 12/28 02:17:54 | Fixed ( -10.0, 430.0)                              | 15/20                              |
| 12/28 02:21:00 - 12/28 02:40:54 | Fixed ( -10.0, 530.0)                              | 16/20                              |
| 12/28 02:44:00 - 12/28 03:10:00 | Fixed ( -10.0, 630.0)                              | 17/20                              |
| 12/28 03:35:00 - 12/28 03:54:54 | Fixed ( -10.0, 730.0)                              | 18/20                              |
| 12/28 03:58:00 - 12/28 04:40:30 | Fixed ( -10.0, 830.0)                              | 19/20                              |
| 12/28 05:12:30 - 12/28 05:52:24 | Fixed ( -10.0, 930.0)                              | 20/20                              |
| 12/28 06:05:30 - 12/28 17:55:24 | Track ( 771.9, -350.6) <sup>© 12/28 06:02:30</sup> | # Track AR11387                    |
| 12/28 18:08:30 - 12/29 05:59:54 | Track ( 820.0, -354.0) <sup>© 12/28 18:05:30</sup> | # Cont,                            |
| 12/29 06:13:00 - 12/29 10:51:54 | Track ( 857.5, -357.8) <sup>© 12/29 06:10:00</sup> | # Cont,                            |

### PROG= 03 12-time(s)

|                                   |                  |       |      |       |       |     |     |                      |       |            |          |        |
|-----------------------------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 45-time(s) 10.0sec</b> |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 20 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| thin-Be/Open                      | med-Be/Open      | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| <b>Seqn= 63 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= 77 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>Subr= 2 1-time(s) 10.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 90 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                       | Open/G-band      | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al                     | Open/thick-Al    | close | Safe | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al                     | Open/thick-Al    | close | Safe | Dark  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Default Filter                    | Thicker Filter   | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

### Active Region Search

\* \* \* \* \*

NOT USED

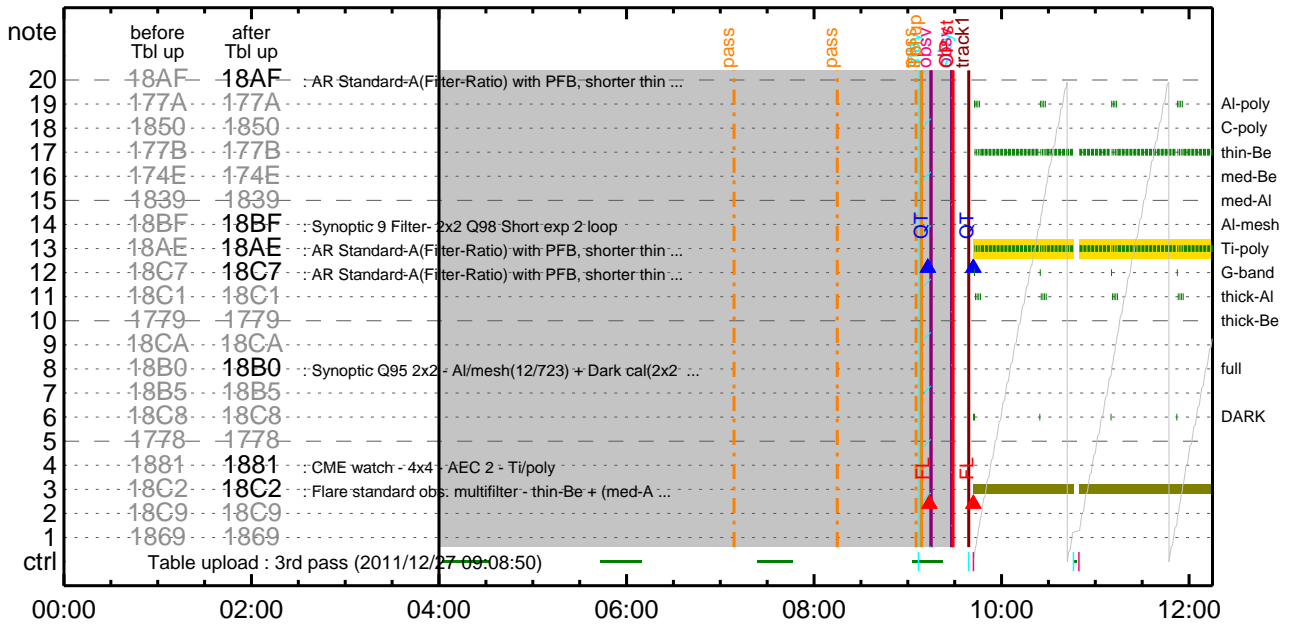
\* \* \* \* \*

### Flare Detection

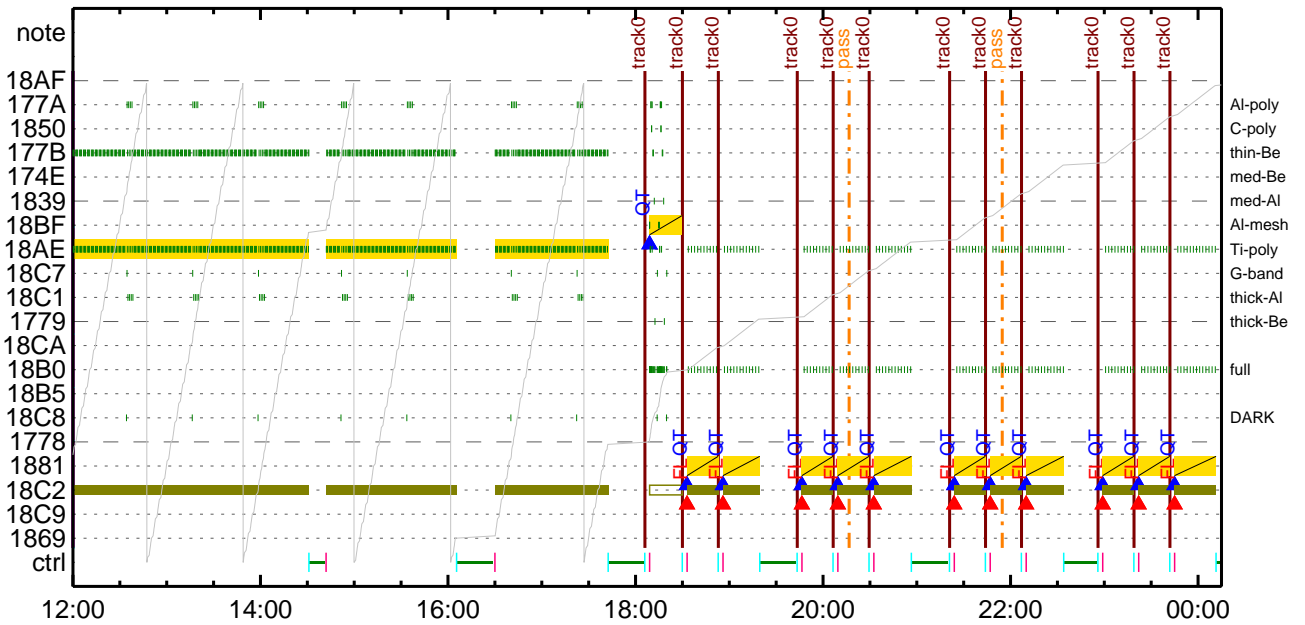
\* \* \* \* \*

| Term                            | Pointing (x, y)                                    | Comment               |      |       |      |     |     |                    |       |            |          |
|---------------------------------|--|-----------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| 12/27 18:32:46 - 12/28 05:52:46 | Fixed ( -10.0, -945.0)                             | # HOP79 N-S scan 1/20 |      |       |      |     |     |                    |       |            |          |
| 12/28 06:05:16 - 12/28 17:55:46 | Track ( 771.9, -350.6) <sup>© 12/28 06:02:30</sup> | # Track AR11387       |      |       |      |     |     |                    |       |            |          |
| 12/28 18:08:16 - 12/29 06:00:16 | Track ( 820.0, -354.0) <sup>© 12/28 18:05:30</sup> | # Cont,               |      |       |      |     |     |                    |       |            |          |
| 12/29 06:12:46 - 12/30 09:41:00 | Track ( 857.5, -357.8) <sup>© 12/29 06:10:00</sup> | # Cont,               |      |       |      |     |     |                    |       |            |          |
| Open/Ti-poly                    | Open/thick-Al                                      | close                 | Safe | Norm  | 8ms  | Obs | 8x8 |                    | Q=50  |            | 30sec    |
| Default Filter                  | Thicker Filter                                     | VLS                   | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

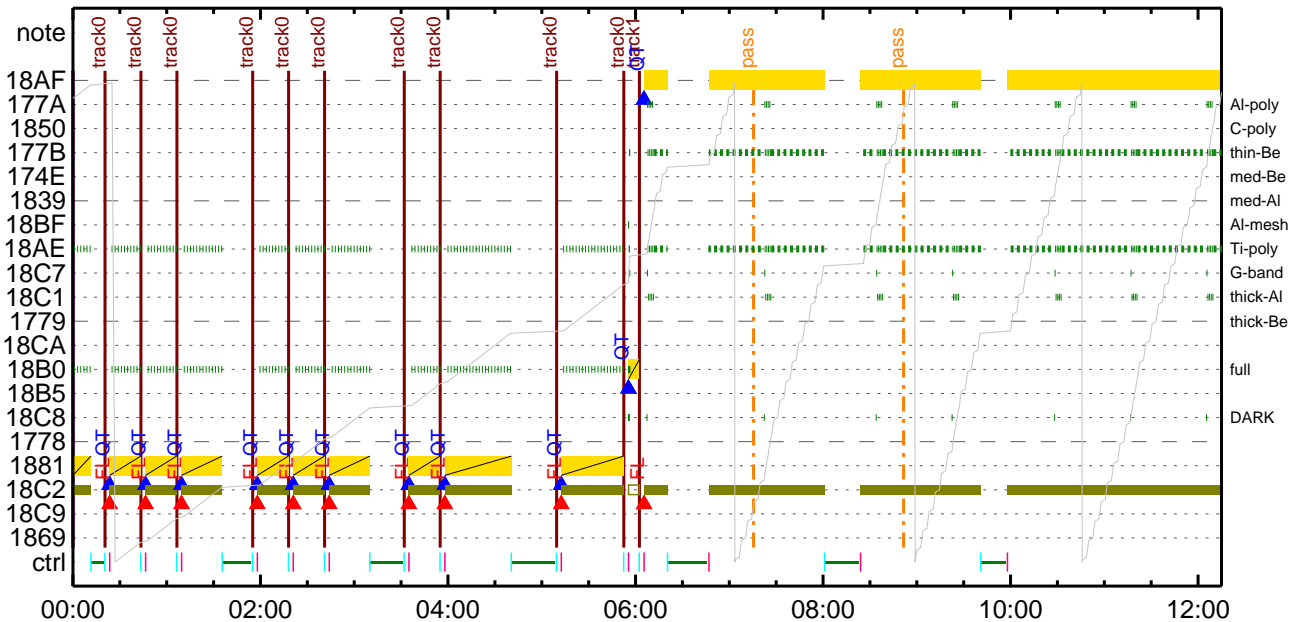
### CMDI #0345 2011/12/27



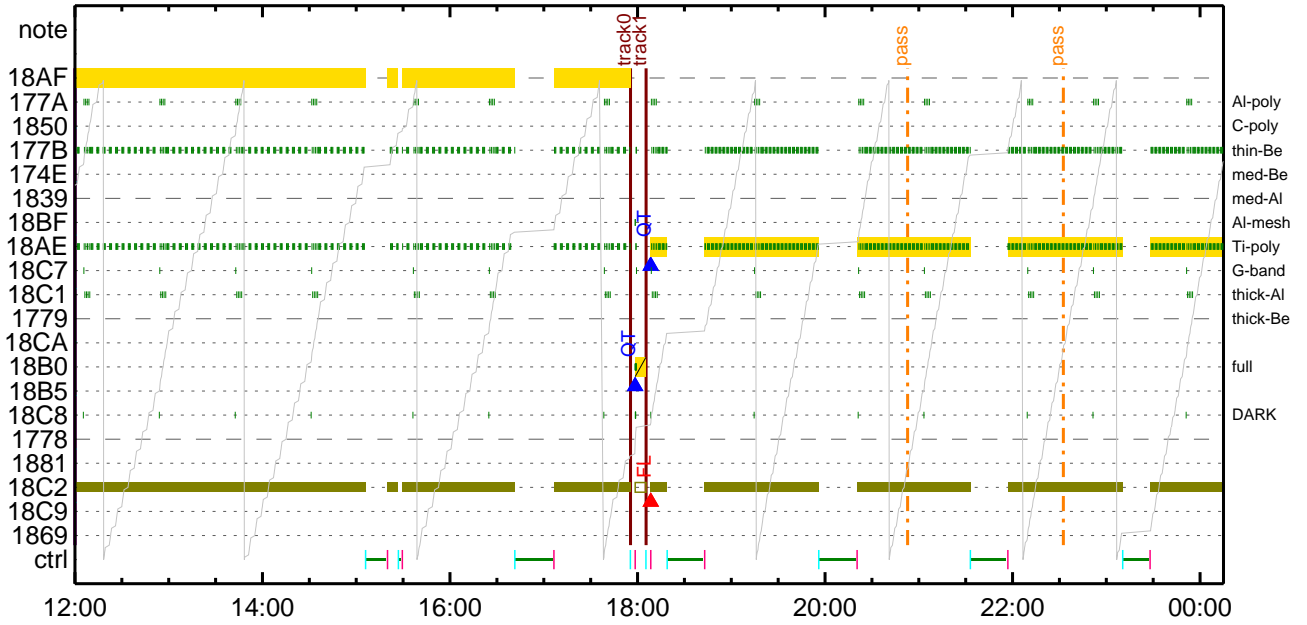
### CMDI #0345 2011/12/27



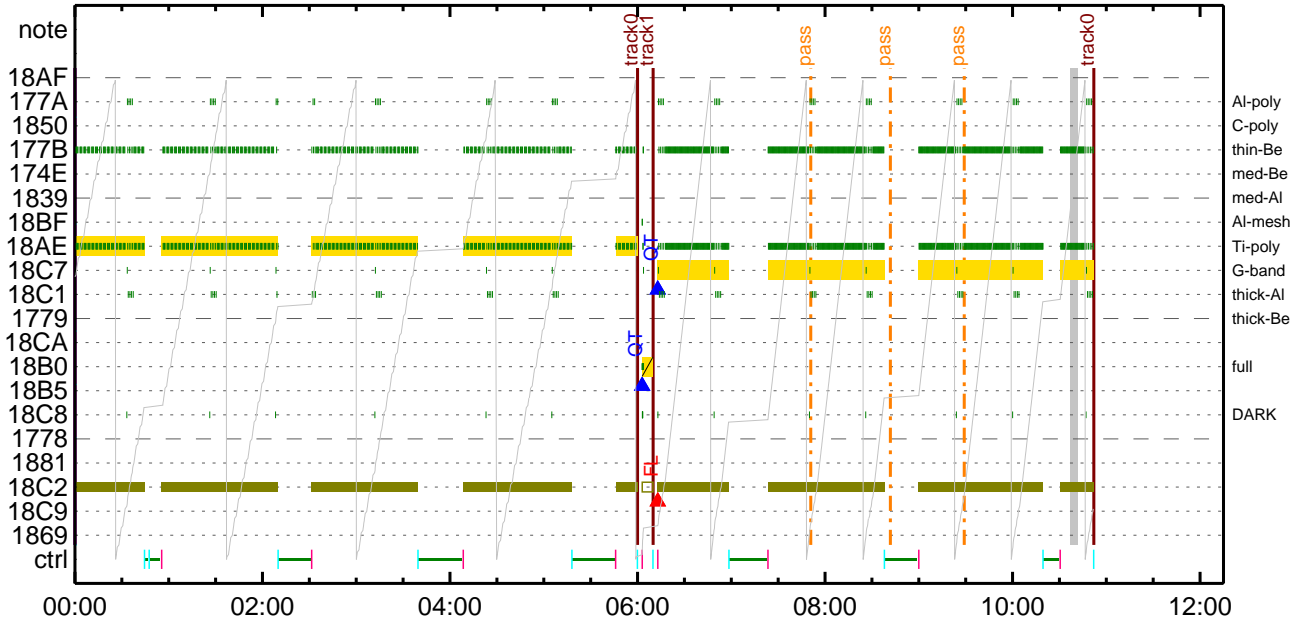
### CMDI #0345 2011/12/28



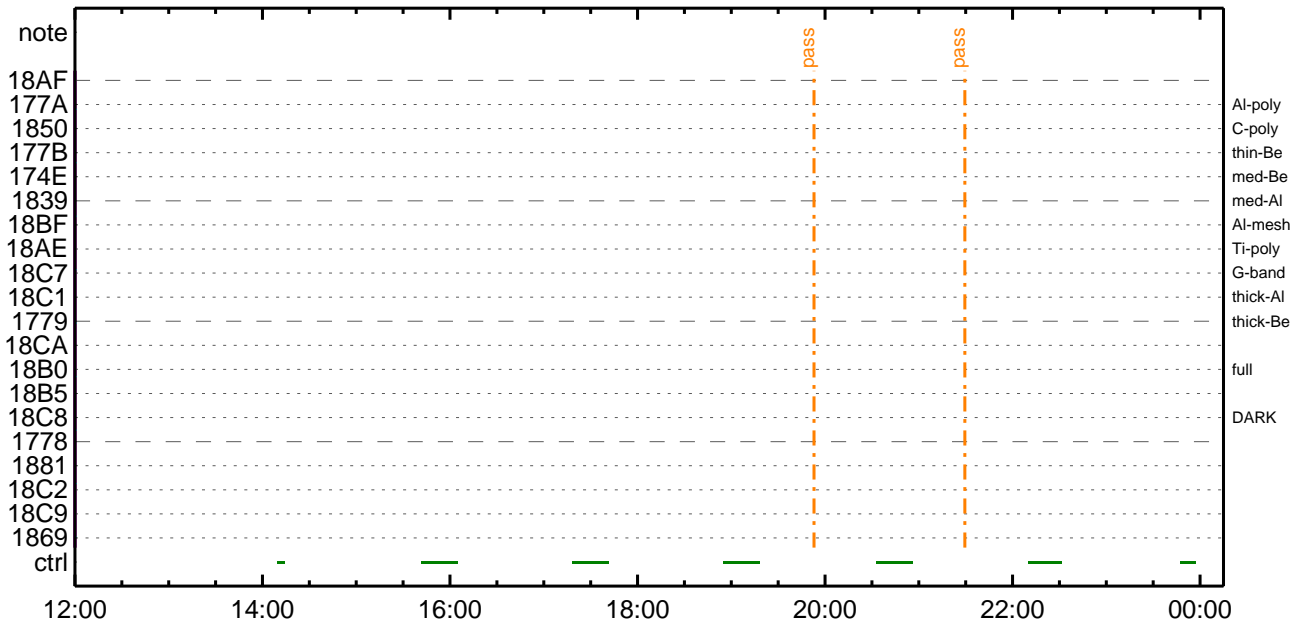
CMDI #0345 2011/12/28



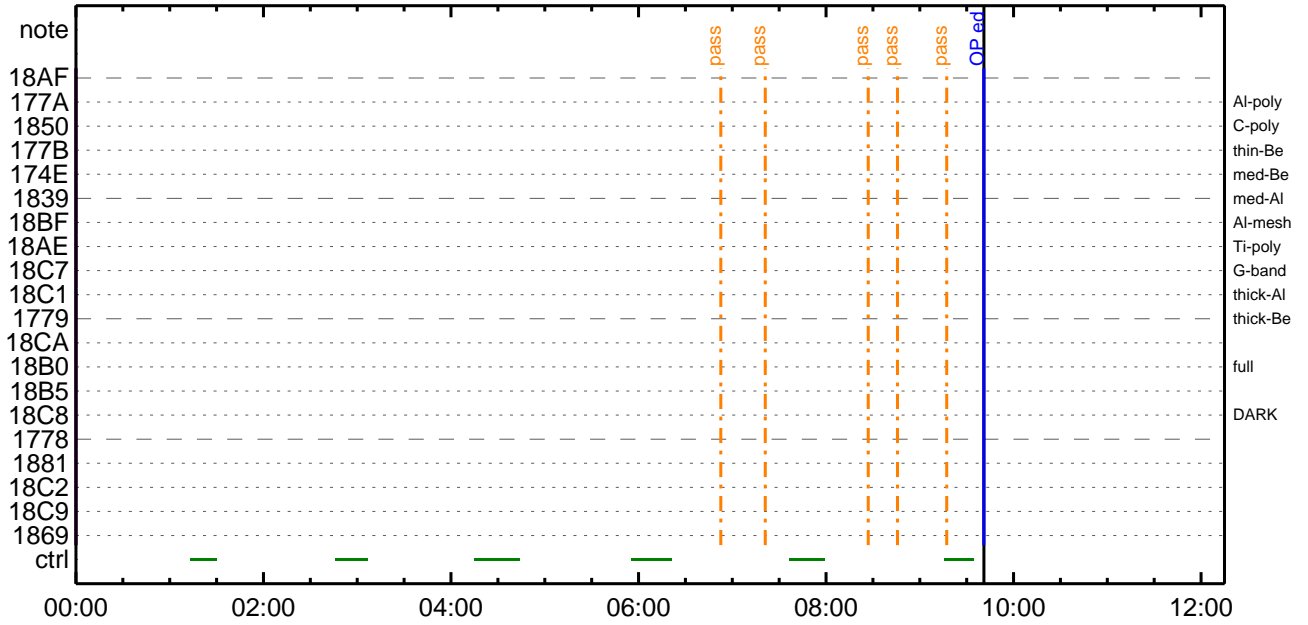
CMDI #0345 2011/12/29



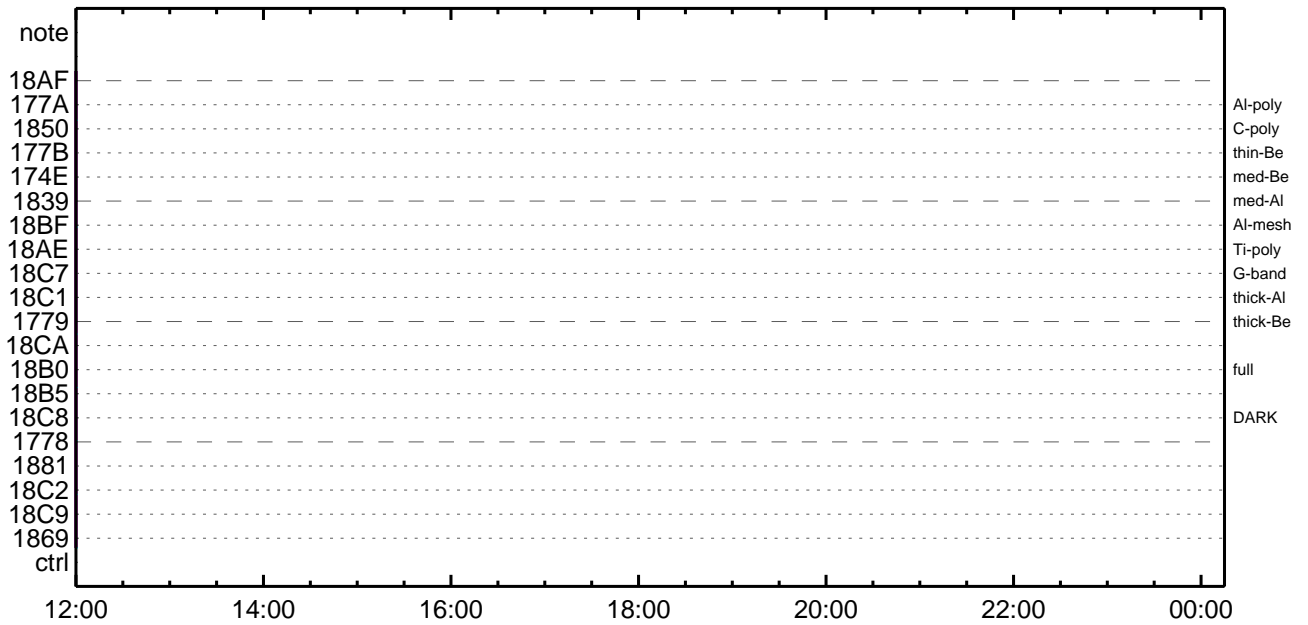
CMDI #0345 2011/12/29



CMDI #0345 2011/12/30



CMDI #0345 2011/12/30









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





(a) Spacecraft Operation Procedure (real-commands)

```
main-558 2011-12-27 12:41:05 172 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YFYóYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÁò•µ°È»Í×ÁÇòíYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÉ;ÈòÈ¼°ÇÓò•ò¿¼í¹çòí;çÀ®, ùò¹òèòòòçÁ+¿®ò•òÈòòò³òÈ;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 0d)
0068 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0069 BC (c5 03)
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 2011-12-27 09:28:02.0
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. SOT table upload
0085 C. *****
0086 . C. < Stop FG table >
0087 +. DC 07-F0 MDP_FG_CTRL_MANU
0088 BC (51)
0089 . C. -----
0090 C. MDP_FG_CTRL_MODE = MANU [ ]
0091 C. -----
0092 C.
0093 . C. <Upload FG Observation Table>
0094 . S. RAM ram-262:MDP_OBS_F
0095 ( )
```

```

0096 C.
0097 . C. < Dump RAMID=MDP_OBS_F >
0098 +. DC 07-F0 MDP_DUMP_FGTBL
0099 BC (82 07 00 00 00 38 b8)
0100 C. -----
0101 C. MDP_OBS_F verify = OK/NG [ ]
0102 C. -----
0103 C.
0104 . C. < Stop SP table >
0105 +. DC 07-F0 MDP_SP_CTRL_MANU
0106 BC (61)
0107 C. -----
0108 C. MDP_SP_CTRL_MODE = MANU [ ]
0109 C. -----
0110 C.
0111 . C. <Upload SP Observation Table>
0112 . S. RAM ram-281:MDP_OBS_S
0113 ( )
0114 C.
0115 . C. < Dump RAMID=MDP_OBS_S >
0116 +. DC 07-F0 MDP_DUMP_SPTBL
0117 BC (83 07 00 00 00 38 b8)
0118 C. -----
0119 C. MDP_OBS_S verify = OK/NG [ ]
0120 C. -----
0121 C.
0122 . C. < Upload DPL table >
0123 C.
0124 C. STS_CHKONOFFnēnē
0125 C.
0126 . S. RAM ram-271:MDP_DPL
0127 ( )
0128 C.
0129 . C. < Dump RAMID=MDP_DPL >
0130 +. DC 07-F0 MDP_DUMP_FGTBL
0131 BC (82 07 00 38 b8 00 40)
0132 C. -----
0133 C. MDP_DPL verify = OK [ ]
0134 C. -----
0135 C.
0136 C. STS_CHKONONnēnē
0137 C.
0138 . C. < Update MDP DSC PAR1 >
0139 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0140 BC (4c)
0141 C. MDP_CMD_CODE = F04C0700 [ ]
0142 C. MDP_CMD_CNT (count-up 1) [ ]
0143 C. -----
0144 C.
0145 . C.
0146 C. *****
0147 C. SOT TI command set
0148 C. *****
0149 C. Execute, after the success of TBL upload.
0150 +. TI 2011-12-27 09:28:18.0
0151 DC 07-F0 MDP_SOT_MODE_OBSV
0152 BC (40)
0153 C. -----
0154 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0155 C. -----
0156 C.
0157 C.
0158 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÄñ¹ñēDCBC•x²è *****
0159 C. (¼ã°î¼ÝñÊÄñ¹ñēDCBC•x²è)
0160 . S. DC-BC dcbc-402:DCBC
0161 (MDP_known_event)
0162 C.
0163 C.
0164 . C. ***** ¼DÝ¹•İ Daily±¼İññ'Øñ¹ñēDCBC•x²è *****
0165 . S. DC-BC dcbc-153:DCBC
0166 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0167 C.
0168 C.
0169 . C. ;ãLOS¼ÝñÊÄñ¹ñēDCBC•x²è
0170 C.
0171 . C. ***** LOS *****
0172 C.

```

Dec 27, 11 12:42

XRT\_OGLIST\_0345.chk

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

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2011/12/27 | 09:38:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 09:39:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2011/12/27 | 09:41:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2011/12/27 | 09:41:46.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 09:41:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/12/27 | 09:41:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/12/27 | 09:41:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 09:41:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 09:41:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |  |  |  |  |
| 2011/12/27 | 09:41:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |  |  |
| 2011/12/27 | 09:42:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 10:46:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 10:46:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 10:46:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/12/27 | 10:48:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/12/27 | 10:49:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/12/27 | 10:49:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 14:31:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 14:31:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 14:31:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/12/27 | 14:34:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/12/27 | 14:41:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/12/27 | 14:42:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 16:05:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 16:05:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 16:05:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/12/27 | 16:08:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/12/27 | 16:29:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/12/27 | 16:30:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 17:42:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 17:42:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 17:42:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/12/27 | 17:45:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/12/27 | 18:05:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 18:05:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 18:06:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2011/12/27 | 18:06:16.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2011/12/27 | 18:06:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2011/12/27 | 18:06:20.0 | XRT_ARS_DIS_438_OG [0x1b6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 18:08:58.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2011/12/27 | 18:09:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 18:29:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 18:30:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 54 00 00 e5 |  |  |  |  |
| 2011/12/27 | 18:32:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 18:32:46.0 | XRT_FLD_ENA_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 18:32:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/12/27 | 18:32:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2011/12/27 | 18:32:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 18:32:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 18:32:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2011/12/27 | 18:32:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |  |  |
| 2011/12/27 | 18:33:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 18:52:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 18:53:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 4c 72 00 e5 |  |  |  |  |
| 2011/12/27 | 18:55:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 18:55:46.0 | XRT_FLD_ENA_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 18:55:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/12/27 | 18:55:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/12/27 | 18:55:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 18:55:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 18:55:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2011/12/27 | 18:55:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |  |  |
| 2011/12/27 | 18:56:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 19:19:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 19:19:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 19:19:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/12/27 | 19:22:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/12/27 | 19:43:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 19:43:30.0 | AOCS_ORe-point_Start_5_OG [0x09b] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 43 8d 00 e5 |  |  |  |  |
| 2011/12/27 | 19:45:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 19:46:16.0 | XRT_FLD_ENA_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 19:46:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/12/27 | 19:46:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/12/27 | 19:46:22.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 19:46:24.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 19:46:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2011/12/27 | 19:46:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |  |  |
| 2011/12/27 | 19:46:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 20:06:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 20:06:30.0 | AOCS_ORe-point_Start_6_OG [0x09c] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 3a a7 00 e5 |  |  |  |  |
| 2011/12/27 | 20:08:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 20:09:16.0 | XRT_FLD_ENA_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 20:09:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/12/27 | 20:09:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/12/27 | 20:09:22.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/12/27 | 20:09:24.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/12/27 | 20:09:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2011/12/27 | 20:09:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |  |  |
| 2011/12/27 | 20:09:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/12/27 | 20:29:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/12/27 | 20:29:30.0 | AOCS_ORe-point_Start_7_OG [0x09d] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 31 ca 00 e5 |  |  |  |  |
| 2011/12/27 | 20:31:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/12/27 | 20:32:16.0 | XRT_FLD_ENA_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/12/27 | 20:32:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    |   |       |                |  |  |  |  |

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|            |            |                                    |                     |   |       |    |    |    |    |    |
|------------|------------|------------------------------------|---------------------|---|-------|----|----|----|----|----|
| 2011/12/27 | 20:32:20.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
|            |            |                                    | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/27 | 20:32:22.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/27 | 20:32:24.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 20:32:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/27 | 20:32:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/27 | 20:32:30.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/27 | 20:56:30.0 | XRT_CTRL_MANU_408_OG [0x198]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/27 | 20:56:32.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 20:56:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2011/12/27 | 20:59:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2011/12/27 | 21:20:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/27 | 21:21:00.0 | AOCS_OrE-point_Start_8_OG [0x09e]  | AOCU_NM             | 5 | 02-76 | 00 | 28 | e5 | 00 | e5 |
| 2011/12/27 | 21:23:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/27 | 21:23:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/27 | 21:23:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/27 | 21:23:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/27 | 21:23:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/27 | 21:23:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 21:23:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/27 | 21:23:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/27 | 21:24:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/27 | 21:43:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/27 | 21:44:00.0 | AOCS_OrE-point_Start_9_OG [0x09f]  | AOCU_NM             | 5 | 02-76 | 00 | 20 | 00 | 00 | e5 |
| 2011/12/27 | 21:46:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/27 | 21:46:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/27 | 21:46:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/27 | 21:46:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/27 | 21:46:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/27 | 21:46:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 21:46:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/27 | 21:46:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/27 | 21:47:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/27 | 22:06:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/27 | 22:07:00.0 | AOCS_OrE-point_Start_10_OG [0x0a0] | AOCU_NM             | 5 | 02-76 | 00 | 17 | 1a | 00 | e5 |
| 2011/12/27 | 22:09:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/27 | 22:09:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/27 | 22:09:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/27 | 22:09:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/27 | 22:09:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/27 | 22:09:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 22:09:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/27 | 22:09:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/27 | 22:10:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/27 | 22:34:00.0 | XRT_CTRL_MANU_408_OG [0x198]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/27 | 22:34:02.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/27 | 22:34:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |



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|            |            |                                    |                     |   |       |                |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2011/12/27 | 22:37:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2011/12/27 | 22:55:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/12/27 | 22:56:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1] | AOCU_NM             | 5 | 02-76 | 00 0e 35 00 e5 |
| 2011/12/27 | 22:58:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/27 | 22:58:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2011/12/27 | 22:58:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/12/27 | 22:58:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/12/27 | 22:58:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/12/27 | 22:58:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/12/27 | 22:58:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |
| 2011/12/27 | 22:58:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 03          |
| 2011/12/27 | 22:59:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/12/27 | 23:18:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/12/27 | 23:19:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2] | AOCU_NM             | 5 | 02-76 | 00 05 58 00 e5 |
| 2011/12/27 | 23:21:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/27 | 23:21:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2011/12/27 | 23:21:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/12/27 | 23:21:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/12/27 | 23:21:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/12/27 | 23:21:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/12/27 | 23:21:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |
| 2011/12/27 | 23:21:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 03          |
| 2011/12/27 | 23:22:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/12/27 | 23:41:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/12/27 | 23:42:00.0 | AOCS_ORe-point_Start_13_OG [0x0a3] | AOCU_NM             | 5 | 02-76 | 00 fd 59 00 e5 |
| 2011/12/27 | 23:44:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/27 | 23:44:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2011/12/27 | 23:44:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/12/27 | 23:44:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/12/27 | 23:44:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/12/27 | 23:44:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/12/27 | 23:44:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |
| 2011/12/27 | 23:44:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 03          |
| 2011/12/27 | 23:45:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/12/28 | 00:11:30.0 | XRT_CTRL_MANU_408_OG [0x198]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/12/28 | 00:11:32.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/12/28 | 00:11:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2011/12/28 | 00:14:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2011/12/28 | 00:20:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/12/28 | 00:20:30.0 | AOCS_ORe-point_Start_14_OG [0x0a4] | AOCU_NM             | 5 | 02-76 | 00 f4 73 00 e5 |
| 2011/12/28 | 00:22:56.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/28 | 00:23:16.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2011/12/28 | 00:23:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/12/28 | 00:23:20.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/12/28 | 00:23:22.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/12/28 | 00:23:24.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/12/28 | 00:23:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     |                     |   |       |                |

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|            |            |                                    |                     |   |       |    |             |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|
| 2011/12/28 | 00:23:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04          |
|            |            |                                    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2011/12/28 | 00:23:30.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2011/12/28 | 00:43:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2011/12/28 | 00:43:30.0 | AOCS_Ore-point_Start_15_OG [0x0a5] | AOCU_NM             | 5 | 02-76 | 00 | eb 8e 00 e5 |
| 2011/12/28 | 00:45:56.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2011/12/28 | 00:46:16.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2011/12/28 | 00:46:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2011/12/28 | 00:46:20.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2011/12/28 | 00:46:22.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2011/12/28 | 00:46:24.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2011/12/28 | 00:46:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04          |
| 2011/12/28 | 00:46:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2011/12/28 | 00:46:30.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2011/12/28 | 01:06:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2011/12/28 | 01:06:30.0 | AOCS_Ore-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 00 | e2 a8 00 e5 |
| 2011/12/28 | 01:08:56.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2011/12/28 | 01:09:16.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2011/12/28 | 01:09:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2011/12/28 | 01:09:20.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2011/12/28 | 01:09:22.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2011/12/28 | 01:09:24.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2011/12/28 | 01:09:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04          |
| 2011/12/28 | 01:09:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2011/12/28 | 01:09:30.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2011/12/28 | 01:35:30.0 | XRT_CTRL_MANU_408_OG [0x198]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2011/12/28 | 01:35:32.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2011/12/28 | 01:35:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2011/12/28 | 01:38:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2011/12/28 | 01:54:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2011/12/28 | 01:55:00.0 | AOCS_Ore-point_Start_17_OG [0x0a7] | AOCU_NM             | 5 | 02-76 | 00 | d9 cb 00 e5 |
| 2011/12/28 | 01:57:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2011/12/28 | 01:57:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2011/12/28 | 01:57:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2011/12/28 | 01:57:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2011/12/28 | 01:57:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2011/12/28 | 01:57:54.0 | XRT_FLD_RESET_412_OG [0x19c]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2011/12/28 | 01:57:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04          |
| 2011/12/28 | 01:57:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2011/12/28 | 01:58:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2011/12/28 | 02:17:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2011/12/28 | 02:18:00.0 | AOCS_Ore-point_Start_18_OG [0x0a8] | AOCU_NM             | 5 | 02-76 | 00 | d0 e6 00 e5 |
| 2011/12/28 | 02:20:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2011/12/28 | 02:20:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2011/12/28 | 02:20:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2011/12/28 | 02:20:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2011/12/28 | 02:20:52.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |

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|            |            |                                    |   |       |    |    |    |    |    |
|------------|------------|------------------------------------|---|-------|----|----|----|----|----|
| 2011/12/28 | 02:20:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 02:20:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/28 | 02:20:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/28 | 02:21:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/28 | 02:40:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 02:41:00.0 | AOCS_ORe-point_Start_19_OG [0x0a9] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 | c8 | 01 | 00 | e5 |
| 2011/12/28 | 02:43:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/28 | 02:43:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/28 | 02:43:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/28 | 02:43:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/28 | 02:43:52.0 | XRT_ARS_DIS_431_OG [0x1af]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/28 | 02:43:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 02:43:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/28 | 02:43:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/28 | 02:44:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/28 | 03:10:00.0 | XRT_CTRL_MANU_408_OG [0x198]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 03:10:02.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 03:10:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8 |    |    |    |    |
| 2011/12/28 | 03:13:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9 |    |    |    |    |
| 2011/12/28 | 03:31:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 03:32:00.5 | AOCS_ORe-point_Start_20_OG [0x0aa] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 | bf | 1b | 00 | e5 |
| 2011/12/28 | 03:34:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/28 | 03:34:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/28 | 03:34:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/28 | 03:34:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/28 | 03:34:52.0 | XRT_ARS_DIS_431_OG [0x1af]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/28 | 03:34:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 03:34:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/28 | 03:34:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/28 | 03:35:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/28 | 03:54:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 03:55:00.0 | AOCS_ORe-point_Start_21_OG [0x0ab] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 | b6 | 36 | 00 | e5 |
| 2011/12/28 | 03:57:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]  |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/28 | 03:57:46.0 | XRT_FLD_ENA_435_OG [0x1b3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8 |    |    |    |    |
| 2011/12/28 | 03:57:48.0 | XRT_FLRCTRL_ENA_403_OG [0x193]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8 |    |    |    |    |
| 2011/12/28 | 03:57:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0 |    |    |    |    |
| 2011/12/28 | 03:57:52.0 | XRT_ARS_DIS_431_OG [0x1af]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5 |    |    |    |    |
| 2011/12/28 | 03:57:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 03:57:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2011/12/28 | 03:57:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 | 03 |    |    |    |
| 2011/12/28 | 03:58:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0 |    |    |    |    |
| 2011/12/28 | 04:40:30.0 | XRT_CTRL_MANU_408_OG [0x198]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 04:40:32.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da |    |    |    |    |
| 2011/12/28 | 04:40:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8 |    |    |    |    |
| 2011/12/28 | 04:43:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9 |    |    |    |    |
| 2011/12/28 | 05:09:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2011/12/28 | 05:09:30.5 | AOCS_ORe-point_Start_22_OG [0x0ac] |   |       |    |    |    |    |    |

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|            |            |                                   |                     |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|----|
| 2011/12/28 | 05:11:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | AOCU_NM             | 5 | 02-76 | 00 | ad | 59 | 00 | e5 |
|            |            | XRT_FOCUS_POSITION                |                     | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/28 | 05:12:16.0 | XRT_FLD_ENA_435_OG [0x1b3]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |    |    |
| 2011/12/28 | 05:12:18.0 | XRT_FLRCTRL_ENA_403_OG [0x193]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |    |    |
| 2011/12/28 | 05:12:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |    |    |
| 2011/12/28 | 05:12:22.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/12/28 | 05:12:24.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/12/28 | 05:12:26.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 04 |    |    |
| 2011/12/28 | 05:12:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 03 |    |    |
| 2011/12/28 | 05:12:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 05:52:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 05:52:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/12/28 | 05:52:30.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2011/12/28 | 05:52:46.0 | XRT_FLD_DIS_402_OG [0x192]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 |    | d9 |    |    |    |
| 2011/12/28 | 05:52:48.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 |    | c9 |    |    |    |
| 2011/12/28 | 05:52:50.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/12/28 | 05:55:28.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 08 |    |    |
| 2011/12/28 | 05:55:30.5 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 06:02:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 06:02:30.0 | AOCS_ORe-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 | 00 |
| 2011/12/28 | 06:04:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2011/12/28 | 06:05:16.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |    |    |
| 2011/12/28 | 06:05:18.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |    |    |
| 2011/12/28 | 06:05:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |    |    |
| 2011/12/28 | 06:05:22.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/12/28 | 06:05:24.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/12/28 | 06:05:26.0 | XRT_QT_PROG_SET_449_OG [0x1c1]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 14 |    |    |
| 2011/12/28 | 06:05:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 03 |    |    |
| 2011/12/28 | 06:05:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 06:20:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 06:20:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/12/28 | 06:20:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |    |    |
| 2011/12/28 | 06:23:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |    |    |
| 2011/12/28 | 06:46:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/12/28 | 06:47:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 08:01:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 08:01:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/12/28 | 08:01:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |    |    |
| 2011/12/28 | 08:04:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |    |    |
| 2011/12/28 | 08:23:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/12/28 | 08:24:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 09:41:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 09:41:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/12/28 | 09:41:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |    |    |
| 2011/12/28 | 09:44:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |    |    |
| 2011/12/28 | 09:57:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/12/28 | 09:58:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/12/28 | 15:06:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/12/28 | 15:06:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |                     |   |       |    |    |    |    |    |

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|            |            |                                   |                                   |   |       |                |
|------------|------------|-----------------------------------|-----------------------------------|---|-------|----------------|
| 2011/12/28 | 15:06:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 15:09:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/28 | 15:19:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 15:20:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 15:27:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 15:27:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 15:27:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/28 | 15:28:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 15:29:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 15:30:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 16:41:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 16:41:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/28 | 16:41:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 16:44:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 17:05:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 17:06:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/28 | 17:55:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCX_OrE-point_Start_2_OG [0x098] | 5 | 02-76 | 00 00 00 00 00 |
| 2011/12/28 | 17:55:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |
| 2011/12/28 | 17:55:30.0 | AOCX_OrE-point_Start_2_OG [0x098] | XRT_FLD_DIS_402_OG [0x192]        | 1 | 07-F0 | d9             |
| 2011/12/28 | 17:55:46.0 | XRT_FLD_DIS_402_OG [0x192]        | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2011/12/28 | 17:55:48.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2011/12/28 | 17:55:50.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2011/12/28 | 17:58:28.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2011/12/28 | 17:58:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 08          |
| 2011/12/28 | 18:05:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 18:05:30.0 | AOCX_OrE-point_Start_1_OG [0x097] | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 18:07:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |
| 2011/12/28 | 18:08:16.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2011/12/28 | 18:08:18.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2011/12/28 | 18:08:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2011/12/28 | 18:08:22.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2011/12/28 | 18:08:24.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2011/12/28 | 18:08:26.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 18:08:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |
| 2011/12/28 | 18:08:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |
| 2011/12/28 | 18:19:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 18:19:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 18:19:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 18:22:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/28 | 18:42:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 18:43:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 19:56:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 19:56:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/28 | 19:56:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/28 | 19:59:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 20:19:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/28 | 20:20:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/28 | 21:33:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/28 | 21:33:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |

|            |            |                                   |                        |   |       |                |
|------------|------------|-----------------------------------|------------------------|---|-------|----------------|
| 2011/12/28 | 21:33:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/28 | 21:36:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/28 | 21:56:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/28 | 21:57:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/28 | 23:10:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/28 | 23:10:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/28 | 23:10:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/28 | 23:13:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/28 | 23:27:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/28 | 23:28:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 00:44:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 00:44:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 00:44:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 00:47:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 00:47:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 00:47:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 00:47:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 00:47:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 00:50:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 00:54:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/29 | 00:55:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 02:10:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 02:10:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 02:10:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 02:13:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 02:30:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/29 | 02:31:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 03:39:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 03:39:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 03:39:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | da             |
| 2011/12/29 | 03:42:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 04:07:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 04:08:30.5 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 05:18:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/29 | 05:18:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 05:18:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET      | 1 | 07-F0 | da             |
| 2011/12/29 | 05:21:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT    | 1 | 07-F0 | e8             |
| 2011/12/29 | 05:45:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP    | 1 | 07-F0 | e9             |
| 2011/12/29 | 05:46:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/29 | 05:59:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 05:59:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2011/12/29 | 06:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM                | 5 | 02-76 | 00 00 00 00 00 |
| 2011/12/29 | 06:00:16.0 | XRT_FLD_DIS_402_OG [0x192]        | MDP_XRT_FLD_DIS        | 1 | 07-F0 | d9             |
| 2011/12/29 | 06:00:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    | MDP_XRT_FLRCTRL_DIS    | 1 | 07-F0 | c9             |
| 2011/12/29 | 06:00:20.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_ARS_DIS        | 1 | 07-F0 | d5             |
| 2011/12/29 | 06:02:58.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    | MDP_XRT_QT_PROG_SET    | 2 | 07-F0 | c4 08          |
| 2011/12/29 | 06:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO      | 1 | 07-F0 | c0             |
| 2011/12/29 | 06:09:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_MANU      | 1 | 07-F0 | c1             |
| 2011/12/29 | 06:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM                | 5 | 02-76 | 01 00 00 00 00 |
| 2011/12/29 | 06:12:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION     | 4 | 07-F8 | 22 fe 97 00    |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2011/12/29 | 06:12:46.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2011/12/29 | 06:12:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2011/12/29 | 06:12:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2011/12/29 | 06:12:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2011/12/29 | 06:12:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/29 | 06:12:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |
| 2011/12/29 | 06:12:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |
| 2011/12/29 | 06:13:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/29 | 06:58:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/29 | 06:58:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/29 | 06:58:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/29 | 07:01:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/29 | 07:22:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2011/12/29 | 07:23:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/29 | 08:38:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/29 | 08:38:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/29 | 08:38:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/29 | 08:41:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/29 | 08:59:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2011/12/29 | 09:00:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/29 | 10:19:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/29 | 10:19:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2011/12/29 | 10:19:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2011/12/29 | 10:22:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2011/12/29 | 10:29:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2011/12/29 | 10:30:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2011/12/29 | 10:51:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2011/12/29 | 10:52:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |