

# XRT Timeline to be uploaded on 2015/09/19

Period: 2015/09/19 10:16:00 - 2015/09/24 11:03:00

\* \* \* \* \*

Normal mode

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## XOB #1ADB: HOP244 - AR Standard-B(Morphology), Be/thin 240s-cad, multifilter PFB (Be/thin, Be/med), multifilter context, 384x384, 1064x1048, G-band (3

| Term                            | Pointing (x, y)                         | Comment                           |
|---------------------------------|---|-----------------------------------|
| 09/19 10:29:00 - 09/19 17:57:00 | Track ( 476.0, -442.9) @ 09/19 10:26:00 | # OP start + 10min, Track AR12415 |
| 09/19 23:53:00 - 09/20 06:05:24 | Track ( 567.4, -434.5) @ 09/19 23:50:00 | # Track AR12415                   |
| 09/20 06:18:30 - 09/20 07:44:54 | Track ( 608.0, -429.9) @ 09/20 06:15:30 | # Cont,                           |
| 09/20 18:13:00 - 09/21 05:31:00 | Track ( 677.2, -420.7) @ 09/20 18:10:00 | # AR12415                         |

**PROG= 14 Inf.-time(s)**

| Subr= 1       | 1-time(s)             | 2.0sec  |
|---------------|-----------------------|---|
| Seqn= 56      | 1-time(s)             | 2.0sec  |
| Open/G-band   | Open/G-band open      | Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec    |
| Open/G-band   | Open/G-band close     | Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec    |
| Open/Ti-poly  | Open/thick-Al close   | Safe Dark 16.0s Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec  |
| Subr= 2       | 2-time(s)             | 2.0sec  |
| Seqn= 16      | 2-time(s)             | 2.0sec  |
| Open/Ti-poly  | Open/thick-Al close   | Safe Norm 250ms Obs 1x1 384x384 (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  |
| Al-poly/Open  | thin-Be/Open close    | Safe Norm 177ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| C-poly/Open   | C-poly/thick-Al close | Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| thin-Be/Open  | med-Be/Open close     | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| med-Be/Open   | med-Be/Open close     | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| med-Al/Open   | Open/thick-Al close   | Safe Norm 2.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec  |
| Seqn= 31      | 15-time(s)            | 240.0sec  |
| thin-Be/Open  | med-Be/Open close     | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 1 0 15.0sec |
| med-Be/Open   | Open/thick-Al close   | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 1 1 15.0sec |
| thin-Be/Open  | med-Be/Open close     | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 1 2 15.0sec |
| med-Be/Open   | Open/thick-Al close   | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 1 3 15.0sec |

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

## XOB #1AD7: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Ti-poly(24/362/1443) + Al-

| Term                            | Pointing (x, y)   | Comment                     |
|---------------------------------|-------------------|-----------------------------|
| 09/19 18:23:00 - 09/19 18:29:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 20.0 min  |
| 09/20 06:08:30 - 09/20 06:15:24 | Fixed ( 0.0, 0.0) | synoptic, shifted 5.5 min   |
| 09/20 18:03:00 - 09/20 18:09:54 | Fixed ( 0.0, 0.0) | synoptic                    |
| 09/21 06:10:30 - 09/21 06:17:24 | Fixed ( 0.0, 0.0) | synoptic, shifted 7.5 min   |
| 09/21 17:58:30 - 09/21 18:05:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -4.5 min  |
| 09/22 05:43:00 - 09/22 05:49:54 | Fixed ( 0.0, 0.0) | synoptic, shifted -20.0 min |

**PROG= 04 1-time(s)**

| Subr= 1      | 1-time(s)              | 12.0sec  |
|--------------|------------------------|--|
| Seqn= 33     | 1-time(s)              | 4.0sec   |
| Open/Al-mesh | Open/Al-mesh close     | Safe Norm 8ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |
| Open/Al-mesh | Open/Al-mesh close     | Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Open/Al-mesh | Open/Al-mesh close     | Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 5      | 1-time(s)              | 2.0sec   |
| Open/Ti-poly | Open/thick-Al close    | Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close    | Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close    | Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close    | Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec  |
| Open/Ti-poly | Open/thick-Al close    | Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec  |
| Seqn= 18     | 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 354ms 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 |
| Open/Ti-poly | Open/Ti-poly close     | Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 49     | 1-time(s)              | 2.0sec   |
| Al-poly/Open | Al-poly/Open close     | Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |
| Al-poly/Open | Al-poly/Open close     | Safe Norm 354ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Al-poly/Open | Al-poly/thick-Al close | Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 39     | 1-time(s)              | 2.0sec   |
| thin-Be/Open | thin-Be/Open close     | Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |
| thin-Be/Open | thin-Be/Open close     | Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open | thin-Be/Open close     | Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 54     | 1-time(s)              | 2.0sec   |
| Open/G-band  | Open/G-band open       | Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec   |
| Open/G-band  | Open/G-band close      | Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |

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

## XOB #1ADC: AR Al/poly+Thin-Be-384x384-70s cad-AEC2-HOP267+light leak

| Term                            | Pointing (x, y)                       | Comment                       |
|---------------------------------|---------------------------------------|-------------------------------|
| 09/19 18:33:00 - 09/19 23:49:54 | Track ( 4.4, -403.1) @ 09/19 18:30:00 | # HOP267 with IRIS at AR12418 |

**PROG= 16 Inf.-time(s)**

| Subr= 1  | 1-time(s) | 2.0sec  |
|----------|-----------|---------|
| Seqn= 56 | 1-time(s) | 30.0sec |

|         |                  |                |                   |      |                |       |     |     |                      |       |            |          |        |
|---------|------------------|----------------|-------------------|------|----------------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 2 | Open/G-band      | Open/G-band    | open              | Safe | Norm           | 3ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|         | Open/G-band      | Open/G-band    | close             | Safe | Norm           | 3ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|         | Open/Ti-poly     | Open/thick-Al  | close             | Safe | Dark           | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
|         | <b>2-time(s)</b> |                | <b>2.0sec</b>     |      |                |       |     |     |                      |       |            |          |        |
|         | <b>Seqn= 76</b>  |                | <b>30-time(s)</b> |      | <b>70.0sec</b> |       |     |     |                      |       |            |          |        |
|         | Al-poly/Open     | thin-Be/Open   | close             | Safe | Norm           | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|         | thin-Be/Open     | med-Be/Open    | close             | Safe | Norm           | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|         | Default Filter   | Thicker Filter | VLS               | mode | image          | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| <b>XOB #1ADA: CME watch - 4x4 - AEC 2/3 - Be-thin (Be-Med) - Long/Short Pairs - 300s cad</b> |                |  |       |      |       |                       |     |     |                        |       |            |          |        |
|--|----------------|--|-------|------|-------|-----------------------|-----|-----|------------------------|-------|------------|----------|--------|
| Term   |                | Pointing (x, y)                        |       |      |       | Comment               |     |     |                        |       |            |          |        |
| 09/20 07:48:00 - 09/20 10:29:54  |                | Fixed ( 808.0, 412.0)                  |       |      |       | # HOP257 limb spicule |     |     |                        |       |            |          |        |
| 09/21 07:48:00 - 09/21 10:29:54  |                | Fixed ( 834.0, -402.0)                 |       |      |       | # HOP257 limb spicule |     |     |                        |       |            |          |        |
| 09/21 10:40:30 - 09/21 15:29:54  |                | Track ( -89.0, -70.7) @ 09/21 10:30:00 |       |      |       | # EIS CH observation  |     |     |                        |       |            |          |        |
| <b>PROG= 10 Inf.-time(s)</b>   |                |  |       |      |       |                       |     |     |                        |       |            |          |        |
| Subr= 1 12-time(s) 300.0sec  |                |  |       |      |       |                       |     |     |                        |       |            |          |        |
| Seqn= 12 1-time(s) 4.0sec  |                |  |       |      |       |                       |     |     |                        |       |            |          |        |
|  | thin-Be/Open   | med-Be/Open                            | close | Safe | Norm  | 1.41s                 | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
|  | thin-Be/Open   | med-Be/Open                            | close | Safe | Norm  | 1.00s                 | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
|  | Default Filter | Thicker Filter                         | VLS   | mode | image | Exp.                  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

| <b>XOB #1AAC: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 60s cadence, G-band - 384x384 3ms</b> |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
|---|----------------|-----------------------|-------|------|-------|--------------------|-----|-----|----------------------|-------|------------|----------|--------|
| Term  |                | Pointing (x, y)       |       |      |       | Comment            |     |     |                      |       |            |          |        |
| 09/20 10:33:00 - 09/20 17:59:54   |                | Fixed ( -16.0, 874.0) |       |      |       | # HOP206 at N-pole |     |     |                      |       |            |          |        |
| <b>PROG= 20 Inf.-time(s)</b>  |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
| Subr= 1 1-time(s) 2.0sec  |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
| Seqn= 9 2-time(s) 2.0sec  |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
|   | Open/G-band    | Open/G-band           | close | Safe | Norm  | 3ms                | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Subr= 2 1-time(s) 2.0sec  |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
| Seqn= 7 1-time(s) 30.0sec   |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 3ms                | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
| Subr= 3 30-time(s) 2.0sec   |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
| Seqn= 57 1-time(s) 60.0sec  |                |                       |       |      |       |                    |     |     |                      |       |            |          |        |
|   | Open/Al-mesh   | Open/Al-mesh          | close | Safe | Norm  | 4.00s              | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
|   | Al-poly/Open   | Al-poly/Open          | close | Safe | Norm  | 5.66s              | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
|   | Default Filter | Thicker Filter        | VLS   | mode | image | Exp.               | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| <b>XOB #1AD2: HOP244 - AR Standard-B(Morphology), Be/thin 60s-cad, multifilter PFB (Be/thin, Be/med), multifilter context, 384x384, 1064x1048, G-band (3m</b> |                |   |       |      |       |           |     |     |                      |       |            |          |         |
|---|----------------|---|-------|------|-------|-----------|-----|-----|----------------------|-------|------------|----------|---------|
| Term  |                | Pointing (x, y)                         |       |      |       | Comment   |     |     |                      |       |            |          |         |
| 09/21 06:20:30 - 09/21 07:44:54   |                | Track ( 738.8, -410.5) @ 09/21 06:17:30 |       |      |       | # Cont,   |     |     |                      |       |            |          |         |
| 09/21 15:33:00 - 09/21 17:30:00   |                | Track ( 779.0, -402.1) @ 09/21 15:30:00 |       |      |       | # AR12415 |     |     |                      |       |            |          |         |
| 09/21 18:08:30 - 09/22 01:23:30   |                | Track ( 789.3, -399.7) @ 09/21 18:05:30 |       |      |       | # Cont,   |     |     |                      |       |            |          |         |
| 09/22 05:53:00 - 09/22 09:27:30   |                | Track ( 829.8, -388.4) @ 09/22 05:50:00 |       |      |       | # AR12415 |     |     |                      |       |            |          |         |
| <b>PROG= 17 Inf.-time(s)</b>  |                |   |       |      |       |           |     |     |                      |       |            |          |         |
| Subr= 1 1-time(s) 2.0sec  |                |   |       |      |       |           |     |     |                      |       |            |          |         |
| Seqn= 56 1-time(s) 2.0sec   |                |   |       |      |       |           |     |     |                      |       |            |          |         |
|   | Open/G-band    | Open/G-band                             | open  | Safe | Norm  | 3ms       | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
|   | Open/G-band    | Open/G-band                             | close | Safe | Norm  | 3ms       | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
|   | Open/Ti-poly   | Open/thick-Al                           | close | Safe | Dark  | 16.0s     | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| Subr= 2 2-time(s) 2.0sec  |                |   |       |      |       |           |     |     |                      |       |            |          |         |
| Seqn= 16 2-time(s) 2.0sec   |                |   |       |      |       |           |     |     |                      |       |            |          |         |
|   | Open/Ti-poly   | Open/thick-Al                           | close | Safe | Norm  | 250ms     | Obs | 1x1 | 384x384 (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  |
|   | Al-poly/Open   | thin-Be/Open                            | close | Safe | Norm  | 177ms     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
|   | C-poly/Open    | C-poly/thick-Al                         | close | Safe | Norm  | 250ms     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
|   | thin-Be/Open   | med-Be/Open                             | close | Safe | Norm  | 500ms     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
|   | med-Be/Open    | med-Be/Open                             | close | Safe | Norm  | 1.00s     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
|   | med-Al/Open    | Open/thick-Al                           | close | Safe | Norm  | 2.00s     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Seqn= 31 50-time(s) 60.0sec   |                |   |       |      |       |           |     |     |                      |       |            |          |         |
|   | thin-Be/Open   | med-Be/Open                             | close | Safe | Norm  | 500ms     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 15.0sec |
|   | med-Be/Open    | Open/thick-Al                           | close | Safe | Norm  | 1.00s     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 15.0sec |
|   | thin-Be/Open   | med-Be/Open                             | close | Safe | Norm  | 500ms     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 15.0sec |
|   | med-Be/Open    | Open/thick-Al                           | close | Safe | Norm  | 1.00s     | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 3        | 15.0sec |
|   | Default Filter | Thicker Filter                          | VLS   | mode | image | Exp.      | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

| <b>XOB #1A9C: G-Band Alignment with North Pole Q90 2x2(G-band and VLS=CLS) - 1msec - 5min cadence - Partial Sun-wNGT</b> |                |                     |       |      |       |                          |     |     |                       |       |            |          |        |
|--|----------------|---------------------|-------|------|-------|--------------------------|-----|-----|-----------------------|-------|------------|----------|--------|
| Term   |                | Pointing (x, y)     |       |      |       | Comment                  |     |     |                       |       |            |          |        |
| 09/22 01:43:00 - 09/22 03:39:54  |                | Fixed ( 0.0, 930.0) |       |      |       | # Co-alignment at N-pole |     |     |                       |       |            |          |        |
| <b>PROG= 08 1-time(s)</b>  |                |                     |       |      |       |                          |     |     |                       |       |            |          |        |
| Subr= 1 24-time(s) 300.0sec  |                |                     |       |      |       |                          |     |     |                       |       |            |          |        |
| Seqn= 98 1-time(s) 2.0sec  |                |                     |       |      |       |                          |     |     |                       |       |            |          |        |
|  | Open/G-band    | Open/G-band         | open  | Safe | Norm  | 1ms                      | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90  | 0          | 0        | 2.0sec |
| Seqn= 63 1-time(s) 2.0sec  |                |                     |       |      |       |                          |     |     |                       |       |            |          |        |
|  | Open/G-band    | Open/G-band         | close | Safe | Norm  | 1ms                      | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90  | 0          | 0        | 2.0sec |
|  | Default Filter | Thicker Filter      | VLS   | mode | image | Exp.                     | CCD | Bin | ROI: size (center)    | Comp. | AEC Buffer | Interval |        |

| XOB #1A9D: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec- 8 min cadence-wNGT |  |                      |  |      |      |                          |      |     |                        |  |                 |
|---|--|----------------------|--|------|------|--------------------------|------|-----|------------------------|--|-----------------|
| Term  |  | Pointing (x, y)      |  |      |      | Comment                  |      |     |                        |  |                 |
| 09/22 03:43:00 - 09/22 05:39:54   |  | Fixed ( -945.0, 0.0) |  |      |      | # Co-alignment at E-limb |      |     |                        |  |                 |
| <b>PROG= 13 1-time(s)</b>   |  |                      |  |      |      |                          |      |     |                        |  |                 |
| └─ Subr= 1 15-time(s) 480.0sec  |  |                      |  |      |      |                          |      |     |                        |  |                 |
| └─ Seqn= 19 1-time(s) 2.0sec  |  |                      |  |      |      |                          |      |     |                        |  |                 |
| Open/G-band   |  | Open/G-band open     |  | Safe | Norm | 1ms                      | Obs  | 2x2 | 1536x2048 (1280, 1024) |  | Q=90 0 0 2.0sec |
| └─ Seqn= 43 1-time(s) 2.0sec  |  |                      |  |      |      |                          |      |     |                        |  |                 |
| Open/G-band   |  | Open/G-band close    |  | Safe | Norm | 1ms                      | Obs  | 2x2 | 1536x2048 (1280, 1024) |  | Q=90 0 0 2.0sec |
| Default Filter  |  | Thicker Filter       |  | VLS  | mode | image                    | Exp. | CCD | Bin                    | ROI: size (center) Comp. AEC Buffer Interval |                 |

\* \* \* \* \*

### Flare mode

\* \* \* \* \*

| XOB #1AD3: HOP244 - Flare - singlefilter 6 sec cadence (Be/med), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + Gband (384x384) |  |  |  |      |      |                                   |      |     |                      |  |                 |
|--|--|--|--|------|------|-----------------------------------|------|-----|----------------------|--|-----------------|
| Term   |  | Pointing (x, y)                                    |  |      |      | Comment                           |      |     |                      |  |                 |
| 09/19 10:29:00 - 09/19 17:57:00  |  | Track ( 476.0, -442.9) <sup>Ⓞ 09/19 10:26:00</sup> |  |      |      | # OP start + 10min, Track AR12415 |      |     |                      |  |                 |
| 09/19 23:53:00 - 09/20 06:05:24  |  | Track ( 567.4, -434.5) <sup>Ⓞ 09/19 23:50:00</sup> |  |      |      | # Track AR12415                   |      |     |                      |  |                 |
| 09/20 06:18:30 - 09/20 07:44:54  |  | Track ( 608.0, -429.9) <sup>Ⓞ 09/20 06:15:30</sup> |  |      |      | # Cont,                           |      |     |                      |  |                 |
| 09/20 18:13:00 - 09/21 05:31:00  |  | Track ( 677.2, -420.7) <sup>Ⓞ 09/20 18:10:00</sup> |  |      |      | # AR12415                         |      |     |                      |  |                 |
| 09/21 06:20:30 - 09/21 07:44:54  |  | Track ( 738.8, -410.5) <sup>Ⓞ 09/21 06:17:30</sup> |  |      |      | # Cont,                           |      |     |                      |  |                 |
| 09/21 15:33:00 - 09/21 17:30:00  |  | Track ( 779.0, -402.1) <sup>Ⓞ 09/21 15:30:00</sup> |  |      |      | # AR12415                         |      |     |                      |  |                 |
| 09/21 18:08:30 - 09/22 01:23:30  |  | Track ( 789.3, -399.7) <sup>Ⓞ 09/21 18:05:30</sup> |  |      |      | # Cont,                           |      |     |                      |  |                 |
| 09/22 05:53:00 - 09/22 09:27:30  |  | Track ( 829.8, -388.4) <sup>Ⓞ 09/22 05:50:00</sup> |  |      |      | # AR12415                         |      |     |                      |  |                 |
| <b>PROG= 12 30-time(s)</b>   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| └─ Subr= 1 20-time(s) 2.0sec   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| └─ Seqn= 13 1-time(s) 2.0sec   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| med-Be/Open  |  | med-Be/Open close                                  |  | Safe | Norm | 500ms                             | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 6.0sec |
| └─ Subr= 2 1-time(s) 2.0sec  |  |  |  |      |      |                                   |      |     |                      |  |                 |
| └─ Seqn= 10 1-time(s) 2.0sec   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| med-Al/Open  |  | med-Al/thick-Al close                              |  | Safe | Norm | 500ms                             | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| Open/thick-Be  |  | Open/thick-Be close                                |  | Safe | Norm | 2.00s                             | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| └─ Seqn= 11 1-time(s) 2.0sec   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| Al-poly/Open   |  | Al-poly/thick-Al close                             |  | Safe | Norm | 125ms                             | Obs  | 2x2 | 512x512 (1024, 1024) |  | Q=95 2 0 2.0sec |
| └─ Seqn= 53 1-time(s) 2.0sec   |  |  |  |      |      |                                   |      |     |                      |  |                 |
| Open/G-band  |  | Open/G-band open                                   |  | Safe | Norm | 3ms                               | 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 |                 |

| XOB #1A9B: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) |  |   |  |      |      |                               |      |     |                      |  |                 |
|--|--|---|--|------|------|-------------------------------|------|-----|----------------------|--|-----------------|
| Term   |  | Pointing (x, y)                                   |  |      |      | Comment                       |      |     |                      |  |                 |
| 09/19 18:33:00 - 09/19 23:49:54  |  | Track ( 4.4, -403.1) <sup>Ⓞ 09/19 18:30:00</sup>  |  |      |      | # HOP267 with IRIS at AR12418 |      |     |                      |  |                 |
| 09/20 07:48:00 - 09/20 10:29:54  |  | Fixed ( 808.0, 412.0)                             |  |      |      | # HOP257 limb spicule         |      |     |                      |  |                 |
| 09/20 10:33:00 - 09/20 17:59:54  |  | Fixed ( -16.0, 874.0)                             |  |      |      | # HOP206 at N-pole            |      |     |                      |  |                 |
| 09/21 07:48:00 - 09/21 10:29:54  |  | Fixed ( 834.0, -402.0)                            |  |      |      | # HOP257 limb spicule         |      |     |                      |  |                 |
| 09/21 10:40:30 - 09/21 15:29:54  |  | Track ( -89.0, -70.7) <sup>Ⓞ 09/21 10:30:00</sup> |  |      |      | # EIS CH observation          |      |     |                      |  |                 |
| <b>PROG= 03 30-time(s)</b>   |  |   |  |      |      |                               |      |     |                      |  |                 |
| └─ Subr= 1 20-time(s) 2.0sec   |  |   |  |      |      |                               |      |     |                      |  |                 |
| └─ Seqn= 11 1-time(s) 2.0sec   |  |   |  |      |      |                               |      |     |                      |  |                 |
| Al-poly/Open   |  | Al-poly/thick-Al close                            |  | Safe | Norm | 125ms                         | Obs  | 2x2 | 512x512 (1024, 1024) |  | Q=95 2 0 2.0sec |
| └─ Seqn=100 1-time(s) 10.0sec  |  |   |  |      |      |                               |      |     |                      |  |                 |
| thin-Be/Open   |  | med-Be/Open close                                 |  | Safe | Norm | 125ms                         | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 2 0 2.0sec |
| med-Be/Open  |  | Open/thick-Al close                               |  | Safe | Norm | 250ms                         | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| Open/thick-Al  |  | Open/thick-Be close                               |  | Safe | Norm | 1.00s                         | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec  |  |   |  |      |      |                               |      |     |                      |  |                 |
| └─ Seqn= 10 1-time(s) 2.0sec   |  |   |  |      |      |                               |      |     |                      |  |                 |
| med-Al/Open  |  | med-Al/thick-Al close                             |  | Safe | Norm | 500ms                         | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| Open/thick-Be  |  | Open/thick-Be close                               |  | Safe | Norm | 2.00s                         | Obs  | 1x1 | 384x384 (1024, 1024) |  | Q=95 3 0 2.0sec |
| └─ Seqn= 11 1-time(s) 2.0sec   |  |   |  |      |      |                               |      |     |                      |  |                 |
| Al-poly/Open   |  | Al-poly/thick-Al close                            |  | Safe | Norm | 125ms                         | Obs  | 2x2 | 512x512 (1024, 1024) |  | Q=95 2 0 2.0sec |
| └─ Seqn= 53 1-time(s) 2.0sec   |  |   |  |      |      |                               |      |     |                      |  |                 |
| Open/G-band  |  | Open/G-band open                                  |  | Safe | Norm | 3ms                           | 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

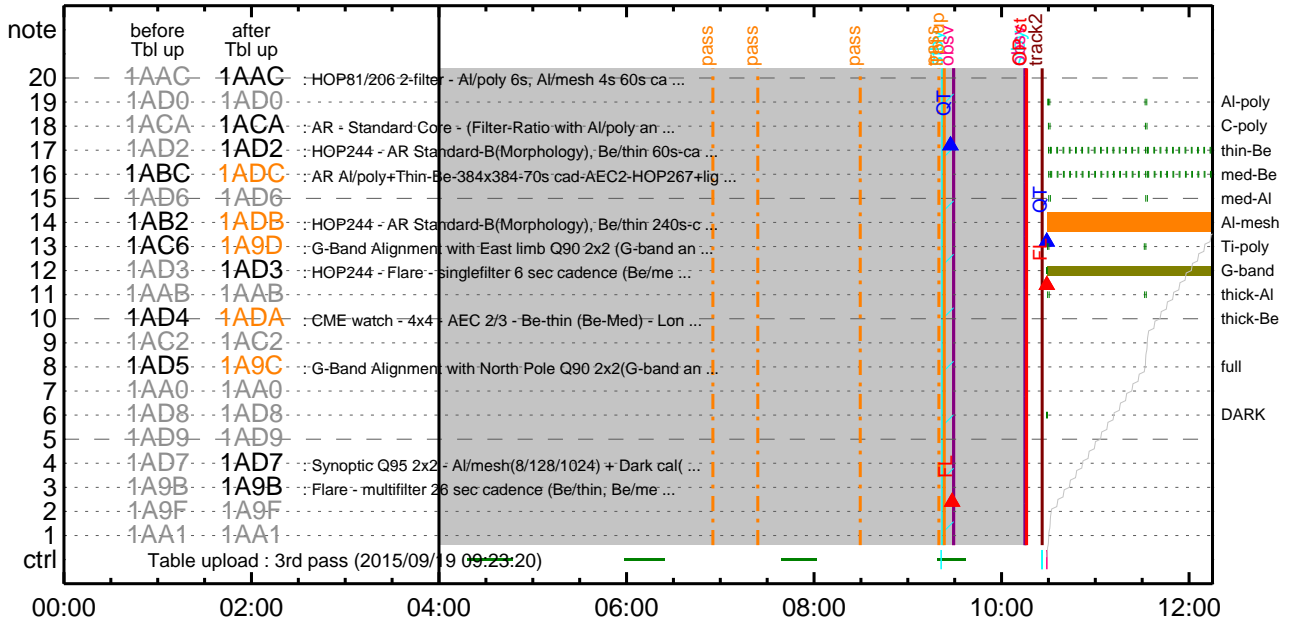
\* \* \* \* \*

| FLD Patrol                      |  |  |  |  |  |                               |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|-------------------------------|--|--|--|--|--|
| Term                            |  | Pointing (x, y)                                    |  |  |  | Comment                       |  |  |  |  |  |
| 09/19 18:30:18 - 09/20 06:05:48 |  | Track ( 4.4, -403.1) <sup>Ⓞ 09/19 18:30:00</sup>   |  |  |  | # HOP267 with IRIS at AR12418 |  |  |  |  |  |
| 09/20 18:10:18 - 09/21 06:10:22 |  | Track ( 677.2, -420.7) <sup>Ⓞ 09/20 18:10:00</sup> |  |  |  | # AR12415                     |  |  |  |  |  |

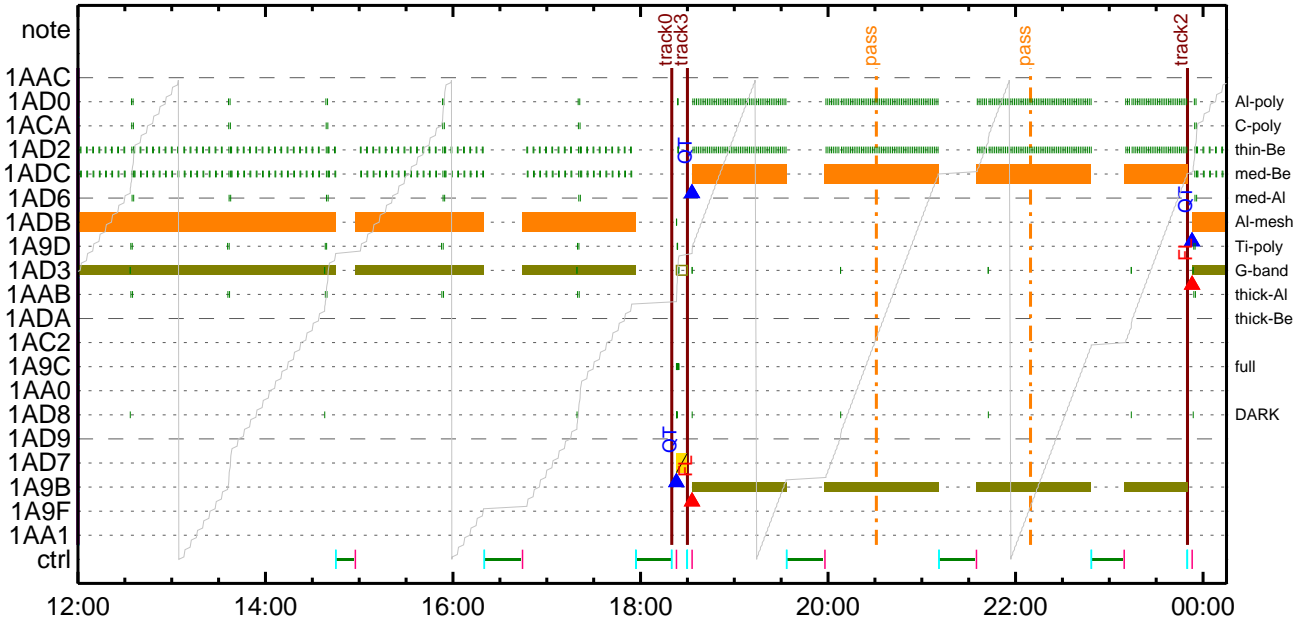
09/21 06:17:48 - 09/21 17:55:48 Track ( 738.8, -410.5) @ 09/21 06:17:30 # Cont,  
 09/21 18:05:48 - 09/22 01:40:18 Track ( 789.3, -399.7) @ 09/21 18:05:30 # Cont,  
 09/22 05:50:18 - 09/24 11:03:00 Track ( 829.8, -388.4) @ 09/22 05:50:00 # AR12415

|                |                |       |      |       |      |     |     |                    |       |                     |
|----------------|----------------|-------|------|-------|------|-----|-----|--------------------|-------|---------------------|
| Open/Ti-poly   | Open/thick-Al  | close | Safe | Norm  | 8ms  | Obs | 8x8 |                    | Q=50  | 80sec               |
| Default Filter | Thicker Filter | VLS   | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer Interval |

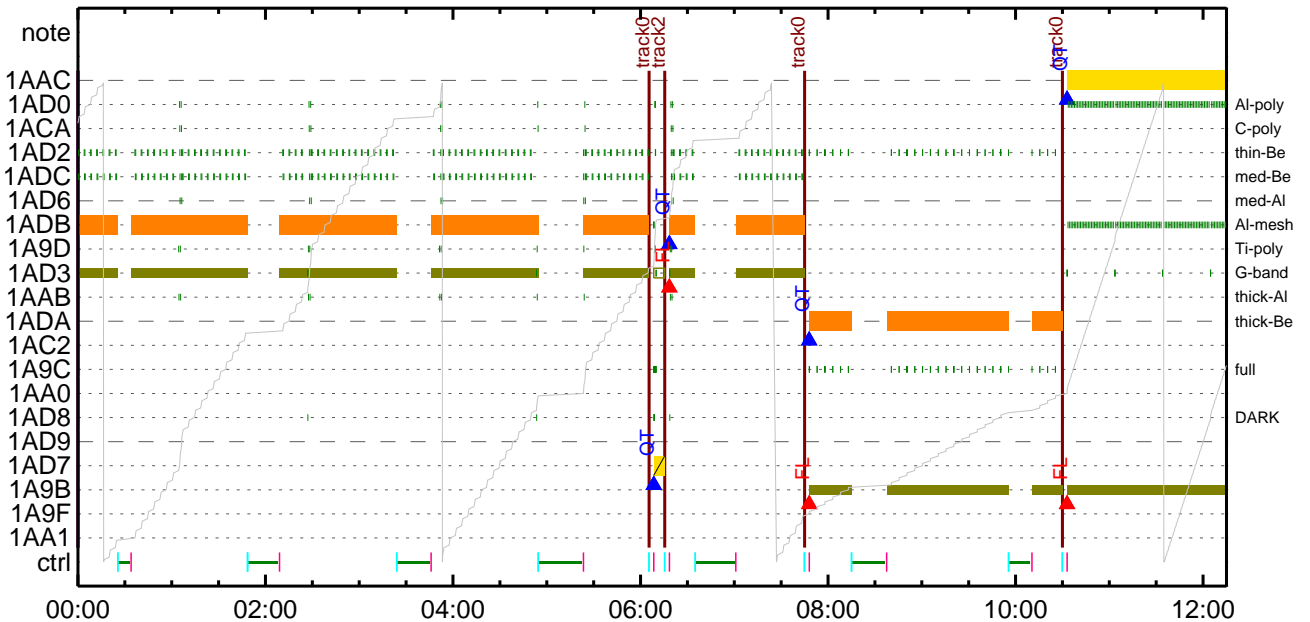
### CMDI #0406 2015/09/19



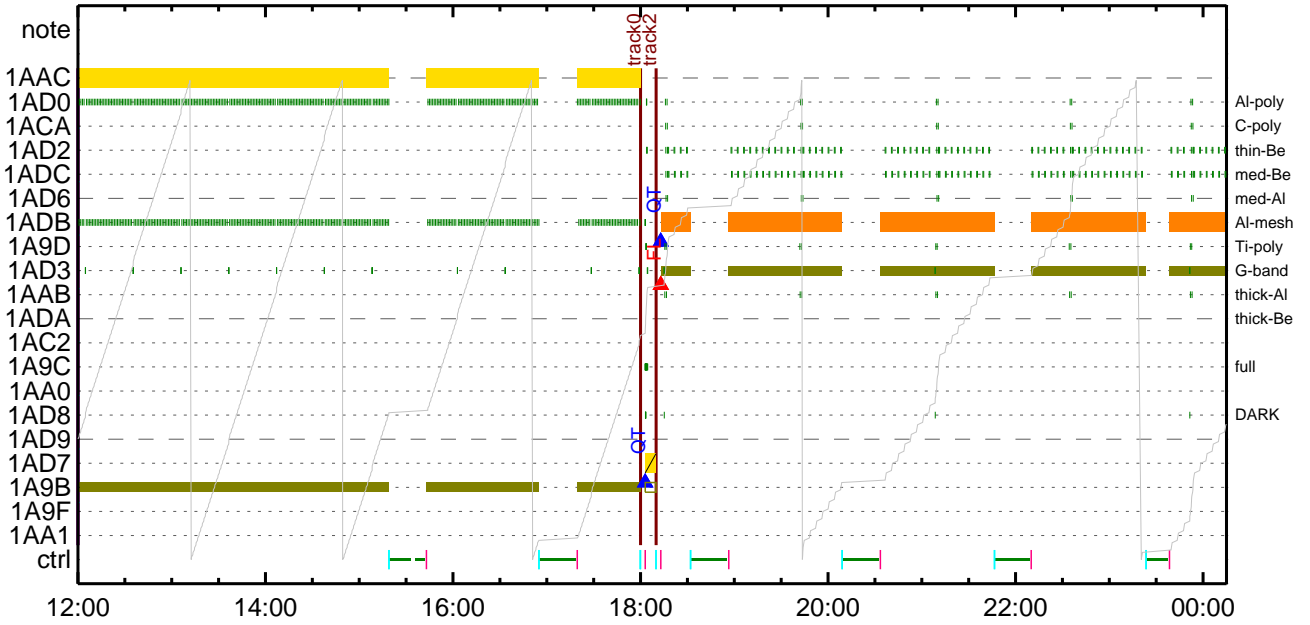
### CMDI #0406 2015/09/19



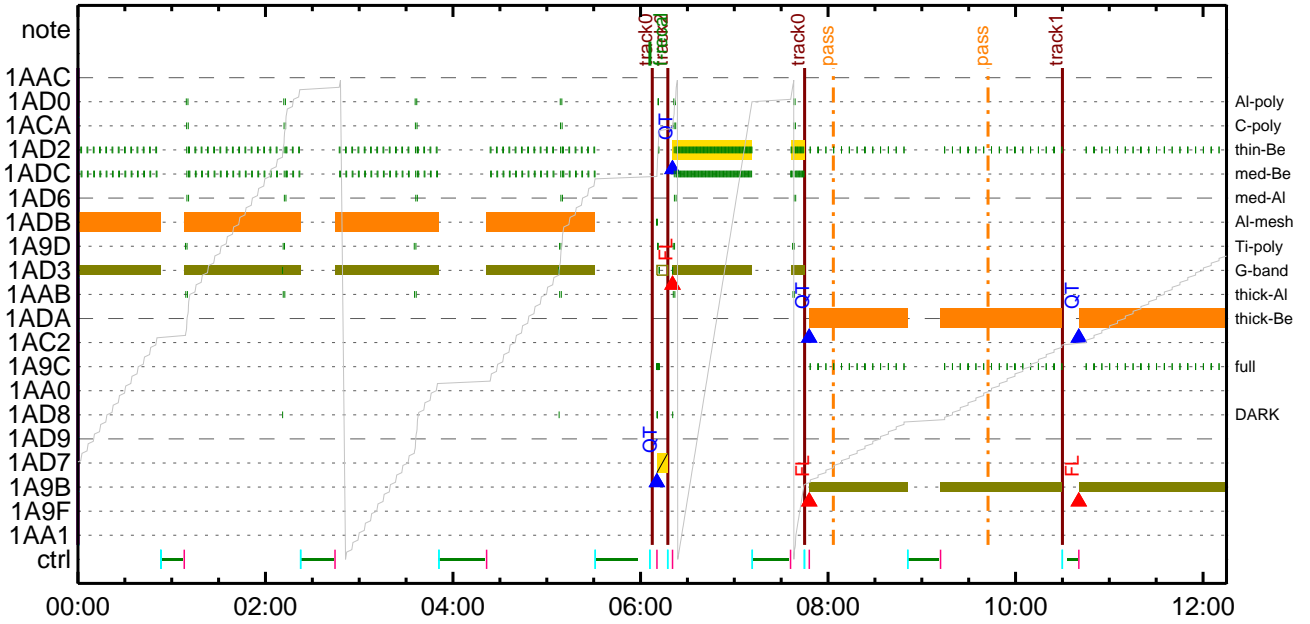
### CMDI #0406 2015/09/20



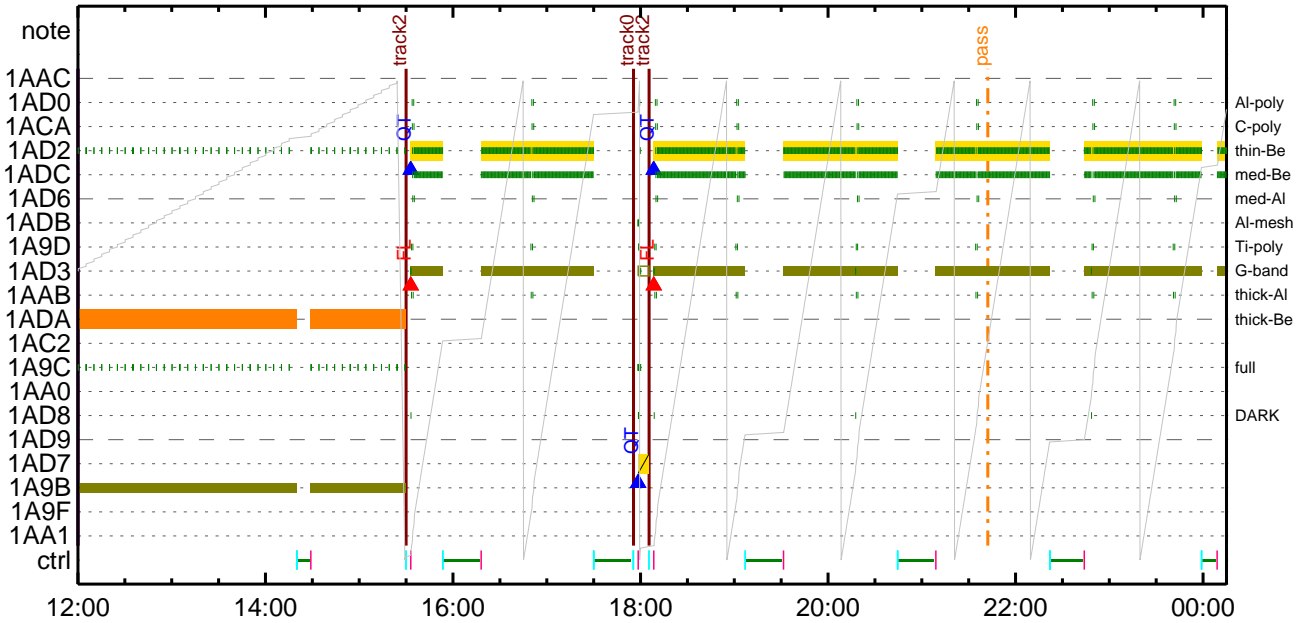
CMDI #0406 2015/09/20



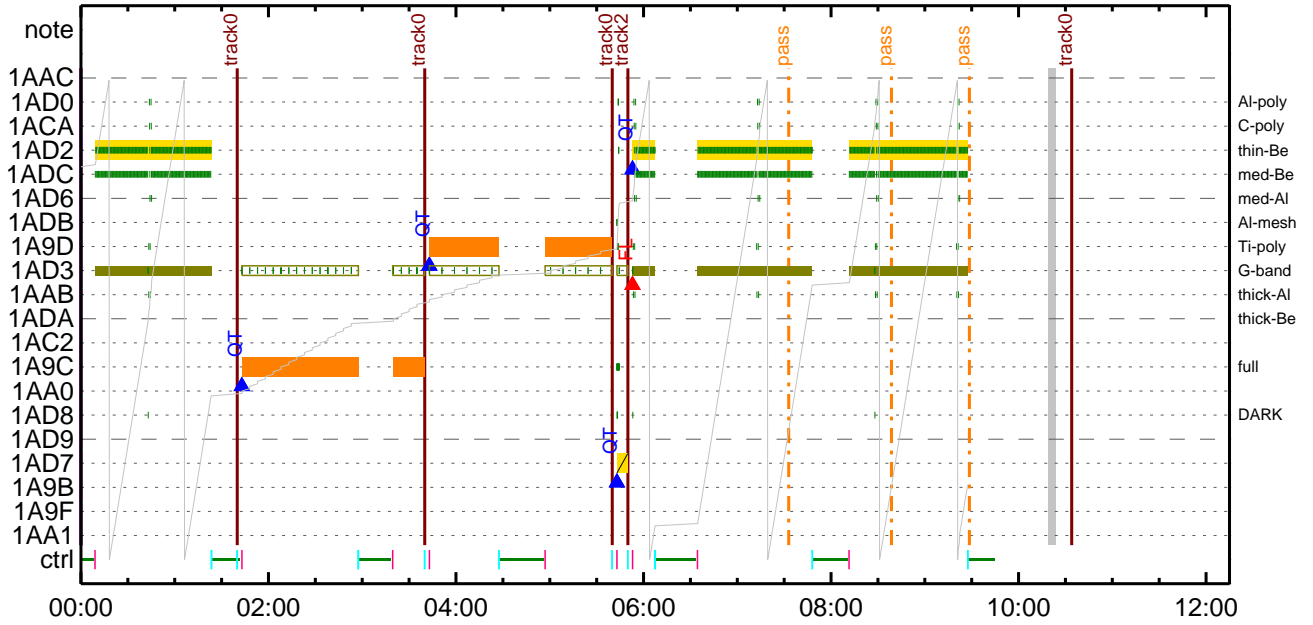
CMDI #0406 2015/09/21



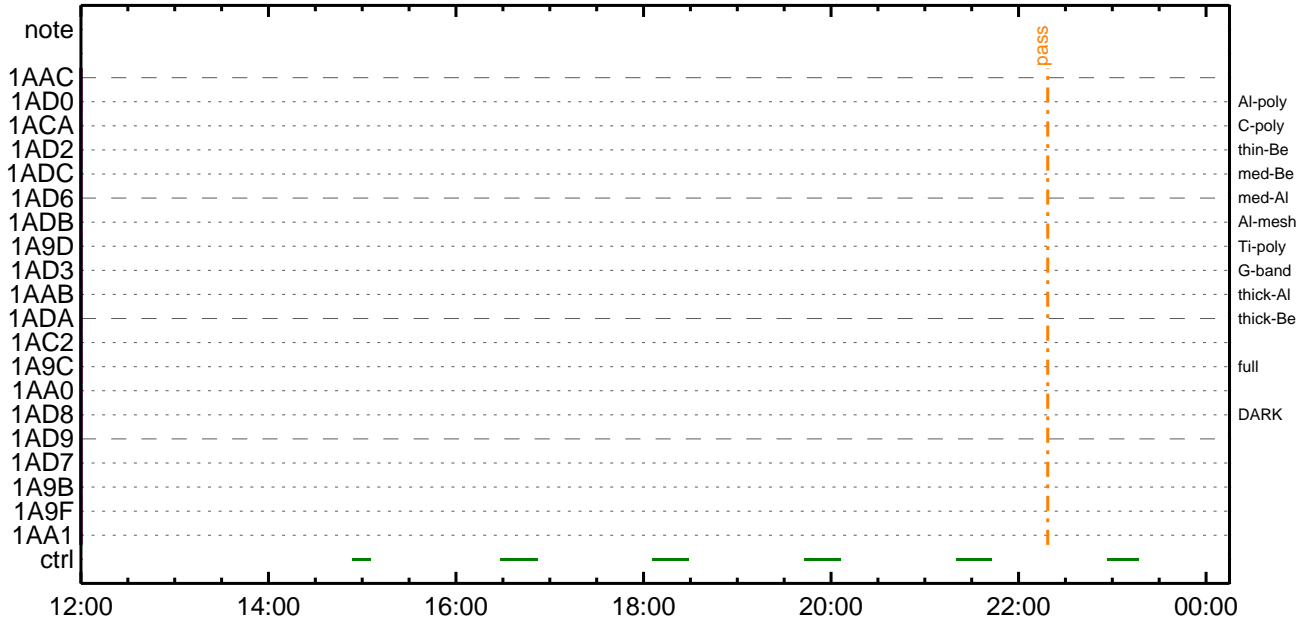
CMDI #0406 2015/09/21



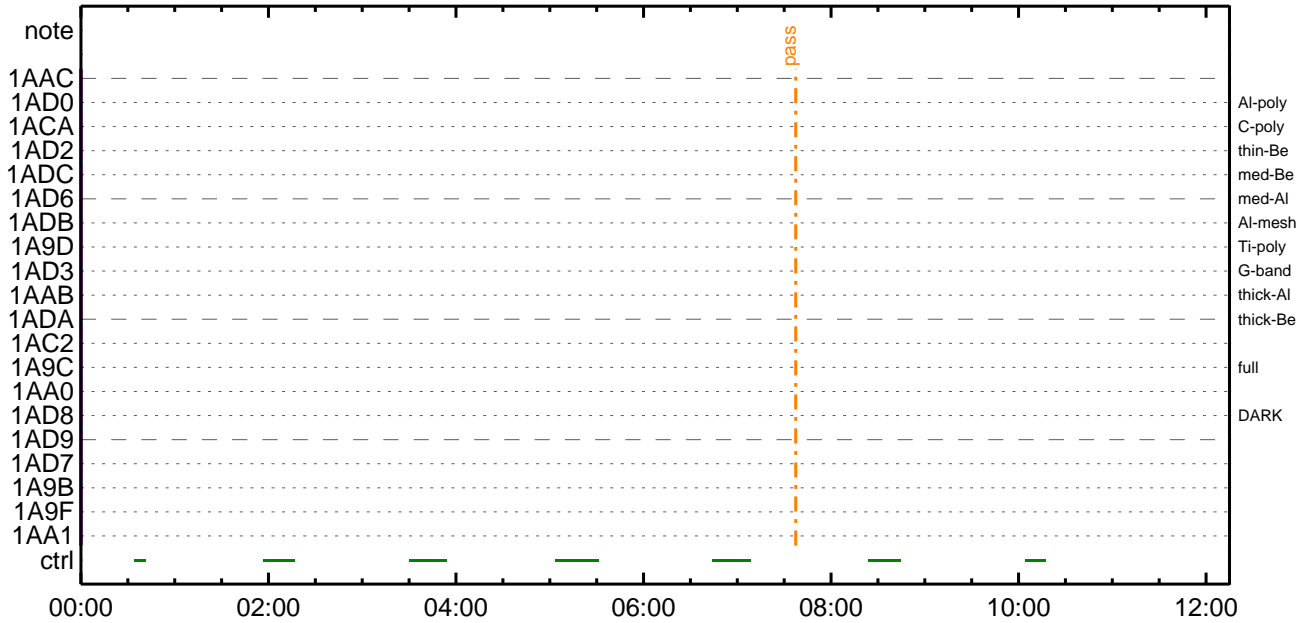
CMDI #0406 2015/09/22



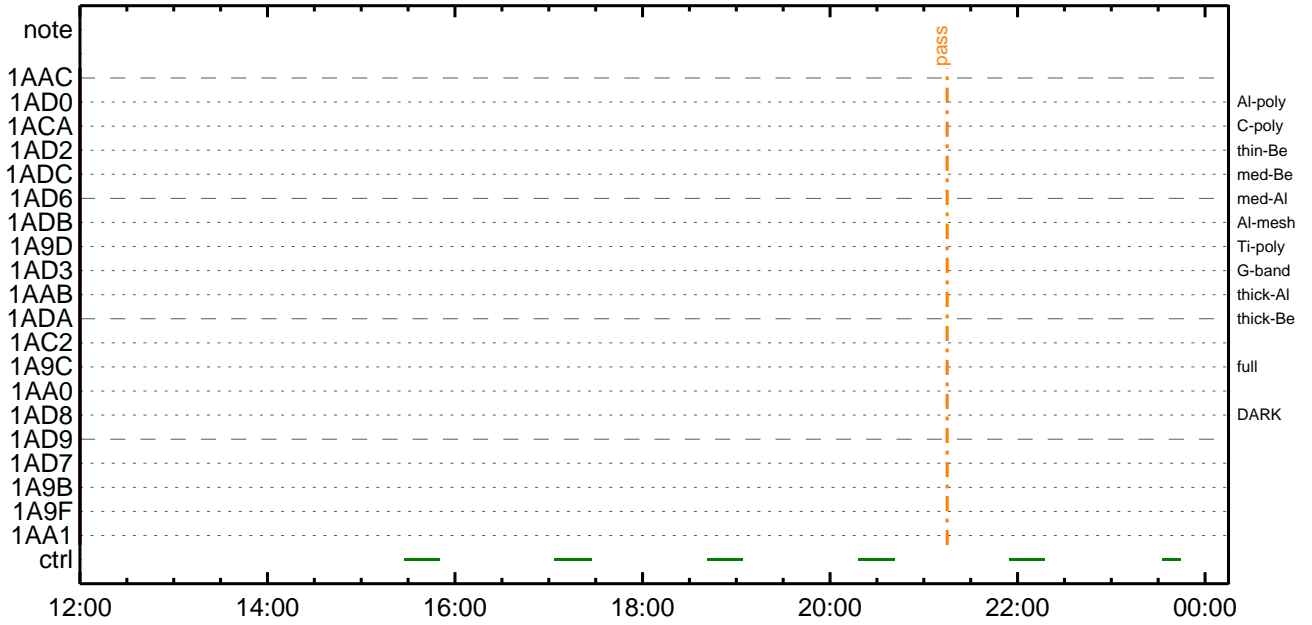
CMDI #0406 2015/09/22



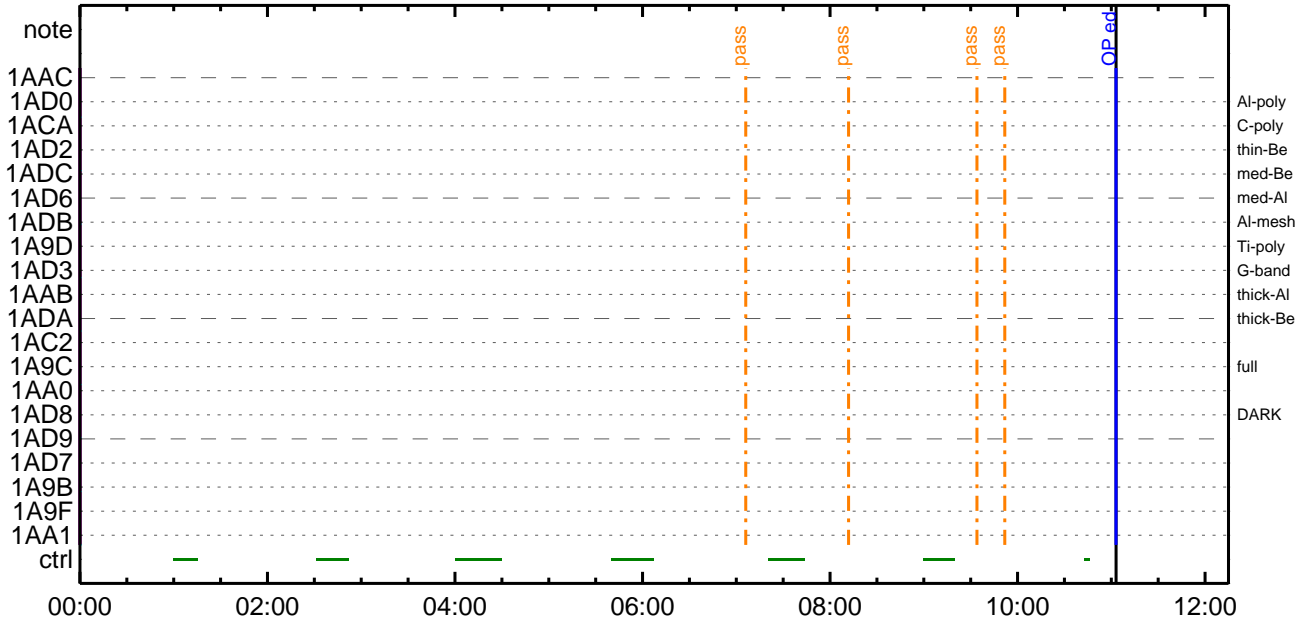
CMDI #0406 2015/09/23



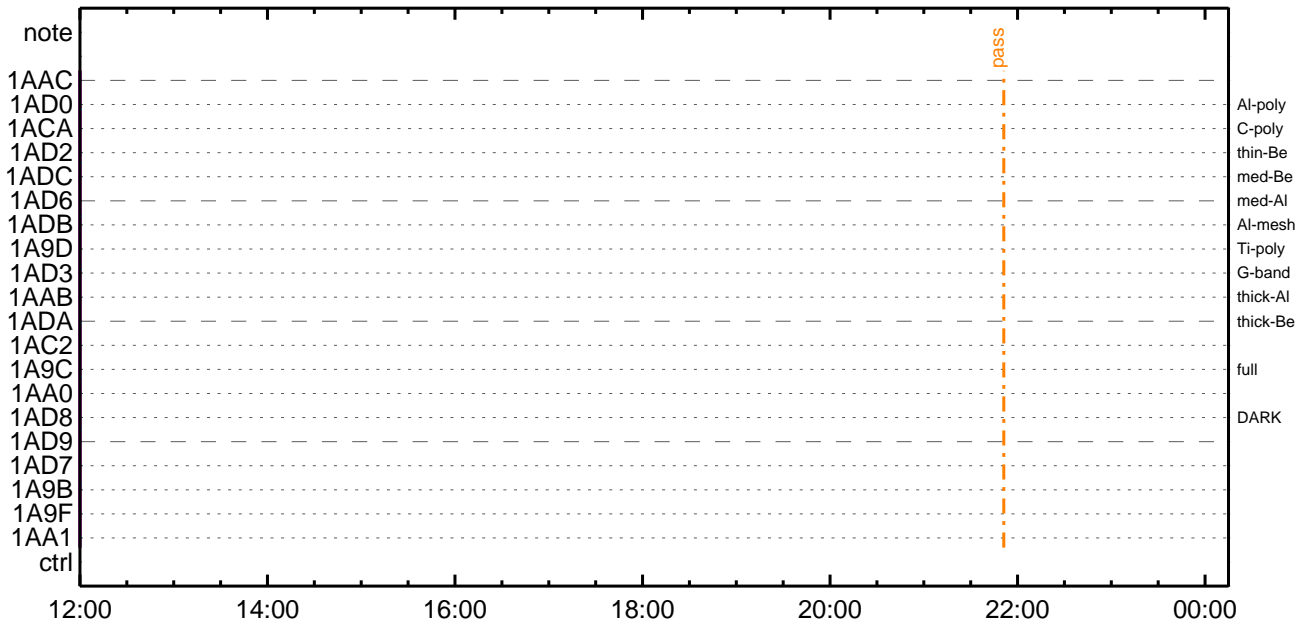
CMDI #0406 2015/09/23



CMDI #0406 2015/09/24



CMDI #0406 2015/09/24







0096 C. 0pB0z;çSET0EDUMP0İÆ±°iYÑY¹0Ç¹Ô0|0³0E;f

0097 C.

0098 . C. TIY³YFYYÖYÉ00dÄDİç (UT)

0099 +. TI 2015-09-19 10:11:00.0

0100 DC 01-B3 DHU\_OP\_STOP

0101 C. çç[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP

0102 C.

0103 +. TI 2015-09-19 10:11:01.0

0104 DC 01-B4 DHU\_OP\_COPY

0105 C. çç[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP

0106 C.

0107 +. TI 2015-09-19 10:11:01.0

0108 DC 01-B5 DHU\_OPOG\_COPY

0109 C. çç[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP

0110 C.

0111 +. TI 2015-09-19 10:15:59.5

0112 DC 01-B2 DHU\_OP\_START

0113 C. çç[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP

0114 C.

0115 C. °E²¼0İÄê%îİÑ0İYÁY§YÄY-¹àİÜ

0116 C. çç[HK1\_TI\_CMD\_ENA/DIS] EQ ENA

0117 C. çç[HK1\_TI\_CMD\_NUM] EQ 4

0118 C. çç[HK1\_NEXT\_EXEC\_PIM] EQ DHU

0119 C. çç[HK1\_NEXT\_EXEC\_DC] EQ 0xB3

0120 C.

0121 . C. \*\*\*\*\*

0122 C. TIİİî°èYÄYÖYx

0123 C. \*\*\*\*\*

0124 C.

0125 C. TI\_TBL(0x03AB00-0x03AEFF;§ 1024byte)

0126 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET

0127 BC (03 ab 03 01 02)

0128 C. çç[HK1\_DMP\_TOP\_ADRS\_1] EQ 07

0129 C. çç[HK1\_DMP\_TOP\_ADRS\_0] EQ 2B

0130 C. çç[HK1\_DMP\_BLOCK\_NUM] EQ 3

0131 C. çç[HK1\_DMP\_REPEAT\_NUM] EQ 0

0132 C. çç[HK1\_DMA\_DMP\_PIM] EQ DHU

0133 +. DC 01-22 DHU\_MODE\_CHNG

0134 BC (07 0b f8)

0135 C. çç[HK1\_PKT\_FORM\_NO] EQ 7

0136 C. çç[HK1\_PKT\_GEN\_TIME] EQ 0.25 s

0137 C. çç[HK1\_S\_TLM\_BIT\_RATE] EQ 32k

0138 C. çç[HK1\_X\_TLM\_BIT\_RATE] EQ 4M

0139 C. çç[HK1\_DMP\_CHK\_FLG] EQ EXEC

0140 C.

0141 . C. YÄYÖYx¼³İ»0d³İÇ§

0142 C. çç[HK1\_DMP\_CHK\_FLG] EQ NON

0143 C.

0144 . C. RAM ID=TI\_TBL0İ%È¹ç•è²İOK0d³İÇ§

0145 C.

0146 . C. DHUYâ;¼YÉ;È¼Y¼, Yî;¼YÈ;È0dİã0¹

0147 +. DC 01-22 DHU\_MODE\_CHNG

0148 BC (02 0a f8)

0149 C. çç[HK1\_PKT\_FORM\_NO] EQ 2

0150 C. çç[HK1\_PKT\_GEN\_TIME] EQ 0.5S

0151 C. çç[HK1\_S\_TLM\_BIT\_RATE] EQ 32K

0152 C. çç[HK1\_X\_TLM\_BIT\_RATE] EQ 4M

0153 C.

0154 C. \*\*\*\*\*

0155 C. SOT TI command set

0156 C. \*\*\*\*\*

0157 C. Execute, after the success of OP upload.

0158 +. TI 2015-09-19 10:15:16.0

0159 DC 07-F0 MDP\_SOT\_MODE\_STBY

0160 BC (41)

0161 . C. -----

0162 C. HK1\_TI\_CMD\_NUM = 1 CNTUP [ ]

0163 C. -----

0164 C. \*\*\*\*\* SOT END \*\*\*\*\*

0165 . C. Stop EIS observation and temporarily disable EIS mode changes

0166 C.

0167 C.

0168 C. \*\*\*\*\* Start EIS operation (TI set) \*\*\*\*\*

0169 C. Execute, after the success of OP upload.

0170 C. Set EIS TI-commands

0171 +. TI 2015-09-19 10:15:30.0

0172 DC 07-FC EIS\_MODE\_MANU

0173 BC (21 02)

0174 +. TI 2015-09-19 10:15:40.0

0175 DC 07-FC EIS\_MODE\_CHG\_DIS

0176 BC (22)

0177 . C. [ ] [HK1\_TI\_CMD\_NUM] EQ 2 COUNTUP

0178 C. \*\*\*\*\* End EIS operation (TI set) \*\*\*\*\*

0179 C.

0180 C.

0181 C.

0182 C. \*\*\*\*\* XRT START \*\*\*\*\*

0183 C. Execute, after the success of OP upload.

0184 +. TI 2015-09-19 10:15:00.0

0185 DC 07-F0 MDP\_XRT\_MODE\_STBY

0186 BC (c3)

0187 . C. [ ] [HK1\_TI\_CMD\_NUM] EQ 1COUNTUP

0188 C.

0189 C. \*\*\*\*\* XRT END \*\*\*\*\*

0190 C.

0191 . C. \*\*\*\*\* MDP İÄİ0İ»ö¼Y0ÈÄ00¹0èDCBC•x²è \*\*\*\*\*

0192 C. (¼0İYÖYÄYÉYFYYÖYÉYççYè0E¼00¼Ä»Ü0¹0é)

0193 . S. DC-BC dcbc-402:DCBC

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

(a) Spacecraft Operation Procedure (real-commands)

```
main-383 2015-09-19 12:27:23 85 33 SOLAR-B MAIN //
0001   C.
0002   . C. ***** AOS *****
0003   C.
0004   . C. ;ãAOSYÁYŠYÄY~¼Á»Û;ã
0005   C.
0006   C. YÄYß;¼Y³YFÝÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008   C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010   C.  Āí;È¿¿ðÄð•µ°È»Í×ÁÇ¿ÍYçYÄY×Yí;¼YÉ;ÈÈ%µ•ííÈ;ÈðÈ¼°ÇÒð•ð¿¼í¹çðÍ;çÄ®, ùñ¹ðèððçÄ+¿®ð•ðÈððð³ðÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012   C.
0013   C.
0014   . C. ***** AOCS Commands (Tracking Curve Upload) *****
0015   C. Upload the Orbit Element and the Target Attitude
0016   C. RAM-ID:TARGET_ATT
0017   . S. RAM ram-150:TARGET_ATT
0018   ( )
0019   C.
0020   C.
0021   C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023   BC (07 00 00 00 18 00)
0024   C.
0025   C. <A_STs1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026   C.
0027   C.
0028   C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030   BC (04 0b f8)
0031   C.
0032   C. Wait for AOCS DUMP to end
0033   C.
0034   . C. Check the dump memory
0035   C.
0036   C. Result = OK [ ]
0037   C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039   BC (02 0a f8)
0040   C.
0041   C. <A_***>[TLM STS] FMT = 2 [ ]
0042   C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044   . C.
0045   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0046 +. DC 07-FC EIS_MODE_CHG_ENA
0047   BC (20)
0048   . C. Verify EIS_MODE_CHG_FLG is ENA
0049 +. DC 07-FC EIS_MODE_MANU
0050   BC (21 02)
0051   . C. Verify EIS in MANUAL mode
0052   . C. Estimated OBSTBL upload time is 1mls
0053   C. *****
0054   C. EIS START OBSTBL LOAD
0055   C. *****
0056   . S. RAM ram-820:EIS_OBSTBL
0057   ( )
0058 +. DC 07-FC EIS_DUMP_OBSTBL
0059   BC (07 07 07 00 00 70 00)
0060   C.
0061   C. Execute, after the success of OBSTBL upload.
0062   C. Set EIS TI-commands
0063 +. TI 2015-09-19 10:15:50.0
0064   DC 07-FC EIS_MODE_CHG_ENA
0065   BC (20)
0066   . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0067   C. *****
0068   C. EIS END OBSTBL LOAD
0069   C. *****
0070   C.
0071   . C. ***** MDP `ûĀîñî»ô¼YðÈÄð¹ðèDCBC•x²è *****
0072   C. (¼á°íYÓYÄYÈYþYÈYáYçYè%¼ð¼¼»Ûñ¹ðè)
0073   . S. DC-BC dcbc-402:DCBC
0074   (MDP_known_event)
0075   C.
0076   C.
0077   . C. ***** YDÿ¹.İ Daily±;ĪññÈ`Øñ¹ðèDCBC•x²è *****
0078   . S. DC-BC dcbc-153:DCBC
0079   (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0080   C.
0081   C.
0082   . C. ;ãLOSŸÁYŠYÄY~¼Á»Û;ã
0083   C.
0084   . C. ***** LOS *****
0085   C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-384 2015-09-19 12:27:23 132 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èççãã•µ°È»Í×ÁÇçíYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÉ;ÈÈÈ¼°ÇÓã•ç¿¼l¹ççí;çÁ®, ùç¹ãèãÈççÁ+¿®ã•çÈããç³ãÈ;ç
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop FG table >
0018 +. DC 07-F0 MDP_FG_CTRL_MANU
0019 BC (51)
0020 . C. -----
0021 C. MDP_FG_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload FG Observation Table>
0025 . S. RAM ram-263:MDP_OBS_F
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_F >
0029 +. DC 07-F0 MDP_DUMP_FGTBL
0030 BC (82 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_F verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2015-09-19 10:15:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 . C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 C. ***** XRT START *****
0048 C.
0049 +. DC 07-F0 MDP_XRT_CTRL_MANU
0050 BC (c1)
0051 + DC 07-F0 MDP_XRT_MODE_STBY
0052 BC (c3)
0053 . C. ----- Success Verify ? OK / NG____
0054 C.
0055 C. XRT Obs. Table Upload
0056 . S. RAM ram-291:MDP_OBS_X
0057 ( )
0058 C.
0059 +. DC 07-F0 MDP_DUMP_XRTTBL
0060 BC (84 07 00 00 00 3a d4)
0061 . C. ----- Comparison Check ? OK / ERR ____
0062 C.
0063 C.
0064 +. DC 07-F0 MDP_XRT_ROI_SET
0065 BC (cd 01 b1 b1 04 04)
0066 + DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 02 b1 b1 08 08)
0068 + DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 03 b1 b1 08 08)
0070 + DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 04 b1 b1 06 06)
0072 + DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 05 85 83 06 06)
0074 + DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 06 85 83 06 06)
0076 + DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 80 80 20 20)
0078 + DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 80 80 20 08)
0080 + DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 80 08 20)
0082 + DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 60 20 18)
0084 + DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0b a0 80 18 20)
0086 + DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0f 80 80 06 06)
0088 + DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 10 80 80 08 08)
0090 + DC 07-F0 MDP_XRT_FLD_ENA
0091 BC (d8)
0092 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0093 BC (c8)
0094 + DC 07-F0 MDP_XRT_AEC_RESET
0095 BC (d0)
```

0096 + DC 07-F0 MDP\_XRT\_ARS\_DIS  
0097 BC (d5)  
0098 + DC 07-F0 MDP\_XRT\_FLD\_RESET  
0099 BC (da)  
0100 +. DC 07-F0 MDP\_XRT\_QT\_PROG\_SET  
0101 BC (c4 12)  
0102 +. DC 07-F0 MDP\_XRT\_FL\_PROG\_SET  
0103 BC (c5 03)  
0104 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0105 C.  
0106 C.  
0107 . C. All OK? Yes--> Please Proceed. / No --> Stop here.  
0108 C.  
0109 +. DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0110 BC (c2)  
0111 +. TI 2015-09-19 10:15:02.0  
0112 DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0113 BC (c2)  
0114 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0115 C.  
0116 C. \*\*\*\*\* XRT END \*\*\*\*\*  
0117 C.  
0118 . C. \*\*\*\*\* MDP `uÃîaî»ô¼ÿoÊÂð¹æDCBC•x²è \*\*\*\*\*  
0119 C. (¼ã°îÿÓŸÃŸËŸpŸËŸãŸçŸèæ¼¼¼¼¼»Û¹æè)  
0120 . S. DC-BC dcbc-402:DCBC  
0121 (MDP\_known\_event)  
0122 C.  
0123 C.  
0124 . C. \*\*\*\*\* ŸDŸ¹•İ Daily±;îŸæ'Ø¹æèDCBC•x²è \*\*\*\*\*  
0125 . S. DC-BC dcbc-153:DCBC  
0126 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0127 C.  
0128 C.  
0129 . C. ;ãLOSŸÃŸŸŸÃŸ-¼Ã»Û;ã  
0130 C.  
0131 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0132 C.

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

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2015/09/19 | 10:25:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 10:25:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 10:25:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/09/19 | 10:26:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |  |  |
| 2015/09/19 | 10:26:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/09/19 | 10:26:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/09/19 | 10:26:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2015/09/19 | 10:26:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/19 | 10:26:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/19 | 10:28:56.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2015/09/19 | 10:28:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0c          |  |  |  |  |
| 2015/09/19 | 10:29:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/19 | 14:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 14:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 14:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/19 | 14:45:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/19 | 14:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/19 | 14:56:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/19 | 14:57:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/19 | 16:20:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 16:20:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 16:20:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/19 | 16:20:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/19 | 16:23:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/19 | 16:43:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/19 | 16:44:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/19 | 17:57:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 17:57:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 17:57:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/19 | 17:57:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/19 | 18:00:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/19 | 18:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 18:19:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 18:19:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2015/09/19 | 18:20:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2015/09/19 | 18:20:18.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2015/09/19 | 18:22:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2015/09/19 | 18:22:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/19 | 18:22:58.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2015/09/19 | 18:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/19 | 18:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 18:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/19 | 18:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/09/19 | 18:30:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2015/09/19 | 18:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/09/19 | 18:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/09/19 | 18:30:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      |   |       |                |  |  |  |  |

|            |            |                                   |                     |   |       |    |             |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|--|
| 2015/09/19 | 18:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2015/09/19 | 18:30:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/19 | 18:32:56.0 | XRT_QT_PROG_SET_414_OG [0x19e]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 10          |  |
| 2015/09/19 | 18:32:58.0 | XRT_FL_PROG_SET_428_OG [0x1ac]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |  |
| 2015/09/19 | 18:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/19 | 19:33:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 19:33:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 19:33:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/19 | 19:33:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2015/09/19 | 19:36:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2015/09/19 | 19:57:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |  |
| 2015/09/19 | 19:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/19 | 21:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 21:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 21:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/19 | 21:11:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2015/09/19 | 21:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2015/09/19 | 21:34:00.5 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |  |
| 2015/09/19 | 21:35:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/19 | 22:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 22:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 22:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/19 | 22:48:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2015/09/19 | 22:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2015/09/19 | 23:08:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |  |
| 2015/09/19 | 23:09:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/19 | 23:49:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 23:49:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/19 | 23:49:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |  |
| 2015/09/19 | 23:50:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 02 | 00 00 00 00 |  |
| 2015/09/19 | 23:50:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |  |
| 2015/09/19 | 23:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |  |
| 2015/09/19 | 23:50:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
| 2015/09/19 | 23:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2015/09/19 | 23:50:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/19 | 23:52:56.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0e          |  |
| 2015/09/19 | 23:52:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0c          |  |
| 2015/09/19 | 23:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/20 | 00:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/20 | 00:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/20 | 00:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2015/09/20 | 00:25:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2015/09/20 | 00:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2015/09/20 | 00:33:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |  |
| 2015/09/20 | 00:34:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2015/09/20 | 01:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/20 | 01:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2015/09/20 | 01:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |



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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2015/09/20 | 01:48:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 01:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 02:08:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 02:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 03:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 03:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 03:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 03:24:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 03:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 03:45:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 03:46:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 04:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 04:54:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 04:54:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 04:54:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 04:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 05:22:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 05:23:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 06:05:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:05:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:05:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2015/09/20 | 06:05:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2015/09/20 | 06:05:48.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2015/09/20 | 06:08:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2015/09/20 | 06:08:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/20 | 06:08:28.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2015/09/20 | 06:08:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 06:15:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:15:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:15:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/09/20 | 06:15:30.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |  |  |
| 2015/09/20 | 06:15:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/09/20 | 06:15:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/09/20 | 06:15:52.0 | XRT_AEC_RESET_441_OG [0x1b9]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2015/09/20 | 06:15:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/20 | 06:15:56.0 | XRT_FLD_RESET_447_OG [0x1bf]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 06:18:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2015/09/20 | 06:18:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0c          |  |  |  |  |
| 2015/09/20 | 06:18:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 06:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 06:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 06:35:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 06:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 07:00:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 07:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 07:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 07:44:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 07:44:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |

|            |            |                                   |                     |   |       |    |    |    |       |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|-------|
| 2015/09/20 | 07:45:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
|            |            | AOCU_NM                           |                     | 5 | 02-76 | 00 | db | 65 | b8 32 |
| 2015/09/20 | 07:45:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |       |
| 2015/09/20 | 07:45:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |       |
| 2015/09/20 | 07:45:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |       |
| 2015/09/20 | 07:45:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |       |
| 2015/09/20 | 07:45:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 07:47:56.0 | XRT_QT_PROG_SET_409_OG [0x199]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 0a |       |
| 2015/09/20 | 07:47:58.0 | XRT_FL_PROG_SET_428_OG [0x1ac]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 03 |       |
| 2015/09/20 | 07:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |       |
| 2015/09/20 | 08:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 08:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 08:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 08:15:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |       |
| 2015/09/20 | 08:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |       |
| 2015/09/20 | 08:36:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2015/09/20 | 08:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |       |
| 2015/09/20 | 09:55:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 09:55:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 09:55:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 09:55:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |       |
| 2015/09/20 | 09:58:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |       |
| 2015/09/20 | 10:09:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2015/09/20 | 10:10:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |       |
| 2015/09/20 | 10:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 10:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 10:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2015/09/20 | 10:30:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 00 | b2 | 4e | 01 68 |
| 2015/09/20 | 10:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |       |
| 2015/09/20 | 10:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |       |
| 2015/09/20 | 10:30:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |       |
| 2015/09/20 | 10:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |       |
| 2015/09/20 | 10:30:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 10:32:56.0 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 14 |       |
| 2015/09/20 | 10:32:58.0 | XRT_FL_PROG_SET_428_OG [0x1ac]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 03 |       |
| 2015/09/20 | 10:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |       |
| 2015/09/20 | 15:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 15:19:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 15:19:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 15:19:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |       |
| 2015/09/20 | 15:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |       |
| 2015/09/20 | 15:42:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2015/09/20 | 15:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |       |
| 2015/09/20 | 16:55:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 16:55:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |       |
| 2015/09/20 | 16:55:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |       |
| 2015/09/20 | 16:55:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |       |
| 2015/09/20 | 16:58:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |       |
| 2015/09/20 | 17:18:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |

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|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2015/09/20 | 17:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 17:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2015/09/20 | 18:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2015/09/20 | 18:00:18.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2015/09/20 | 18:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2015/09/20 | 18:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/20 | 18:02:58.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2015/09/20 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/09/20 | 18:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |  |  |
| 2015/09/20 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/09/20 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/09/20 | 18:10:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2015/09/20 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/09/20 | 18:10:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 18:12:56.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2015/09/20 | 18:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0c          |  |  |  |  |
| 2015/09/20 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 18:32:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 18:32:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 18:32:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 18:32:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 18:35:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 18:55:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 18:56:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 20:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 20:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 20:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 20:09:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 20:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 20:32:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 20:33:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 21:46:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 21:46:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 21:46:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 21:46:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 21:49:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/09/20 | 22:09:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/09/20 | 22:10:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/09/20 | 23:23:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 23:23:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/09/20 | 23:23:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/09/20 | 23:23:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/09/20 | 23:26:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |

|            |            |                                      |   |       |                |
|------------|------------|--------------------------------------|---|-------|----------------|
| 2015/09/20 | 23:37:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2015/09/20 | 23:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2015/09/21 | 00:53:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 00:53:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 00:53:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2015/09/21 | 00:53:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2015/09/21 | 00:56:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2015/09/21 | 01:07:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2015/09/21 | 01:08:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2015/09/21 | 02:22:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 02:22:32.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 02:22:34.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2015/09/21 | 02:22:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2015/09/21 | 02:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2015/09/21 | 02:43:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2015/09/21 | 02:44:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2015/09/21 | 03:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 03:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 03:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2015/09/21 | 03:51:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2015/09/21 | 03:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2015/09/21 | 04:20:30.5 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2015/09/21 | 04:21:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2015/09/21 | 05:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 05:31:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 05:31:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2015/09/21 | 05:31:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2015/09/21 | 05:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2015/09/21 | 06:05:58.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 06:06:00.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 06:06:02.0 | XRT_FOCUS_RECALIBRATE_445_OG [0x1bd] |   |       |                |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |
| 2015/09/21 | 06:07:30.0 | AOCS_OrE-point_Start_2_OG [0x098]    |   |       |                |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |
| 2015/09/21 | 06:10:02.0 | XRT_FOCUS_POSITION_403_OG [0x193]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |
| 2015/09/21 | 06:10:22.0 | XRT_FLD_DIS_422_OG [0x1a6]           |   |       |                |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |
| 2015/09/21 | 06:10:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]       |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |
| 2015/09/21 | 06:10:26.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |
| 2015/09/21 | 06:10:28.0 | XRT_QT_PROG_SET_431_OG [0x1af]       |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 04          |
| 2015/09/21 | 06:10:30.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2015/09/21 | 06:17:24.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 06:17:26.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2015/09/21 | 06:17:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |
| 2015/09/21 | 06:17:30.0 | AOCS_OrE-point_Start_1_OG [0x097]    |   |       |                |
|            |            | AOCU_NM                              | 5 | 02-76 | 02 00 00 00 00 |
| 2015/09/21 | 06:17:48.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |
| 2015/09/21 | 06:17:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |
| 2015/09/21 | 06:17:52.0 | XRT_AEC_RESET_441_OG [0x1b9]         |   |       |                |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |
| 2015/09/21 | 06:17:54.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |
| 2015/09/21 | 06:17:56.0 | XRT_FLD_RESET_447_OG [0x1bf]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2015/09/21 | 06:20:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]       |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 11          |
| 2015/09/21 | 06:20:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]       |   |       |                |

|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2015/09/21 | 06:20:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0c          |
| 2015/09/21 | 07:11:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 07:11:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 07:11:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 07:11:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2015/09/21 | 07:14:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2015/09/21 | 07:35:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2015/09/21 | 07:36:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 07:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 07:44:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 07:44:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 07:45:00.0 | AOCS_ORe-point_Start_6_OG [0x09c] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2015/09/21 | 07:45:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 | 23 be b5 dc |
| 2015/09/21 | 07:45:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2015/09/21 | 07:45:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2015/09/21 | 07:45:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2015/09/21 | 07:45:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2015/09/21 | 07:47:56.0 | XRT_QT_PROG_SET_409_OG [0x199]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2015/09/21 | 07:47:58.0 | XRT_FL_PROG_SET_428_OG [0x1ac]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0a          |
| 2015/09/21 | 07:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2015/09/21 | 08:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 08:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 08:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 08:51:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2015/09/21 | 08:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2015/09/21 | 09:11:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2015/09/21 | 09:12:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 10:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 10:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 10:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 10:30:00.0 | AOCS_ORe-point_Start_7_OG [0x09d] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2015/09/21 | 10:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 01 | 00 00 00 00 |
| 2015/09/21 | 10:30:20.5 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2015/09/21 | 10:30:22.5 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2015/09/21 | 10:30:24.5 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2015/09/21 | 10:30:26.5 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2015/09/21 | 10:40:26.5 | XRT_QT_PROG_SET_409_OG [0x199]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2015/09/21 | 10:40:28.5 | XRT_FL_PROG_SET_428_OG [0x1ac]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0a          |
| 2015/09/21 | 10:40:30.5 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 03          |
| 2015/09/21 | 14:20:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 14:20:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 14:20:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 14:20:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2015/09/21 | 14:23:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2015/09/21 | 14:28:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2015/09/21 | 14:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2015/09/21 | 15:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2015/09/21 | 15:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |

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|            |            |                                   |                               |   |       |                |  |
|------------|------------|-----------------------------------|-------------------------------|---|-------|----------------|--|
| 2015/09/21 | 15:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 15:30:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/09/21 | 15:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                       | 5 | 02-76 | 02 00 00 00 00 |  |
| 2015/09/21 | 15:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA               | 1 | 07-F0 | d8             |  |
| 2015/09/21 | 15:30:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_FLRCTRL_ENA           | 1 | 07-F0 | c8             |  |
| 2015/09/21 | 15:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET             | 1 | 07-F0 | d0             |  |
| 2015/09/21 | 15:30:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |  |
| 2015/09/21 | 15:32:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/09/21 | 15:32:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 11          |  |
| 2015/09/21 | 15:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET           | 2 | 07-F0 | c5 0c          |  |
| 2015/09/21 | 15:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 15:53:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 15:53:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 15:53:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/09/21 | 15:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |  |
| 2015/09/21 | 16:17:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |  |
| 2015/09/21 | 16:18:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_Custom_430_OG [0x1ae] |   |       |                |  |
| 2015/09/21 | 17:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 17:30:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 17:30:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 17:30:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/09/21 | 17:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |  |
| 2015/09/21 | 17:55:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |  |
| 2015/09/21 | 17:55:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 17:55:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 17:55:30.0 | AOCS_OrE-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 ff aa 00    |  |
| 2015/09/21 | 17:55:48.0 | XRT_FLD_DIS_406_OG [0x196]        | AOCU_NM                       | 5 | 02-76 | 00 00 00 00 00 |  |
| 2015/09/21 | 17:58:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS               | 1 | 07-F0 | d9             |  |
| 2015/09/21 | 17:58:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS           | 1 | 07-F0 | c9             |  |
| 2015/09/21 | 17:58:28.0 | XRT_QT_PROG_SET_431_OG [0x1af]    | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |  |
| 2015/09/21 | 17:58:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 04          |  |
| 2015/09/21 | 18:05:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 18:05:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 18:05:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 18:05:30.0 | AOCS_OrE-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/09/21 | 18:05:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                       | 5 | 02-76 | 02 00 00 00 00 |  |
| 2015/09/21 | 18:05:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA               | 1 | 07-F0 | d8             |  |
| 2015/09/21 | 18:05:52.0 | XRT_AEC_RESET_441_OG [0x1b9]      | MDP_XRT_FLRCTRL_ENA           | 1 | 07-F0 | c8             |  |
| 2015/09/21 | 18:05:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET             | 1 | 07-F0 | d0             |  |
| 2015/09/21 | 18:05:56.0 | XRT_FLD_RESET_447_OG [0x1bf]      | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |  |
| 2015/09/21 | 18:08:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |
| 2015/09/21 | 18:08:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 11          |  |
| 2015/09/21 | 18:08:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET           | 2 | 07-F0 | c5 0c          |  |
| 2015/09/21 | 19:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 19:07:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 19:07:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 19:07:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |  |

|            |            |                                   |                     |   |       |                |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|
| 2015/09/21 | 19:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/21 | 19:30:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/21 | 19:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 20:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 20:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 20:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/09/21 | 20:44:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/21 | 20:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/21 | 21:08:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 21:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 22:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 22:22:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 22:22:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/09/21 | 22:22:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/21 | 22:25:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/21 | 22:43:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/21 | 22:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 23:59:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 23:59:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/21 | 23:59:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/09/21 | 23:59:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/22 | 00:02:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/22 | 00:08:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/22 | 00:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 01:23:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 01:23:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 01:23:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/09/22 | 01:23:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/22 | 01:26:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/22 | 01:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 01:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 01:39:58.0 | XRT_FOCUS_POSITION_438_OG [0x1b6] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/09/22 | 01:40:00.0 | AOCS_OrE-point_Start_8_OG [0x09e] | AOCU_NM             | 5 | 02-76 | 00 ad 59 00 00 |  |
| 2015/09/22 | 01:40:18.0 | XRT_FLD_DIS_446_OG [0x1be]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2015/09/22 | 01:42:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2015/09/22 | 01:42:56.0 | XRT_ARS_DIS_429_OG [0x1ad]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2015/09/22 | 01:42:58.0 | XRT_QT_PROG_SET_418_OG [0x1a2]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |  |
| 2015/09/22 | 01:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/22 | 02:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 02:57:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 02:57:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/09/22 | 02:57:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/09/22 | 03:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/09/22 | 03:18:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/09/22 | 03:19:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 03:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 03:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/09/22 | 03:39:58.0 | XRT_FOCUS_POSITION_438_OG [0x1b6] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/09/22 | 03:40:00.0 | AOCS_OrE-point_Start_9_OG [0x09f] |                     |   |       |                |  |

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|            |            |                                   |         |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---------|---|-------|----|----|----|----|----|
| 2015/09/22 | 03:40:18.0 | XRT_FLD_DIS_446_OG [0x1be]        | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 54 | 00 |
|            |            | MDP_XRT_FLD_DIS                   |         | 1 | 07-F0 | d9 |    |    |    |    |
| 2015/09/22 | 03:42:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]    |         | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               |         | 1 | 07-F0 | c9 |    |    |    |    |
| 2015/09/22 | 03:42:56.0 | XRT_ARS_DIS_429_OG [0x1ad]        |         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/09/22 | 03:42:58.0 | XRT_QT_PROG_SET_434_OG [0x1b2]    |         | 2 | 07-F0 | c4 | 0d |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 0d |    |    |    |
| 2015/09/22 | 03:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 04:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 04:27:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 04:27:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |         | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/09/22 | 04:27:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |         | 1 | 07-F0 | e8 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/09/22 | 04:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         | 1 | 07-F0 | e9 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/09/22 | 04:56:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2015/09/22 | 04:57:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 05:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 05:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 05:39:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |         | 4 | 07-F8 | 22 | ff | aa | 00 |    |
|            |            | XRT_FOCUS_POSITION                |         | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2015/09/22 | 05:40:00.5 | AOCS_ORe-point_Start_2_OG [0x098] |         | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
|            |            | AOCU_NM                           |         | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2015/09/22 | 05:40:18.0 | XRT_FLD_DIS_406_OG [0x196]        |         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   |         | 1 | 07-F0 | d9 |    |    |    |    |
| 2015/09/22 | 05:42:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |         | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               |         | 1 | 07-F0 | c9 |    |    |    |    |
| 2015/09/22 | 05:42:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/09/22 | 05:42:58.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |         | 2 | 07-F0 | c4 | 04 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2015/09/22 | 05:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 05:49:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 05:49:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 05:49:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |         | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
|            |            | XRT_FOCUS_POSITION                |         | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2015/09/22 | 05:50:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |         | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
|            |            | AOCU_NM                           |         | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2015/09/22 | 05:50:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |         | 1 | 07-F0 | d8 |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   |         | 1 | 07-F0 | d8 |    |    |    |    |
| 2015/09/22 | 05:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |         | 1 | 07-F0 | c8 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               |         | 1 | 07-F0 | c8 |    |    |    |    |
| 2015/09/22 | 05:50:22.0 | XRT_AEC_RESET_441_OG [0x1b9]      |         | 1 | 07-F0 | d0 |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 |         | 1 | 07-F0 | d0 |    |    |    |    |
| 2015/09/22 | 05:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/09/22 | 05:50:26.0 | XRT_FLD_RESET_447_OG [0x1bf]      |         | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/09/22 | 05:52:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |         | 2 | 07-F0 | c4 | 11 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2015/09/22 | 05:52:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |         | 2 | 07-F0 | c5 | 0c |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               |         | 2 | 07-F0 | c5 | 0c |    |    |    |
| 2015/09/22 | 05:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 06:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 06:07:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 06:07:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |         | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/09/22 | 06:07:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |         | 1 | 07-F0 | e8 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/09/22 | 06:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         | 1 | 07-F0 | e9 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/09/22 | 06:33:30.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2015/09/22 | 06:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 07:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 07:48:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |         | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/09/22 | 07:48:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |         | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2015/09/22 | 07:48:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |         | 1 | 07-F0 | e8 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/09/22 | 07:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         | 1 | 07-F0 | e9 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/09/22 | 08:10:30.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2015/09/22 | 08:11:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/09/22 | 09:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |



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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2015/09/22 | 09:27:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/09/22 | 09:27:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/09/22 | 09:27:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/09/22 | 09:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/09/22 | 10:34:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
|            |            | AOCU_NM                           |                     | 5 | 02-76 | 00 00 00 00 00 |