

# XRT Timeline to be uploaded on 2018/02/27

Period: 2018/02/27 09:32:00 - 2018/03/03 10:47:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #1B93: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 30s cadence, G-band - 384x384 1ms                    |                        |   |  |  |  |  |  |  |  |  |  |  |
|---|------------------------|---|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)        | Comment                                 |  |  |  |  |  |  |  |  |  |  |
| 02/27 09:58:30 - 02/27 15:41:54   | Fixed ( -20.0, -951.0) | # OP start + 10min, HOP 206, south pole |  |  |  |  |  |  |  |  |  |  |
| 02/28 00:07:00 - 02/28 05:59:54   | Fixed ( -20.0, 869.0)  | # north polar region                    |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 02 Inf.-time(s)</b>  |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 2.0sec   |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 16 2-time(s) 2.0sec  |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec             |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec              |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Subr= 2 1-time(s) 2.0sec   |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Seqn= 90 1-time(s) 30.0sec   |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec            |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Subr= 3 60-time(s) 2.0sec  |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Seqn= 57 1-time(s) 30.0sec   |                        |   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ 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 |                        |   |  |  |  |  |  |  |  |  |  |  |

| XOB #1BC3: AR-(filter ratio Al/poly thin-Be), 512x512 at 1064 1048, with G-band 1ms, PFB, 45s cad           |   |                   |  |  |  |  |  |  |  |  |  |  |
|---|---|-------------------|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)                                   | Comment           |  |  |  |  |  |  |  |  |  |  |
| 02/27 15:45:00 - 02/27 17:53:54   | Track ( 328.1, 181.3) <sup>@ 02/27 15:42:00</sup> | # emerging region |  |  |  |  |  |  |  |  |  |  |
| 03/01 06:41:00 - 03/01 10:00:00   | Track ( 640.6, 158.2) <sup>@ 03/01 06:38:00</sup> | # emerging region |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 01 Inf.-time(s)</b>  |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 2.0sec   |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 69 1-time(s) 2.0sec  |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 512x512 (1064, 1048) DPCM 0 0 2.0sec              |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 512x512 (1064, 1048) DPCM 0 0 2.0sec             |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Ti-poly Open/thick-Al close Safe Dark 16.0s Obs 1x1 512x512 (1064, 1048) Q=98 0 0 2.0sec        |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Subr= 2 1-time(s) 2.0sec   |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Seqn= 66 40-time(s) 45.0sec  |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec        |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ Al-poly/Open thin-Be/Open close Safe Norm 500ms Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec       |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec        |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ Al-poly/Open thin-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec       |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec        |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─┬─ Al-poly/Open thin-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec       |   |                   |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |   |                   |  |  |  |  |  |  |  |  |  |  |

| XOB #1BB4: Synoptic Q95 2x2 - Al/mesh(24/256/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(45/512/4096) + T |                   |                            |  |  |  |  |  |  |  |  |  |  |
|---|-------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)   | Comment                    |  |  |  |  |  |  |  |  |  |  |
| 02/27 17:57:00 - 02/27 18:03:54   | Fixed ( 0.0, 0.0) | synoptic, shifted -6.0 min |  |  |  |  |  |  |  |  |  |  |
| 02/28 06:03:00 - 02/28 06:09:54   | Fixed ( 0.0, 0.0) | synoptic                   |  |  |  |  |  |  |  |  |  |  |
| 02/28 17:59:00 - 02/28 18:05:54   | Fixed ( 0.0, 0.0) | synoptic, shifted -4.0 min |  |  |  |  |  |  |  |  |  |  |
| 03/01 06:31:00 - 03/01 06:37:54   | Fixed ( 0.0, 0.0) | synoptic, shifted 28.0 min |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 15 1-time(s)</b>   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 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= 1 1-time(s) 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 99 1-time(s) 2.0sec  |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/thick-Al close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 33 1-time(s) 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 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ thin-Be/Open thin-Be/Open close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 23 1-time(s) 2.0sec  |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec  |                   |                            |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band close Safe Norm 1ms 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 #1BE1: Filament - Al/poly thin-Be - 2x2 - 768FOV 1064 1048 - Gband (1ms/1ms leak) 384x384 - AEC2 - 15s cadence |  |           |  |  |  |  |  |  |  |  |  |  |
|--|--|-----------|--|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y)                                    | Comment   |  |  |  |  |  |  |  |  |  |  |
| 02/27 18:07:00 - 02/28 00:03:54  | Track ( -548.5, 460.2) <sup>@ 02/27 18:04:00</sup> | # HOP 345 |  |  |  |  |  |  |  |  |  |  |

| PROG= 05 Inf.-time(s) |                |                |       |         |       |       |     |     |                      |       |            |          |        |
|-----------------------|----------------|----------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 92              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
|                       | Open/G-band    | Open/G-band    | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                       | Open/G-band    | Open/G-band    | close | Safe    | Norm  | 1ms   | 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= 78              |                | 120-time(s)    |       | 15.0sec |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 500ms | Obs | 2x2 | 768x768 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 4.00s | Obs | 2x2 | 768x768 (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 |        |

| XOB #1B9D: AR (Filter-Ratio with Al/poly and thin-Be) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 72s cad |  |  |  |  |  |                   |  |  |  |  |  |  |
|---|--|--|--|--|--|-------------------|--|--|--|--|--|--|
| Term  |  | Pointing (x, y)                        |  |  |  | Comment           |  |  |  |  |  |  |
| 02/28 06:13:00 - 02/28 17:55:54   |  | Track ( 452.3, 174.5) @ 02/28 06:10:00 |  |  |  | # emerging region |  |  |  |  |  |  |
| 03/01 00:09:00 - 03/01 06:27:54   |  | Track ( 593.5, 163.1) @ 03/01 00:06:00 |  |  |  | # emerging region |  |  |  |  |  |  |

| PROG= 07 Inf.-time(s) |                |                |       |         |       |       |     |     |                      |       |            |          |         |
|-----------------------|----------------|----------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| Subr= 1               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |         |
| Seqn= 92              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |         |
|                       | Open/G-band    | Open/G-band    | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
|                       | Open/G-band    | Open/G-band    | close | Safe    | Norm  | 1ms   | 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  |
| Seqn= 71              |                | 3-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |         |
|                       | Open/thick-Al  | Open/thick-Be  | close | Safe    | Norm  | 16.0s | Obs | 1x1 | 512x512 (1064, 1048) | Q=98  | 3          | 0        | 2.0sec  |
| Subr= 2               |                | 100-time(s)    |       | 72.0sec |       |       |     |     |                      |       |            |          |         |
| Seqn= 89              |                | 1-time(s)      |       | 24.0sec |       |       |     |     |                      |       |            |          |         |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 1.00s | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec  |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 500ms | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 2          | 0        | 14.0sec |
| Seqn= 58              |                | 1-time(s)      |       | 24.0sec |       |       |     |     |                      |       |            |          |         |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec  |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec  |
| Seqn= 48              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |         |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec  |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec  |
|                       | Default Filter | Thicker Filter | VLS   | mode    | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

| XOB #1BE0: Filament - Al/poly thin-Be - 2x2 - 768FOV 1064 1048 - Gband (1ms/1ms leak) 384x384 - AEC2 - 30s cadence |  |   |  |  |  |           |  |  |  |  |  |  |
|--|--|---|--|--|--|-----------|--|--|--|--|--|--|
| Term   |  | Pointing (x, y)                         |  |  |  | Comment   |  |  |  |  |  |  |
| 02/28 18:09:00 - 03/01 00:05:54  |  | Track ( -375.0, 473.7) @ 02/28 18:06:00 |  |  |  | # HOP 345 |  |  |  |  |  |  |

| PROG= 12 Inf.-time(s) |                |                |       |         |       |       |     |     |                      |       |            |          |        |
|-----------------------|----------------|----------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 92              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
|                       | Open/G-band    | Open/G-band    | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                       | Open/G-band    | Open/G-band    | close | Safe    | Norm  | 1ms   | 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)      |       | 30.0sec |       |       |     |     |                      |       |            |          |        |
| Seqn= 78              |                | 60-time(s)     |       | 30.0sec |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 500ms | Obs | 2x2 | 768x768 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 4.00s | Obs | 2x2 | 768x768 (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 |        |

\* \* \* \* \* **Flare mode** \* \* \* \* \*

| XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512 |  |   |  |  |  |   |  |  |  |  |  |  |
|---|--|---|--|--|--|---|--|--|--|--|--|--|
| Term  |  | Pointing (x, y)                         |  |  |  | Comment                                 |  |  |  |  |  |  |
| 02/27 09:58:30 - 02/27 15:41:54   |  | Fixed ( -20.0, -951.0)                  |  |  |  | # OP start + 10min, HOP 206, south pole |  |  |  |  |  |  |
| 02/27 15:45:00 - 02/27 17:53:54   |  | Track ( 328.1, 181.3) @ 02/27 15:42:00  |  |  |  | # emerging region                       |  |  |  |  |  |  |
| 02/27 18:07:00 - 02/28 00:03:54   |  | Track ( -548.5, 460.2) @ 02/27 18:04:00 |  |  |  | # HOP 345                               |  |  |  |  |  |  |
| 02/28 00:07:00 - 02/28 05:59:54   |  | Fixed ( -20.0, 869.0)                   |  |  |  | # north polar region                    |  |  |  |  |  |  |
| 02/28 06:13:00 - 02/28 17:55:54   |  | Track ( 452.3, 174.5) @ 02/28 06:10:00  |  |  |  | # emerging region                       |  |  |  |  |  |  |
| 02/28 18:09:00 - 03/01 00:05:54   |  | Track ( -375.0, 473.7) @ 02/28 18:06:00 |  |  |  | # HOP 345                               |  |  |  |  |  |  |
| 03/01 00:09:00 - 03/01 06:27:54   |  | Track ( 593.5, 163.1) @ 03/01 00:06:00  |  |  |  | # emerging region                       |  |  |  |  |  |  |
| 03/01 06:41:00 - 03/01 10:00:00   |  | Track ( 640.6, 158.2) @ 03/01 06:38:00  |  |  |  | # emerging region                       |  |  |  |  |  |  |

| PROG= 13 30-time(s) |               |                  |       |         |      |       |     |     |                      |      |   |   |        |
|---------------------|---------------|------------------|-------|---------|------|-------|-----|-----|----------------------|------|---|---|--------|
| 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= 87       | 1-time(s)      | 2.0sec |      |       |       |     |     |                      |       |            |          |        |
|----------------|----------------|--------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Open/G-band    | Open/G-band    | open   | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/G-band    | Open/G-band    | close  | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-AI  | Open/thick-AI  | close  | Safe | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-AI  | Open/thick-AI  | 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

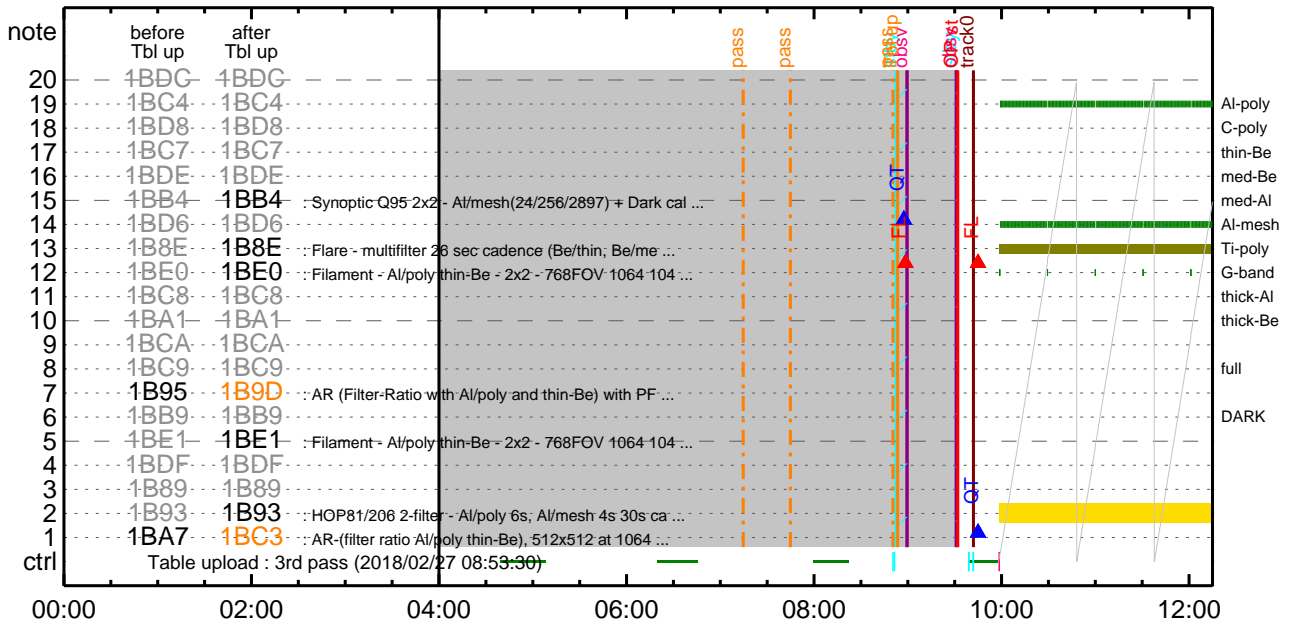
\* \* \* \* \*

### Flare Detection

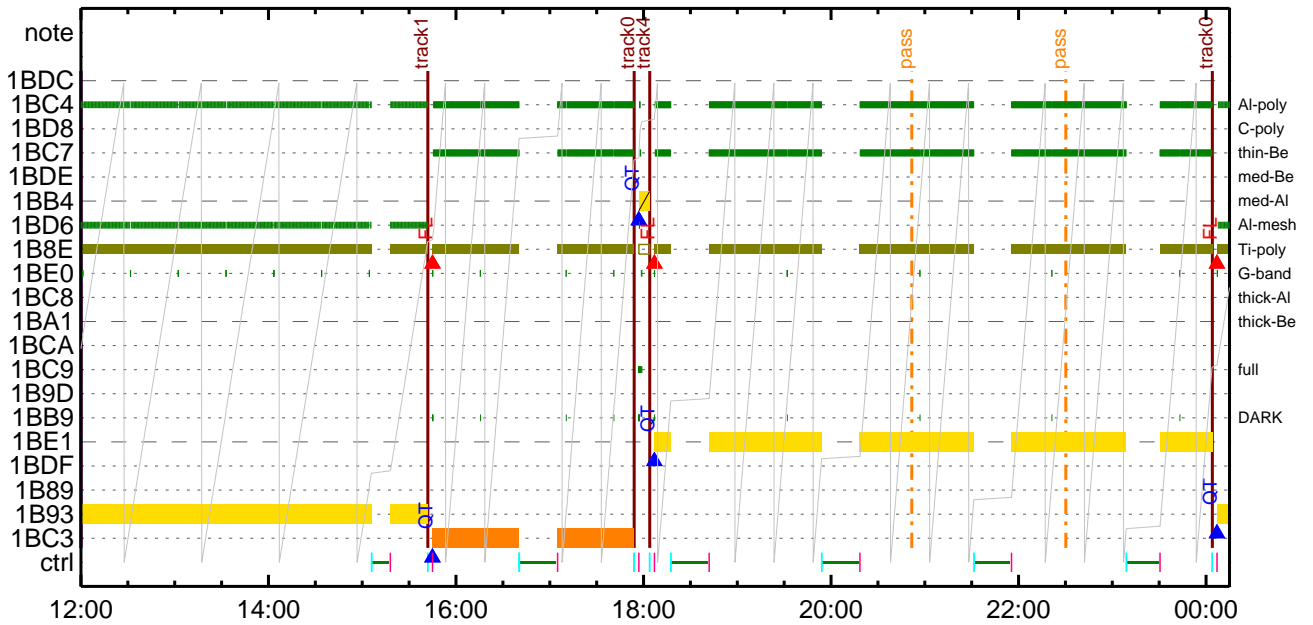
\* \* \* \* \*

| FLD Patrol                      |                 |                |                             |                   |      |     |     |                    |       |            |          |  |
|---------------------------------|-----------------|----------------|-----------------------------|-------------------|------|-----|-----|--------------------|-------|------------|----------|--|
| Term                            | Pointing (x, y) |                | Comment                     |                   |      |     |     |                    |       |            |          |  |
| 02/27 18:04:18 - 02/28 06:00:18 | Track (         | -548.5, 460.2) | <sup>Ⓢ</sup> 02/27 18:04:00 | # HOP 345         |      |     |     |                    |       |            |          |  |
| 02/28 06:10:18 - 02/28 17:56:18 | Track (         | 452.3, 174.5)  | <sup>Ⓢ</sup> 02/28 06:10:00 | # emerging region |      |     |     |                    |       |            |          |  |
| 02/28 18:06:18 - 03/01 06:28:18 | Track (         | -375.0, 473.7) | <sup>Ⓢ</sup> 02/28 18:06:00 | # HOP 345         |      |     |     |                    |       |            |          |  |
| 03/01 06:38:18 - 03/03 10:47:00 | Track (         | 640.6, 158.2)  | <sup>Ⓢ</sup> 03/01 06:38:00 | # emerging region |      |     |     |                    |       |            |          |  |
| Al-poly/Open                    | Al-poly/Open    | 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 |  |

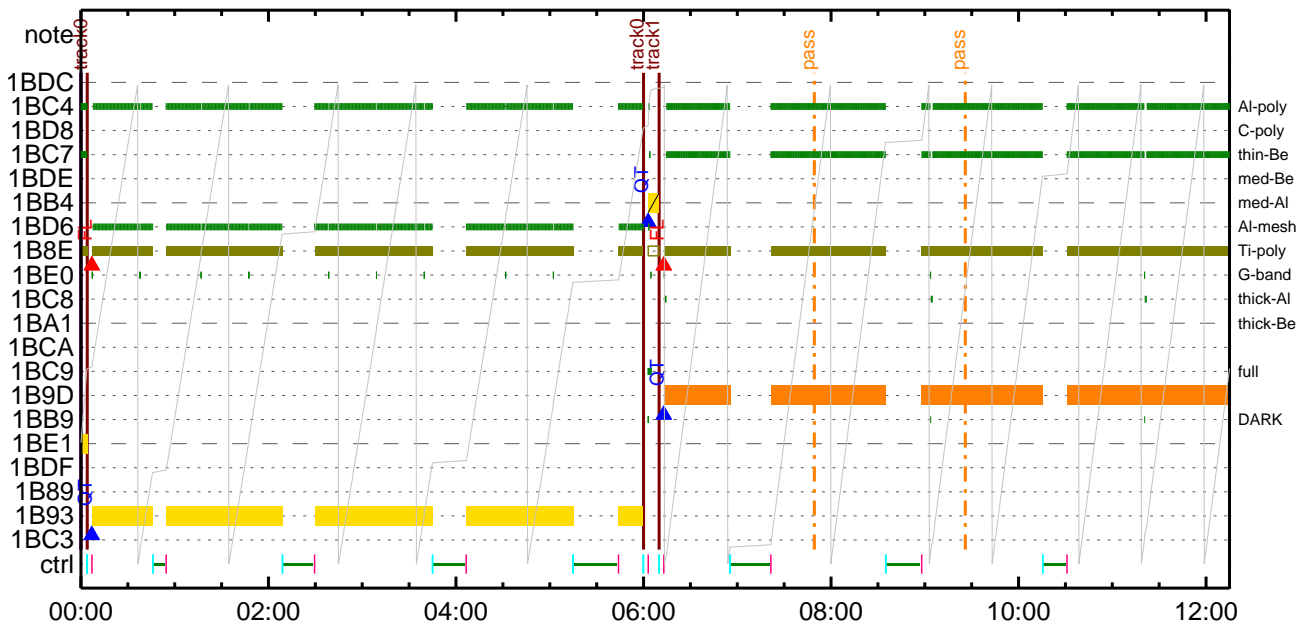
### CMDI #0336 2018/02/27



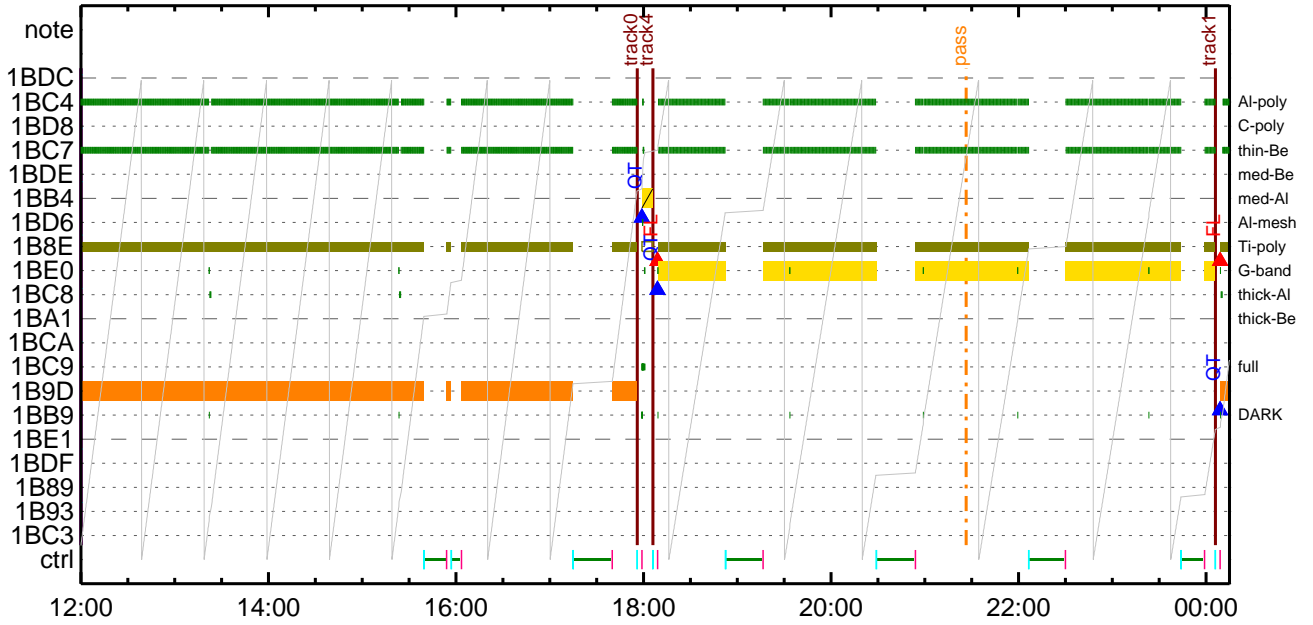
### CMDI #0336 2018/02/27



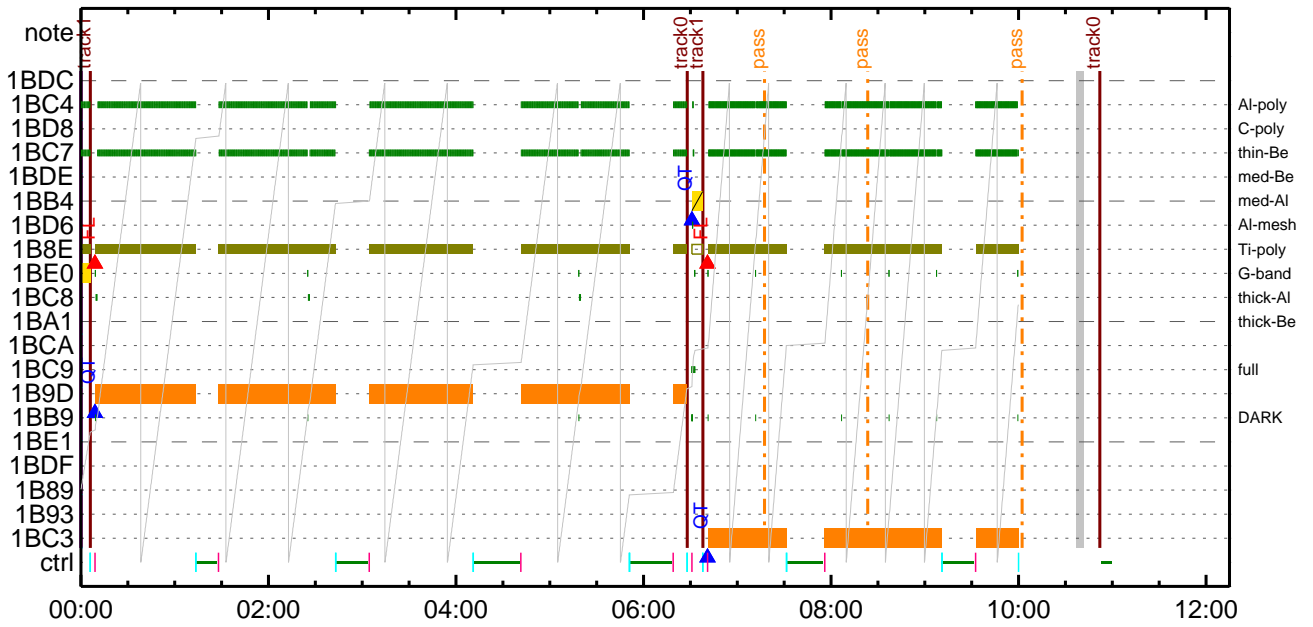
### CMDI #0336 2018/02/28



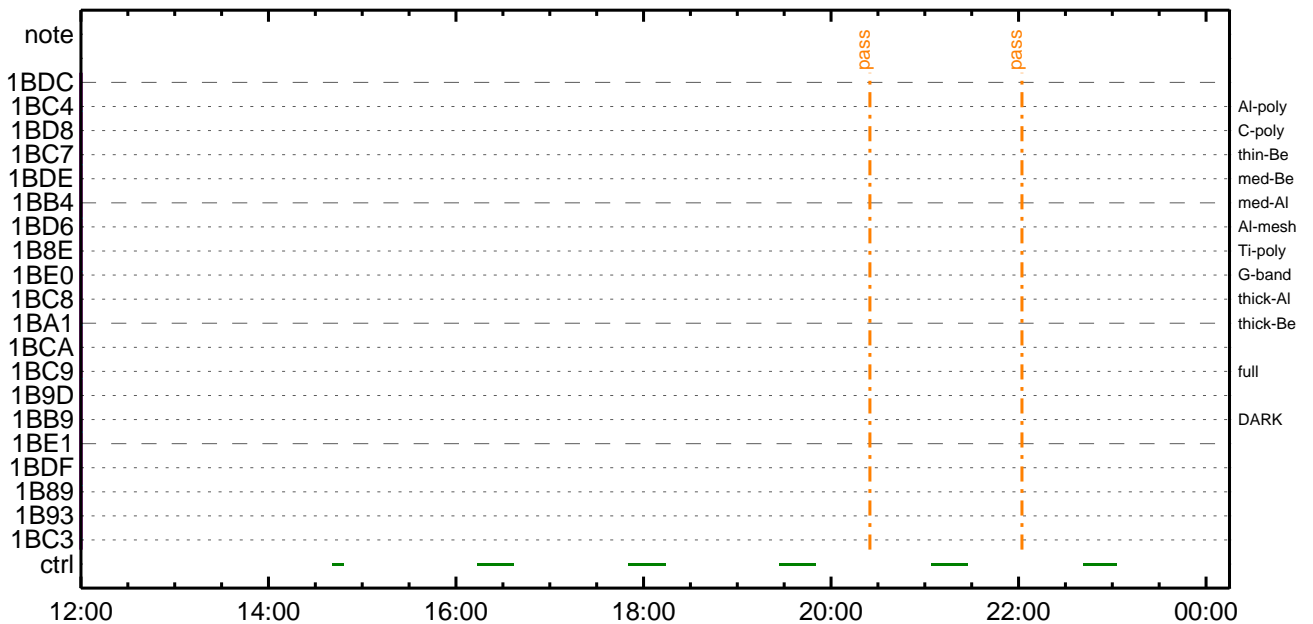
CMDI #0336 2018/02/28



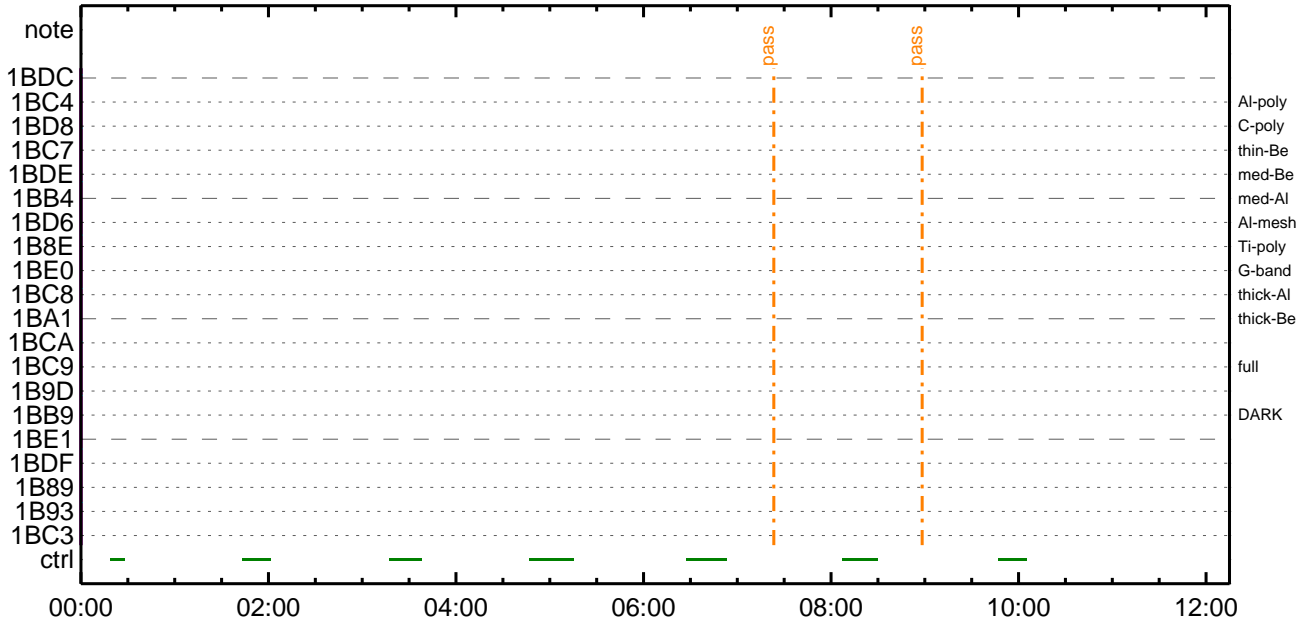
CMDI #0336 2018/03/01



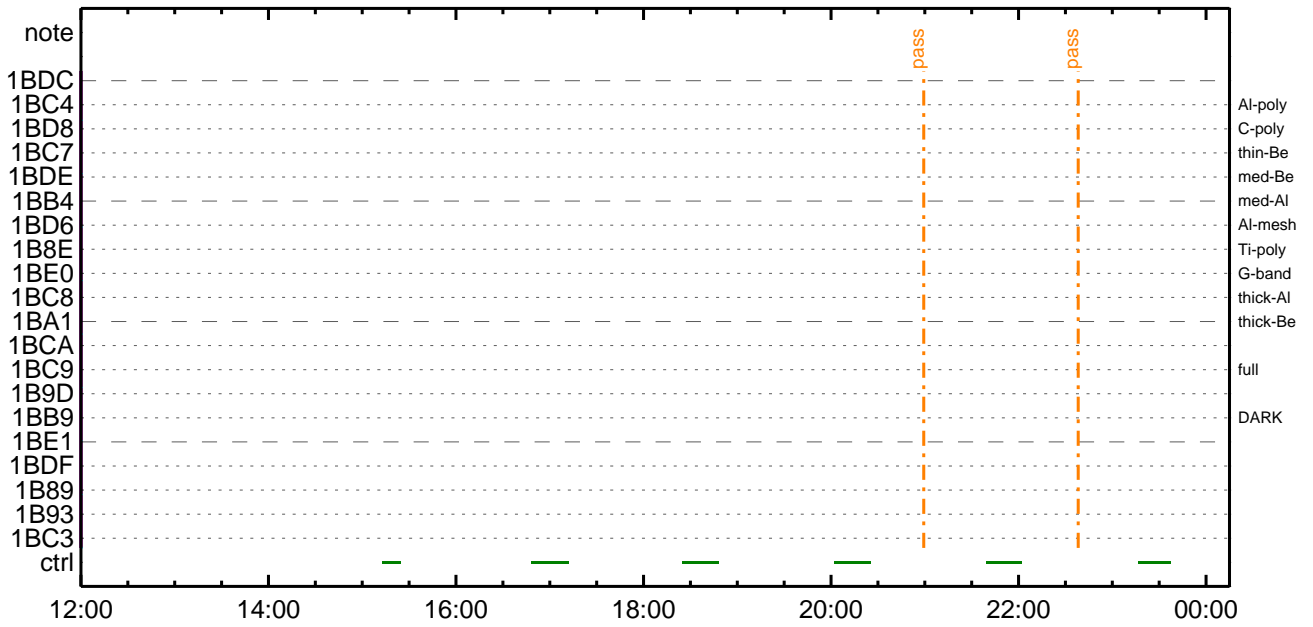
CMDI #0336 2018/03/01



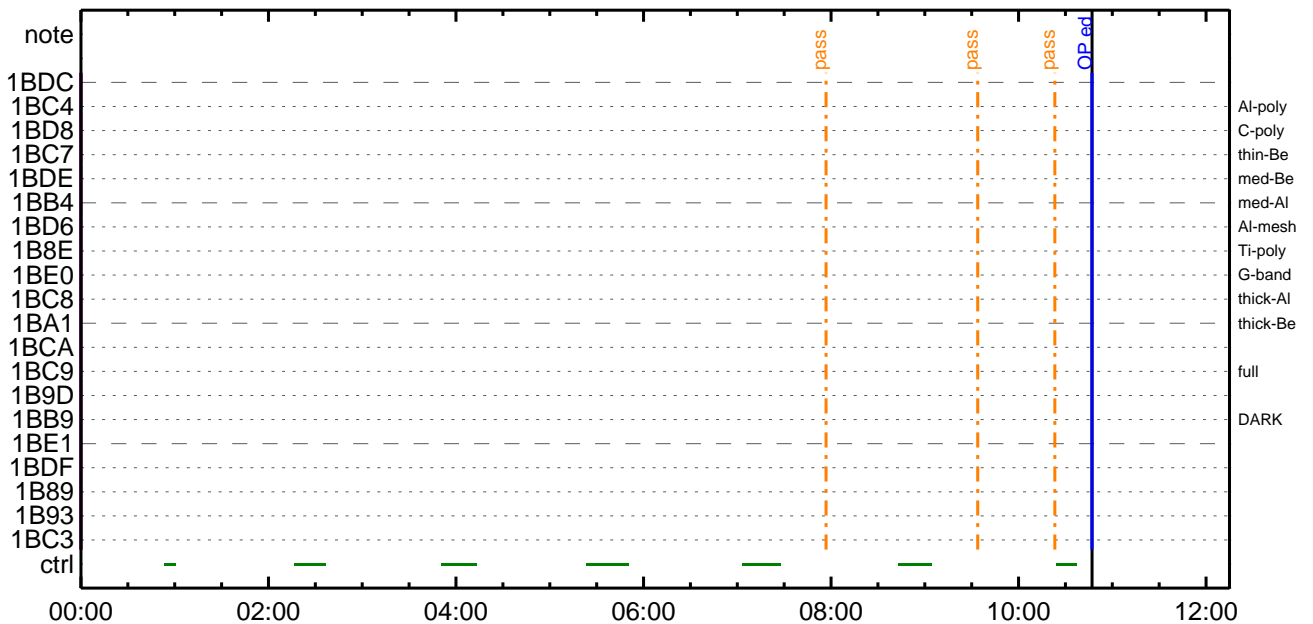
CMDI #0336 2018/03/02



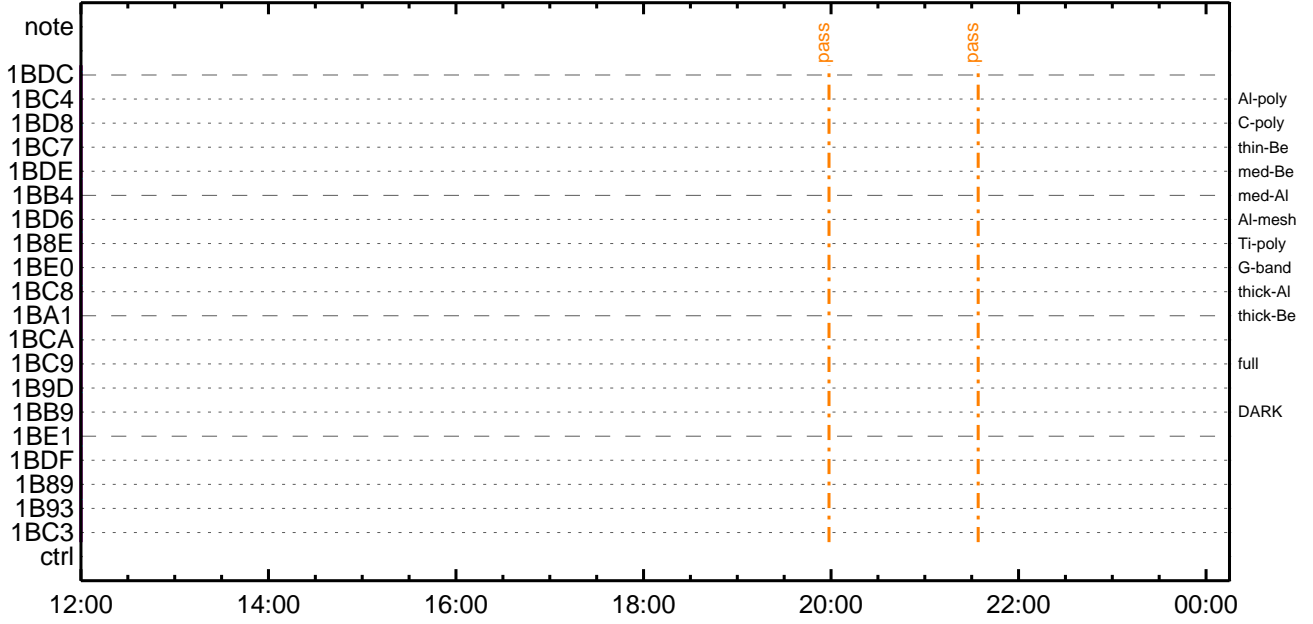
CMDI #0336 2018/03/02



CMDI #0336 2018/03/03



CMDI #0336 2018/03/03













```

0096 C.
0097 C.
0098 C.
0099 C. ***** XRT START *****
0100 C.
0101 +. DC 07-F0 MDP_XRT_CTRL_MANU
0102 BC (c1)
0103 +. DC 07-F0 MDP_XRT_CTRL_MANU
0104 BC (c1)
0105 + DC 07-F0 MDP_XRT_MODE_STBY
0106 BC (c3)
0107 . C. ----- Success Verify ? OK / NG ____
0108 C.
0109 C. XRT Obs. Table Upload
0110 . S. RAM ram-291:MDP_OBS_X
0111 ( )
0112 C.
0113 +. DC 07-F0 MDP_DUMP_XRTTBL
0114 BC (84 07 00 00 00 3a d4)
0115 . C. ----- Comparison Check ? OK / ERR ____
0116 C.
0117 C.
0118 +. DC 07-F0 MDP_XRT_ROI_SET
0119 BC (cd 01 b1 b1 04 04)
0120 + DC 07-F0 MDP_XRT_ROI_SET
0121 BC (cd 02 b1 b1 08 08)
0122 + DC 07-F0 MDP_XRT_ROI_SET
0123 BC (cd 03 b1 b1 08 08)
0124 + DC 07-F0 MDP_XRT_ROI_SET
0125 BC (cd 04 b1 b1 06 06)
0126 + DC 07-F0 MDP_XRT_ROI_SET
0127 BC (cd 05 85 83 06 06)
0128 + DC 07-F0 MDP_XRT_ROI_SET
0129 BC (cd 06 80 80 20 20)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 07 80 80 20 08)
0132 + DC 07-F0 MDP_XRT_ROI_SET
0133 BC (cd 08 80 80 08 20)
0134 + DC 07-F0 MDP_XRT_ROI_SET
0135 BC (cd 09 85 83 06 06)
0136 + DC 07-F0 MDP_XRT_ROI_SET
0137 BC (cd 0a 85 83 08 08)
0138 + DC 07-F0 MDP_XRT_ROI_SET
0139 BC (cd 0b 85 83 0c 0c)
0140 + DC 07-F0 MDP_XRT_ROI_SET
0141 BC (cd 0f 80 80 06 06)
0142 + DC 07-F0 MDP_XRT_ROI_SET
0143 BC (cd 10 80 80 08 08)
0144 + DC 07-F0 MDP_XRT_FLD_ENA
0145 BC (d8)
0146 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0147 BC (c8)
0148 + DC 07-F0 MDP_XRT_ARS_DIS
0149 BC (d5)
0150 + DC 07-F0 MDP_XRT_AEC_RESET
0151 BC (d0)
0152 + DC 07-F0 MDP_XRT_FLD_RESET
0153 BC (da)
0154 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0155 BC (c4 0f)
0156 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0157 BC (c5 0d)
0158 . C. ----- Success Verify ? OK / NG ____
0159 C.
0160 C.
0161 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0162 C.
0163 +. DC 07-F0 MDP_XRT_MODE_OBSV
0164 BC (c2)
0165 +. TI 2018-02-27 09:31:02.0
0166 DC 07-F0 MDP_XRT_MODE_OBSV
0167 BC (c2)
0168 . C. ----- Success Verify ? OK / NG ____
0169 C.
0170 C. ***** XRT END *****
0171 . C. *****
0172 C. SOT table upload
0173 C. *****
0174 . C. < Stop SP table >
0175 +. DC 07-F0 MDP_SP_CTRL_MANU
0176 BC (61)
0177 C. -----
0178 C. MDP_SP_CTRL_MODE = MANU [ ]
0179 C. -----
0180 C.
0181 . C. <Upload SP Observation Table>
0182 . S. RAM ram-288:MDP_OBS_S
0183 ( )
0184 C.
0185 . C. < Dump RAMID=MDP_OBS_S >
0186 +. DC 07-F0 MDP_DUMP_SPTBL
0187 BC (83 07 00 00 00 38 b8)
0188 C. -----
0189 C. MDP_OBS_S verify = OK/NG [ ]
0190 C. -----
0191 C.
0192 C. *****
0193 C. SOT TI command set

```

```
0194 C. *****
0195 C. Execute, after the success of TBL upload.
0196 +. TI 2018-02-27 09:31:18.0
0197 DC 07-F0 MDP_SOT_MODE_OBSV
0198 BC (40)
0199 . C. -----
0200 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0201 C. -----
0202 C.
0203 C.
0204 . C. ***** MDP 'uAÎaî»ô¼YôEÂDâ¹aèDCBC•x²è *****
0205 C. (¼ã°îYÓYÃYÈYpYÈYâYçYèaE¼¼a¼A»Ûa¹aè)
0206 . S. DC-BC dcbc-402:DCBC
0207 (MDP_known_event)
0208 C.
0209 C.
0210 . C. ***** YDY¹•ï Daily±¿îÑaE'Øa¹aèDCBC•x²è *****
0211 . S. DC-BC dcbc-153:DCBC
0212 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0213 C.
0214 C.
0215 . C. ;ãLOSÃYSYÃY-¼A»Û;ã
0216 C.
0217 . C. ***** LOS *****
0218 C.
```

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

```

2018/02/27 09:39:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 09:39:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 09:39:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/02/27 09:39:06.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/02/27 09:41:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 09:41:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 09:41:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2018/02/27 09:42:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 00 54 8b 01 ca
2018/02/27 09:42:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/02/27 09:42:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2018/02/27 09:42:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2018/02/27 09:42:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2018/02/27 09:42:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2018/02/27 09:42:26.0 XRT_FLD_RESET_433_OG [0x1b1]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/02/27 09:44:56.0 XRT_QT_PROG_SET_437_OG [0x1b5]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 02
2018/02/27 09:44:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0d
2018/02/27 09:57:30.0 XRT_Custom_430_OG [0x1ae]
2018/02/27 09:58:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/02/27 15:06:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 15:06:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 15:06:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/02/27 15:06:06.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/02/27 15:09:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/02/27 15:17:00.0 XRT_Custom_430_OG [0x1ae]
2018/02/27 15:18:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/02/27 15:41:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 15:41:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 15:41:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2018/02/27 15:42:00.0 AOCs_OrE-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 01 00 00 00 00
2018/02/27 15:42:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2018/02/27 15:42:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2018/02/27 15:42:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2018/02/27 15:42:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2018/02/27 15:42:26.0 XRT_FLD_RESET_433_OG [0x1b1]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/02/27 15:44:56.0 XRT_QT_PROG_SET_435_OG [0x1b3]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 01
2018/02/27 15:44:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0d
2018/02/27 15:45:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/02/27 16:40:30.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 16:40:32.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 16:40:34.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/02/27 16:40:36.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/02/27 16:43:44.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/02/27 17:04:00.0 XRT_Custom_430_OG [0x1ae]
2018/02/27 17:05:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/02/27 17:53:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 17:53:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/02/27 17:53:58.0 XRT_FOCUS_POSITION_403_OG [0x193]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00

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|            |            |   |   |       |             |
|------------|------------|---|---|-------|-------------|
| 2018/02/27 | 17:54:00.0 | AOCS_ORe-point_Start_3_OG [0x099]<br>AOCU_NM              | 5 | 02-76 | 00 00 00 00 |
| 2018/02/27 | 17:54:18.0 | XRT_FLD_DIS_425_OG [0x1a9]<br>MDP_XRT_FLD_DIS             | 1 | 07-F0 | d9          |
| 2018/02/27 | 17:56:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]<br>MDP_XRT_FLRCTRL_DIS     | 1 | 07-F0 | c9          |
| 2018/02/27 | 17:56:56.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS             | 1 | 07-F0 | d5          |
| 2018/02/27 | 17:56:58.0 | XRT_QT_PROG_SET_404_OG [0x194]<br>MDP_XRT_QT_PROG_SET     | 2 | 07-F0 | c4 0f       |
| 2018/02/27 | 17:57:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/27 | 18:03:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 18:03:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 18:03:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION   | 4 | 07-F8 | 22 fe 97 00 |
| 2018/02/27 | 18:04:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]<br>AOCU_NM              | 5 | 02-76 | 04 00 00 00 |
| 2018/02/27 | 18:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA             | 1 | 07-F0 | d8          |
| 2018/02/27 | 18:04:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA     | 1 | 07-F0 | c8          |
| 2018/02/27 | 18:04:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0          |
| 2018/02/27 | 18:04:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS             | 1 | 07-F0 | d5          |
| 2018/02/27 | 18:04:26.0 | XRT_FLD_RESET_433_OG [0x1b1]<br>MDP_XRT_FLD_RESET         | 1 | 07-F0 | da          |
| 2018/02/27 | 18:06:56.0 | XRT_QT_PROG_SET_449_OG [0x1c1]<br>MDP_XRT_QT_PROG_SET     | 2 | 07-F0 | c4 05       |
| 2018/02/27 | 18:06:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_FL_PROG_SET     | 2 | 07-F0 | c5 0d       |
| 2018/02/27 | 18:07:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/27 | 18:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 18:17:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 18:17:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET         | 1 | 07-F0 | da          |
| 2018/02/27 | 18:17:36.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT     | 1 | 07-F0 | e8          |
| 2018/02/27 | 18:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP     | 1 | 07-F0 | e9          |
| 2018/02/27 | 18:41:00.0 | XRT_Custom_430_OG [0x1ae]<br>XRT_CTRL_AUTO_424_OG [0x1a8] | 1 | 07-F0 | c0          |
| 2018/02/27 | 18:42:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/27 | 19:54:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 19:54:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 19:54:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET         | 1 | 07-F0 | da          |
| 2018/02/27 | 19:54:06.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT     | 1 | 07-F0 | e8          |
| 2018/02/27 | 19:57:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP     | 1 | 07-F0 | e9          |
| 2018/02/27 | 20:17:30.0 | XRT_Custom_430_OG [0x1ae]<br>XRT_CTRL_AUTO_424_OG [0x1a8] | 1 | 07-F0 | c0          |
| 2018/02/27 | 20:18:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/27 | 21:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 21:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 21:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET         | 1 | 07-F0 | da          |
| 2018/02/27 | 21:31:36.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT     | 1 | 07-F0 | e8          |
| 2018/02/27 | 21:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP     | 1 | 07-F0 | e9          |
| 2018/02/27 | 21:54:30.0 | XRT_Custom_430_OG [0x1ae]<br>XRT_CTRL_AUTO_424_OG [0x1a8] | 1 | 07-F0 | c0          |
| 2018/02/27 | 21:55:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/27 | 23:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 23:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/27 | 23:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET         | 1 | 07-F0 | da          |
| 2018/02/27 | 23:09:06.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT     | 1 | 07-F0 | e8          |
| 2018/02/27 | 23:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP     | 1 | 07-F0 | e9          |
| 2018/02/27 | 23:29:30.0 | XRT_Custom_430_OG [0x1ae]<br>XRT_CTRL_AUTO_424_OG [0x1a8] | 1 | 07-F0 | c0          |
| 2018/02/27 | 23:30:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0          |
| 2018/02/28 | 00:03:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/28 | 00:03:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1          |
| 2018/02/28 | 00:03:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]                         |   |       |             |

|            |            |                                   |                     |   |       |    |    |    |       |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|-------|
| 2018/02/28 | 00:04:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
|            |            | AOCU_NM                           |                     | 5 | 02-76 | 00 | b2 | c1 | 01 ca |
| 2018/02/28 | 00:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |       |
| 2018/02/28 | 00:04:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |       |
| 2018/02/28 | 00:04:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |       |
| 2018/02/28 | 00:04:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/02/28 | 00:04:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/02/28 | 00:06:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02 |    |       |
| 2018/02/28 | 00:06:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d |    |       |
| 2018/02/28 | 00:07:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 00:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 00:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 00:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/02/28 | 00:46:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/02/28 | 00:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/02/28 | 00:53:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/02/28 | 00:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 02:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 02:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 02:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/02/28 | 02:09:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/02/28 | 02:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/02/28 | 02:28:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/02/28 | 02:29:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 03:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 03:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 03:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/02/28 | 03:45:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/02/28 | 03:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/02/28 | 04:05:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/02/28 | 04:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 05:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 05:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 05:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/02/28 | 05:15:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/02/28 | 05:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/02/28 | 05:43:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/02/28 | 05:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 05:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00    |
| 2018/02/28 | 06:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 00 |
| 2018/02/28 | 06:00:18.0 | XRT_FLD_DIS_425_OG [0x1a9]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |       |
| 2018/02/28 | 06:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |       |
| 2018/02/28 | 06:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/02/28 | 06:02:58.0 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0f |    |       |
| 2018/02/28 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/02/28 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/02/28 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |



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|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2018/02/28 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2018/02/28 | 06:10:00.0 | AOCs_OrE-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 01 00 00 00 00 |
| 2018/02/28 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2018/02/28 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2018/02/28 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2018/02/28 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2018/02/28 | 06:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 06:12:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 07          |
| 2018/02/28 | 06:12:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 0d          |
| 2018/02/28 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 06:55:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 06:55:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 06:55:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 06:55:36.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2018/02/28 | 06:58:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2018/02/28 | 07:20:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2018/02/28 | 07:21:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 08:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 08:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 08:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 08:35:06.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2018/02/28 | 08:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2018/02/28 | 08:57:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2018/02/28 | 08:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 10:15:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 10:15:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 10:15:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 10:15:36.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2018/02/28 | 10:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2018/02/28 | 10:30:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2018/02/28 | 10:31:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 15:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 15:39:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 15:39:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 15:39:36.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2018/02/28 | 15:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2018/02/28 | 15:53:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2018/02/28 | 15:54:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 15:57:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 15:57:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 15:57:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 15:57:06.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2018/02/28 | 16:00:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2018/02/28 | 16:02:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2018/02/28 | 16:03:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2018/02/28 | 17:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 17:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2018/02/28 | 17:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2018/02/28 | 17:15:06.0 | XRT_PREFLR_STRT_406_OG [0x196]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2018/02/28 | 17:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/02/28 | 17:39:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2018/02/28 | 17:40:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 17:55:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 17:55:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 17:55:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2018/02/28 | 17:56:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2018/02/28 | 17:56:18.0 | XRT_FLD_DIS_425_OG [0x1a9]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2018/02/28 | 17:58:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2018/02/28 | 17:58:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2018/02/28 | 17:58:58.0 | XRT_QT_PROG_SET_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |  |  |  |  |
| 2018/02/28 | 17:59:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 18:05:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 18:05:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 18:05:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2018/02/28 | 18:06:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2018/02/28 | 18:06:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2018/02/28 | 18:06:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2018/02/28 | 18:06:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2018/02/28 | 18:06:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2018/02/28 | 18:06:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2018/02/28 | 18:08:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |  |  |  |  |
| 2018/02/28 | 18:08:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2018/02/28 | 18:09:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 18:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 18:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 18:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2018/02/28 | 18:52:36.0 | XRT_PREFLR_STRT_406_OG [0x196]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/02/28 | 18:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/02/28 | 19:15:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2018/02/28 | 19:16:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 20:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 20:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 20:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2018/02/28 | 20:29:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/02/28 | 20:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/02/28 | 20:53:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2018/02/28 | 20:54:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 22:06:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 22:06:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 22:06:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2018/02/28 | 22:06:36.0 | XRT_PREFLR_STRT_406_OG [0x196]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/02/28 | 22:09:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/02/28 | 22:29:00.5 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2018/02/28 | 22:30:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/02/28 | 23:44:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 23:44:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/02/28 | 23:44:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2018/02/28 | 23:44:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    |   |       |                |  |  |  |  |

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2018/02/28 | 23:47:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e8             |
| 2018/02/28 | 23:58:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2018/02/28 | 23:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 00:05:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 00:05:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 00:05:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2018/03/01 | 00:06:00.0 | AOCS_OrE-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |
| 2018/03/01 | 00:06:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2018/03/01 | 00:06:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2018/03/01 | 00:06:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2018/03/01 | 00:06:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2018/03/01 | 00:06:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2018/03/01 | 00:08:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 07          |
| 2018/03/01 | 00:08:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d          |
| 2018/03/01 | 00:09:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 01:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 01:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 01:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2018/03/01 | 01:13:36.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2018/03/01 | 01:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2018/03/01 | 01:27:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 01:28:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 02:43:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 02:43:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 02:43:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2018/03/01 | 02:43:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2018/03/01 | 02:46:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2018/03/01 | 03:03:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 03:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 04:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 04:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 04:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2018/03/01 | 04:11:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2018/03/01 | 04:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2018/03/01 | 04:40:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 04:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 05:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 05:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 05:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2018/03/01 | 05:51:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2018/03/01 | 05:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2018/03/01 | 06:18:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2018/03/01 | 06:19:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 06:27:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 06:27:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2018/03/01 | 06:27:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2018/03/01 | 06:28:00.5 | AOCS_OrE-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2018/03/01 | 06:28:18.0 | XRT_FLD_DIS_425_OG [0x1a9]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2018/03/01 | 06:30:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |                     |   |       |                |

|            |            |                                   |                           |   |       |                |
|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|
| 2018/03/01 | 06:30:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |
| 2018/03/01 | 06:30:58.0 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2018/03/01 | 06:31:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 0f          |
| 2018/03/01 | 06:37:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2018/03/01 | 06:37:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 06:37:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 06:38:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2018/03/01 | 06:38:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                   | 5 | 02-76 | 01 00 00 00 00 |
| 2018/03/01 | 06:38:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2018/03/01 | 06:38:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2018/03/01 | 06:38:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2018/03/01 | 06:38:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2018/03/01 | 06:40:56.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2018/03/01 | 06:40:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 01          |
| 2018/03/01 | 06:41:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0d          |
| 2018/03/01 | 07:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2018/03/01 | 07:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 07:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 07:31:36.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2018/03/01 | 07:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2018/03/01 | 07:55:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2018/03/01 | 07:56:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2018/03/01 | 09:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2018/03/01 | 09:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 09:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2018/03/01 | 09:11:06.0 | XRT_PREFLR_STRT_406_OG [0x196]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2018/03/01 | 09:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2018/03/01 | 09:31:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2018/03/01 | 09:32:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2018/03/01 | 10:00:00.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2018/03/01 | 10:52:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
|            |            | AOCU_NM                           |                           | 5 | 02-76 | 00 00 00 00 00 |