

# XRT Timeline to be uploaded on 2018/07/05

Period: 2018/07/05 10:10:00 - 2018/07/12 10:25:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| <b>XOB #1BE9: HOP81/206 2-filter - Al/poly 16s, Al/mesh 12s 30s cadence, G-band - 384x384 1ms</b>      |                       |  |  |  |  |  |                                     |  |  |  |  |  |
|--|-----------------------|--|--|--|--|--|-------------------------------------|--|--|--|--|--|
| Term   | Pointing (x, y)       |  |  |  |  |  | Comment                             |  |  |  |  |  |
| 07/05 10:23:00 - 07/05 14:45:30  | Fixed ( -18.0, 844.0) |  |  |  |  |  | # OP start + 10min/HOP81 North pole |  |  |  |  |  |
| <b>PROG= 15 1-time(s)</b>  |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Subr= 1 1-time(s) 2.0sec</b>   |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Seqn= 16 2-time(s) 2.0sec</b>  |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec            |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Subr= 2 1-time(s) 2.0sec</b>   |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Seqn= 90 1-time(s) 30.0sec</b>   |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec             |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Subr= 3 60-time(s) 2.0sec</b>  |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ <b>Seqn= 39 1-time(s) 30.0sec</b>   |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 11.3s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec        |                       |  |  |  |  |  |                                     |  |  |  |  |  |
| └─ Al-poly/Open Al-poly/Open close Safe Norm 16.0s 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 #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT</b> |                     |  |  |  |  |  |                     |  |  |  |  |  |
|--|---------------------|--|--|--|--|--|---------------------|--|--|--|--|--|
| Term   | Pointing (x, y)     |  |  |  |  |  | Comment             |  |  |  |  |  |
| 07/05 15:35:00 - 07/05 17:47:54  | Fixed ( 0.0, 930.0) |  |  |  |  |  | N-limb co-alignment |  |  |  |  |  |
| <b>PROG= 07 1-time(s)</b>  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ <b>Subr= 1 24-time(s) 300.0sec</b>  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ <b>Seqn= 98 1-time(s) 2.0sec</b>  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ Open/G-band Open/G-band open Safe Norm 1ms Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ <b>Seqn= 63 1-time(s) 2.0sec</b>  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ Open/G-band Open/G-band close Safe Norm 1ms Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec   |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ <b>Seqn= 45 1-time(s) 2.0sec</b>  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| └─ Al-poly/Open med-Be/Open close Safe Norm 4.00s Obs 2x2 2048x1536 (1024, 768) Q=95 0 0 2.0sec  |                     |  |  |  |  |  |                     |  |  |  |  |  |
| Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval   |                     |  |  |  |  |  |                     |  |  |  |  |  |

| <b>XOB #1BD8: Synoptic 7 Filter w/ Al-mesh(64/512/2897), Al-poly(45/512/4096), Thin-Be(1024/11571/23142) - Thick-Be(65536), Al-poly+Ti-poly(512/8192), Med</b> |                   |  |  |  |  |  |                             |  |  |  |  |  |
|--|-------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|
| Term   | Pointing (x, y)   |  |  |  |  |  | Comment                     |  |  |  |  |  |
| 07/05 17:51:00 - 07/05 17:57:54  | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted -12.0 min |  |  |  |  |  |
| 07/10 05:38:00 - 07/10 05:44:54  | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted -25.0 min |  |  |  |  |  |
| <b>PROG= 18 1-time(s)</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Subr= 1 1-time(s) 2.0sec</b>   |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 5 1-time(s) 2.0sec</b>   |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ 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  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 36 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ Open/Al-mesh Open/Al-mesh close Safe Norm 500ms 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  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 99 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ 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  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 33 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ 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  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 23 1-time(s) 4.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ 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  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Subr= 2 1-time(s) 2.0sec</b>   |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 46 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ Open/thick-Be Open/thick-Be close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 17 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ med-Al/Open med-Al/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ med-Al/Open med-Al/Open close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ <b>Seqn= 25 1-time(s) 2.0sec</b>  |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec   |                   |  |  |  |  |  |                             |  |  |  |  |  |
| └─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 8.00s Obs 2x2 2048x2048 (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   |                   |  |  |  |  |  |                             |  |  |  |  |  |

| <b>XOB #1AED: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec - (Al/poly) 1443msec - 8 min cadence-wNGT</b> |                      |  |  |  |  |  |                      |  |  |  |  |  |
|--|----------------------|--|--|--|--|--|----------------------|--|--|--|--|--|
| Term   | Pointing (x, y)      |  |  |  |  |  | Comment              |  |  |  |  |  |
| 07/05 18:13:00 - 07/05 19:59:54  | Fixed ( -970.0, 0.0) |  |  |  |  |  | #E-limb cp-alignment |  |  |  |  |  |
| <b>PROG= 01 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 |
| Seqn= 70       | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |            |          |   |        |
| Al-poly/Open   | med-Be/Open    | close    | Safe | Norm  | 1.41s | Obs | 2x2 | 1536x2048          | (1280, 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 #1B9A: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 180s cad (G-band/Leak first)**

| Term                            | Pointing (x, y)                        | Comment                                |
|---------------------------------|--|--|
| 07/05 20:21:31 - 07/05 23:59:54 | Track ( -18.3, 0.1) @ 07/05 20:00:00   | EIS QS observation at DC               |
| 07/06 00:13:00 - 07/06 06:05:24 | Fixed ( 882.0, -256.0)                 | EIS off-limb quiet corona observations |
| 07/10 05:48:00 - 07/10 08:51:00 | Track ( -775.1, -0.9) @ 07/10 05:45:00 | #New AR monitoring                     |

|                |                |          |      |       |       |     |     |                    |              |            |          |   |        |
|----------------|----------------|----------|------|-------|-------|-----|-----|--------------------|--------------|------------|----------|---|--------|
| PROG= 11       | Inf.-time(s)   |          |      |       |       |     |     |                    |              |            |          |   |        |
| Subr= 1        | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |            |          |   |        |
| Seqn= 30       | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |            |          |   |        |
| Open/G-band    | Open/G-band    | open     | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512            | (1024, 1024) | Q=90       | 0        | 0 | 2.0sec |
| Open/G-band    | Open/G-band    | close    | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512            | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| Subr= 2        | 20-time(s)     | 180.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Seqn= 8        | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |            |          |   |        |
| thin-Be/Open   | med-Be/Open    | close    | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048          | (1024, 1024) | Q=98       | 3        | 0 | 2.0sec |
| thin-Be/Open   | med-Be/Open    | close    | Safe | Norm  | 1.41s | Obs | 4x4 | 2048x2048          | (1024, 1024) | DPCM       | 2        | 0 | 2.0sec |
| Seqn= 6        | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |            |          |   |        |
| Al-poly/Open   | Al-poly/Open   | close    | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048          | (1024, 1024) | Q=98       | 3        | 0 | 2.0sec |
| Al-poly/Open   | Al-poly/Open   | close    | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048          | (1024, 1024) | DPCM       | 2        | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS      | mode | image | Exp.  | CCD | Bin | ROI: size (center) | Comp.        | AEC Buffer | Interval |   |        |

**XOB #1B8B: Synoptic Q95 2x2 - Al/mesh(64/512/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(45/512/4096) + T**

| Term                            | Pointing (x, y)   | Comment                   |
|---------------------------------|-------------------|---------------------------|
| 07/06 00:03:00 - 07/06 00:09:54 | Fixed ( 0.0, 0.0) | XRT additional synoptic   |
| 07/06 06:08:30 - 07/06 06:15:30 | Fixed ( 0.0, 0.0) | synoptic, shifted 5.5 min |
| 07/09 18:08:00 - 07/09 18:14:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 5.0 min |

|                |                  |        |      |       |       |     |     |                    |              |            |          |   |        |
|----------------|------------------|--------|------|-------|-------|-----|-----|--------------------|--------------|------------|----------|---|--------|
| PROG= 02       | 1-time(s)        |        |      |       |       |     |     |                    |              |            |          |   |        |
| 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= 27       | 1-time(s)        | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 63ms  | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 2.00s | 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= 85       | 1-time(s)        | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| thin-Be/Open   | thin-Be/Open     | close  | Safe | Norm  | 354ms | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| thin-Be/Open   | thin-Be/Open     | close  | Safe | Norm  | 2.83s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| thin-Be/Open   | thin-Be/Open     | close  | Safe | Norm  | 16.0s | 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 #1BC7: CCD Monitor During Bakeout - G-band 1ms - 1kx1k - Q90 - 1st Quadrant -Al/mesh(2048ms), Al/Poly(4096ms) - w leak image-1ms**

| Term                            | Pointing (x, y)         | Comment   |
|---------------------------------|-------------------------|-----------|
| 07/09 12:48:00 - 07/09 12:54:54 | Fixed ( -528.4, -528.4) | XRT QRD#1 |

|                |                |        |      |       |       |     |     |                    |              |            |          |   |        |
|----------------|----------------|--------|------|-------|-------|-----|-----|--------------------|--------------|------------|----------|---|--------|
| PROG= 20       | 1-time(s)      |        |      |       |       |     |     |                    |              |            |          |   |        |
| Subr= 1        | 1-time(s)      | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Seqn= 51       | 1-time(s)      | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Open/G-band    | Open/G-band    | open   | Safe | Norm  | 1ms   | Obs | 1x1 | 1024x1024          | (1536, 1536) | Q=90       | 0        | 0 | 2.0sec |
| Open/G-band    | Open/G-band    | open   | Safe | Norm  | 1ms   | Obs | 1x1 | 1024x1024          | (1536, 1536) | Q=90       | 0        | 0 | 2.0sec |
| Open/thick-Be  | Open/thick-Be  | close  | Safe | Dark  | 1ms   | Obs | 1x1 | 1024x1024          | (1536, 1536) | Q=98       | 0        | 0 | 2.0sec |
| Open/thick-Be  | Open/thick-Be  | close  | Safe | Dark  | 1ms   | Obs | 1x1 | 1024x1024          | (1536, 1536) | Q=98       | 0        | 0 | 2.0sec |
| Subr= 2        | 1-time(s)      | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Seqn= 3        | 2-time(s)      | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Open/Al-mesh   | Open/Al-mesh   | close  | Safe | Norm  | 2.00s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| Al-poly/Open   | Al-poly/Open   | close  | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95       | 0        | 0 | 2.0sec |
| Subr= 3        | 2-time(s)      | 2.0sec |      |       |       |     |     |                    |              |            |          |   |        |
| Seqn= 34       | 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 #1BC8: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms**

| Term                            | Pointing (x, y)   | Comment   |
|---------------------------------|---|-----------|
| 07/09 12:58:00 - 07/09 13:04:54 | Fixed ( 528.4, -528.4)  | XRT QRD#2 |
| <b>PROG= 05 1-time(s)</b>       |   |           |
| Subr= 1 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 38 1-time(s) 2.0sec    |   |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 1024x1024 (512, 1536) Q=90 0 0 2.0sec            |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 1024x1024 (512, 1536) Q=90 0 0 2.0sec            |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 1024x1024 (512, 1536) Q=98 0 0 2.0sec         |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 1024x1024 (512, 1536) Q=98 0 0 2.0sec         |           |
| Subr= 2 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 3 2-time(s) 2.0sec     |   |           |
| Open/Al-mesh                    | Open/Al-mesh close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Al-poly/Open                    | Al-poly/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Subr= 3 2-time(s) 2.0sec        |   |           |
| └─ Seqn= 34 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 #1BC9: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 3rd Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms**

| Term                            | Pointing (x, y)   | Comment   |
|---------------------------------|---|-----------|
| 07/09 13:08:05 - 07/09 13:14:54 | Fixed ( 528.4, 528.4)   | XRT QRD#3 |
| <b>PROG= 06 1-time(s)</b>       |   |           |
| Subr= 1 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 21 1-time(s) 2.0sec    |   |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 2048x1536 (1024, 768) Q=90 0 0 2.0sec            |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 2048x1536 (1024, 768) Q=90 0 0 2.0sec            |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 2048x1536 (1024, 768) Q=98 0 0 2.0sec         |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 2048x1536 (1024, 768) Q=98 0 0 2.0sec         |           |
| Subr= 2 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 3 2-time(s) 2.0sec     |   |           |
| Open/Al-mesh                    | Open/Al-mesh close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Al-poly/Open                    | Al-poly/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Subr= 3 2-time(s) 2.0sec        |   |           |
| └─ Seqn= 34 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 #1BCA: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms**

| Term                            | Pointing (x, y)   | Comment   |
|---------------------------------|---|-----------|
| 07/09 13:18:00 - 07/09 13:24:54 | Fixed ( -528.4, 528.4)  | XRT QRD#4 |
| <b>PROG= 09 1-time(s)</b>       |   |           |
| Subr= 1 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 14 1-time(s) 2.0sec    |   |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 1536x2048 (1280, 1024) Q=90 0 0 2.0sec           |           |
| Open/G-band                     | Open/G-band open Safe Norm 1ms Obs 1x1 1536x2048 (1280, 1024) Q=90 0 0 2.0sec           |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 1536x2048 (1280, 1024) Q=98 0 0 2.0sec        |           |
| Open/thick-Be                   | Open/thick-Be close Safe Dark 1ms Obs 1x1 1536x2048 (1280, 1024) Q=98 0 0 2.0sec        |           |
| Subr= 2 1-time(s) 2.0sec        |   |           |
| └─ Seqn= 3 2-time(s) 2.0sec     |   |           |
| Open/Al-mesh                    | Open/Al-mesh close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Al-poly/Open                    | Al-poly/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |           |
| Subr= 3 2-time(s) 2.0sec        |   |           |
| └─ Seqn= 34 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 #1BA1: HOP336 1-filter - Al/poly -384x384, 512ms and 4s, 60s-cadence, G-band - 384x384 1ms**

| Term                            | Pointing (x, y)   | Comment     |
|---------------------------------|---|-------------|
| 07/09 13:28:00 - 07/09 18:04:54 | Fixed ( -18.0, 504.0)   | HOP336 N40  |
| 07/09 18:18:00 - 07/09 21:14:54 | Fixed ( -18.0, -767.0)  | #HOP336 S45 |
| <b>PROG= 17 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    |             |
| 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 15-time(s) 2.0sec       |   |             |
| └─ Seqn= 68 1-time(s) 60.0sec   |   |             |
| Al-poly/Open                    | Al-poly/Open 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 500ms 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 #1B95: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 90s cad (G-band/Leak first)**

| Term                            | Pointing (x, y)                       | Comment           |
|---------------------------------|---------------------------------------|-------------------|
| 07/09 21:18:00 - 07/09 23:40:30 | Track ( -816.7, 3.8) @ 07/09 21:15:00 | New AR monitoring |
| 07/10 03:27:30 - 07/10 05:34:54 | Track ( -789.2, 0.6) @ 07/10 03:00:00 | New AR monitoring |

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

| Subr= 1      | 1-time(s)          | 2.0sec   |
|--------------|--------------------|--|
| Seqn= 30     | 1-time(s)          | 2.0sec   |
| Open/G-band  | Open/G-band open   | Safe Norm 1ms Obs 1x1 512x512 (1024, 1024) Q=90 0 0 2.0sec     |
| Open/G-band  | Open/G-band close  | Safe Norm 1ms Obs 1x1 512x512 (1024, 1024) Q=95 0 0 2.0sec     |
| Subr= 2      | 40-time(s)         | 90.0sec  |
| Seqn= 8      | 1-time(s)          | 2.0sec   |
| thin-Be/Open | med-Be/Open close  | Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec |
| thin-Be/Open | med-Be/Open close  | Safe Norm 1.41s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec |
| Seqn= 6      | 1-time(s)          | 2.0sec   |
| Al-poly/Open | Al-poly/Open close | Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec |
| Al-poly/Open | Al-poly/Open close | Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec |

**XOB #1BE2: HOP349 - 3-filter Synoptics (Al-mesh[24/256/2897], Al-poly[45/512/4096], thin-Be[1024/11571/23142] with 512x512 G-band+Leak - 90min cad) +**

| Term                            | Pointing (x, y)   | Comment             |
|---------------------------------|-------------------|---------------------|
| 07/10 00:11:00 - 07/10 02:53:30 | Fixed ( 0.0, 0.0) | HOP349 XRT synoptic |

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

| Subr= 1      | 1-time(s)              | 300.0sec   |
|--------------|------------------------|--|
| 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= 30     | 1-time(s)              | 2.0sec   |
| Open/G-band  | Open/G-band open       | Safe Norm 1ms Obs 1x1 512x512 (1024, 1024) Q=90 0 0 2.0sec     |
| Open/G-band  | Open/G-band close      | Safe Norm 1ms Obs 1x1 512x512 (1024, 1024) Q=95 0 0 2.0sec     |
| Subr= 2      | 18-time(s)             | 300.0sec   |
| Seqn= 8      | 1-time(s)              | 2.0sec   |
| thin-Be/Open | med-Be/Open close      | Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec |
| thin-Be/Open | med-Be/Open close      | Safe Norm 1.41s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec |
| Seqn= 6      | 1-time(s)              | 2.0sec   |
| Al-poly/Open | Al-poly/Open close     | Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec |
| Al-poly/Open | Al-poly/Open close     | Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec |
| Seqn= 29     | 1-time(s)              | 2.0sec   |
| Open/Al-mesh | Open/Al-mesh close     | Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec |
| Open/Al-mesh | Open/Al-mesh close     | Safe Norm 250ms Obs 4x4 2048x2048 (1024, 1024) Q=98 2 0 2.0sec |

\* \* \* \* \*

**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                                |
|---------------------------------|--|--|
| 07/05 10:23:00 - 07/05 14:45:30 | Fixed ( -18.0, 844.0)                  | # OP start + 10min/HOP81 North pole    |
| 07/05 20:21:31 - 07/05 23:59:54 | Track ( -18.3, 0.1) @ 07/05 20:00:00   | EIS QS observation at DC               |
| 07/06 00:13:00 - 07/06 06:05:24 | Fixed ( 882.0, -256.0)                 | EIS off-limb quiet corona observations |
| 07/09 13:28:00 - 07/09 18:04:54 | Fixed ( -18.0, 504.0)                  | HOP336 N40                             |
| 07/09 18:18:00 - 07/09 21:14:54 | Fixed ( -18.0, -767.0)                 | #HOP336 S45                            |
| 07/09 21:18:00 - 07/09 23:40:30 | Track ( -816.7, 3.8) @ 07/09 21:15:00  | New AR monitoring                      |
| 07/10 03:27:30 - 07/10 05:34:54 | Track ( -789.2, 0.6) @ 07/10 03:00:00  | New AR monitoring                      |
| 07/10 05:48:00 - 07/10 08:51:00 | Track ( -775.1, -0.9) @ 07/10 05:45:00 | #New AR monitoring                     |

**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 |
| <b>Seqn= 87      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                      |       |            |          |        |
| 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-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

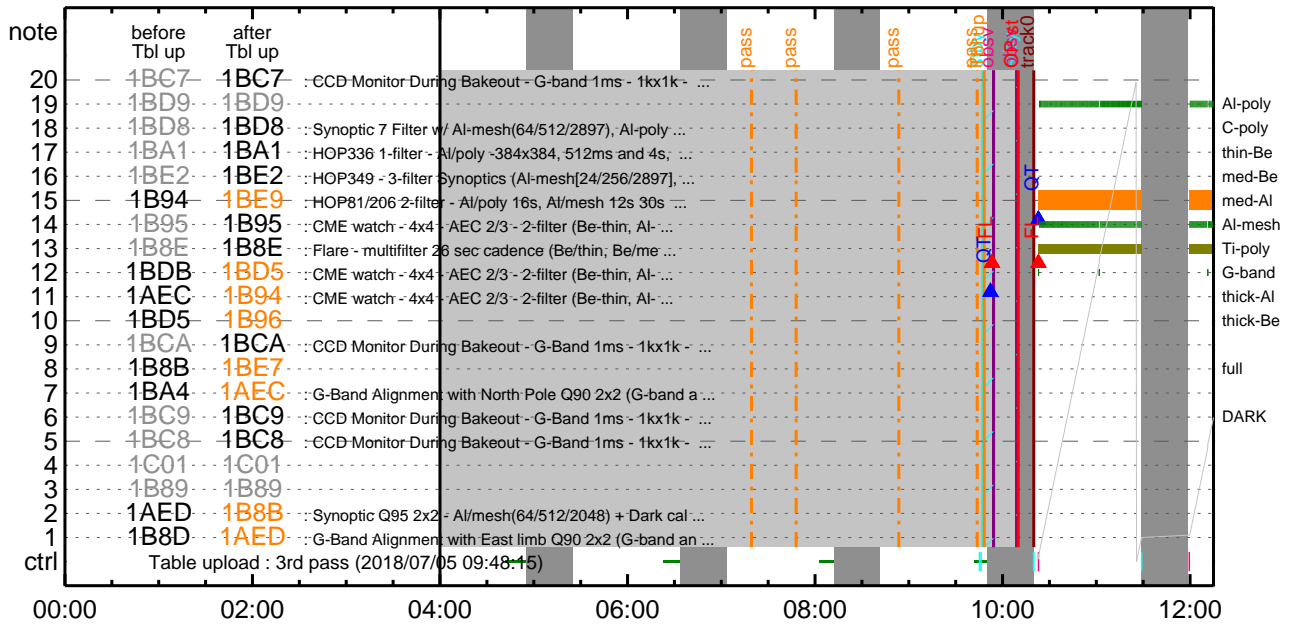
\* \* \* \* \*

### Flare Detection

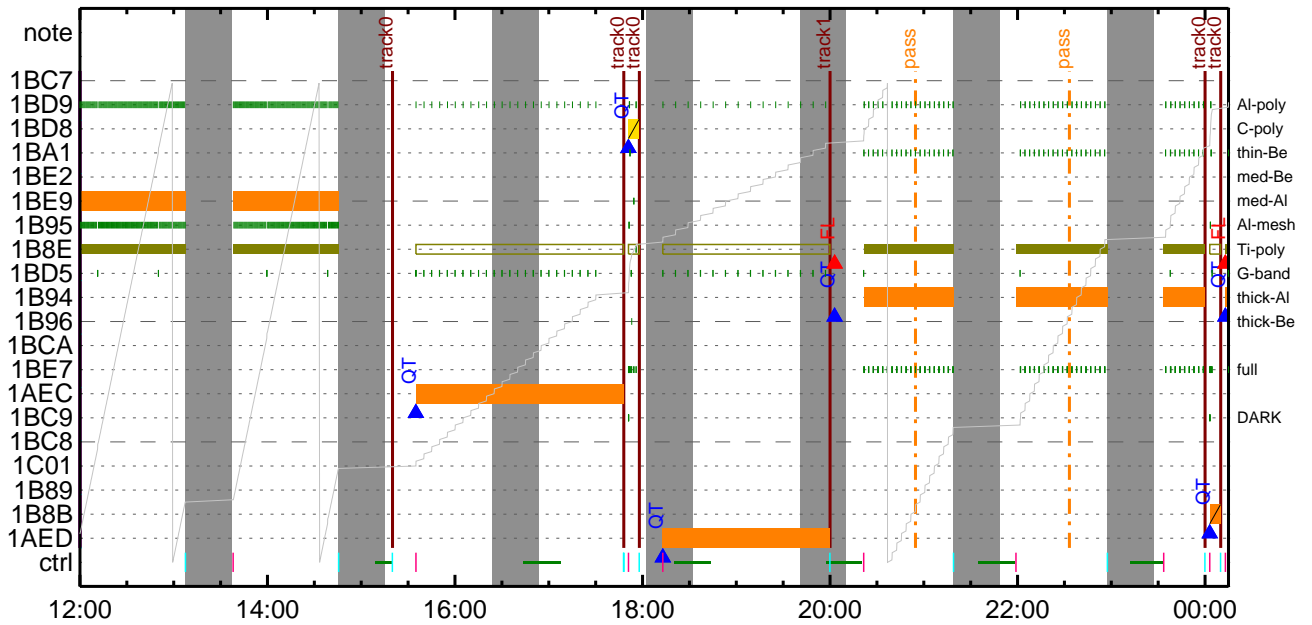
\* \* \* \* \*

| <b>FLD Patrol</b>               |                 |         |         |                  |  |     |     |                    |       |            |          |  |
|---------------------------------|-----------------|---------|---------|------------------|--|-----|-----|--------------------|-------|------------|----------|--|
| Term                            | Pointing (x, y) |         |         |                  | Comment                                |     |     |                    |       |            |          |  |
| 07/05 20:00:16 - 07/06 00:00:16 | Track (         | -18.3,  | 0.1)    | @ 07/05 20:00:00 | EIS QS observation at DC               |     |     |                    |       |            |          |  |
| 07/06 00:10:16 - 07/06 06:05:46 | Fixed (         | 882.0,  | -256.0) |                  | EIS off-limb quiet corona observations |     |     |                    |       |            |          |  |
| 07/09 13:25:16 - 07/09 18:05:16 | Fixed (         | -18.0,  | 504.0)  |                  | HOP336 N40                             |     |     |                    |       |            |          |  |
| 07/09 18:15:16 - 07/10 00:00:16 | Fixed (         | -18.0,  | -767.0) |                  | #HOP336 S45                            |     |     |                    |       |            |          |  |
| 07/10 03:00:16 - 07/10 05:35:18 | Track (         | -789.2, | 0.6)    | @ 07/10 03:00:00 | New AR monitoring                      |     |     |                    |       |            |          |  |
| 07/10 05:45:16 - 07/12 10:25:00 | Track (         | -775.1, | -0.9)   | @ 07/10 05:45:00 | #New AR monitoring                     |     |     |                    |       |            |          |  |
| Al-poly/Open                    | Al-poly/Open    | close   | Safe    | Norm             | 8ms                                    | Obs | 8x8 |                    | Q=50  |            | 30sec    |  |
| Default Filter                  | Thicker Filter  | VLS     | mode    | image            | Exp.                                   | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |  |

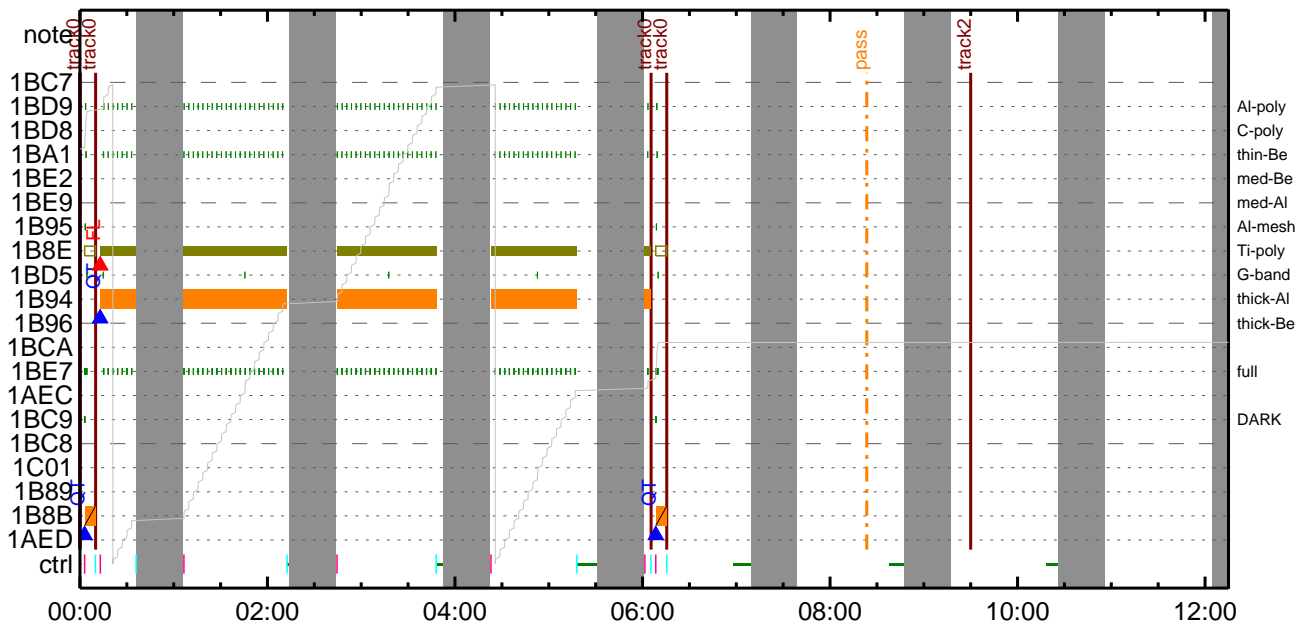
### CMDI #0606 2018/07/05



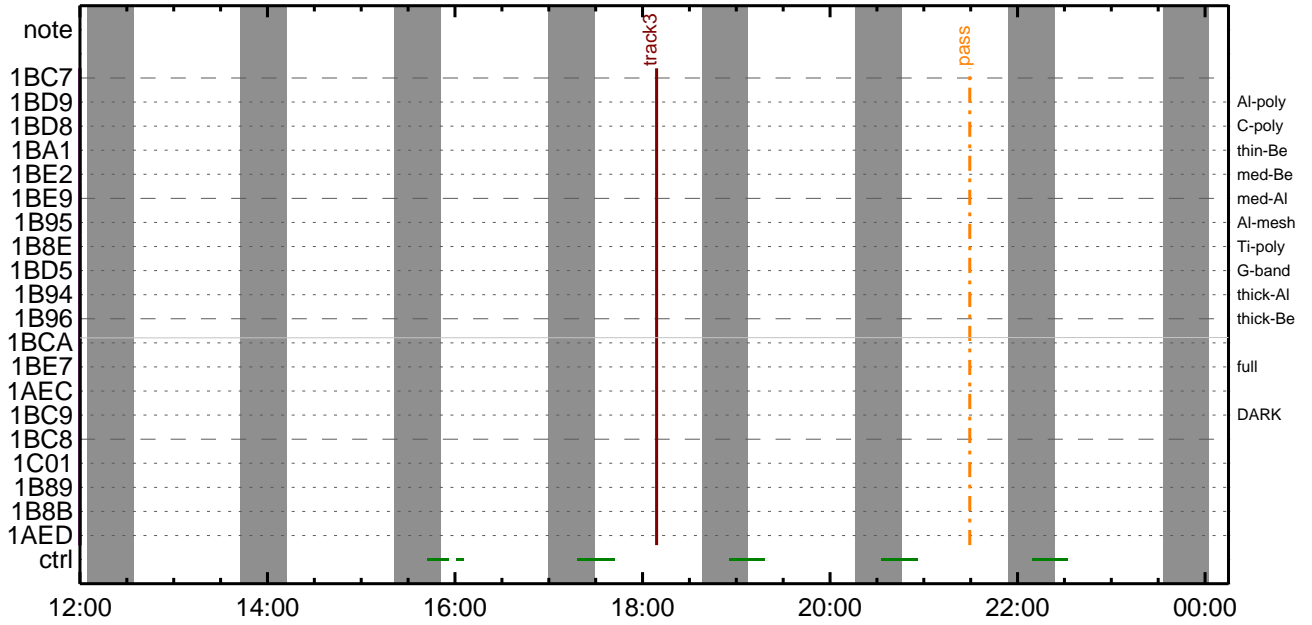
### CMDI #0606 2018/07/05



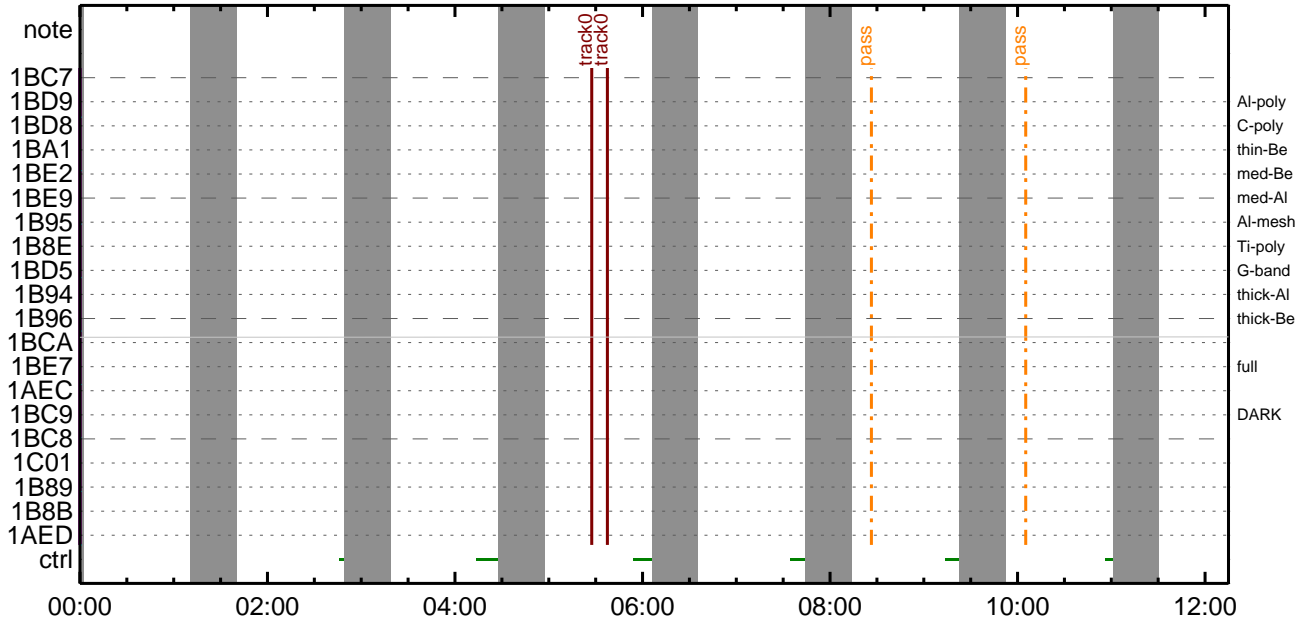
### CMDI #0606 2018/07/06



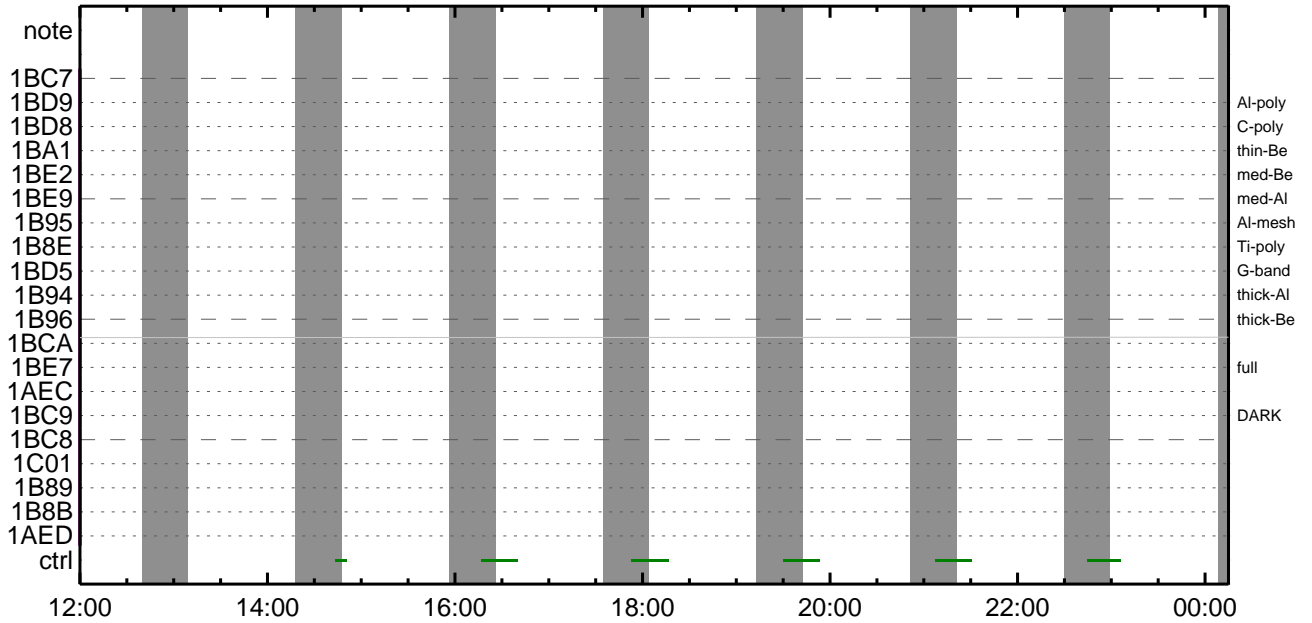
CMDI #0606 2018/07/06



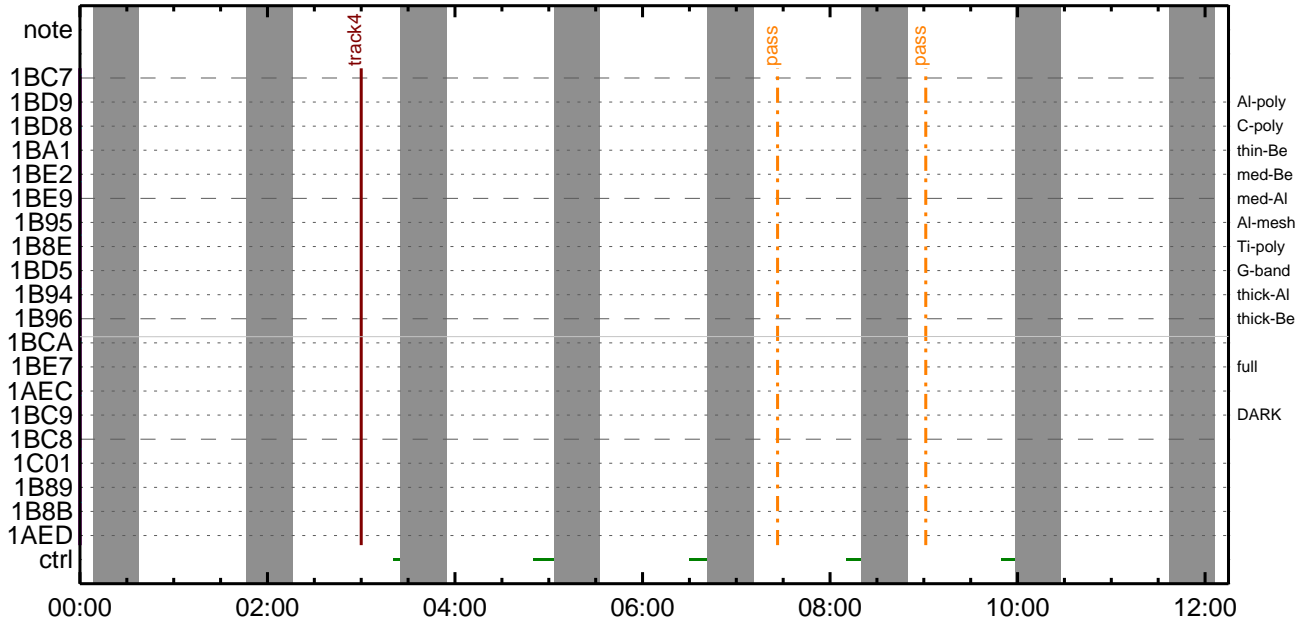
CMDI #0606 2018/07/07



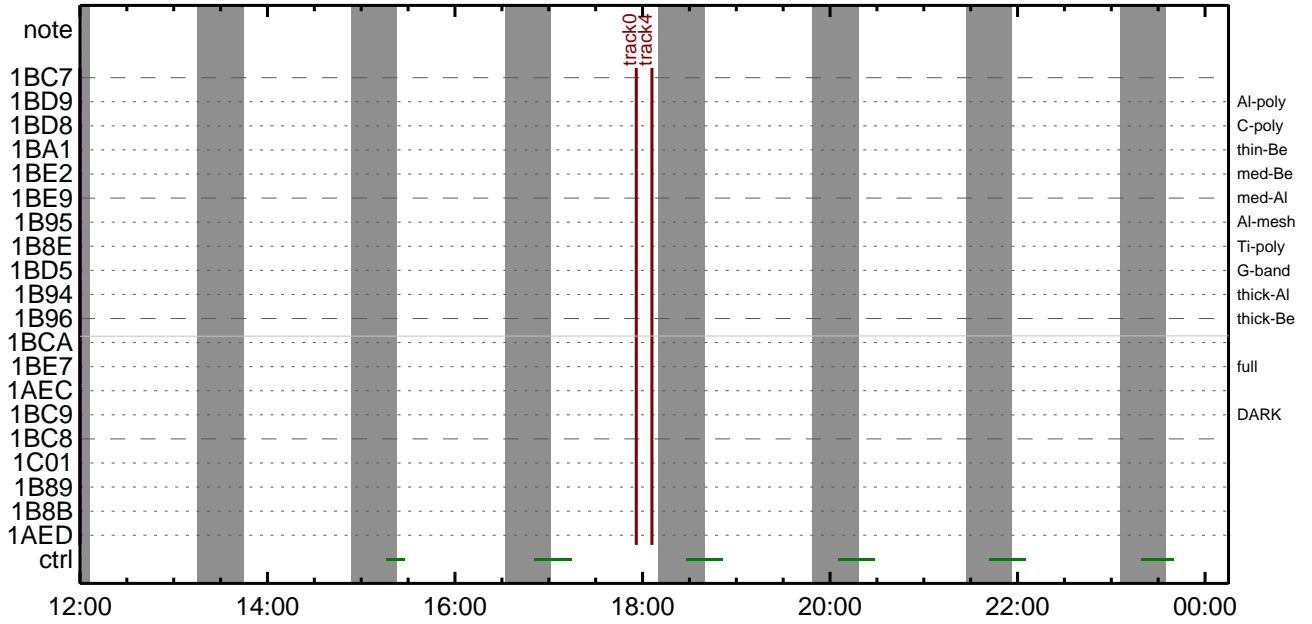
CMDI #0606 2018/07/07



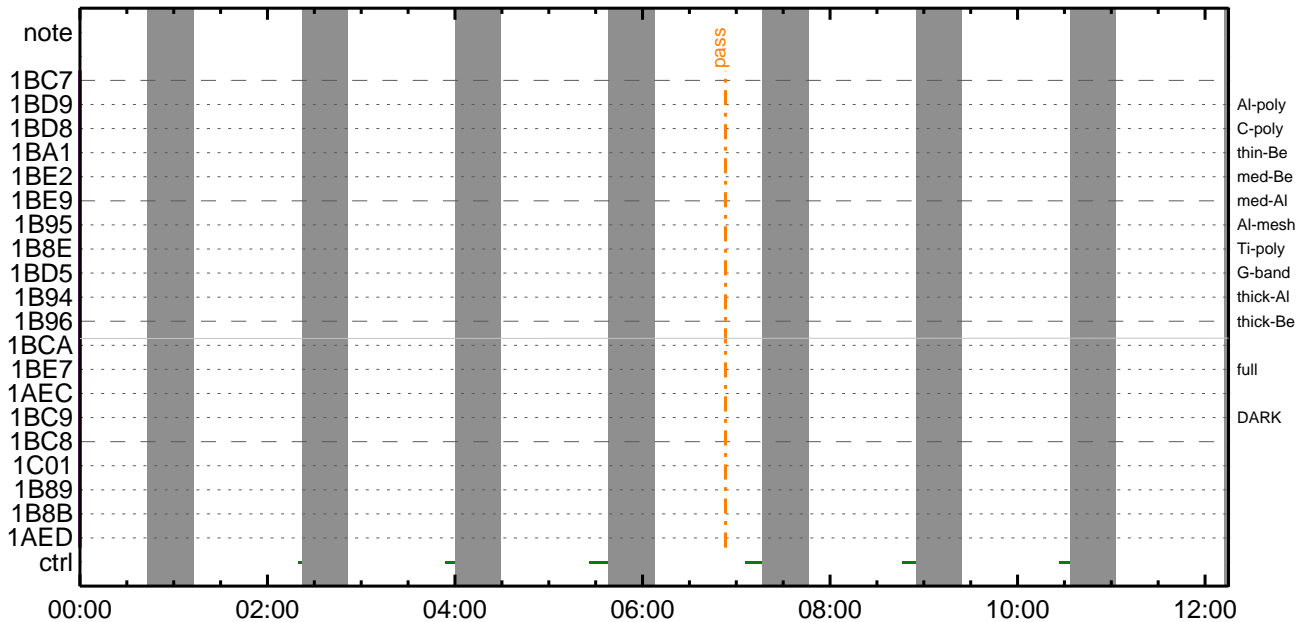
CMDI #0606 2018/07/08



CMDI #0606 2018/07/08

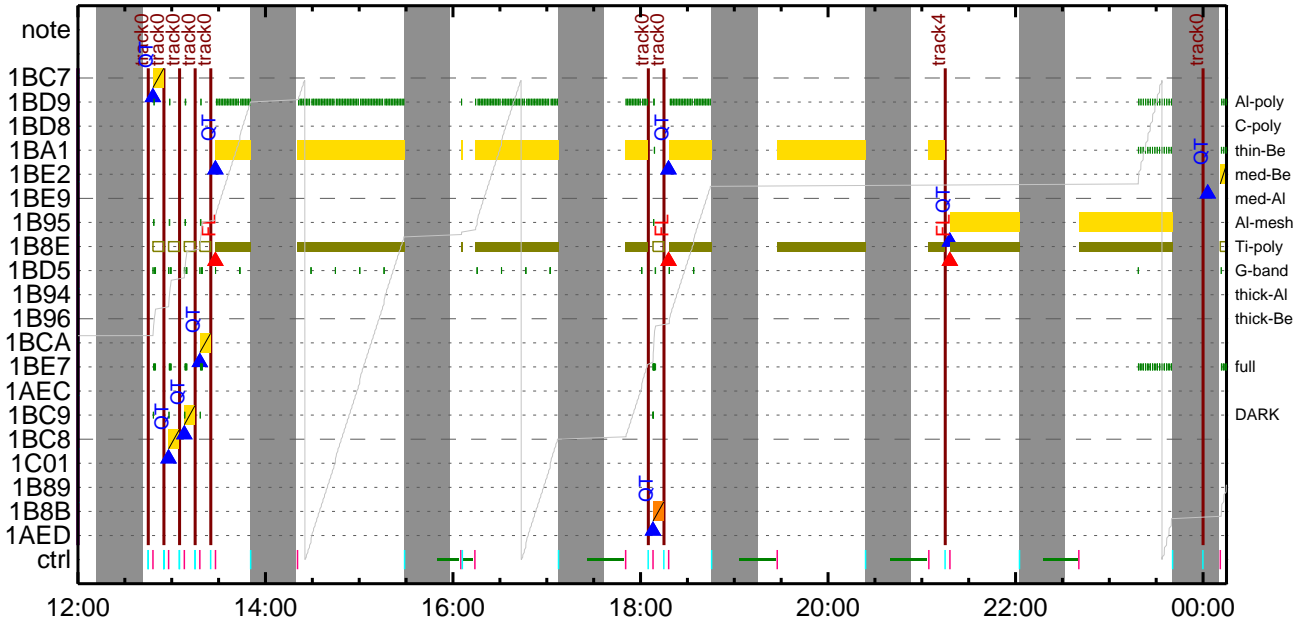


CMDI #0606 2018/07/09

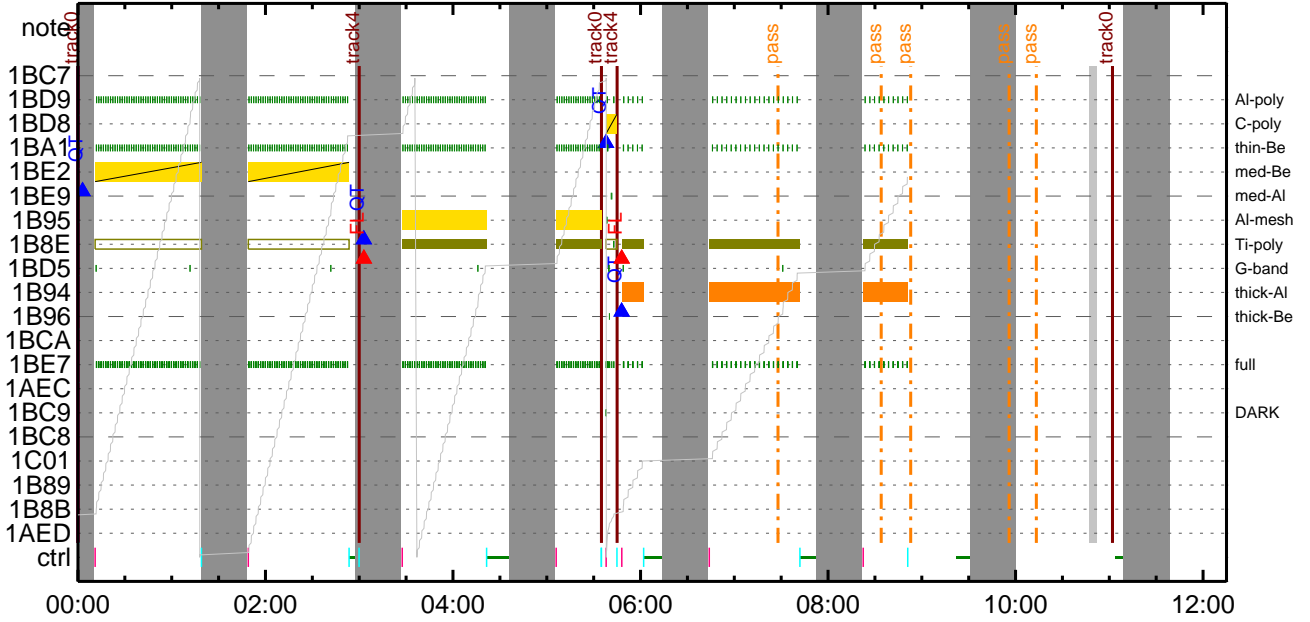




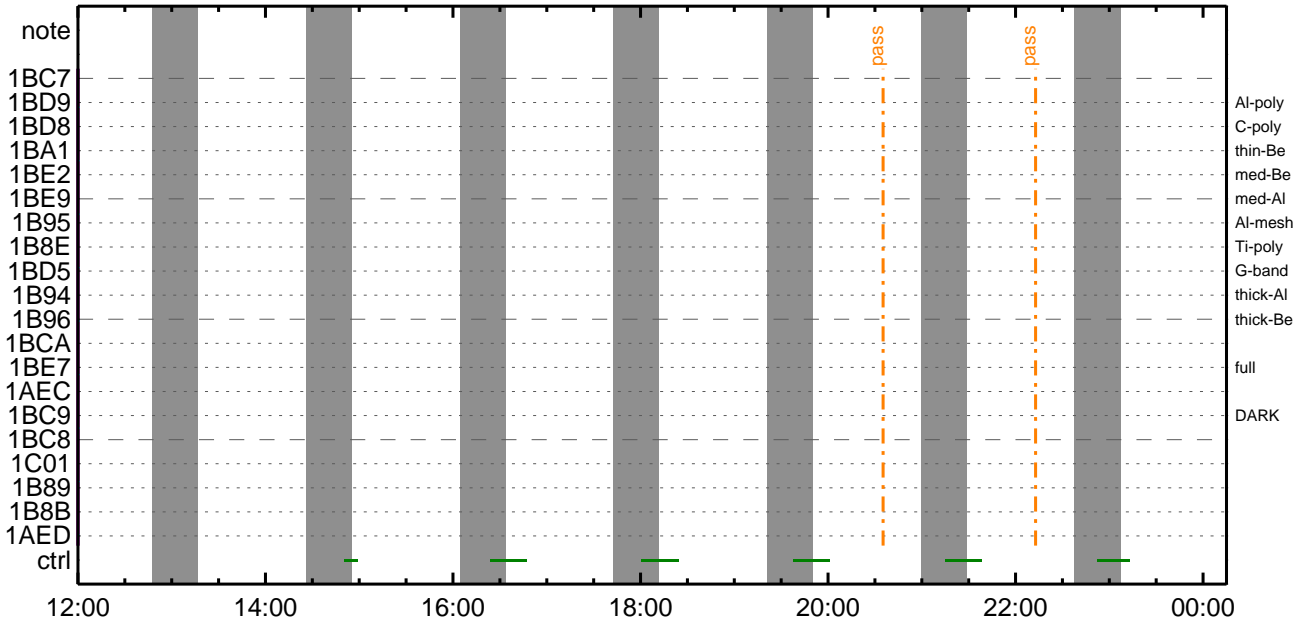
CMDI #0606 2018/07/09



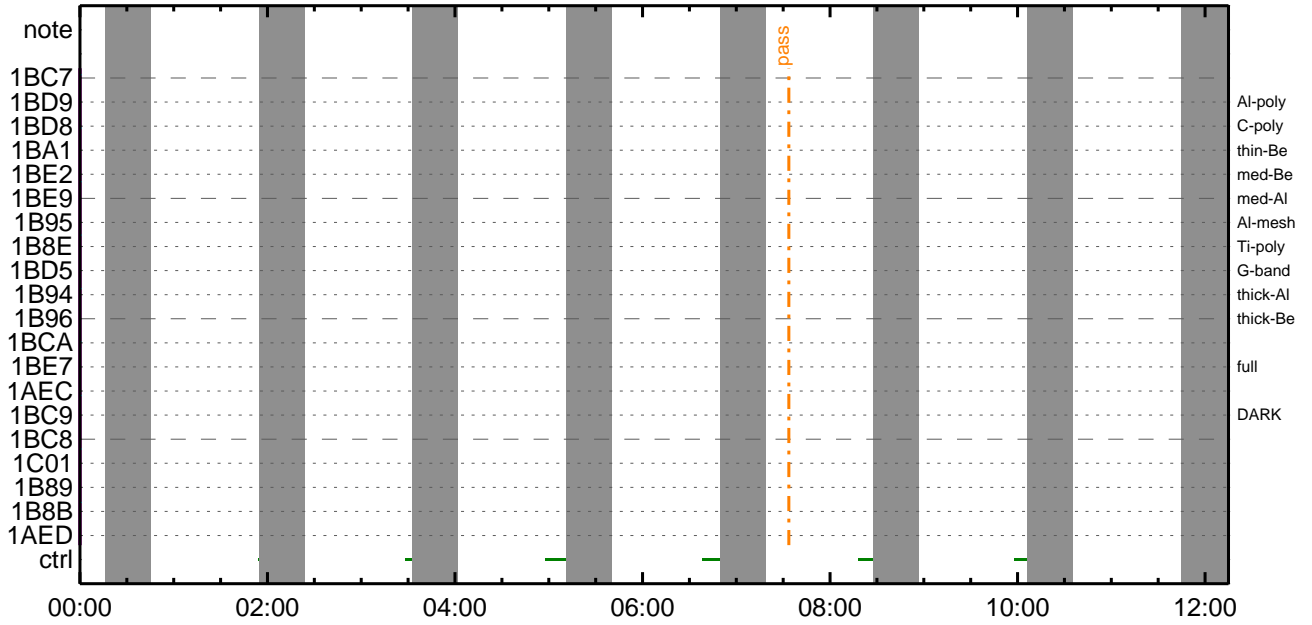
CMDI #0606 2018/07/10



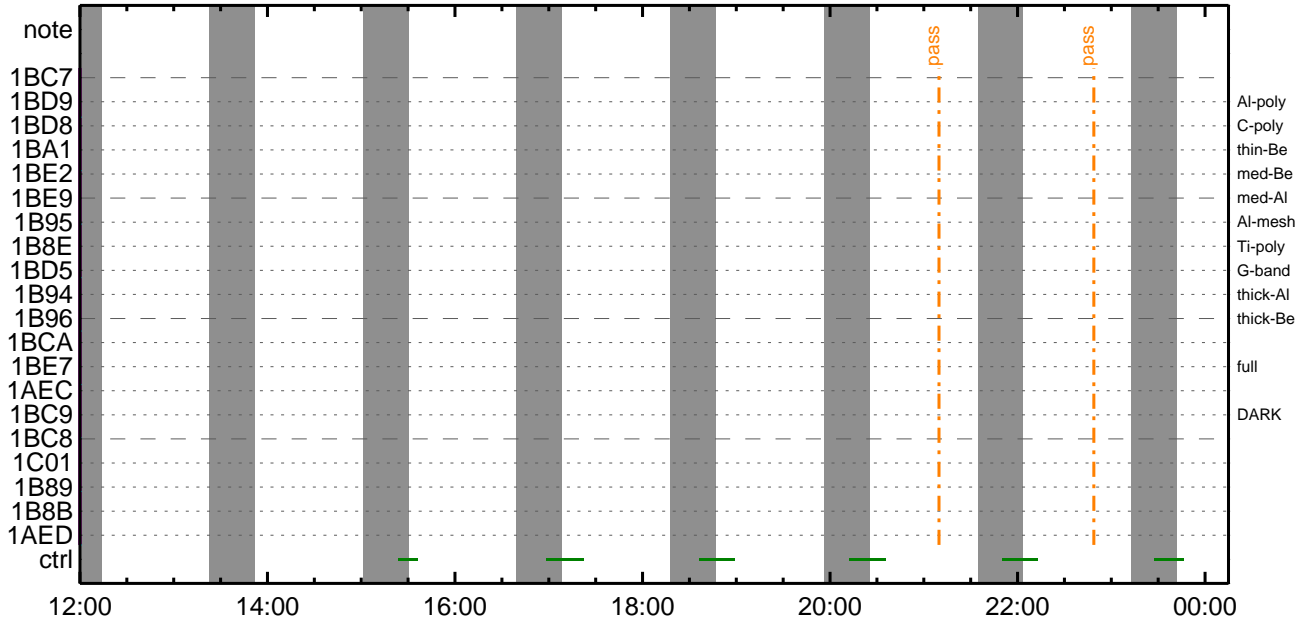
CMDI #0606 2018/07/10



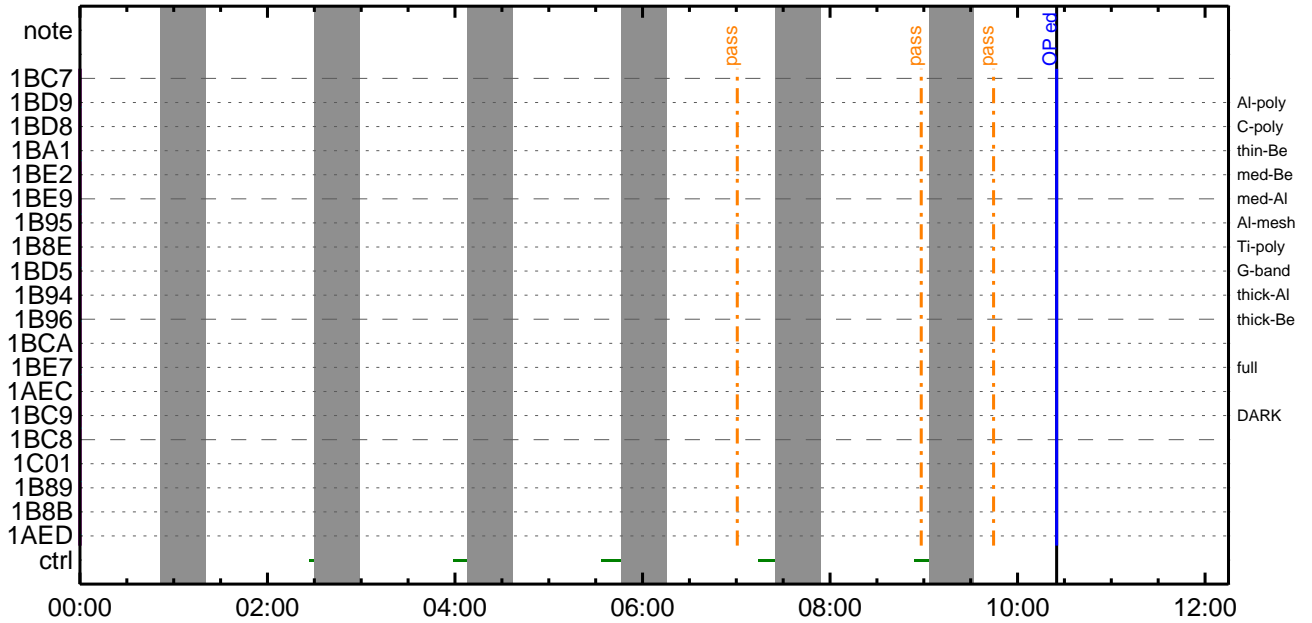
CMDI #0606 2018/07/11



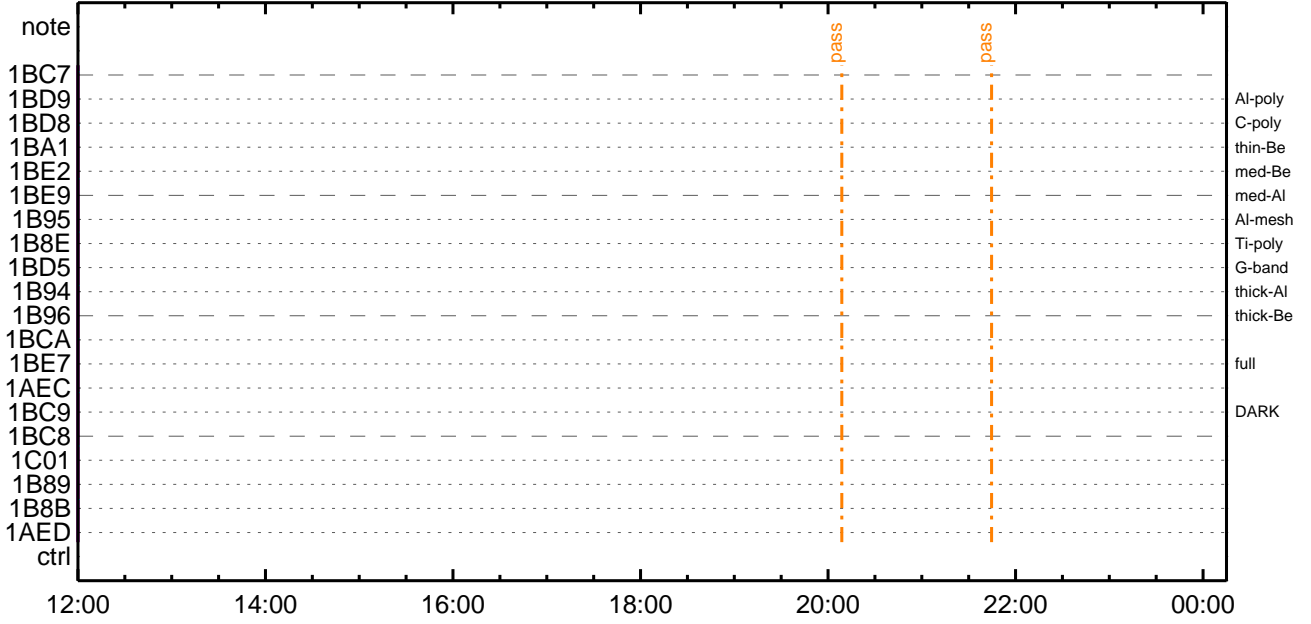
CMDI #0606 2018/07/11



CMDI #0606 2018/07/12



CMDI #0606 2018/07/12





```

0096 C.          0x00; SET 0x00 DUMP 0x00 0x00 0x00 0x00 0x00 0x00
0097 C.
0098 C. TI 2018-07-05 10:05:00.0
0099 +. TI 2018-07-05 10:05:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.          0x00 [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0102 C.
0103 +. TI 2018-07-05 10:05:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.          0x00 [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0106 C.
0107 +. TI 2018-07-05 10:05:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.          0x00 [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0110 C.
0111 +. TI 2018-07-05 10:09:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.          0x00 [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0114 C.
0115 C.          0x00 [HK1_TI_CMD_ENA/DIS]        EQ          ENA
0116 C.          0x00 [HK1_TI_CMD_NUM]          EQ          4
0117 C.          0x00 [HK1_NEXT_EXEC_PIM]        EQ          DHU
0118 C.          0x00 [HK1_NEXT_EXEC_DC]         EQ          0xB3
0119 C.
0120 C.
0121 C. *****
0122 C. TI 2018-07-05 10:09:59.5
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.          0x00 [HK1_DMP_TOP_ADRS_1]        EQ          07
0129 C.          0x00 [HK1_DMP_TOP_ADRS_0]        EQ          2B
0130 C.          0x00 [HK1_DMP_BLOCK_NUM]         EQ          3
0131 C.          0x00 [HK1_DMP_REPEAT_NUM]        EQ          0
0132 C.          0x00 [HK1_DMA_DMP_PIM]          EQ          DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.          0x00 [HK1_PKT_FORM_NO]           EQ          7
0136 C.          0x00 [HK1_PKT_GEN_TIME]          EQ          0.25 s
0137 C.          0x00 [HK1_S_TLM_BIT_RATE]        EQ          32k
0138 C.          0x00 [HK1_X_TLM_BIT_RATE]       EQ          4M
0139 C.          0x00 [HK1_DMP_CHK_FLG]          EQ          EXEC
0140 C.
0141 C.          0x00 [HK1_DMP_CHK_FLG]          EQ          NON
0142 C.
0143 C.
0144 C. RAM ID=TI_TBL 0x03AB00-0x03AEFF
0145 C.
0146 C. DHU 2018-07-05 10:09:59.5
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.          0x00 [HK1_PKT_FORM_NO]           EQ          2
0150 C.          0x00 [HK1_PKT_GEN_TIME]          EQ          0.5S
0151 C.          0x00 [HK1_S_TLM_BIT_RATE]        EQ          32K
0152 C.          0x00 [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 2018-07-05 10:09:16.0
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 2018-07-05 10:09:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2018-07-05 10:09:40.0
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 2018-07-05 10:09:00.0
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 2018-07-05 10:09:00.0 *****
0192 C. (%A 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00)
0193 C. DC-BC dcbc-402:DCBC

```

```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥D¥!•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-490 2018-07-05 14:10:41 138 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFYÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. ÁíÊ¿µ°Æ»Í×ÁÇóÍYçYÁY×Yí;¼YÉ;ÊÈµ·íÉ;ÈE¼°ÇÓα·α¿¼í¹çαÍ;çÀ®, ùα¹αÈBαÇÁ+¿®α·αÊααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop SP table >
0018 +. DC 07-F0 MDP_SP_CTRL_MANU
0019 BC (61)
0020 C. -----
0021 C. MDP_SP_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload SP Observation Table>
0025 . S. RAM ram-282:MDP_OBS_S
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_S >
0029 +. DC 07-F0 MDP_DUMP_SPTBL
0030 BC (83 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_S 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 2018-07-05 10:09:18.0
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_CTRL_MANU
0052 BC (c1)
0053 + DC 07-F0 MDP_XRT_MODE_STBY
0054 BC (c3)
0055 . C. ----- Success Verify ? OK / NG____
0056 C.
0057 C. XRT Obs. Table Upload
0058 . S. RAM ram-291:MDP_OBS_X
0059 ( )
0060 C.
0061 +. DC 07-F0 MDP_DUMP_XRTTBL
0062 BC (84 07 00 00 00 3a d4)
0063 . C. ----- Comparison Check ? OK / ERR ____
0064 C.
0065 C.
0066 +. DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 01 b1 b1 04 04)
0068 + DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 02 b1 b1 08 08)
0070 + DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 03 b1 b1 08 08)
0072 + DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 04 b1 b1 06 06)
0074 + DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 06 80 80 20 20)
0076 + DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 80 80 08 08)
0078 + DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 85 83 06 06)
0080 + DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 60 20 18)
0082 + DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 80 20 08)
0084 + DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0b 80 80 08 20)
0086 + DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0c a0 80 18 20)
0088 + DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 0d c0 c0 10 10)
0090 + DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 0e 40 c0 10 10)
0092 + DC 07-F0 MDP_XRT_ROI_SET
0093 BC (cd 0f 80 80 06 06)
0094 + DC 07-F0 MDP_XRT_ROI_SET
0095 BC (cd 10 80 80 08 08)
```

0096 + DC 07-F0 MDP\_XRT\_FLD\_ENA  
0097 BC (d8)  
0098 + DC 07-F0 MDP\_XRT\_FLRCTRL\_ENA  
0099 BC (c8)  
0100 + DC 07-F0 MDP\_XRT\_ARS\_DIS  
0101 BC (d5)  
0102 + DC 07-F0 MDP\_XRT\_AEC\_RESET  
0103 BC (d0)  
0104 + DC 07-F0 MDP\_XRT\_FLD\_RESET  
0105 BC (da)  
0106 + DC 07-F0 MDP\_XRT\_QT\_PROG\_SET  
0107 BC (c4 0c)  
0108 + DC 07-F0 MDP\_XRT\_FL\_PROG\_SET  
0109 BC (c5 0d)  
0110 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0111 C.  
0112 C.  
0113 . C. All OK? Yes--> Please Proceed. / No --> Stop here.  
0114 C.  
0115 + DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0116 BC (c2)  
0117 + TI 2018-07-05 10:09:02.0  
0118 DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0119 BC (c2)  
0120 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0121 C.  
0122 C. \*\*\*\*\* XRT END \*\*\*\*\*  
0123 C.  
0124 . C. \*\*\*\*\* MDP 'ûÃîñî»ö¼ÿñÊÃðñ¹ñèDCBC•x²è \*\*\*\*\*  
0125 C. (¼ã°îÿÓÿÃÿÈÿPÿËÿãÿçÿèñ¼çñ¼Ã»Ûñ¹ñè)  
0126 . S. DC-BC dcbc-402:DCBC  
0127 (MDP\_known\_event)  
0128 C.  
0129 C.  
0130 . C. \*\*\*\*\* ÿDÿ¹•ï Daily±;îññÈ'Øñ¹ñèDCBC•x²è \*\*\*\*\*  
0131 . S. DC-BC dcbc-153:DCBC  
0132 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0133 C.  
0134 C.  
0135 . C. ;ãLOSÿÃÿSÿËÿ¼Ã»Û;ã  
0136 C.  
0137 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0138 C.

Jul 05, 18 14:10

XRT\_OGLIST\_0606.chk

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

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2018/07/05 | 10:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 10:19:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 10:19:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2018/07/05 | 10:20:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 b4 fe 01 99 |
| 2018/07/05 | 10:20:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2018/07/05 | 10:20:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2018/07/05 | 10:20:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2018/07/05 | 10:20:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2018/07/05 | 10:20:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2018/07/05 | 10:22:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |
| 2018/07/05 | 10:22:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |
| 2018/07/05 | 10:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2018/07/05 | 11:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 11:29:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2018/07/05 | 11:29:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2018/07/05 | 11:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2018/07/05 | 11:58:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2018/07/05 | 11:59:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2018/07/05 | 13:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 13:07:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2018/07/05 | 13:07:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2018/07/05 | 13:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2018/07/05 | 13:37:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2018/07/05 | 13:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2018/07/05 | 14:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 14:45:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2018/07/05 | 14:45:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2018/07/05 | 14:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2018/07/05 | 15:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 15:19:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2018/07/05 | 15:20:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 ad 59 00 00 |
| 2018/07/05 | 15:20:16.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2018/07/05 | 15:34:54.0 | XRT_FLRCTRL_DIS_421_OG [0x1a5]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2018/07/05 | 15:34:56.0 | XRT_ARS_DIS_445_OG [0x1bd]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2018/07/05 | 15:34:58.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |
| 2018/07/05 | 15:35:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2018/07/05 | 17:47:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 17:47:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 17:47:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2018/07/05 | 17:48:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2018/07/05 | 17:48:18.0 | XRT_FLD_DIS_404_OG [0x194]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2018/07/05 | 17:50:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2018/07/05 | 17:50:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2018/07/05 | 17:50:58.0 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |
| 2018/07/05 | 17:51:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2018/07/05 | 17:57:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2018/07/05 | 17:57:56.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |

|            |            |                                   |                     |   |       |    |    |    |       |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|-------|
| 2018/07/05 | 17:58:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 56 35 |
| 2018/07/05 | 17:58:16.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |       |
| 2018/07/05 | 18:12:54.0 | XRT_FLRCTRL_DIS_421_OG [0x1a5]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |       |
| 2018/07/05 | 18:12:56.0 | XRT_ARS_DIS_445_OG [0x1bd]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/07/05 | 18:12:58.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 01 |    |       |
| 2018/07/05 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/07/05 | 19:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/07/05 | 19:59:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2018/07/05 | 20:00:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 00 |
| 2018/07/05 | 20:00:16.0 | XRT_FLD_ENA_446_OG [0x1be]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |       |
| 2018/07/05 | 20:02:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |       |
| 2018/07/05 | 20:02:50.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |       |
| 2018/07/05 | 20:02:52.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/07/05 | 20:02:54.0 | XRT_FLD_RESET_420_OG [0x1a4]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/07/05 | 20:02:56.0 | XRT_QT_PROG_SET_443_OG [0x1bb]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b |    |       |
| 2018/07/05 | 20:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d |    |       |
| 2018/07/05 | 20:20:31.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/07/05 | 20:21:31.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/07/05 | 21:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/07/05 | 21:19:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/07/05 | 21:19:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/07/05 | 21:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/07/05 | 21:58:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/07/05 | 21:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/07/05 | 22:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/07/05 | 22:57:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/07/05 | 22:57:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |       |
| 2018/07/05 | 23:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |       |
| 2018/07/05 | 23:32:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |       |
| 2018/07/05 | 23:33:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/07/05 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/07/05 | 23:59:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00    |
| 2018/07/06 | 00:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 00 |
| 2018/07/06 | 00:00:16.0 | XRT_FLD_DIS_401_OG [0x191]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |       |
| 2018/07/06 | 00:00:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |       |
| 2018/07/06 | 00:00:20.0 | XRT_ARS_DIS_417_OG [0x1a1]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/07/06 | 00:02:58.0 | XRT_QT_PROG_SET_418_OG [0x1a2]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02 |    |       |
| 2018/07/06 | 00:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2018/07/06 | 00:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2018/07/06 | 00:09:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2018/07/06 | 00:10:00.0 | AOCS_ORe-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 00 | 16 | c0 | b1 9a |
| 2018/07/06 | 00:10:16.0 | XRT_FLD_ENA_446_OG [0x1be]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |       |
| 2018/07/06 | 00:12:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |       |
| 2018/07/06 | 00:12:50.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |       |
| 2018/07/06 | 00:12:52.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2018/07/06 | 00:12:54.0 | XRT_FLD_RESET_420_OG [0x1a4]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2018/07/06 | 00:12:56.0 | XRT_QT_PROG_SET_443_OG [0x1bb]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b |    |       |
| 2018/07/06 | 00:12:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |                     |   |       |    |    |    |       |

|            |            |   |                      |   |       |             |       |
|------------|------------|---|----------------------|---|-------|-------------|-------|
| 2018/07/06 | 00:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            | MDP_XRT_FL_PROG_SET  | 2 | 07-F0 | c5          | 0d    |
|            |            |   | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 00:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 00:36:02.0 | XRT_FLD_RESET_415_OG [0x19f]            | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da          |       |
| 2018/07/06 | 00:36:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]          | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8          |       |
| 2018/07/06 | 00:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9          |       |
| 2018/07/06 | 01:05:30.0 | XRT_Custom_430_OG [0x1ae]               |                      |   |       |             |       |
| 2018/07/06 | 01:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 02:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 02:12:32.0 | XRT_FLD_RESET_415_OG [0x19f]            | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da          |       |
| 2018/07/06 | 02:12:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]          | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8          |       |
| 2018/07/06 | 02:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9          |       |
| 2018/07/06 | 02:43:30.0 | XRT_Custom_430_OG [0x1ae]               |                      |   |       |             |       |
| 2018/07/06 | 02:44:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 03:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 03:48:02.0 | XRT_FLD_RESET_415_OG [0x19f]            | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da          |       |
| 2018/07/06 | 03:48:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]          | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8          |       |
| 2018/07/06 | 03:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9          |       |
| 2018/07/06 | 04:22:00.0 | XRT_Custom_430_OG [0x1ae]               |                      |   |       |             |       |
| 2018/07/06 | 04:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 05:18:00.0 | XRT_CTRL_MANU_400_OG [0x190]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 05:18:02.0 | XRT_FLD_RESET_415_OG [0x19f]            | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da          |       |
| 2018/07/06 | 05:18:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]          | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8          |       |
| 2018/07/06 | 05:21:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9          |       |
| 2018/07/06 | 06:00:30.0 | XRT_Custom_430_OG [0x1ae]               |                      |   |       |             |       |
| 2018/07/06 | 06:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 06:05:24.0 | XRT_CTRL_MANU_402_OG [0x192]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 06:05:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]       | XRT_FOCUS_POSITION   | 4 | 07-F8 | 22 ff aa    | 00    |
| 2018/07/06 | 06:05:30.0 | AOCS_ORe-point_Start_3_OG [0x099]       | AOCU_NM              | 5 | 02-76 | 00 00 00 00 | 00 00 |
| 2018/07/06 | 06:05:46.0 | XRT_FLD_DIS_401_OG [0x191]              | MDP_XRT_FLD_DIS      | 1 | 07-F0 | d9          |       |
| 2018/07/06 | 06:05:48.0 | XRT_FLRCTRL_DIS_405_OG [0x195]          | MDP_XRT_FLRCTRL_DIS  | 1 | 07-F0 | c9          |       |
| 2018/07/06 | 06:05:50.0 | XRT_ARS_DIS_417_OG [0x1a1]              | MDP_XRT_ARS_DIS      | 1 | 07-F0 | d5          |       |
| 2018/07/06 | 06:08:28.0 | XRT_QT_PROG_SET_418_OG [0x1a2]          | MDP_XRT_QT_PROG_SET  | 2 | 07-F0 | c4          | 02    |
| 2018/07/06 | 06:08:30.0 | XRT_CTRL_AUTO_408_OG [0x198]            | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0          |       |
| 2018/07/06 | 06:15:30.0 | AOCS_ORe-point_Start_6_OG [0x09c]       | AOCU_NM              | 5 | 02-76 | 00 16 c0 b1 | 9a    |
| 2018/07/06 | 06:15:30.5 | XRT_CTRL_MANU_406_OG [0x196]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/06 | 06:16:00.5 | XRT_TCIB_XRT_S_HTR_A_ENA_413_OG [0x19d] | TCIB_XRT_S_HTR_A_ENA | 0 | 04-BC |             |       |
| 2018/07/06 | 09:30:00.0 | AOCS_ORe-point_Start_7_OG [0x09d]       | AOCU_NM              | 5 | 02-76 | 02 00 00 00 | 00 00 |
| 2018/07/06 | 18:09:00.0 | AOCS_ORe-point_Start_8_OG [0x09e]       | AOCU_NM              | 5 | 02-76 | 03 00 00 00 | 00 00 |
| 2018/07/07 | 05:27:30.0 | AOCS_ORe-point_Start_3_OG [0x099]       | AOCU_NM              | 5 | 02-76 | 00 00 00 00 | 00 00 |
| 2018/07/07 | 05:37:30.0 | AOCS_ORe-point_Start_9_OG [0x09f]       | AOCU_NM              | 5 | 02-76 | 00 fd 59 53 | 8d    |
| 2018/07/08 | 03:00:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0]      | AOCU_NM              | 5 | 02-76 | 04 00 00 00 | 00 00 |
| 2018/07/08 | 17:56:00.0 | AOCS_ORe-point_Start_3_OG [0x099]       | AOCU_NM              | 5 | 02-76 | 00 00 00 00 | 00 00 |
| 2018/07/08 | 18:06:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0]      | AOCU_NM              | 5 | 02-76 | 04 00 00 00 | 00 00 |
| 2018/07/09 | 06:15:30.0 | XRT_TCIB_XRT_S_HTR_A_DIS_425_OG [0x1a9] | TCIB_XRT_S_HTR_A_DIS | 0 | 04-C0 |             |       |
| 2018/07/09 | 12:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/09 | 12:44:56.0 | XRT_CTRL_MANU_402_OG [0x192]            | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1          |       |
| 2018/07/09 | 12:44:58.0 | XRT_FOCUS_POSITION_428_OG [0x1ac]       | XRT_FOCUS_POSITION   | 4 | 07-F8 | 22 ff aa    | 00    |
| 2018/07/09 | 12:45:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1]      | AOCU_NM              | 5 | 02-76 | 00 2e f9 2e | f9    |

|            |            |                                    |                     |   |       |    |    |    |          |
|------------|------------|------------------------------------|---------------------|---|-------|----|----|----|----------|
| 2018/07/09 | 12:45:18.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |          |
| 2018/07/09 | 12:45:20.0 | XRT_FLRCTRL_DIS_442_OG [0x1ba]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |          |
| 2018/07/09 | 12:47:56.0 | XRT_ARS_DIS_431_OG [0x1af]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |          |
| 2018/07/09 | 12:47:58.0 | XRT_QT_PROG_SET_432_OG [0x1b0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |    |          |
| 2018/07/09 | 12:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |          |
| 2018/07/09 | 12:54:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 12:54:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 12:54:58.0 | XRT_FOCUS_POSITION_428_OG [0x1ac]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00       |
| 2018/07/09 | 12:55:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2] | AOCU_NM             | 5 | 02-76 | 00 | 2e | f9 | d1 07    |
| 2018/07/09 | 12:55:18.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |          |
| 2018/07/09 | 12:55:20.0 | XRT_FLRCTRL_DIS_442_OG [0x1ba]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |          |
| 2018/07/09 | 12:57:56.0 | XRT_ARS_DIS_445_OG [0x1bd]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |          |
| 2018/07/09 | 12:57:58.0 | XRT_QT_PROG_SET_435_OG [0x1b3]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 05 |    |          |
| 2018/07/09 | 12:58:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |          |
| 2018/07/09 | 13:04:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 13:04:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 13:04:58.0 | XRT_ROI_A_414_OG [0x19e]           | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 06 | 80 | 80 20 20 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 07 | 80 | 80 08 08 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 08 | 85 | 83 06 06 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 09 | 40 | 40 10 10 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 0a | 80 | 80 20 08 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 0b | 80 | 80 08 20 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 0c | c0 | 40 10 10 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 0f | 80 | 80 06 06 |
| 2018/07/09 | 13:04:58.5 | XRT_ROI_B_422_OG [0x1a6]           | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 0f | 80 | 80 06 06 |
|            |            |                                    | MDP_XRT_ROI_SET     | 6 | 07-F0 | cd | 10 | 80 | 80 08 08 |
| 2018/07/09 | 13:05:00.0 | AOCS_ORe-point_Start_13_OG [0x0a3] | AOCU_NM             | 5 | 02-76 | 00 | d1 | 07 | d1 07    |
| 2018/07/09 | 13:05:03.5 | XRT_FOCUS_POSITION_428_OG [0x1ac]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00       |
| 2018/07/09 | 13:05:23.5 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |          |
| 2018/07/09 | 13:05:25.5 | XRT_FLRCTRL_DIS_442_OG [0x1ba]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |          |
| 2018/07/09 | 13:08:01.5 | XRT_ARS_DIS_445_OG [0x1bd]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |          |
| 2018/07/09 | 13:08:03.5 | XRT_QT_PROG_SET_438_OG [0x1b6]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06 |    |          |
| 2018/07/09 | 13:08:05.5 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |          |
| 2018/07/09 | 13:14:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 13:14:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 13:14:58.0 | XRT_FOCUS_POSITION_428_OG [0x1ac]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00       |
| 2018/07/09 | 13:15:00.0 | AOCS_ORe-point_Start_14_OG [0x0a4] | AOCU_NM             | 5 | 02-76 | 00 | d1 | 07 | 2e f9    |
| 2018/07/09 | 13:15:18.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |          |
| 2018/07/09 | 13:15:20.0 | XRT_FLRCTRL_DIS_442_OG [0x1ba]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |          |
| 2018/07/09 | 13:17:56.0 | XRT_ARS_DIS_445_OG [0x1bd]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |          |
| 2018/07/09 | 13:17:58.0 | XRT_QT_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 09 |    |          |
| 2018/07/09 | 13:18:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |          |
| 2018/07/09 | 13:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |          |
| 2018/07/09 | 13:24:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00       |
| 2018/07/09 | 13:25:00.0 | AOCS_ORe-point_Start_15_OG [0x0a5] | AOCU_NM             | 5 | 02-76 | 00 | d3 | 34 | 01 99    |
| 2018/07/09 | 13:25:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |          |
| 2018/07/09 | 13:25:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |          |
| 2018/07/09 | 13:25:20.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |          |
| 2018/07/09 | 13:25:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |          |
| 2018/07/09 | 13:25:24.0 | XRT_FLD_RESET_429_OG [0x1ad]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |          |
| 2018/07/09 | 13:27:56.0 | XRT_QT_PROG_SET_436_OG [0x1b4]     |                     |   |       |    |    |    |          |

|            |            |                                    |                     |   |       |    |             |  |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|--|
| 2018/07/09 | 13:27:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |  |
|            |            |                                    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |  |
| 2018/07/09 | 13:28:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 13:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 13:50:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 13:50:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2018/07/09 | 13:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2018/07/09 | 14:19:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2018/07/09 | 14:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 15:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 15:29:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 15:29:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2018/07/09 | 15:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2018/07/09 | 16:04:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2018/07/09 | 16:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 16:06:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 16:06:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 16:06:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2018/07/09 | 16:09:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2018/07/09 | 16:13:01.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2018/07/09 | 16:14:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 17:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 17:07:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 17:07:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2018/07/09 | 17:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2018/07/09 | 17:49:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2018/07/09 | 17:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 18:04:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 18:04:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |  |
| 2018/07/09 | 18:05:00.0 | AOCS_Ore-point_Start_3_OG [0x099]  | AOCU_NM             | 5 | 02-76 | 00 | 00 00 00 00 |  |
| 2018/07/09 | 18:05:16.0 | XRT_FLD_DIS_401_OG [0x191]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |             |  |
| 2018/07/09 | 18:05:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |             |  |
| 2018/07/09 | 18:05:20.0 | XRT_ARS_DIS_417_OG [0x1a1]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2018/07/09 | 18:07:58.0 | XRT_QT_PROG_SET_418_OG [0x1a2]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02          |  |
| 2018/07/09 | 18:08:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 18:14:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 18:14:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |  |
| 2018/07/09 | 18:15:00.0 | AOCS_Ore-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 00 | 44 31 01 99 |  |
| 2018/07/09 | 18:15:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |  |
| 2018/07/09 | 18:15:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |  |
| 2018/07/09 | 18:15:20.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
| 2018/07/09 | 18:15:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2018/07/09 | 18:15:24.0 | XRT_FLD_RESET_429_OG [0x1ad]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 18:17:56.0 | XRT_QT_PROG_SET_436_OG [0x1b4]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |  |
| 2018/07/09 | 18:17:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |  |
| 2018/07/09 | 18:18:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2018/07/09 | 18:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2018/07/09 | 18:45:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2018/07/09 | 18:45:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |

|            |            |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2018/07/09 | 18:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/07/09 | 19:26:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2018/07/09 | 19:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/09 | 20:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/09 | 20:24:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/09 | 20:24:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/07/09 | 20:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/07/09 | 21:03:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2018/07/09 | 21:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/09 | 21:14:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/09 | 21:14:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2018/07/09 | 21:15:00.0 | AOCS_Orе-point_Start_10_OG [0x0a0] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2018/07/09 | 21:15:16.0 | XRT_FLD_ENA_446_OG [0x1be]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2018/07/09 | 21:17:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2018/07/09 | 21:17:50.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2018/07/09 | 21:17:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2018/07/09 | 21:17:54.0 | XRT_FLD_RESET_420_OG [0x1a4]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/09 | 21:17:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2018/07/09 | 21:17:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2018/07/09 | 21:18:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/09 | 22:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/09 | 22:02:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/09 | 22:02:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/07/09 | 22:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/07/09 | 22:39:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2018/07/09 | 22:40:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/09 | 23:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/09 | 23:40:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/09 | 23:40:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/07/09 | 23:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/07/09 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/09 | 23:59:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2018/07/10 | 00:00:00.0 | AOCS_Orе-point_Start_3_OG [0x099]  |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2018/07/10 | 00:00:16.0 | XRT_FLD_DIS_401_OG [0x191]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |  |  |  |  |
| 2018/07/10 | 00:00:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
| 2018/07/10 | 00:00:20.0 | XRT_ARS_DIS_417_OG [0x1a1]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2018/07/10 | 00:02:58.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2018/07/10 | 00:10:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2018/07/10 | 00:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/10 | 01:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/10 | 01:19:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/10 | 01:19:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/07/10 | 01:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2018/07/10 | 01:48:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2018/07/10 | 01:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2018/07/10 | 02:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2018/07/10 | 02:53:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2018/07/10 | 02:53:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2018/07/10 | 02:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |



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|            |            |                                    |                     |   |       |                |  |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|
| 2018/07/10 | 02:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 02:59:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2018/07/10 | 03:00:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |
| 2018/07/10 | 03:00:16.0 | XRT_FLD_ENA_446_OG [0x1be]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2018/07/10 | 03:02:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2018/07/10 | 03:02:50.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2018/07/10 | 03:02:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2018/07/10 | 03:02:54.0 | XRT_FLD_RESET_420_OG [0x1a4]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2018/07/10 | 03:02:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0e          |  |
| 2018/07/10 | 03:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d          |  |
| 2018/07/10 | 03:26:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |                |  |
| 2018/07/10 | 03:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2018/07/10 | 04:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 04:21:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2018/07/10 | 04:21:34.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2018/07/10 | 04:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2018/07/10 | 05:05:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |                |  |
| 2018/07/10 | 05:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2018/07/10 | 05:34:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 05:34:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 05:34:58.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2018/07/10 | 05:35:00.0 | AOCS_ORe-point_Start_3_OG [0x099]  | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2018/07/10 | 05:35:18.0 | XRT_FLD_DIS_404_OG [0x194]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2018/07/10 | 05:37:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2018/07/10 | 05:37:56.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2018/07/10 | 05:37:58.0 | XRT_QT_PROG_SET_407_OG [0x197]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12          |  |
| 2018/07/10 | 05:38:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2018/07/10 | 05:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 05:44:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2018/07/10 | 05:45:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |
| 2018/07/10 | 05:45:16.0 | XRT_FLD_ENA_446_OG [0x1be]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2018/07/10 | 05:47:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2018/07/10 | 05:47:50.5 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2018/07/10 | 05:47:52.5 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2018/07/10 | 05:47:54.5 | XRT_FLD_RESET_420_OG [0x1a4]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2018/07/10 | 05:47:56.5 | XRT_QT_PROG_SET_443_OG [0x1bb]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |  |
| 2018/07/10 | 05:47:58.5 | XRT_FL_PROG_SET_440_OG [0x1b8]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d          |  |
| 2018/07/10 | 05:48:00.5 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2018/07/10 | 06:02:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 06:02:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2018/07/10 | 06:02:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2018/07/10 | 06:05:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2018/07/10 | 06:43:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |                |  |
| 2018/07/10 | 06:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2018/07/10 | 07:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2018/07/10 | 07:42:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2018/07/10 | 07:42:04.0 | XRT_PREFLR_STRT_427_OG [0x1ab]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2018/07/10 | 07:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |

|            |            |                                   |   |                      |
|------------|------------|-----------------------------------|---|----------------------|
| 2018/07/10 | 08:21:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2018/07/10 | 08:22:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2018/07/10 | 08:51:00.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2018/07/10 | 11:02:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |