

## Period: 2020/01/23 11:28:00 - 2020/01/28 10:03:00

Period: 2020/01/23 11:28:00 - 2020/01/28 10:03:00

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XOB #1C0C: Synoptic Q95 2x2 - Al/mesh(512/2048/4096) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(512/4096/8192)

|          |                |                  |       |      |       |       |     |     |                        |       |            |          |        |
|----------|----------------|------------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| PROG= 05 |                |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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= 12 | 1-time(s)      | 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 |
|          | Open/Al-mesh   | Open/Al-mesh     | close | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 82 | 1-time(s)      | 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 |
|          | Al-poly/Open   | Al-poly/Open     | close | Safe | Norm  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 52 | 1-time(s)      | 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 |
|          | thin-Be/Open   | thin-Be/Open     | close | Safe | Norm  | 32.0s | 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 |        |

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XOB #1C44: HOP349 - 3-filter Synoptics (Al-mesh[128/1024/5795], Al-poly[256/4096/8192], thin-Be[2048/16384/32768] with 512x512 G-band+Leak(1064,1048

| PROG= 07                              |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
|---------------------------------------|--------------|------------------|-------|------|------|-------|-----|-----|------------------------|------|---|---|--------|
| Inf.-time(s)                          |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
| Subr= 1      1-time(s)      300.0sec  |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
| Seqn= 88      1-time(s)      2.0sec   |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
|                                       | Open/Al-mesh | Open/Al-mesh     | close | Safe | Norm | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
|                                       | Open/Al-mesh | Open/Al-mesh     | close | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
|                                       | Open/Al-mesh | Open/Al-mesh     | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 50      1-time(s)      2.0sec   |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
|                                       | Al-poly/Open | Al-poly/Open     | close | Safe | Norm | 250ms | 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 |
|                                       | Al-poly/Open | Al-poly/Open     | close | Safe | Norm | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 56      1-time(s)      2.0sec   |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
|                                       | thin-Be/Open | thin-Be/Open     | close | Safe | Norm | 2.00s | 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 |
|                                       | thin-Be/Open | thin-Be/Open     | close | Safe | Norm | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 81      1-time(s)      2.0sec   |              |                  |       |      |      |       |     |     |                        |      |   |   |        |
|                                       | Open/G-band  | Open/G-band      | open  | Safe | Norm | 1ms   | Obs | 1x1 | 512x512 (1064, 1048)   | Q=90 | 0 | 0 | 2.0sec |
|                                       | Open/G-band  | Open/G-band      | close | Safe | Norm | 1ms   | Obs | 1x1 | 512x512 (1064, 1048)   | Q=95 | 0 | 0 | 2.0sec |
| Subr= 2      15-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 |
| <b>Seqn= 6 1-time(s) 2.0sec</b>  |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 29 1-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| Default Filter                   | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

#### XOB #1C6E: HOP336 1-filter - Al/poly -384x384, 1024ms and 8192s, 300s-cadence, G-band - 384x384 1ms

| Term                            | Pointing (x, y)                        | Comment                                                                  |
|---------------------------------|----------------------------------------|--------------------------------------------------------------------------|
| 01/25 00:03:00 - 01/25 02:59:54 | Track ( -36.1, -39.1) @ 01/25 00:00:00 | HOP 393                                                                  |
| <b>PROG= 18 1-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 3-time(s) 2.0sec        |                                        |                                                                          |
| Seqn= 72 1-time(s) 300.0sec     |                                        |                                                                          |
| Al-poly/Open                    | Al-poly/Ti-poly close                  | Safe Norm 8.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec             |
| Al-poly/Open                    | Al-poly/Open close                     | Safe Norm 1.00s 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 #1C13: Synoptic 7 Filter w/ Al-mesh(512/2048/4096), Al-poly(512/4096/8192), Thin-Be(3897/16384/32768) - Thick-Be(65536), Al-poly+Ti-poly(4096/23142)

| Term                            | Pointing (x, y)        | Comment                                                                  |
|---------------------------------|------------------------|--------------------------------------------------------------------------|
| 01/25 06:03:00 - 01/25 06:09:54 | Fixed ( 0.0, 0.0)      | synoptic                                                                 |
| <b>PROG= 10 1-time(s)</b>       |                        |                                                                          |
| Subr= 1 1-time(s) 2.0sec        |                        |                                                                          |
| Seqn= 5 1-time(s) 2.0sec        |                        |                                                                          |
| Open/Ti-poly                    | Open/thick-Al close    | Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Open/Ti-poly                    | Open/thick-Al close    | Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Open/Ti-poly                    | Open/thick-Al close    | Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Open/Ti-poly                    | Open/thick-Al close    | Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec            |
| Open/Ti-poly                    | Open/thick-Al close    | Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec            |
| Seqn= 12 1-time(s) 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           |
| Open/Al-mesh                    | Open/Al-mesh close     | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec           |
| Seqn= 82 1-time(s) 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           |
| Al-poly/Open                    | Al-poly/Open close     | Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec           |
| Seqn= 52 1-time(s) 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           |
| thin-Be/Open                    | thin-Be/Open close     | Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec           |
| Seqn= 23 1-time(s) 4.0sec       |                        |                                                                          |
| 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             |
| Subr= 2 1-time(s) 2.0sec        |                        |                                                                          |
| Seqn= 46 1-time(s) 2.0sec       |                        |                                                                          |
| Open/thick-Be                   | Open/thick-Be close    | Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Seqn= 17 1-time(s) 2.0sec       |                        |                                                                          |
| 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           |
| Seqn= 97 1-time(s) 2.0sec       |                        |                                                                          |
| Al-poly/Ti-poly                 | Al-poly/thick-Al close | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Al-poly/Ti-poly                 | Al-poly/thick-Al close | Safe Norm 22.6s 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 |

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#### Flare mode

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#### 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 512x512)

| Term                            | Pointing (x, y)                          | Comment                        |
|---------------------------------|------------------------------------------|--------------------------------|
| 01/23 11:41:00 - 01/23 17:31:30 | Track ( -637.6, -487.3) @ 01/23 11:38:00 | # OP start + 10min HOP 366 PSP |
| 01/23 18:09:30 - 01/24 02:59:30 | Track ( -606.5, -483.7) @ 01/23 18:06:30 | HOP 366 PSP                    |
| 01/24 03:23:00 - 01/24 03:49:54 | Fixed ( 0.0, 0.0)                        | HOP 349                        |
| 01/24 03:53:00 - 01/24 05:40:24 | Track ( -554.7, -517.5) @ 01/24 03:50:00 | HOP 366 PSP                    |
| 01/24 05:53:30 - 01/24 17:42:24 | Track ( -544.4, -516.5) @ 01/24 05:50:30 | HOP 366 PSP                    |
| 01/24 17:55:30 - 01/24 23:59:54 | Track ( -479.1, -510.9) @ 01/24 17:52:30 | HOP 366 PSP                    |
| 01/25 00:03:00 - 01/25 02:59:54 | Track ( -36.1, -39.1) @ 01/25 00:00:00   | HOP 393                        |
| 01/25 03:03:00 - 01/25 03:29:54 | Fixed ( 0.0, 0.0)                        | HOP 349                        |
| 01/25 03:33:00 - 01/25 05:59:54 | Track ( -395.1, -693.5) @ 01/25 03:30:00 | HOP 366 PSP                    |
| 01/25 06:13:00 - 01/25 10:03:00 | Track ( -384.0, -692.6) @ 01/25 06:10:00 | HOP 366 PSP                    |

|                                  |                |                  |       |      |       |       |     |     |                      |       |            |             |
|----------------------------------|----------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|-------------|
| PROG= 13    30-time(s)           |                |                  |       |      |       |       |     |     |                      |       |            |             |
| Subr= 1    20-time(s)    2.0sec  |                |                  |       |      |       |       |     |     |                      |       |            |             |
| Seqn= 11    1-time(s)    2.0sec  |                |                  |       |      |       |       |     |     |                      |       |            |             |
|                                  | Al-poly/Open   | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0    2.0sec |
| Seqn=100    1-time(s)    10.0sec |                |                  |       |      |       |       |     |     |                      |       |            |             |
|                                  | thin-Be/Open   | med-Be/Open      | close | Safe | Norm  | 125ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 2          | 0    2.0sec |
|                                  | med-Be/Open    | Open/thick-Al    | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
|                                  | Open/thick-Al  | Open/thick-Be    | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
| Subr= 2    1-time(s)    2.0sec   |                |                  |       |      |       |       |     |     |                      |       |            |             |
| Seqn= 10    1-time(s)    2.0sec  |                |                  |       |      |       |       |     |     |                      |       |            |             |
|                                  | med-Al/Open    | med-Al/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
|                                  | Open/thick-Be  | Open/thick-Be    | close | Safe | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
| Seqn= 11    1-time(s)    2.0sec  |                |                  |       |      |       |       |     |     |                      |       |            |             |
|                                  | Al-poly/Open   | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0    2.0sec |
| Seqn= 87    1-time(s)    2.0sec  |                |                  |       |      |       |       |     |     |                      |       |            |             |
|                                  | Open/G-band    | Open/G-band      | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                                  | Open/G-band    | Open/G-band      | close | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                                  | Open/thick-Al  | Open/thick-Al    | close | Safe | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                                  | Open/thick-Al  | Open/thick-Al    | close | Safe | Dark  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                                  | Default Filter | Thicker Filter   | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval    |

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### Active Region Search

\* \* \* \* \*

NOT USED

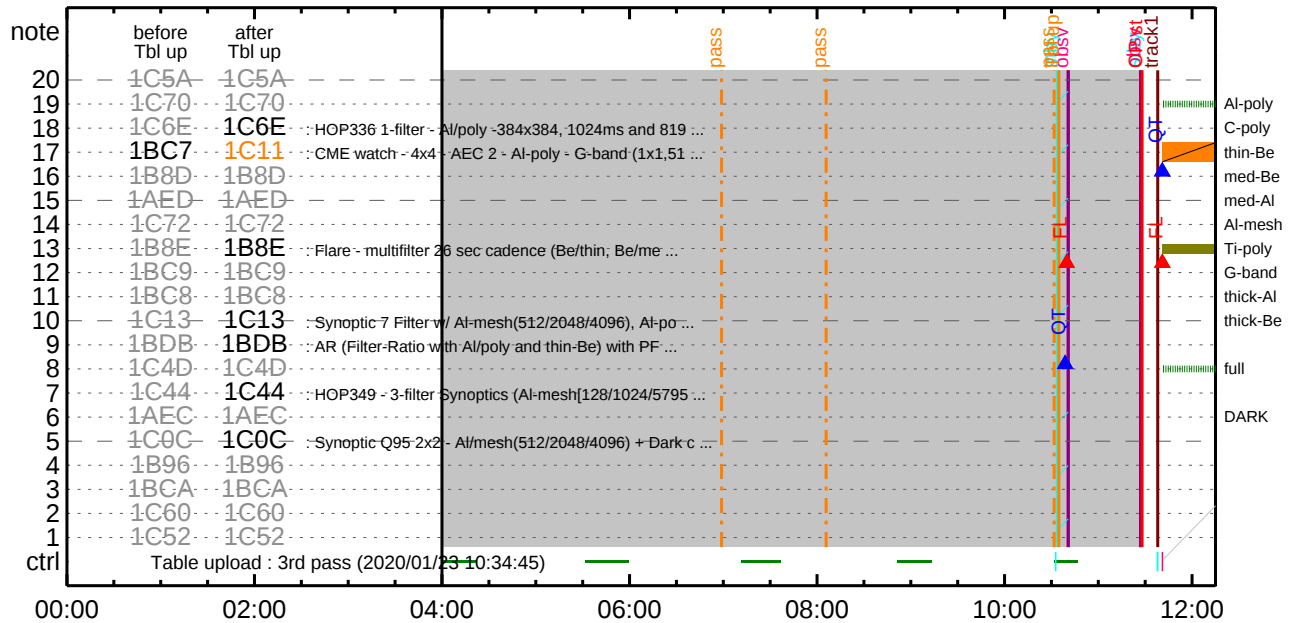
\* \* \* \* \*

### Flare Detection

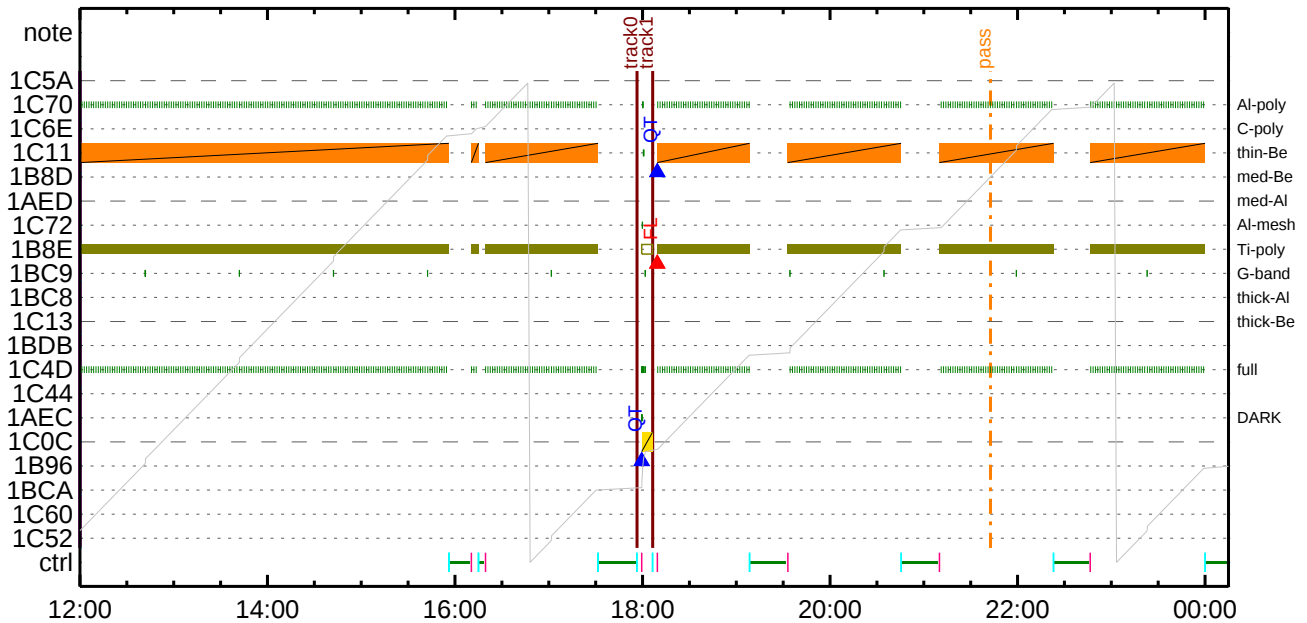
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| FLD Patrol                      |                |                |                                          |      |       |      |     |             |                    |       |            |          |
|---------------------------------|----------------|----------------|------------------------------------------|------|-------|------|-----|-------------|--------------------|-------|------------|----------|
| Term                            |                |                | Pointing (x, y)                          |      |       |      |     | Comment     |                    |       |            |          |
| 01/23 18:06:48 - 01/24 05:40:48 |                |                | Track ( -606.5, -483.7) @ 01/23 18:06:30 |      |       |      |     | HOP 366 PSP |                    |       |            |          |
| 01/24 05:50:48 - 01/24 17:42:48 |                |                | Track ( -544.4, -516.5) @ 01/24 05:50:30 |      |       |      |     | HOP 366 PSP |                    |       |            |          |
| 01/24 17:52:48 - 01/25 06:00:18 |                |                | Track ( -479.1, -510.9) @ 01/24 17:52:30 |      |       |      |     | HOP 366 PSP |                    |       |            |          |
| 01/25 06:10:18 - 01/28 10:03:00 |                |                | Track ( -384.0, -692.6) @ 01/25 06:10:00 |      |       |      |     | HOP 366 PSP |                    |       |            |          |
|                                 | 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 |

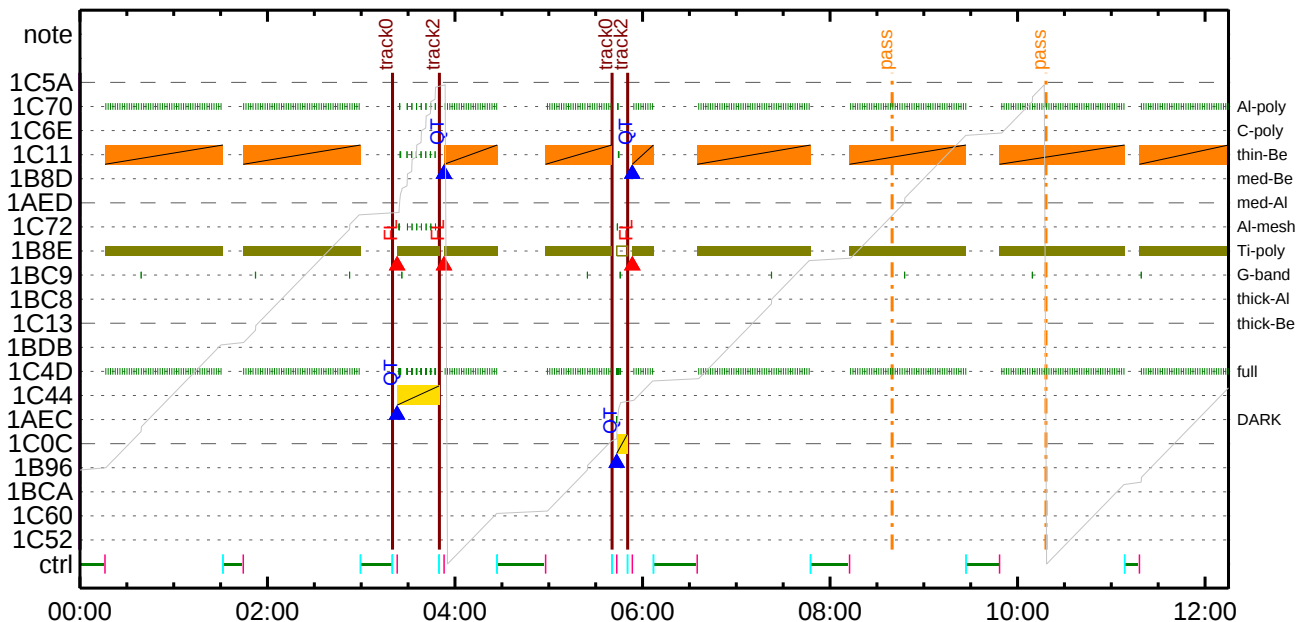
# CMDI #0722 2020/01/23



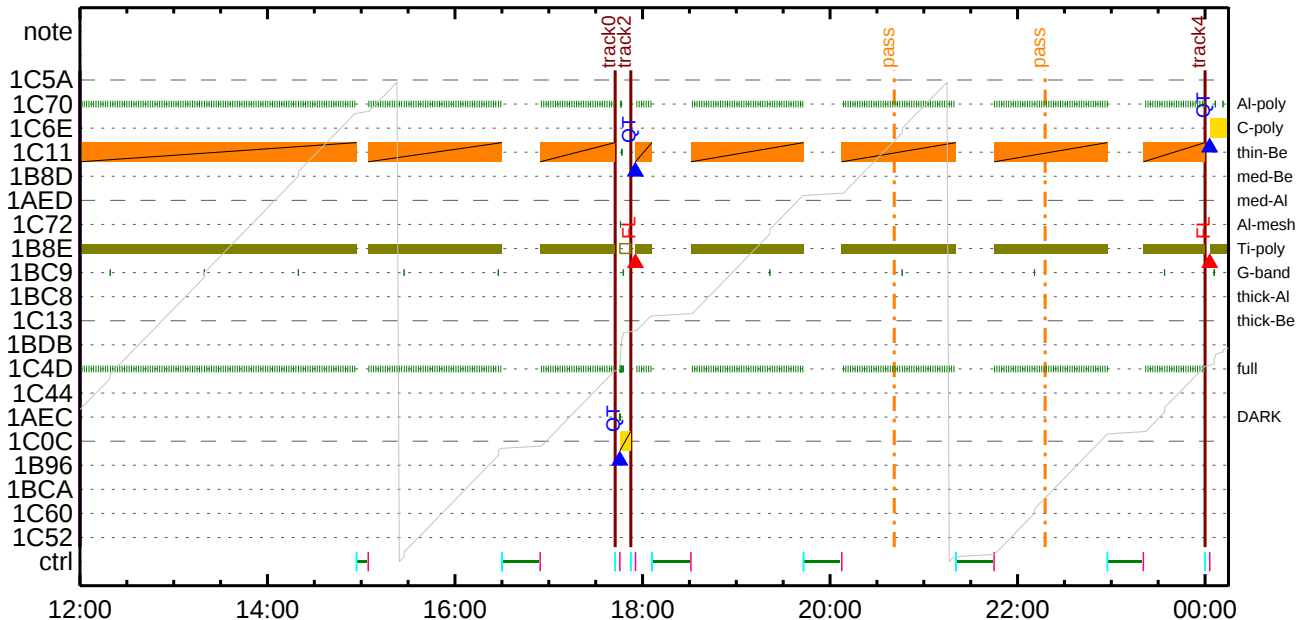
# CMDI #0722 2020/01/23



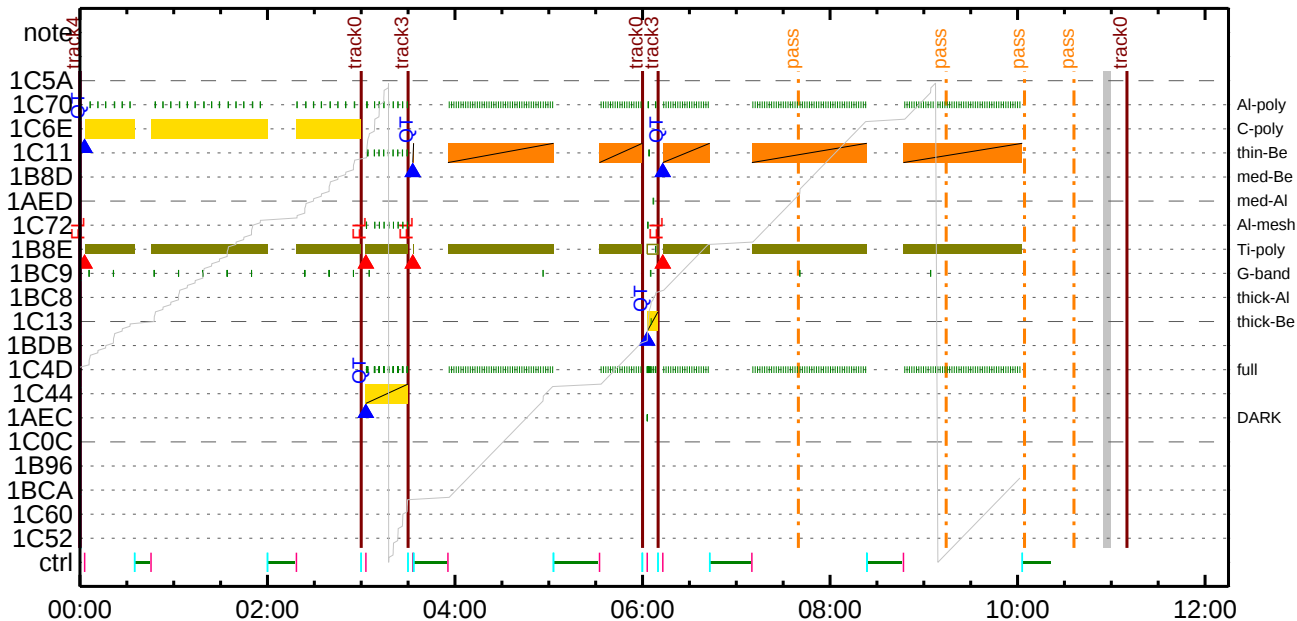
# CMDI #0722 2020/01/24



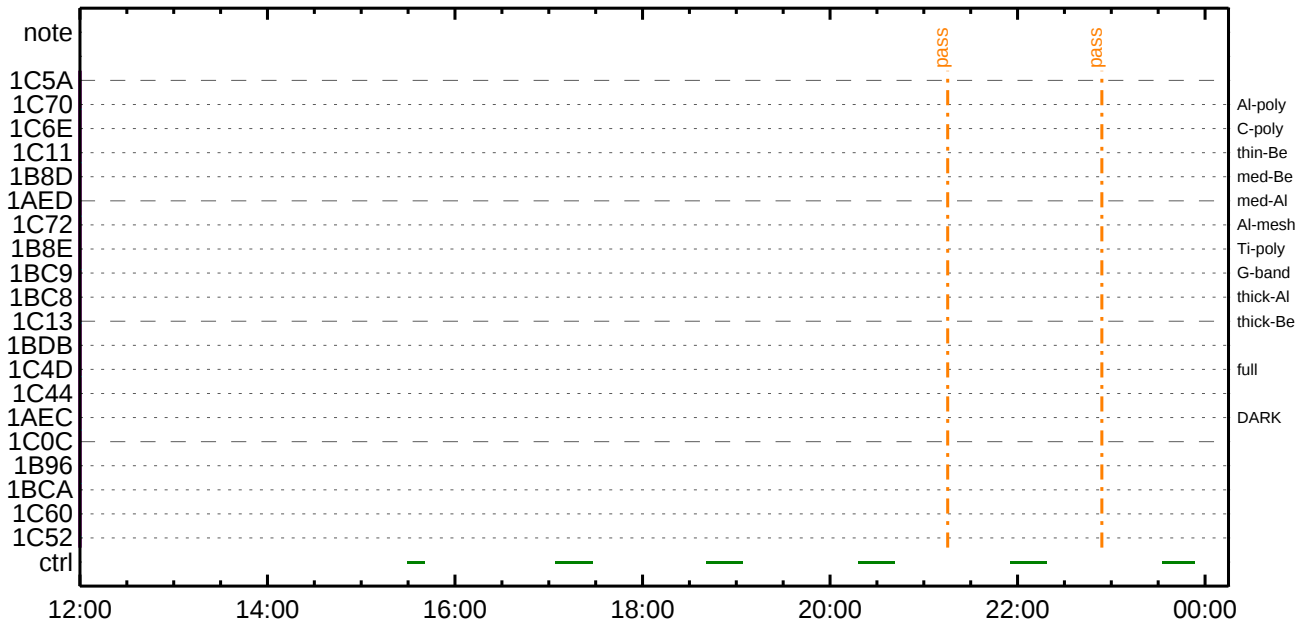
# CMDI #0722 2020/01/24



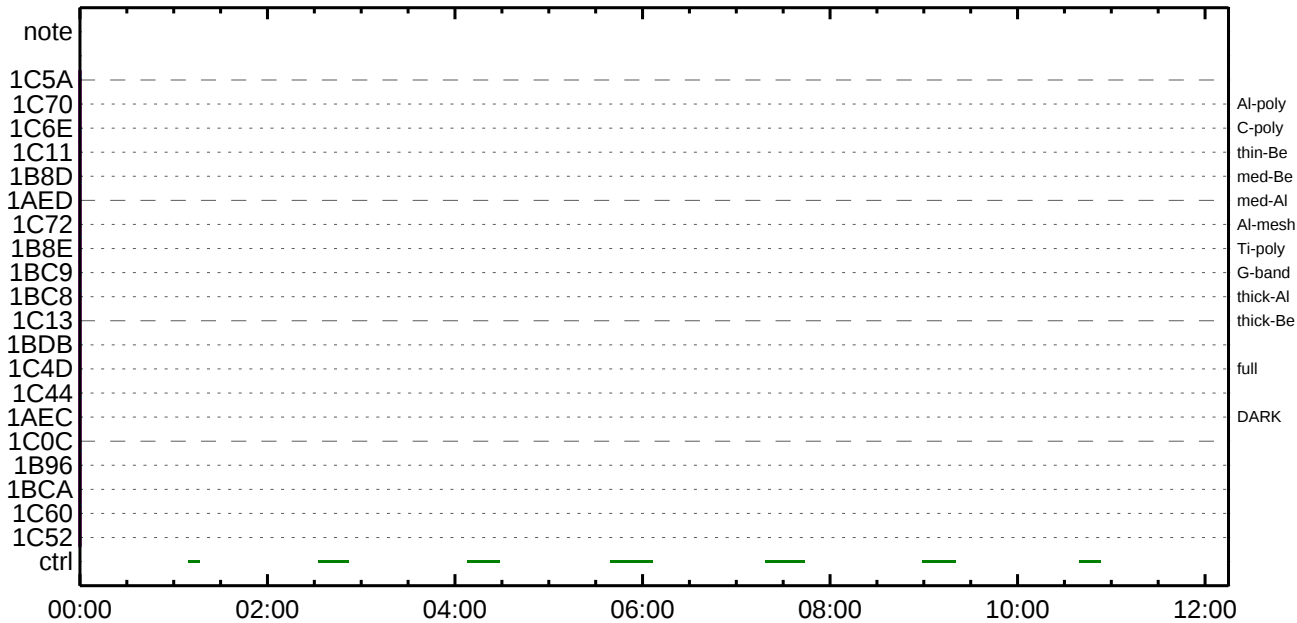
# CMDI #0722 2020/01/25



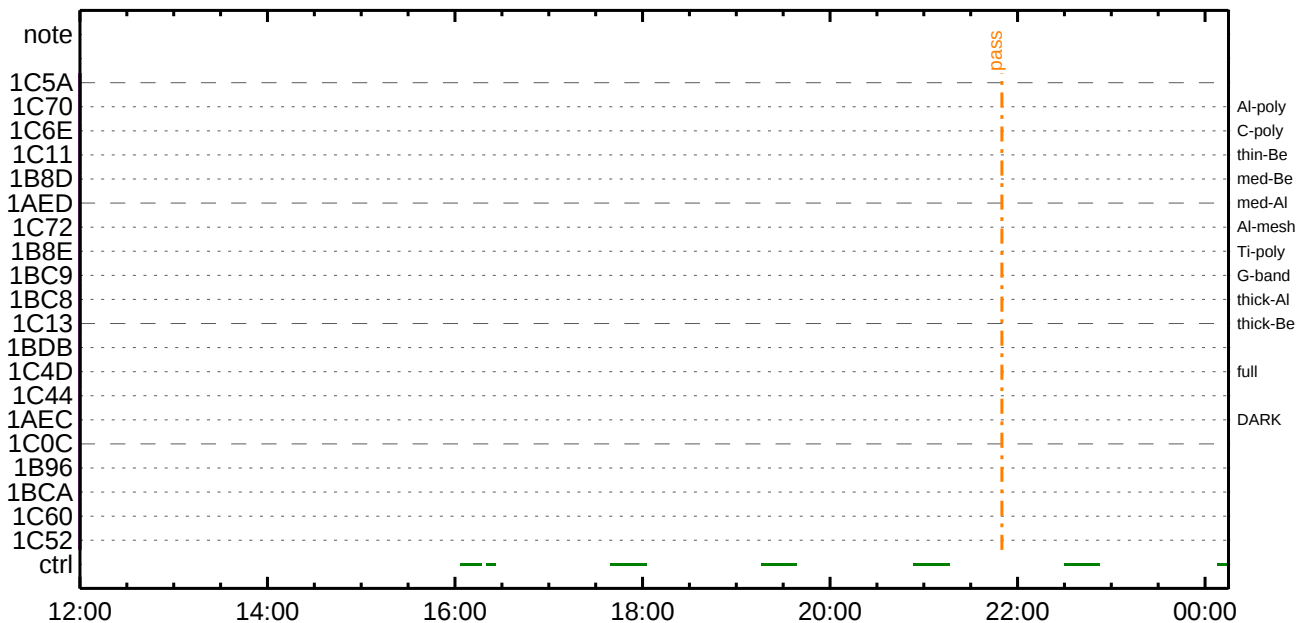
# CMDI #0722 2020/01/25



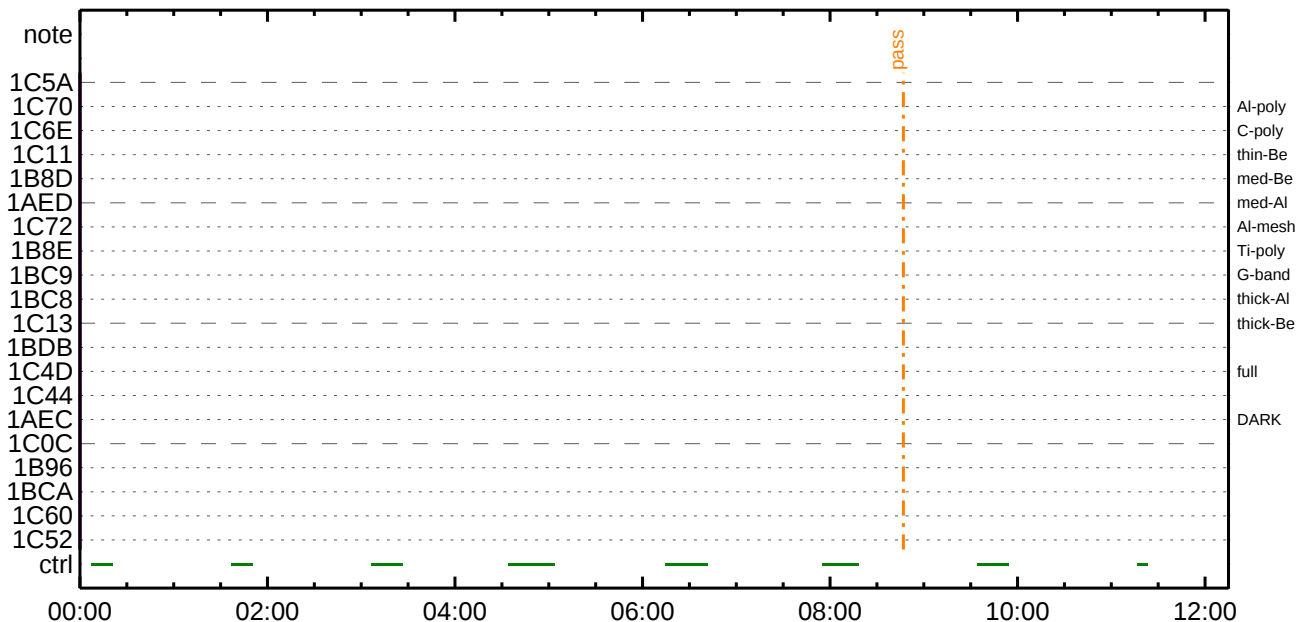
# CMDI #0722 2020/01/26



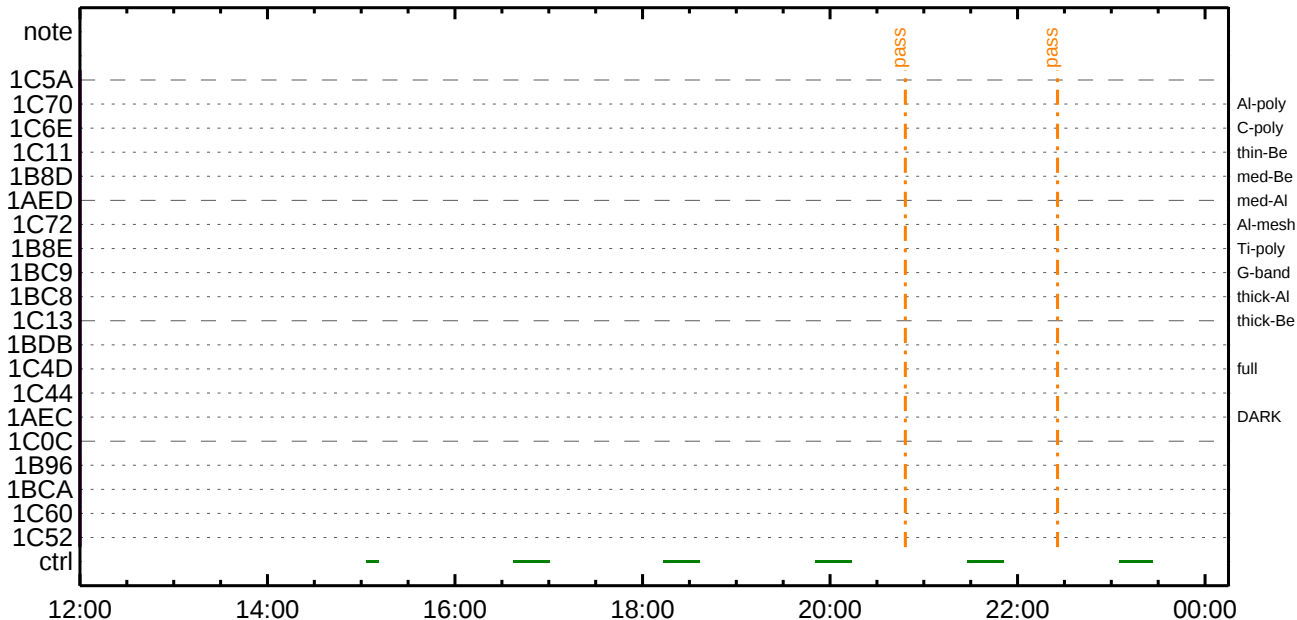
# CMDI #0722 2020/01/26



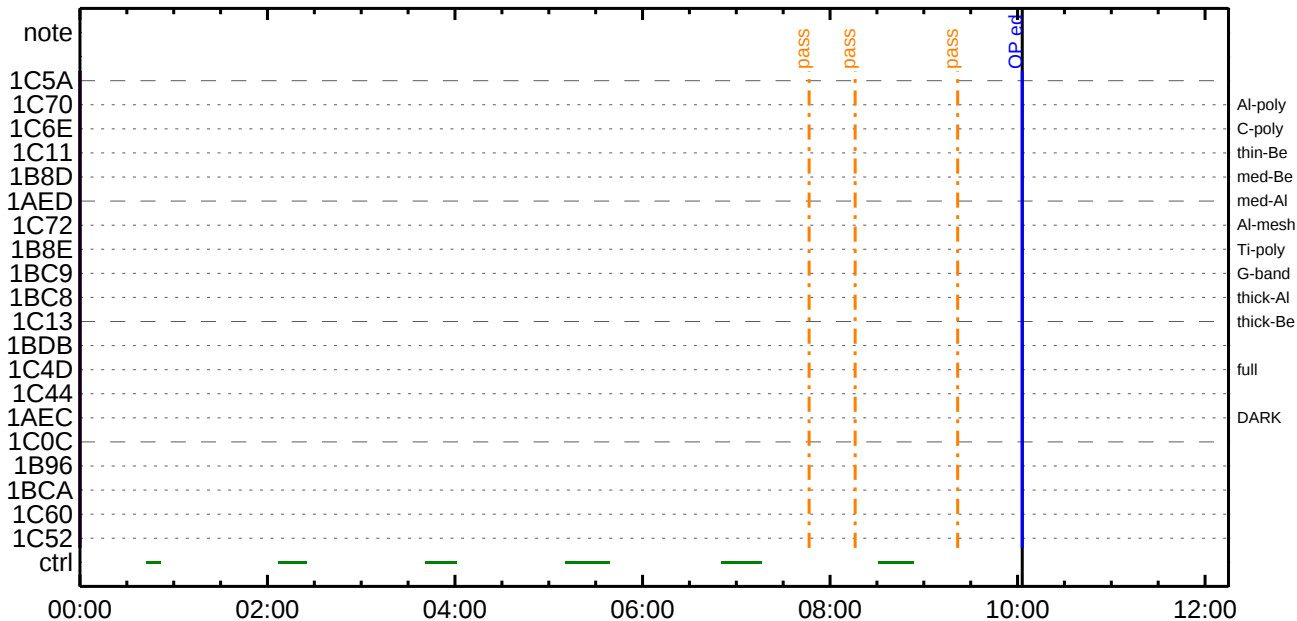
# CMDI #0722 2020/01/27



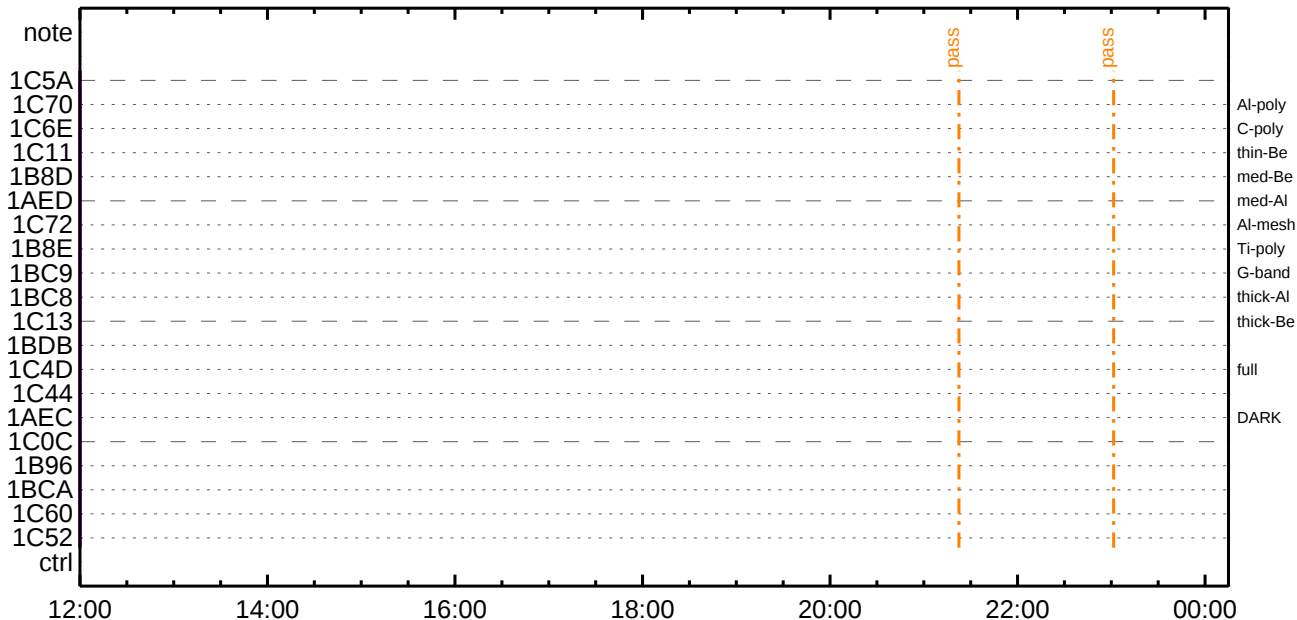
# CMDI #0722 2020/01/27



# CMDI #0722 2020/01/28



# CMDI #0722 2020/01/28





| Line | Command | Parameter                                                     | Condition | Count     |
|------|---------|---------------------------------------------------------------|-----------|-----------|
| 0096 | C.      | 0B0CjCSET0EDUMP0IÆ±°i¥Ñ¥100 030EjE                            |           |           |
| 0097 | C.      |                                                               |           |           |
| 0098 | C.      | TI¥3¥D¥0¥É00ÀDİç(UT)                                          |           |           |
| 0099 | +       | TI 2020-01-23 11:23:00.0                                      |           |           |
| 0100 | DC      | 01-B3 DHU_OP_STOP                                             |           |           |
| 0101 | C.      | 00[HK1_TI_CMD_NUM]                                            | EQ        | 1COUNTUP  |
| 0102 | C.      |                                                               |           |           |
| 0103 | +       | TI 2020-01-23 11:23:01.0                                      |           |           |
| 0104 | DC      | 01-B4 DHU_OP_COPY                                             |           |           |
| 0105 | C.      | 00[HK1_TI_CMD_NUM]                                            | EQ        | 1COUNTUP  |
| 0106 | C.      |                                                               |           |           |
| 0107 | +       | TI 2020-01-23 11:23:01.0                                      |           |           |
| 0108 | DC      | 01-B5 DHU_OPOG_COPY                                           |           |           |
| 0109 | C.      | 00[HK1_TI_CMD_NUM]                                            | EQ        | 1COUNTUP  |
| 0110 | C.      |                                                               |           |           |
| 0111 | +       | TI 2020-01-23 11:27:59.5                                      |           |           |
| 0112 | DC      | 01-B2 DHU_OP_START                                            |           |           |
| 0113 | C.      | 00[HK1_TI_CMD_NUM]                                            | EQ        | 1COUNTUP  |
| 0114 | C.      |                                                               |           |           |
| 0115 | C.      | °Ê²¼0IÄê%IÎÑ0I¥Á\$¥Á¥¯¹àIÜ                                    |           |           |
| 0116 | C.      | 00[HK1_TI_CMD_ENA/DIS]                                        | EQ        | ENA       |
| 0117 | C.      | 00[HK1_TI_CMD_NUM]                                            | EQ        | 4         |
| 0118 | C.      | 00[HK1_NEXT_EXEC_PIM]                                         | EQ        | DHU       |
| 0119 | C.      | 00[HK1_NEXT_EXEC_DC]                                          | EQ        | 0xB3      |
| 0120 | C.      |                                                               |           |           |
| 0121 | C.      | *****                                                         |           |           |
| 0122 | C.      | TIÎI°è¥Á¥0¥x                                                  |           |           |
| 0123 | C.      | *****                                                         |           |           |
| 0124 | C.      |                                                               |           |           |
| 0125 | C.      | TI_TBL(0x03AB00-0x03AEFFj\$ 1024byte)                         |           |           |
| 0126 | +       | DC 01-23 DHU_DMA_DMP_PRM_SET                                  |           |           |
| 0127 | BC      | (03 ab 03 01 02)                                              |           |           |
| 0128 | C.      | 00[HK1_DMP_TOP_ADRS_1]                                        | EQ        | 07        |
| 0129 | C.      | 00[HK1_DMP_TOP_ADRS_0]                                        | EQ        | 2B        |
| 0130 | C.      | 00[HK1_DMP_BLOCK_NUM]                                         | EQ        | 3         |
| 0131 | C.      | 00[HK1_DMP_REPEAT_NUM]                                        | EQ        | 0         |
| 0132 | C.      | 00[HK1_DMA_DMP_PIM]                                           | EQ        | DHU       |
| 0133 | +       | DC 01-22 DHU_MODE_CHNG                                        |           |           |
| 0134 | BC      | (07 0b f8)                                                    |           |           |
| 0135 | C.      | 00[HK1_PKT_FORM_NO]                                           | EQ        | 7         |
| 0136 | C.      | 00[HK1_PKT_GEN_TIME]                                          | EQ        | 0.25 s    |
| 0137 | C.      | 00[HK1_S_TLM_BIT_RATE]                                        | EQ        | 32k       |
| 0138 | C.      | 00[HK1_X_TLM_BIT_RATE]                                        | EQ        | 4M        |
| 0139 | C.      | 00[HK1_DMP_CHK_FLG]                                           | EQ        | EXEC      |
| 0140 | C.      |                                                               |           |           |
| 0141 | C.      | ¥Á¥0¥x½ªI»00³İÇ\$                                             |           |           |
| 0142 | C.      | 00[HK1_DMP_CHK_FLG]                                           | EQ        | NON       |
| 0143 | C.      |                                                               |           |           |
| 0144 | C.      | RAM ID=TI_TBL0I%Ê¹Ç•è²İOK00³İÇ\$                              |           |           |
| 0145 | C.      |                                                               |           |           |
| 0146 | C.      | DHU¥âj¼¥ÉjÊ¼ý½ ¥İj¼¥ÉjÊ00İâ0¹                                 |           |           |
| 0147 | +       | DC 01-22 DHU_MODE_CHNG                                        |           |           |
| 0148 | BC      | (02 0a f8)                                                    |           |           |
| 0149 | C.      | 00[HK1_PKT_FORM_NO]                                           | EQ        | 2         |
| 0150 | C.      | 00[HK1_PKT_GEN_TIME]                                          | EQ        | 0.5S      |
| 0151 | C.      | 00[HK1_S_TLM_BIT_RATE]                                        | EQ        | 32K       |
| 0152 | C.      | 00[HK1_X_TLM_BIT_RATE]                                        | EQ        | 4M        |
| 0153 | C.      |                                                               |           |           |
| 0154 | C.      | Stop EIS observation and temporarily disable EIS mode changes |           |           |
| 0155 | C.      |                                                               |           |           |
| 0156 | C.      |                                                               |           |           |
| 0157 | C.      | ***** Start EIS operation (TI set) *****                      |           |           |
| 0158 | C.      | Execute, after the success of OP upload.                      |           |           |
| 0159 | C.      | Set EIS TI-commands                                           |           |           |
| 0160 | +       | TI 2020-01-23 11:27:30.0                                      |           |           |
| 0161 | DC      | 07-FC EIS_MODE_MANU                                           |           |           |
| 0162 | BC      | (21 02)                                                       |           |           |
| 0163 | +       | TI 2020-01-23 11:27:40.0                                      |           |           |
| 0164 | DC      | 07-FC EIS_MODE_CHG_DIS                                        |           |           |
| 0165 | BC      | (22)                                                          |           |           |
| 0166 | C.      | [ ] [HK1_TI_CMD_NUM]                                          | EQ        | 2 COUNTUP |
| 0167 | C.      | ***** End EIS operation (TI set) *****                        |           |           |
| 0168 | C.      |                                                               |           |           |
| 0169 | C.      |                                                               |           |           |
| 0170 | C.      |                                                               |           |           |
| 0171 | C.      | ***** XRT START *****                                         |           |           |
| 0172 | C.      | Execute, after the success of OP upload.                      |           |           |
| 0173 | +       | TI 2020-01-23 11:27:00.0                                      |           |           |
| 0174 | DC      | 07-F0 MDP_XRT_MODE_STBY                                       |           |           |
| 0175 | BC      | (c3)                                                          |           |           |
| 0176 | C.      | [ ] [HK1_TI_CMD_NUM]                                          | EQ        | 1COUNTUP  |
| 0177 | C.      |                                                               |           |           |
| 0178 | C.      | ***** XRT END *****                                           |           |           |
| 0179 | C.      |                                                               |           |           |
| 0180 | C.      | ***** MDP '0ÃI0I»0%Ý0EÄ00¹0èDCBC•x²è *****                    |           |           |
| 0181 | C.      | (%â°i0¥Á¥É¥D¥É¥Ä¥Ç¥è0E½¼00¼A»Ü0¹0è)                           |           |           |
| 0182 | S.      | DC-BC dcbc-402:DCBC                                           |           |           |
| 0183 |         | (MDP_known_event)                                             |           |           |
| 0184 | C.      |                                                               |           |           |
| 0185 | C.      |                                                               |           |           |
| 0186 | C.      | ***** ¥D¥1•İ Daily±çIÎÑ0E'00¹0èDCBC•x²è *****                 |           |           |
| 0187 | S.      | DC-BC dcbc-153:DCBC                                           |           |           |
| 0188 |         | (SPECIAL-CMD_DAILY_OPERATIN_DCB)                              |           |           |
| 0189 | C.      |                                                               |           |           |
| 0190 | C.      |                                                               |           | </        |



```
main-571 2020-01-23 12:25:12 169 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. jãAOS¥Á¥$¥Ã¥¬¼Ä»Üjã
0005 C.
0006 C. ¥Å¥ß;¼¥³¥Ð¥Ó¥ÉÀ÷¿®
0007 + DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. ÄîjÊ«¿ªÀ«•µ°Æ»Î×Α¢«İç«ıÇ¥Ã¥×¥İj¼¥ÉEjËÈè½μ•īĬējÊ«É¾ºÇÒ«•«¿%î¹Ç«İjÇÀ®, ù«¹«ë«ª«ÇÀ÷¿®«•«Ê«««³«Êj£
0011 + DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XĂ÷¿@μjON
0016 C. *****
0017 C. ¨ °ÆÄ, İxÉÝ«äLOS«ª«Ç«İ»þ´Ö«ò¹ÍĬ, «•jÇÉÔİx«EXĂÓÓN«İ¹Ô«Ê«İ«Ê«««³«Êj£
0018 C.
0019 + DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. ÇÇ[HK1_XPA_ON/OFF] EQ ON
0025 C. ÇÇ[HK1_XPA_PWR_HI/L0] EQ HI
0026 C. ÇÇ[HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. X¥Ð¥Ó¥É¥İ¥Ã¥¬¾ÕÄŒ«-°ÄÄê«•«¿««éjÇ°Ê²¼«İ°ÆÄ, ¼ê½Ç«ò¼Ä¹Ô«¹««éj£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äİ¾İ°ÆÄ,
0033 C. *****
0034 C. ¨ RESTARTjÊPT1jÊ«•«¿««%î¹Ç«İjÇ°Ê²¼«İ¾Ä¹Ô«»«ºjÇDCBC-150«Ø¿Ê«àj£
0035 C.
0036 . C. jãPT1°ÆÄ, ³«»İjã
0037 + DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¾Ä¹Ŧ, j¾Ú)
0043 C. ÇÇ[HK1_REP_STA/STP] EQ START (¾Ä¹Ŧ, j¾Ú)
0044 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¾Ä¹Ŧ, j¾Ú)
0045 C.
0046 . C. jã¥Ç¥ó¥Æ¥ÊÄÜÂŸjÊÄ•Äº²ôÊøjÊ, ä«İ°ÆÄ, °Æ³«jã
0047 + DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¾Ä¹Ŧ, j¾Ú)
0050 C. ÇÇ[HK1_REP_STA/STP] EQ START (¾Ä¹Ŧ, j¾Ú)
0051 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¾Ä¹Ŧ, j¾Ú)
0052 C.
0053 C.
0054 . C. PT1°ÆÄ, «-¼««Æ°Ää»ß«•«¿, äjÇ°Ê²¼«ò¼Ä¹Ô«¹««éj£
0055 C. ¥Ç¥ó¥Æ¥ÊÄÜÂŸ«ÄÄ•Äº²ôÊð«¬ā««%î¹Ç«İ'°İ»«¹«ë«ª«ÇÄÔ«Äj£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äİ¾İ°ÆÄ,
0059 C. *****
0060 C. ¨ RESTARTjÊPT2jÊ«•«¿««%î¹Ç«İjÇ°Ê²¼«İ¾Ä¹Ô«»«ºjÇDCBC-151«Ø¿Ê«àj£
0061 C.
0062 . C. jãPT2°ÆÄ, ³«»İjã
0063 + DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¾Ä¹Ŧ, j¾Ú)
0069 C. ÇÇ[HK1_REP_STA/STP] EQ START (¾Ä¹Ŧ, j¾Ú)
0070 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¾Ä¹Ŧ, j¾Ú)
0071 C.
0072 . C. jã¥Ç¥ó¥Æ¥ÊÄÜÂŸjÊÄ•Äº²ôÊøjÊ, ä«İ°ÆÄ, °Æ³«jã
0073 + DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¾Ä¹Ŧ, j¾Ú)
0076 C. ÇÇ[HK1_REP_STA/STP] EQ START (¾Ä¹Ŧ, j¾Ú)
0077 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¾Ä¹Ŧ, j¾Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÆÄ, Ää»ßjÇXĂ÷¿@μjOFF
0081 C. *****
0082 C.
0083 . C. jãDR°ÆÄ, Ää»ßjã
0084 + DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. ÇÇ[HK1_REP_STA/STP] EQ STOP
0087 C. ÇÇ[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. jãXĂ÷¿@μjOFFjã
0091 + DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. ÇÇ[HK1_XMOD_ON/OFF] EQ OFF
0095 C. ÇÇ[HK1_XPA_ON/OFF] EQ OFF
```

```

0096 C.
0097 C.
0098 C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 S. RAM ram-150:TARGET_ATT
0102 C.
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCS DUMP to end
0117 C.
0118 C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 C.
0129 C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_CHG_ENA
0131 BC (20)
0132 C. Verify EIS_MODE_CHG_FLG is ENA
0133 +. DC 07-FC EIS_MODE_MANU
0134 BC (21 02)
0135 C. Verify EIS in MANUAL mode
0136 C. Estimated OBSTBL upload time is 19s
0137 C. *****
0138 C. EIS START OBSTBL LOAD
0139 C. *****
0140 S. RAM ram-820:EIS_OBSTBL
0141 C.
0142 +. DC 07-FC EIS_DUMP_OBSTBL
0143 BC (07 07 07 00 00 70 00)
0144 C.
0145 C. Execute, after the success of OBSTBL upload.
0146 C. Set EIS TI-commands
0147 +. TI 2020-01-23 11:27:50.0
0148 DC 07-FC EIS_MODE_CHG_ENA
0149 BC (20)
0150 C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0151 C. *****
0152 C. EIS END OBSTBL LOAD
0153 C. *****
0154 C.
0155 C. ***** MDP '0ÃÎÎ»0%ÝðÊÃÐ¤¹ðÐCBC•x²è *****
0156 C. (%ã°Î¥0¥Ã¥Ê¥Ð¥Ê¥¤¥¢¥è¤Ê¾¤¤¥Ã»Û¤¹¤è)
0157 S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 C. ***** ¥Ð¥¹•İ Daily±¿İÑ¤Ê´0¤¹¤èDCBC•x²è *****
0162 S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 C. ¡ãLOS¥Á¥S¥Ã¥¬¼Ã»Û¡ã
0167 C.
0168 C. ***** LOS *****
0169 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-572 2020-01-23 12:25:12 100 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. iãAOS¥Á¥S¥Ã¥¼Å»Üjã
0005 C.
0006 C. ¥À¥Bj¼¥³¥D¥Ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. ĀiĒ□¿□A□•μ°£»İ×AÇ□İ¥Ç¥A¥×¥ıj¼¥ÉjĒĒē½μ•īİĒjĒ□Ē°Ç□□•□¿¼i¹Ç□İjÇÀ®, ū□¹□ē□□□ÇÁ÷¿®□•□Ē□□□³□Ēj£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 85 83 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 08 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 80 80 20 08)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0b 80 80 08 20)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0f 80 80 06 06)
0056 + DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 10 80 80 08 08)
0058 + DC 07-F0 MDP_XRT_FLD_ENA
0059 BC (d8)
0060 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0061 BC (c8)
0062 + DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 + DC 07-F0 MDP_XRT_AEC_RESET
0065 BC (d0)
0066 + DC 07-F0 MDP_XRT_FLD_RESET
0067 BC (da)
0068 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0069 BC (c4 09)
0070 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0071 BC (c5 0d)
0072 . C. ----- Success Verify ? OK / NG ____
0073 C.
0074 C.
0075 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0076 C.
0077 +. DC 07-F0 MDP_XRT_MODE_OBSV
0078 BC (c2)
0079 +. TI 2020-01-23 11:27:02.0
0080 DC 07-F0 MDP_XRT_MODE_OBSV
0081 BC (c2)
0082 . C. ----- Success Verify ? OK / NG ____
0083 C.
0084 C. ***** XRT END *****
0085 C.
0086 . C. ***** MDP ´ŪĀİ□İ»Ō%Ÿ□ĒĀ□¹□ēDCBC•x²ē *****
0087 C. (%Ā°İ¥Ō¥Ā¥Ē¥D¥É¥Ā¥Ç¥ē□Ē½□□¼Ā»Ū□¹□ē)
0088 . S. DC-BC dcbc-402:DCBC
0089 (MDP_known_event)
0090 C.
0091 C.
0092 . C. ***** ¥Đ¥¹•İ Daily±¿İŃ□Ē´Ō□¹□ēDCBC•x²ē *****
0093 . S. DC-BC dcbc-153:DCBC
0094 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0095 C.
```

0096C.  
0097. C. ; ãLOS¥Á¥S¥Ã¥¼Ã»Ü; ä  
0098C.  
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\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |                      |
|------------|------------|-----------------------------------|---|----------------------|
| 2020/01/23 | 11:37:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 11:37:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 11:37:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2020/01/23 | 11:38:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 01 00 00 00 00 |
| 2020/01/23 | 11:38:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2020/01/23 | 11:38:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |
| 2020/01/23 | 11:38:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |
| 2020/01/23 | 11:38:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2020/01/23 | 11:38:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/23 | 11:40:56.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 11          |
| 2020/01/23 | 11:40:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |                      |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0d          |
| 2020/01/23 | 11:41:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/23 | 15:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 15:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 15:56:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/23 | 15:56:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/23 | 15:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/23 | 16:09:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/23 | 16:10:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/23 | 16:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 16:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 16:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/23 | 16:15:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/23 | 16:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/23 | 16:18:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/23 | 16:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/23 | 17:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 17:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 17:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/23 | 17:31:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/23 | 17:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/23 | 17:56:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 17:56:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 17:56:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2020/01/23 | 17:56:30.5 | AOCS_Ore-point_Start_2_OG [0x098] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |
| 2020/01/23 | 17:56:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |                      |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 d9             |
| 2020/01/23 | 17:56:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 c9             |
| 2020/01/23 | 17:56:52.0 | XRT_ARS_DIS_443_OG [0x1bb]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2020/01/23 | 17:59:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 05          |
| 2020/01/23 | 17:59:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/23 | 18:06:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 18:06:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/23 | 18:06:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2020/01/23 | 18:06:30.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 01 00 00 00 00 |
| 2020/01/23 | 18:06:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2020/01/23 | 18:06:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |
| 2020/01/23 | 18:06:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |

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|            |            |                                   |                     |   |       |             |
|------------|------------|-----------------------------------|---------------------|---|-------|-------------|
| 2020/01/23 | 18:06:54.0 | XRT_ARS_DIS_423_0G [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0          |
| 2020/01/23 | 18:06:56.0 | XRT_FLD_RESET_434_0G [0x1b2]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |
| 2020/01/23 | 18:09:26.0 | XRT_QT_PROG_SET_422_0G [0x1a6]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/23 | 18:09:28.0 | XRT_FL_PROG_SET_440_0G [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11       |
| 2020/01/23 | 18:09:30.5 | XRT_CTRL_AUTO_408_0G [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d       |
| 2020/01/23 | 19:08:30.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/23 | 19:08:32.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 19:08:34.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 19:08:36.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/23 | 19:11:44.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/23 | 19:32:00.0 | XRT_Custom_430_0G [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/23 | 19:33:00.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      |                     |   |       |             |
| 2020/01/23 | 20:45:30.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/23 | 20:45:32.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 20:45:34.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 20:45:36.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/23 | 20:48:44.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/23 | 21:09:00.0 | XRT_Custom_430_0G [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/23 | 21:10:00.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      |                     |   |       |             |
| 2020/01/23 | 22:23:00.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/23 | 22:23:02.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 22:23:04.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/23 | 22:23:06.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/23 | 22:26:14.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/23 | 22:45:30.0 | XRT_Custom_430_0G [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/23 | 22:46:30.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      |                     |   |       |             |
| 2020/01/24 | 00:00:00.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/24 | 00:00:02.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 00:00:04.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 00:00:06.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/24 | 00:03:14.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/24 | 00:15:00.0 | XRT_Custom_430_0G [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/24 | 00:16:00.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      |                     |   |       |             |
| 2020/01/24 | 01:31:30.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/24 | 01:31:32.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 01:31:34.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 01:31:36.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/24 | 01:34:44.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/24 | 01:43:30.0 | XRT_Custom_430_0G [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/24 | 01:44:30.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      |                     |   |       |             |
| 2020/01/24 | 02:59:30.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |
| 2020/01/24 | 02:59:32.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 02:59:34.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 02:59:36.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |
| 2020/01/24 | 03:02:44.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |
| 2020/01/24 | 03:19:54.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |
| 2020/01/24 | 03:19:56.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 03:19:58.0 | XRT_FOCUS_POSITION_406_0G [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |
| 2020/01/24 | 03:20:00.0 | AOCS_Ore-point_Start_2_0G [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00 |

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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2020/01/24 | 03:20:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2020/01/24 | 03:20:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | d0 |    |    |    |    |
| 2020/01/24 | 03:20:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0 |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d5 |    |    |    |    |
| 2020/01/24 | 03:20:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | da |    |    |    |    |
| 2020/01/24 | 03:20:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 2 | 07-F0 | c4 | 07 |    |    |    |
| 2020/01/24 | 03:22:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | 2 | 07-F0 | c4 | 07 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c5 | 0d |    |    |    |
| 2020/01/24 | 03:22:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | 2 | 07-F0 | c5 | 0d |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 1 | 07-F0 | c0 |    |    |    |    |
| 2020/01/24 | 03:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 03:49:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 03:49:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2020/01/24 | 03:49:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2020/01/24 | 03:50:00.0 | XRT_FOCUS_POSITION                | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
|            |            | AOCs_Or-point_Start_3_OG [0x099]  | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2020/01/24 | 03:50:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | 1 | 07-F0 | d8 |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | c8 |    |    |    |    |
| 2020/01/24 | 03:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | d0 |    |    |    |    |
| 2020/01/24 | 03:50:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0 |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d5 |    |    |    |    |
| 2020/01/24 | 03:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | da |    |    |    |    |
| 2020/01/24 | 03:50:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2020/01/24 | 03:52:56.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    | 2 | 07-F0 | c4 | 11 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c5 | 0d |    |    |    |
| 2020/01/24 | 03:52:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | 2 | 07-F0 | c5 | 0d |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 1 | 07-F0 | c0 |    |    |    |    |
| 2020/01/24 | 03:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 04:27:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 04:27:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | da |    |    |    |    |
| 2020/01/24 | 04:27:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | e8 |    |    |    |    |
| 2020/01/24 | 04:27:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | 1 | 07-F0 | e8 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e9 |    |    |    |    |
| 2020/01/24 | 04:30:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9 |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | c0 |    |    |    |    |
| 2020/01/24 | 04:57:00.0 | XRT_Custom_430_OG [0x1ae]         | 1 | 07-F0 | c0 |    |    |    |    |
| 2020/01/24 | 04:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 05:40:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 05:40:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2020/01/24 | 05:40:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | 4 | 07-F8 | 22 | ff | aa | 00 |    |
|            |            | XRT_FOCUS_POSITION                | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2020/01/24 | 05:40:30.0 | AOCs_Or-point_Start_2_OG [0x098]  | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
|            |            | AOCU_NM                           | 1 | 07-F0 | d9 |    |    |    |    |
| 2020/01/24 | 05:40:48.0 | XRT_FLD_DIS_409_OG [0x199]        | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | c9 |    |    |    |    |
| 2020/01/24 | 05:40:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | d5 |    |    |    |    |
| 2020/01/24 | 05:40:52.0 | XRT_ARS_DIS_443_OG [0x1bb]        | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 2 | 07-F0 | c4 | 05 |    |    |    |
| 2020/01/24 | 05:43:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | 2 | 07-F0 | c4 | 05 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 1 | 07-F0 | c0 |    |    |    |    |
| 2020/01/24 | 05:43:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 05:50:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2020/01/24 | 05:50:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2020/01/24 | 05:50:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | 4 | 07-F8 | 22 | ff | aa | 00 |    |
|            |            | XRT_FOCUS_POSITION                | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2020/01/24 | 05:50:30.0 | AOCs_Or-point_Start_3_OG [0x099]  | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
|            |            | AOCU_NM                           | 1 | 07-F0 | d8 |    |    |    |    |
| 2020/01/24 | 05:50:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | 1 | 07-F0 | d8 |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | c8 |    |    |    |    |
| 2020/01/24 | 05:50:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | d0 |    |    |    |    |
| 2020/01/24 | 05:50:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0 |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d5 |    |    |    |    |
| 2020/01/24 | 05:50:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | da |    |    |    |    |
| 2020/01/24 | 05:50:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | 1 | 07-F0 | da |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2020/01/24 | 05:53:26.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    | 2 | 07-F0 | c4 | 11 |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2020/01/24 | 05:53:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | 2 | 07-F0 | c4 | 11 |    |    |    |

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|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2020/01/24 | 05:53:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |
| 2020/01/24 | 06:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 06:07:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 06:07:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 06:07:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 06:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 06:34:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 06:35:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 07:47:30.5 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 07:47:32.5 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 07:47:34.5 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 07:47:36.5 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 07:50:44.5 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 08:11:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 08:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 09:27:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 09:27:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 09:27:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 09:27:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 09:30:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 09:47:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 09:48:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 11:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 11:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 11:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 11:08:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 11:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 11:17:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 11:18:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 14:57:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 14:57:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 14:57:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 14:57:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 15:00:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 15:03:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 15:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 16:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 16:30:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 16:30:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 16:30:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/24 | 16:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/24 | 16:53:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/24 | 16:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |    |             |
| 2020/01/24 | 17:42:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/24 | 17:42:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 17:42:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/24 | 17:42:30.0 | AOCS_ORe-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2020/01/24 | 17:42:48.0 | XRT_FLD_DIS_409_OG [0x199]        | AOCU_NM             | 5 | 02-76 | 00 | 00 00 00 00 |
| 2020/01/24 | 17:42:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |             |
|            |            |                                   | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |             |

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|            |            |                                   |   |                      |
|------------|------------|-----------------------------------|---|----------------------|
| 2020/01/24 | 17:42:52.0 | XRT_ARS_DIS_443_OG [0x1bb]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2020/01/24 | 17:45:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 05          |
| 2020/01/24 | 17:45:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 17:52:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 17:52:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 17:52:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2020/01/24 | 17:52:30.0 | AOCS_0Re-point_Start_3_OG [0x099] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 02 00 00 00 00 |
| 2020/01/24 | 17:52:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2020/01/24 | 17:52:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |
| 2020/01/24 | 17:52:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |
| 2020/01/24 | 17:52:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2020/01/24 | 17:52:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/24 | 17:55:26.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 11          |
| 2020/01/24 | 17:55:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |                      |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0d          |
| 2020/01/24 | 17:55:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 18:06:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 18:06:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 18:06:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/24 | 18:06:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/24 | 18:09:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/24 | 18:30:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/24 | 18:31:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 19:43:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 19:43:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 19:43:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/24 | 19:43:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/24 | 19:46:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/24 | 20:06:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/24 | 20:07:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 21:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 21:20:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 21:20:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/24 | 21:20:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/24 | 21:23:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/24 | 21:44:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/24 | 21:45:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 22:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 22:57:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 22:57:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2020/01/24 | 22:57:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2020/01/24 | 23:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2020/01/24 | 23:19:30.5 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2020/01/24 | 23:20:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2020/01/24 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2020/01/24 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 fe 97 00    |
| 2020/01/25 | 00:00:00.0 | AOCS_0Re-point_Start_4_OG [0x09a] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 04 00 00 00 00 |
| 2020/01/25 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2020/01/25 | 00:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |

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|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2020/01/25 | 00:00:22.0 | XRT_AEC_RESET_448_0G [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
|            |            |                                   | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2020/01/25 | 00:00:24.0 | XRT_ARS_DIS_423_0G [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2020/01/25 | 00:00:26.0 | XRT_FLD_RESET_434_0G [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/25 | 00:02:56.0 | XRT_QT_PROG_SET_417_0G [0x1a1]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 12          |
| 2020/01/25 | 00:02:58.0 | XRT_FL_PROG_SET_440_0G [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |
| 2020/01/25 | 00:03:00.0 | XRT_CTRL_AUTO_408_0G [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/25 | 00:35:00.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 00:35:02.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 00:35:04.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/25 | 00:35:06.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/25 | 00:38:14.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/25 | 00:44:30.0 | XRT_Custom_430_0G [0x1ae]         |                     |   |       |    |             |
| 2020/01/25 | 00:45:30.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/25 | 02:00:00.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 02:00:02.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 02:00:04.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/25 | 02:00:06.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2020/01/25 | 02:03:14.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2020/01/25 | 02:17:30.0 | XRT_Custom_430_0G [0x1ae]         |                     |   |       |    |             |
| 2020/01/25 | 02:18:30.0 | XRT_CTRL_AUTO_424_0G [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/25 | 02:59:54.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 02:59:56.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 02:59:58.0 | XRT_FOCUS_POSITION_406_0G [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2020/01/25 | 03:00:00.0 | AOCS_0Re-point_Start_2_0G [0x098] | AOCU_NM             | 5 | 02-76 | 00 | 00 00 00 00 |
| 2020/01/25 | 03:00:18.0 | XRT_FLD_ENA_411_0G [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2020/01/25 | 03:00:20.0 | XRT_FLRCTRL_ENA_412_0G [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2020/01/25 | 03:00:22.0 | XRT_AEC_RESET_448_0G [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2020/01/25 | 03:00:24.0 | XRT_ARS_DIS_423_0G [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2020/01/25 | 03:00:26.0 | XRT_FLD_RESET_434_0G [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/25 | 03:02:56.0 | XRT_QT_PROG_SET_446_0G [0x1be]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 07          |
| 2020/01/25 | 03:02:58.0 | XRT_FL_PROG_SET_440_0G [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |
| 2020/01/25 | 03:03:00.0 | XRT_CTRL_AUTO_408_0G [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/25 | 03:29:54.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 03:29:56.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 03:29:58.0 | XRT_FOCUS_POSITION_406_0G [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2020/01/25 | 03:30:00.0 | AOCS_0Re-point_Start_5_0G [0x09b] | AOCU_NM             | 5 | 02-76 | 03 | 00 00 00 00 |
| 2020/01/25 | 03:30:18.0 | XRT_FLD_ENA_411_0G [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2020/01/25 | 03:30:20.0 | XRT_FLRCTRL_ENA_412_0G [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2020/01/25 | 03:30:22.0 | XRT_AEC_RESET_448_0G [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2020/01/25 | 03:30:24.0 | XRT_ARS_DIS_423_0G [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2020/01/25 | 03:30:26.0 | XRT_FLD_RESET_434_0G [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2020/01/25 | 03:32:56.0 | XRT_QT_PROG_SET_422_0G [0x1a6]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
| 2020/01/25 | 03:32:58.0 | XRT_FL_PROG_SET_440_0G [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |
| 2020/01/25 | 03:33:00.0 | XRT_CTRL_AUTO_408_0G [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2020/01/25 | 03:33:30.0 | XRT_CTRL_MANU_400_0G [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 03:33:32.0 | XRT_CTRL_MANU_402_0G [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2020/01/25 | 03:33:34.0 | XRT_FLD_RESET_415_0G [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |



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|            |            |                                   |                     |   |                      |
|------------|------------|-----------------------------------|---------------------|---|----------------------|
| 2020/01/25 | 10:03:06.0 | XRT_PREFLR_STRT_435_0G [0x1b3]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 da             |
| 2020/01/25 | 10:06:14.0 | XRT_PREFLR_STOP_419_0G [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 e8             |
| 2020/01/25 | 11:10:00.0 | AOCS_ORe-point_Start_2_0G [0x098] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 e9             |
|            |            | AOCU_NM                           |                     | 5 | 02-76 00 00 00 00 00 |