

# XRT Timeline to be uploaded on 2025/04/22

Period: 2025/04/22 10:57:00 - 2025/04/26 11:28:00

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## Normal mode

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| XOB #1CD7: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------|--|-------|------|-------|------------------------------------|-----|-----|----------------------|--|-------|---------------------|
| Term                                                                                                                                                        |  |  | Pointing (x, y)                        |  |       |      |       | Comment                            |     |     |                      |  |       |                     |
| 04/22 11:21:00 - 04/22 17:41:24                                                                                                                             |  |  | Track ( 255.1, -21.2) @ 04/22 11:07:00 |  |       |      |       | # OP start + 10min, Track AR 14062 |     |     |                      |  |       |                     |
| 04/22 17:54:30 - 04/23 03:32:00                                                                                                                             |  |  | Track ( 314.2, -23.3) @ 04/22 17:51:30 |  |       |      |       | Track AR 14062                     |     |     |                      |  |       |                     |
| 04/23 06:10:30 - 04/23 17:59:54                                                                                                                             |  |  | Track ( 417.9, -28.0) @ 04/23 06:07:30 |  |       |      |       | Track AR 14062                     |     |     |                      |  |       |                     |
| PROG= 18 1-time(s) 2.0sec                                                                                                                                   |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Subr= 1 1-time(s) 2.0sec                                                                                                                                    |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Seqn= 92 1-time(s) 2.0sec                                                                                                                                   |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Open/G-band                                                                                                                                                 |  |  | Open/G-band                            |  | open  | Safe | Norm  | 1ms                                | Obs | 1x1 | 384x384 (1064, 1048) |  | DPCM  | 0 0 2.0sec          |
| Open/G-band                                                                                                                                                 |  |  | Open/G-band                            |  | close | Safe | Norm  | 1ms                                | Obs | 1x1 | 384x384 (1064, 1048) |  | DPCM  | 0 0 2.0sec          |
| Open/Ti-poly                                                                                                                                                |  |  | Open/thick-Al                          |  | close | Safe | Dark  | 16.0s                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=98  | 0 0 2.0sec          |
| Subr= 2 5-time(s) 2.0sec                                                                                                                                    |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Seqn= 47 1-time(s) 2.0sec                                                                                                                                   |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Al-poly/Open                                                                                                                                                |  |  | thin-Be/Open                           |  | close | Safe | Norm  | 250ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 2 0 2.0sec          |
| Al-poly/Open                                                                                                                                                |  |  | thin-Be/Open                           |  | close | Safe | Norm  | 250ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 3 0 2.0sec          |
| thin-Be/Open                                                                                                                                                |  |  | med-Be/Open                            |  | close | Safe | Norm  | 500ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 2 0 2.0sec          |
| thin-Be/Open                                                                                                                                                |  |  | med-Be/Open                            |  | close | Safe | Norm  | 500ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 3 0 2.0sec          |
| Seqn= 96 4-time(s) 180.0sec                                                                                                                                 |  |  |                                        |  |       |      |       |                                    |     |     |                      |  |       |                     |
| Al-poly/Open                                                                                                                                                |  |  | thin-Be/Open                           |  | close | Safe | Norm  | 250ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 0 2.0sec          |
| thin-Be/Open                                                                                                                                                |  |  | med-Be/Open                            |  | close | Safe | Norm  | 500ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 0 2.0sec          |
| Al-poly/Open                                                                                                                                                |  |  | thin-Be/Open                           |  | close | Safe | Norm  | 250ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 1 2.0sec          |
| thin-Be/Open                                                                                                                                                |  |  | med-Be/Open                            |  | close | Safe | Norm  | 500ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 1 2.0sec          |
| Al-poly/Open                                                                                                                                                |  |  | thin-Be/Open                           |  | close | Safe | Norm  | 250ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 2 2.0sec          |
| thin-Be/Open                                                                                                                                                |  |  | med-Be/Open                            |  | close | Safe | Norm  | 500ms                              | Obs | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1 2 2.0sec          |
| Default Filter                                                                                                                                              |  |  | Thicker Filter                         |  | VLS   | mode | image | Exp.                               | CCD | Bin | ROI: size (center)   |  | Comp. | AEC Buffer Interval |

| XOB #1CF0: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(12/181/1443), Thin-Be(33/512/4096), Thick-Be(65536), Med-Al(512/8192/32768), Med-Be(128/5795) |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------|--|--|---------------------------------------------------|------|-------|-------|-----|-----|------------------------|------|---------------------------|
| Term                                                                                                                                                      |  |  | Pointing (x, y)   |  |  | Comment                                           |      |       |       |     |     |                        |      |                           |
| 04/22 17:44:30 - 04/22 17:51:24                                                                                                                           |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, shifted -18.5 min                       |      |       |       |     |     |                        |      |                           |
| 04/23 06:00:30 - 04/23 06:07:24                                                                                                                           |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, shifted 2hr and -2.5 min & HOP349 & 448 |      |       |       |     |     |                        |      |                           |
| 04/23 18:03:00 - 04/23 18:09:54                                                                                                                           |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic                                          |      |       |       |     |     |                        |      |                           |
| 04/24 05:26:30 - 04/24 06:29:24                                                                                                                           |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, shifted 2hr & 19.5 min & HOP 349 & 448  |      |       |       |     |     |                        |      |                           |
| 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= 26 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
| Open/Al-mesh                                                                                                                                              |  |  | Open/Al-mesh      |  |  | close                                             | Safe | Norm  | 5ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Open/Al-mesh                                                                                                                                              |  |  | Open/Al-mesh      |  |  | close                                             | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Open/Al-mesh                                                                                                                                              |  |  | Open/Al-mesh      |  |  | close                                             | Safe | Norm  | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Seqn= 15 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
| Al-poly/Open                                                                                                                                              |  |  | Al-poly/Open      |  |  | close                                             | Safe | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Al-poly/Open                                                                                                                                              |  |  | Al-poly/Open      |  |  | close                                             | Safe | Norm  | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Al-poly/Open                                                                                                                                              |  |  | Al-poly/thick-Al  |  |  | close                                             | Safe | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Seqn= 83 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
| thin-Be/Open                                                                                                                                              |  |  | thin-Be/Open      |  |  | close                                             | Safe | Norm  | 32ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| thin-Be/Open                                                                                                                                              |  |  | thin-Be/Open      |  |  | close                                             | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| thin-Be/Open                                                                                                                                              |  |  | thin-Be/Open      |  |  | close                                             | Safe | Norm  | 4.00s | 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= 65 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/thick-Al   |  |  | close                                             | Safe | Norm  | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| med-Al/Open                                                                                                                                               |  |  | med-Al/thick-Al   |  |  | close                                             | Safe | Norm  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| med-Al/Open                                                                                                                                               |  |  | med-Al/Open       |  |  | close                                             | Safe | Norm  | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Seqn= 33 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
| med-Be/Open                                                                                                                                               |  |  | Open/thick-Al     |  |  | close                                             | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| med-Be/Open                                                                                                                                               |  |  | med-Be/Open       |  |  | close                                             | Safe | Norm  | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| med-Be/Open                                                                                                                                               |  |  | med-Be/Open       |  |  | close                                             | Safe | Norm  | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 0 2.0sec                |
| Seqn= 36 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                                                   |      |       |       |     |     |                        |      |                           |
| Al-poly/Ti-poly                                                                                                                                           |  |  | Al-poly/thick-Al  |  |  | close                                             | Safe | Norm  | 63ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 0 2.0sec                |
| Al-poly/Ti-poly                                                                                                                                           |  |  | Al-poly/thick-Al  |  |  | close                                             | Safe | Norm  | 2.00s | 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 |

XOB #1D2E: HOP349 - 3-filter Synoptics (Al-mesh[5/181/1443], Al-poly[12/256/2048], thin-Be[24/723/5795] with 512x512 G-band+Leak - 375min cad) + CME

| Term                            |  |                  | Pointing (x, y)   |           |      | Comment                                           |       |      |     |                        |                    |      |       |            |          |
|---------------------------------|--|------------------|-------------------|-----------|------|---------------------------------------------------|-------|------|-----|------------------------|--------------------|------|-------|------------|----------|
| 04/23 04:09:30 - 04/23 05:57:24 |  |                  | Fixed ( 0.0, 0.0) |           |      | synoptic, shifted 2hr and -2.5 min & HOP349 & 448 |       |      |     |                        |                    |      |       |            |          |
| 04/24 04:42:00 - 04/24 05:23:24 |  |                  | Fixed ( 0.0, 0.0) |           |      | synoptic, shifted 2hr & 19.5 min & HOP 349 & 448  |       |      |     |                        |                    |      |       |            |          |
| PROG= 15 Inf-time(s)            |  |                  |                   |           |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| Subr= 1                         |  | 1-time(s)        |                   | 300.0sec  |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| Seqn= 66                        |  | 1-time(s)        |                   | 2.0sec    |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| └ Open/Al-mesh                  |  | Open/Al-mesh     |                   | close     | Safe | Norm                                              | 5ms   | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 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/Ti-poly     |                   | close     | Safe | Norm                                              | 1.41s | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 2.0sec   |
| Seqn= 22                        |  | 1-time(s)        |                   | 2.0sec    |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| └ Al-poly/Open                  |  | Al-poly/Open     |                   | close     | Safe | Norm                                              | 12ms  | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 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                                              | 2.00s | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 2.0sec   |
| Seqn= 61                        |  | 1-time(s)        |                   | 2.0sec    |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| └ thin-Be/Open                  |  | thin-Be/Open     |                   | close     | Safe | Norm                                              | 24ms  | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 2.0sec   |
| └ thin-Be/Open                  |  | thin-Be/Open     |                   | close     | Safe | Norm                                              | 707ms | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 2.0sec   |
| └ thin-Be/Open                  |  | thin-Be/Open     |                   | close     | Safe | Norm                                              | 5.66s | Obs  | 2x2 | 2048x2048 (1024, 1024) |                    | Q=95 | 0     | 0          | 2.0sec   |
| Seqn= 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                         |  | 15-time(s)       |                   | 1500.0sec |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| 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= 74                        |  | 1-time(s)        |                   | 2.0sec    |      |                                                   |       |      |     |                        |                    |      |       |            |          |
| └ med-Be/Open                   |  | med-Be/Open      |                   | close     | Safe | Norm                                              | 500ms | Obs  | 4x4 | 2048x2048 (1024, 1024) |                    | Q=98 | 3     | 0          | 2.0sec   |
| └ med-Be/Open                   |  | med-Be/Open      |                   | close     | Safe | Norm                                              | 2.00s | Obs  | 4x4 | 2048x2048 (1024, 1024) |                    | Q=98 | 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   |
| Default Filter                  |  |                  | Thicker Filter    |           | VLS  | mode                                              | image | Exp. | CCD | Bin                    | ROI: size (center) |      | Comp. | AEC Buffer | Interval |

**XOB #1BFE: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with**

| Term                            | Pointing (x, y) |               | Comment        |
|---------------------------------|-----------------|---------------|----------------|
| 04/23 18:13:00 - 04/24 03:59:54 | Track (         | 513.6, -33.5) | Track AR 14062 |
| 04/24 06:32:30 - 04/24 10:52:00 | Track (         | 603.9, -40.0) | Track AR 14062 |

|                                    |                |       |      |       |       |     |     |                      |       |            |          |         |
|------------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| <b>PROG= 11 Inf-time(s)</b>        |                |       |      |       |       |     |     |                      |       |            |          |         |
| <b>Subr= 1 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                      |       |            |          |         |
| <b>Seqn= 92 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |         |
| Open/G-band                        | Open/G-band    | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
| Open/G-band                        | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
| Open/Ti-poly                       | Open/thick-Al  | close | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| <b>Subr= 2 4-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                      |       |            |          |         |
| <b>Seqn= 47 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |         |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec  |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec  |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| <b>Seqn= 77 4-time(s) 300.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |         |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec  |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 95.0sec |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec  |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 95.0sec |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |
| Default Filter                     | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

**XOB #1C96: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + G**

| Term                            | Pointing (x, y) |               | Comment                                           |
|---------------------------------|-----------------|---------------|---------------------------------------------------|
| 04/22 11:21:00 - 04/22 17:41:24 | Track (         | 255.1, -21.2) | # OP start + 10min, Track AR 14062                |
| 04/22 17:54:30 - 04/23 03:32:00 | Track (         | 314.2, -23.3) | Track AR 14062                                    |
| 04/23 04:09:30 - 04/23 05:57:24 | Fixed (         | 0.0, 0.0)     | synoptic, shifted 2hr and -2.5 min & HOP349 & 448 |
| 04/23 06:10:30 - 04/23 17:59:54 | Track (         | 417.9, -28.0) | Track AR 14062                                    |
| 04/23 18:13:00 - 04/24 03:59:54 | Track (         | 513.6, -33.5) | Track AR 14062                                    |
| 04/24 04:42:00 - 04/24 05:23:24 | Fixed (         | 0.0, 0.0)     | synoptic, shifted 2hr & 19.5 min & HOP 349 & 448  |
| 04/24 06:32:30 - 04/24 10:52:00 | Track (         | 603.9, -40.0) | Track AR 14062                                    |

|                                   |                  |       |      |      |       |     |     |                      |      |   |   |        |
|-----------------------------------|------------------|-------|------|------|-------|-----|-----|----------------------|------|---|---|--------|
| <b>PROG= 14 30-time(s)</b>        |                  |       |      |      |       |     |     |                      |      |   |   |        |
| <b>Subr= 1 20-time(s) 2.0sec</b>  |                  |       |      |      |       |     |     |                      |      |   |   |        |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |                  |       |      |      |       |     |     |                      |      |   |   |        |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| <b>Seqn= 73 1-time(s) 10.0sec</b> |                  |       |      |      |       |     |     |                      |      |   |   |        |
| thin-Be/Open                      | med-Be/Open      | close | Safe | Norm | 125ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 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-Be  | Open/thick-Be    | close  | Safe | Norm  | 2.00s | 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 |        |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

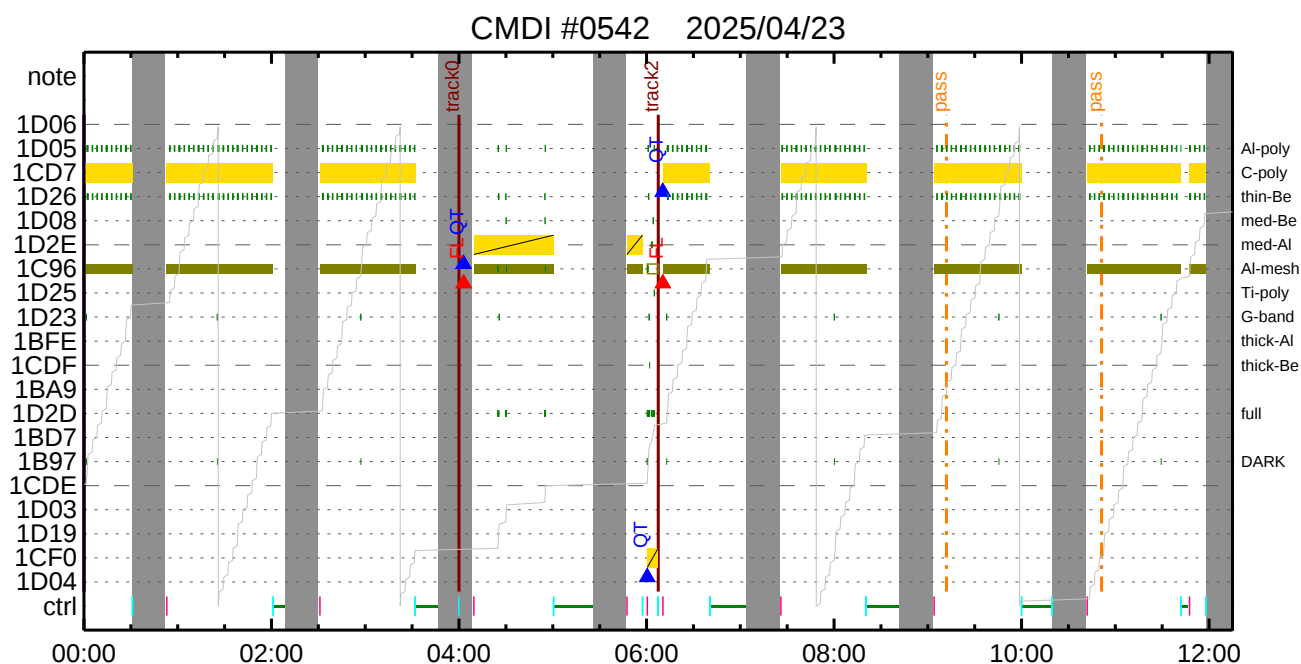
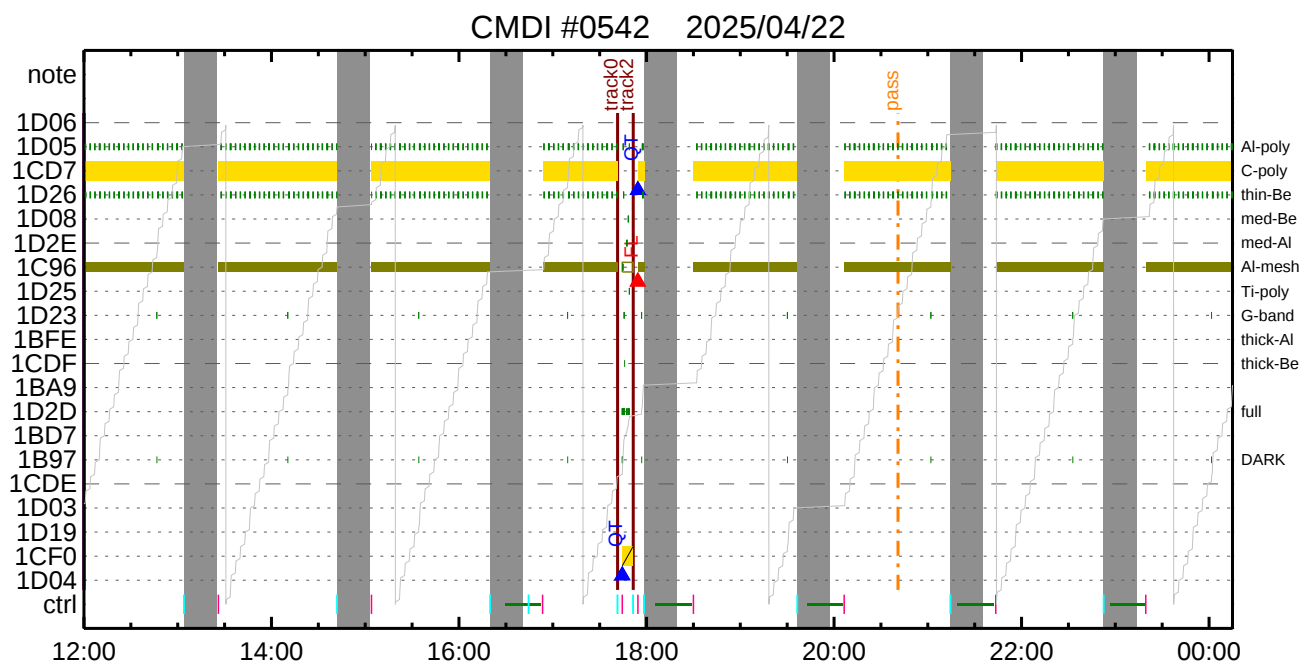
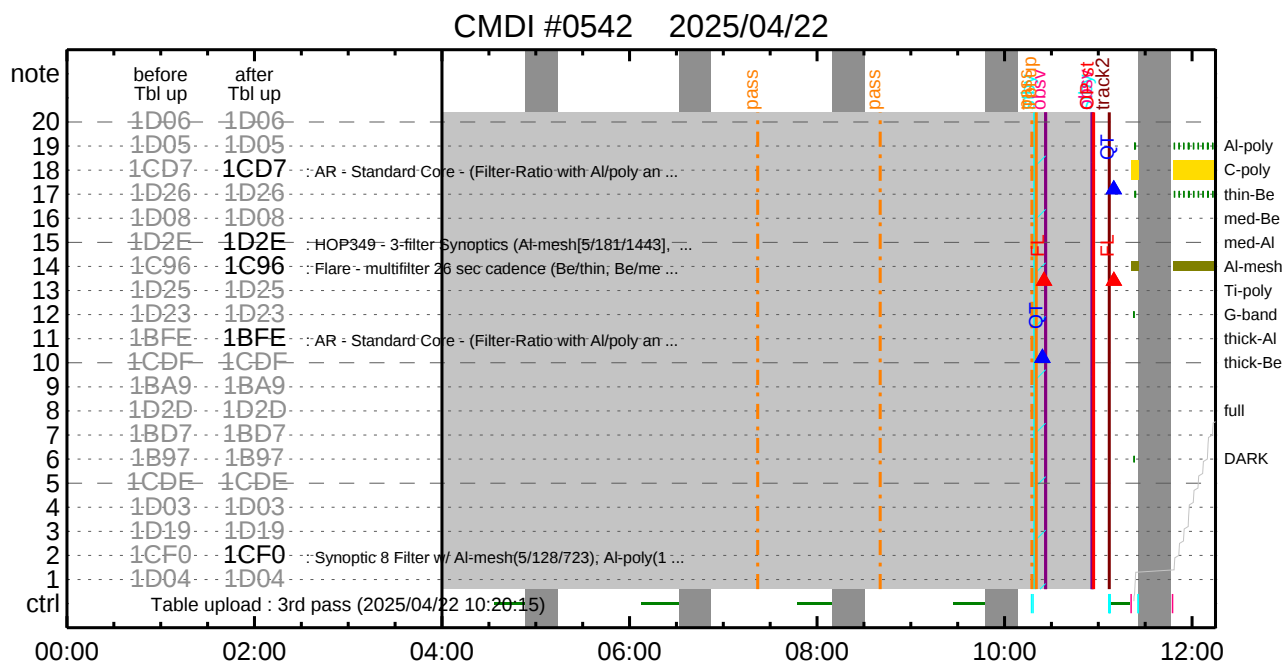
NOT USED

\* \* \* \* \*

## Flare Detection

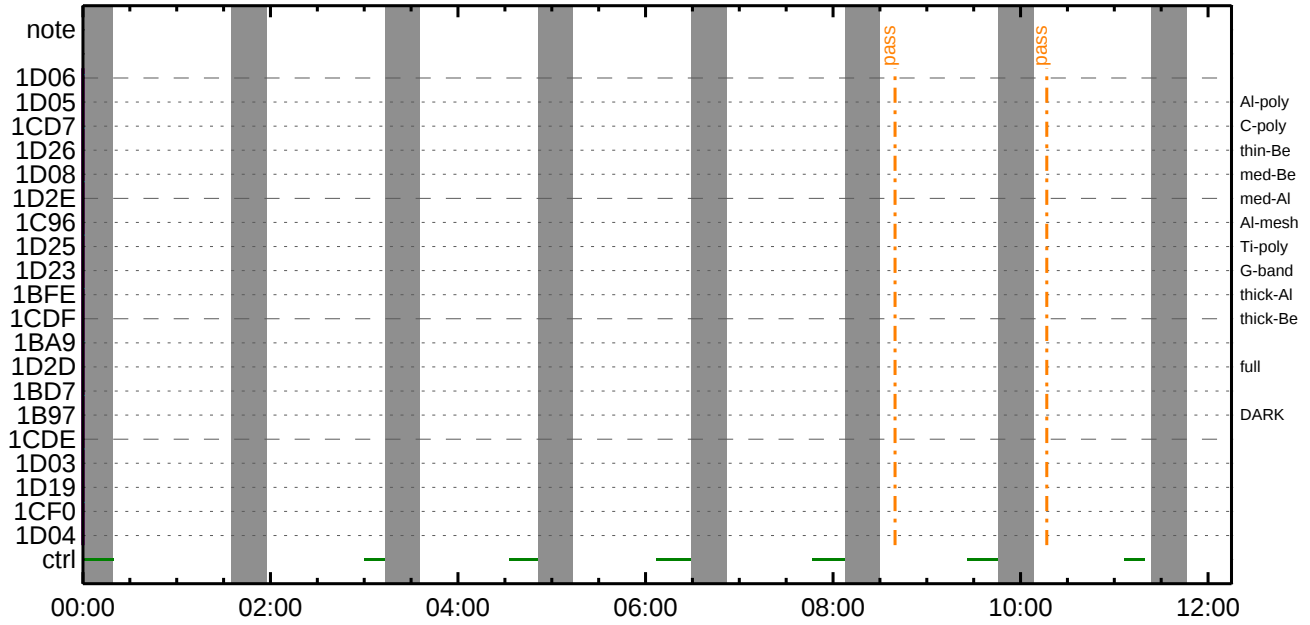
\* \* \* \* \*

| FLD Patrol                      |                |                |       |                      |        |        |                  |     |                    |       |            |          |  |
|---------------------------------|----------------|----------------|-------|----------------------|--------|--------|------------------|-----|--------------------|-------|------------|----------|--|
| Term                            |                |                |       | Pointing (x, y)      |        |        |                  |     | Comment            |       |            |          |  |
| 04/22 10:21:15 - 04/22 17:41:48 |                |                |       | cannot be identified |        |        |                  |     |                    |       |            |          |  |
| 04/22 17:51:48 - 04/23 05:57:48 |                |                |       | Track (              | 314.2, | -23.3) | @ 04/22 17:51:30 |     | Track AR 14062     |       |            |          |  |
| 04/23 06:07:48 - 04/23 18:00:18 |                |                |       | Track (              | 417.9, | -28.0) | @ 04/23 06:07:30 |     | Track AR 14062     |       |            |          |  |
| 04/23 18:10:18 - 04/24 05:23:48 |                |                |       | Track (              | 513.6, | -33.5) | @ 04/23 18:10:00 |     | Track AR 14062     |       |            |          |  |
| 04/24 06:29:48 - 04/26 11:28:00 |                |                |       | Track (              | 603.9, | -40.0) | @ 04/24 06:29:30 |     | Track AR 14062     |       |            |          |  |
|                                 | Al-poly/Open   | Al-poly/Open   | close | Safe                 | Norm   | 4ms    | Obs              | 8x8 | Q=50               |       | 30sec      |          |  |
|                                 | Default Filter | Thicker Filter | VLS   | mode                 | image  | Exp.   | CCD              | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |  |

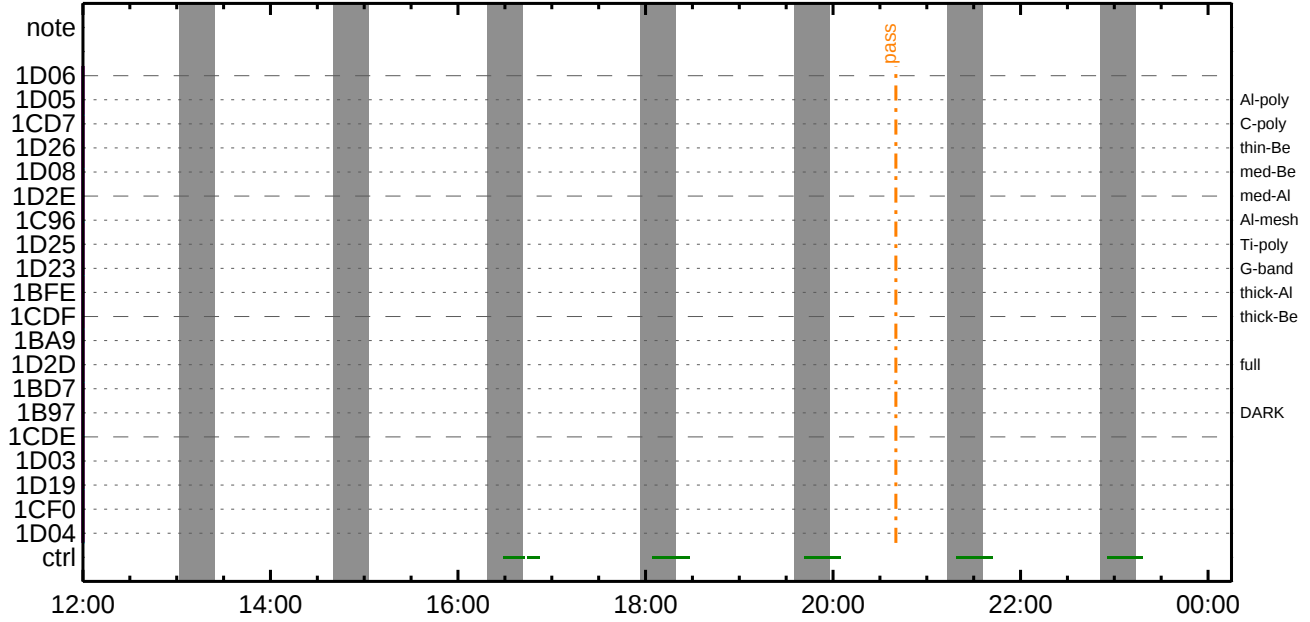




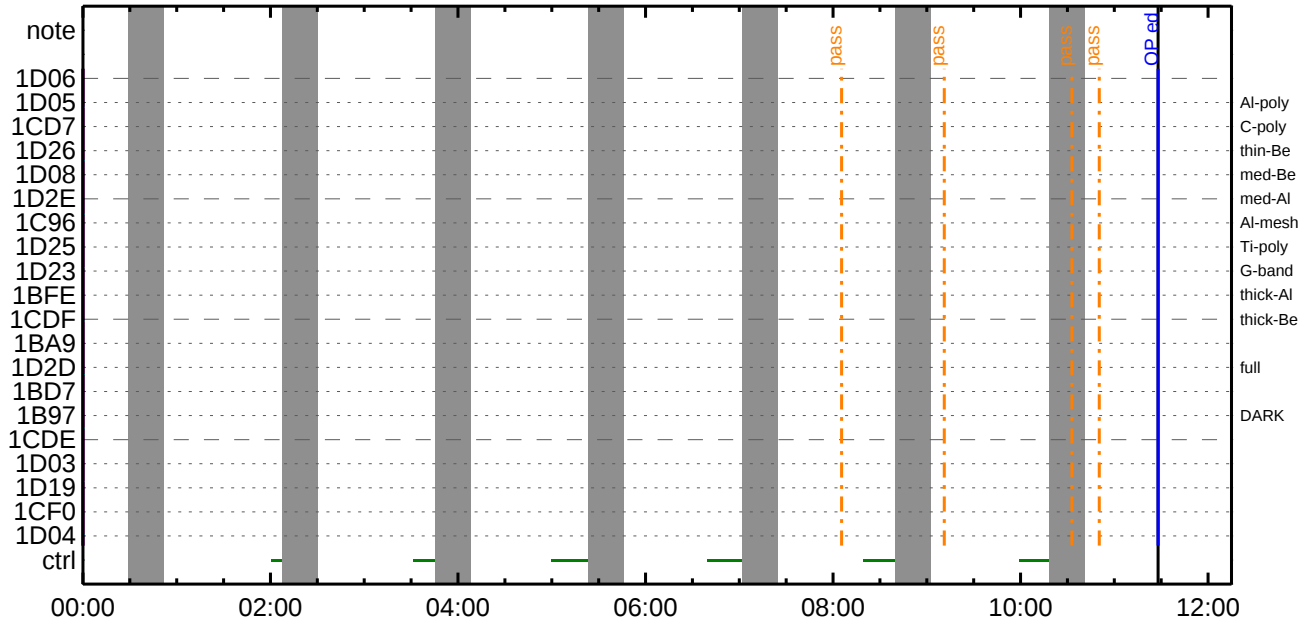
# CMDI #0542 2025/04/25

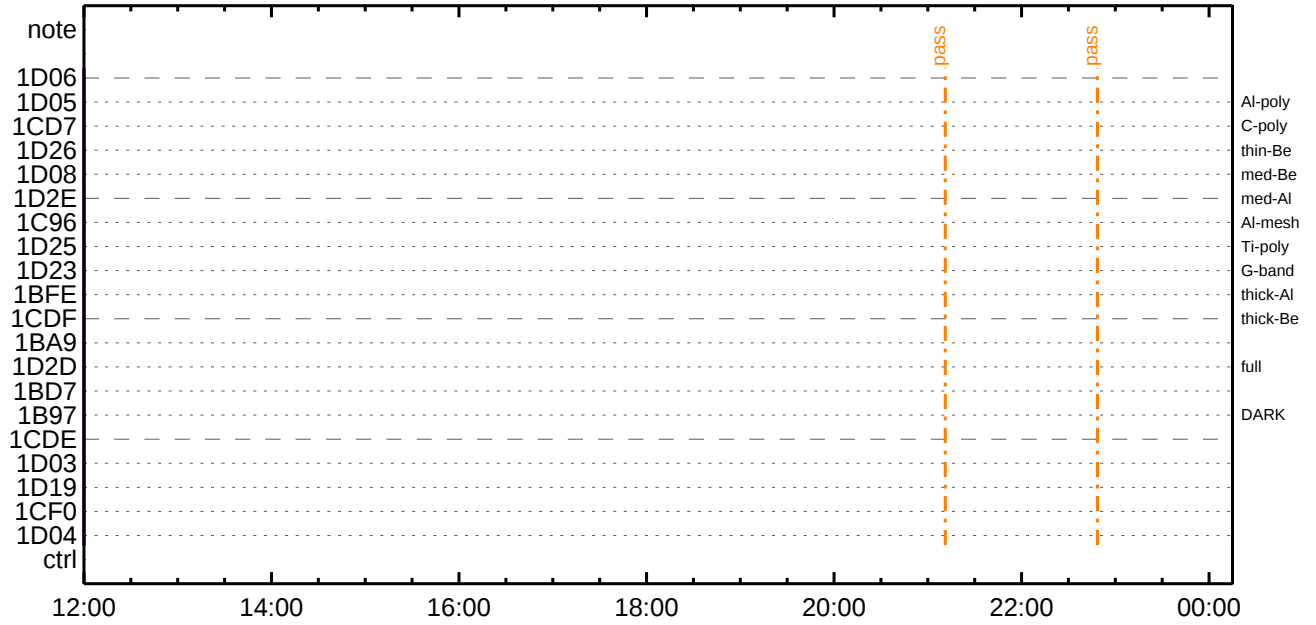


# CMDI #0542 2025/04/25



# CMDI #0542 2025/04/26





(a) Spacecraft Operation Procedure (real-commands)

```
main-228 2025-04-22 12:52:12 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0005 C.
0006 C. ¥À¥ß;¼¥³¥Ð¥ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ë¼¿¼Ä¼•µ°Æ»Í×ÁÇ¼Í¥Ç¥Á¥×¥í;¼¥É;ËËè¼µ•ííË;ËËË¼°ÇÖ¼•¼¿¼¹Ç¼Í;ÇÀ®,ù¼¹¼è¼µÇ¼Á÷¿®¼•¼Ë¼µ¼³¼È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OG¥í;¼¥É;|¥À¥ó¥×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OG¥í;¼¥É;ä
0019 . S. OP op-228:OP
0020 ()
0021 . S. OG og-228:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPíî°è¥Á¥ó¥×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0036 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ¥À¥ó¥×¼°áî»¼³îÇ$
0041 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG¼î¾Ë¹Ç•è²îOK¼³îÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0055 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ¥À¥ó¥×¼°áî»¼³îÇ$
0060 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG¼î¾Ë¹Ç•è²îOK¼³îÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0074 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ¥À¥ó¥×¼°áî»¼³îÇ$
0079 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OP¼î¾Ë¹Ç•è²îOK¼³îÇ$
0081 C.
0082 . C. ***** °Ë²¼¼¼î¾Ä´¼¼°¼ËË¬¼°Á÷¿® (¼¼¼µ-¥À¥ó¥×¼°è¼Ç¼¼°ÁÖÄ¼¼Ç¼°¼¼¬¼è¼¼¹Ç¼Ç¼Ä) *****
0083 C. DHU¥ä;¼¥É;Ë¼ý¼, ¥í;¼¥É;Ë¼òíá¼¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. ¢¢[HK1_PKT_FORM_NO] EQ 2
0087 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOAD¼¬Á÷¿®NG¼î¾¹¹Ç;Ç°Ë²¼¼¼îTI-CMDÁ÷¿®¼î¾¹¹Ö¼•¼Ë¼µ¼³¼È;£
```

|      |    |                                                               |    |           |
|------|----|---------------------------------------------------------------|----|-----------|
| 0096 | C. | SET EDUMP I± iYÑY¹ C¹ Ö ±³ E; f                               |    |           |
| 0097 | C. |                                                               |    |           |
| 0098 | C. | TIY³YDYOYÉDÄDİ; (UT)                                          |    |           |
| 0099 | +  | TI 2025-04-22 10:52:00.0                                      |    |           |
| 0100 | DC | 01-B3 DHU_OP_STOP                                             |    |           |
| 0101 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0102 | C. |                                                               |    |           |
| 0103 | +  | TI 2025-04-22 10:52:01.0                                      |    |           |
| 0104 | DC | 01-B4 DHU_OP_COPY                                             |    |           |
| 0105 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0106 | C. |                                                               |    |           |
| 0107 | +  | TI 2025-04-22 10:52:01.0                                      |    |           |
| 0108 | DC | 01-B5 DHU_OPOG_COPY                                           |    |           |
| 0109 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0110 | C. |                                                               |    |           |
| 0111 | +  | TI 2025-04-22 10:56:59.5                                      |    |           |
| 0112 | DC | 01-B2 DHU_OP_START                                            |    |           |
| 0113 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0114 | C. |                                                               |    |           |
| 0115 | C. | °Ê²¼DİÄê¼İİÑDİYÄY\$YÄY¹¹äiÜ                                   |    |           |
| 0116 | C. | ÇÇ [HK1_TI_CMD_ENA/DIS]                                       | EQ | ENA       |
| 0117 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 4         |
| 0118 | C. | ÇÇ [HK1_NEXT_EXEC_PIM]                                        | EQ | DHU       |
| 0119 | C. | ÇÇ [HK1_NEXT_EXEC_DC]                                         | EQ | 0xB3      |
| 0120 | C. |                                                               |    |           |
| 0121 | C. | *****                                                         |    |           |
| 0122 | C. | TIİİ°èYÄYóY×                                                  |    |           |
| 0123 | C. | *****                                                         |    |           |
| 0124 | C. |                                                               |    |           |
| 0125 | C. | TI_TBL(0x03AB00-0x03AEFF;\$ 1024byte)                         |    |           |
| 0126 | +  | DC 01-23 DHU_DMA_DMP_PRM_SET                                  |    |           |
| 0127 | BC | (03 ab 03 01 02)                                              |    |           |
| 0128 | C. | ÇÇ [HK1_DMP_TOP_ADRS_1]                                       | EQ | 07        |
| 0129 | C. | ÇÇ [HK1_DMP_TOP_ADRS_0]                                       | EQ | 2B        |
| 0130 | C. | ÇÇ [HK1_DMP_BLOCK_NUM]                                        | EQ | 3         |
| 0131 | C. | ÇÇ [HK1_DMP_REPEAT_NUM]                                       | EQ | 0         |
| 0132 | C. | ÇÇ [HK1_DMA_DMP_PIM]                                          | EQ | DHU       |
| 0133 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |           |
| 0134 | BC | (07 0b f8)                                                    |    |           |
| 0135 | C. | ÇÇ [HK1_PKT_FORM_NO]                                          | EQ | 7         |
| 0136 | C. | ÇÇ [HK1_PKT_GEN_TIME]                                         | EQ | 0.25 s    |
| 0137 | C. | ÇÇ [HK1_S_TLM_BIT_RATE]                                       | EQ | 32k       |
| 0138 | C. | ÇÇ [HK1_X_TLM_BIT_RATE]                                       | EQ | 4M        |
| 0139 | C. | ÇÇ [HK1_DMP_CHK_FLG]                                          | EQ | EXEC      |
| 0140 | C. |                                                               |    |           |
| 0141 | C. | YÄYóY×½¹İ»Dö³İÇ\$                                             |    |           |
| 0142 | C. | ÇÇ [HK1_DMP_CHK_FLG]                                          | EQ | NON       |
| 0143 | C. |                                                               |    |           |
| 0144 | C. | RAM ID=TI_TBLDİİ¼È¹Ç•è²İÖKDö³İÇ\$                             |    |           |
| 0145 | C. |                                                               |    |           |
| 0146 | C. | DHUYâ;¼YÉ;Ê¼Y½,Yİ;¼YÈ;ËDöİáD¹                                 |    |           |
| 0147 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |           |
| 0148 | BC | (02 0a f8)                                                    |    |           |
| 0149 | C. | ÇÇ [HK1_PKT_FORM_NO]                                          | EQ | 2         |
| 0150 | C. | ÇÇ [HK1_PKT_GEN_TIME]                                         | EQ | 0.5S      |
| 0151 | C. | ÇÇ [HK1_S_TLM_BIT_RATE]                                       | EQ | 32K       |
| 0152 | C. | ÇÇ [HK1_X_TLM_BIT_RATE]                                       | EQ | 4M        |
| 0153 | C. |                                                               |    |           |
| 0154 | C. | 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 2025-04-22 10:56:30.0                                      |    |           |
| 0161 | DC | 07-FC EIS_MODE_MANU                                           |    |           |
| 0162 | BC | (21 02)                                                       |    |           |
| 0163 | +  | TI 2025-04-22 10:56:40.0                                      |    |           |
| 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 2025-04-22 10:56:00.0                                      |    |           |
| 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 'GÄİDİ»ö¼YDÄÄD¹¹DöDCBC•×²è *****                    |    |           |
| 0181 | C. | (¼Ä°İYÖYÄYÉYDYÉYÄYÇYèDİ¼¼D¹¹Dö)                               |    |           |
| 0182 | S. | DC-BC dcbc-402:DCBC                                           |    |           |
| 0183 |    | (MDP_known_event)                                             |    |           |
| 0184 | C. |                                                               |    |           |
| 0185 | C. |                                                               |    |           |
| 0186 | C. | ***** YDY¹•İ Daily±İİÑDİ'ØD¹¹DöDCBC•×²è *****                 |    |           |
| 0187 | S. | DC-BC dcbc-153:DCBC                                           |    |           |
| 0188 |    | (SPECIAL-CMD_DAILY_OPERATIN_DCB)                              |    |           |
| 0189 | C. |                                                               |    |           |
| 0190 | C. |                                                               |    |           |
| 0191 | C. | ;äLOSYÄY\$YÄY¹¹Ä»Ü;ä                                          |    |           |
| 01   |    |                                                               |    |           |



```
main-229 2025-04-22 12:52:12 178 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŴÁŸ$ŷÃŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸÐŸóŸÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŸÇŸ×Ÿí;¼ŸÉ;ËËè²µ•íîÊ;ËÈ¼°ÇÖñ•ñç¼¹¹Çñİ;ÇÀ®,ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EÄ,Í×ÈÝñäLOSñÞñÇñÎ»Þ'Öòò¹íî,ñ•;ÇÉÔÍ×ñÈXÄÓONñİ¹ÔñÈñíñÈñññ³ñÈ;£
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/LO] EQ HI
0026 C. ÇÇ[HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŸÐŸóŸÉŸíŸÄŸŸ~¾ÔÄÖñ¬°ÄÄêñ•ñççé;Ç°Ê²¼ñî°EÄ,¼ê½Çñò¼Ä¹Ôñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EÄ,
0033 C. *****
0034 C. °° RESTART;ÊPT1;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;ÇDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EÄ,³«»î;ä
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 (¼Ä¹Ô,;¼Ú)
0043 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0044 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0045 C.
0046 . C. ;ãŸÇŸóŸEŸËÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
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 (¼Ä¹Ô,;¼Ú)
0050 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0051 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EÄ,ñ¬¼«E°Ää»ßñ•ñçç,ä;Ç°Ê²¼ñò¼Ä¹Ôñ¹ñè;£
0055 C. ŸÇŸóŸEŸËÄÚÂØñäÄ•Ä°²öÈòñ¬¼áñç¼¹¹Çñİ'°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EÄ,
0059 C. *****
0060 C. °° RESTART;ÊPT2;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;ÇDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EÄ,³«»î;ä
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 (¼Ä¹Ô,;¼Ú)
0069 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0070 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0071 C.
0072 . C. ;ãŸÇŸóŸEŸËÄÚÂØ;ÊÄ•Ä°²öÈò;Ë,ãñî°EÄ,°E³«;ä
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 (¼Ä¹Ô,;¼Ú)
0076 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0077 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EÄ,Ää»ß;ÇXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EÄ,Ää»ß;ä
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. ;ãXÄ÷ç®µ;OFF;ä
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] EO OFF
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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 ()
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 AOCSDUMP 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. ***** AOCS Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 +. DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 7119811.1 +- 1.0 (s) [ ]
0136 C.
0137 C.
0138 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139 +. DC 07-FC EIS_MODE_CHG_ENA
0140 BC (20)
0141 . C. Verify EIS_MODE_CHG_FLG is ENA
0142 +. DC 07-FC EIS_MODE_MANU
0143 BC (21 02)
0144 . C. Verify EIS in MANUAL mode
0145 . C. Estimated OBSTBL upload time is 8s
0146 C. *****
0147 C. EIS START OBSTBL LOAD
0148 C. *****
0149 . S. RAM ram-820:EIS_OBSTBL
0150 ()
0151 +. DC 07-FC EIS_DUMP_OBSTBL
0152 BC (07 07 07 00 00 70 00)
0153 C.
0154 C. Execute, after the success of OBSTBL upload.
0155 C. Set EIS TI-commands
0156 +. TI 2025-04-22 10:56:50.0
0157 DC 07-FC EIS_MODE_CHG_ENA
0158 BC (20)
0159 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0160 C. *****
0161 C. EIS END OBSTBL LOAD
0162 C. *****
0163 C.
0164 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÃÐñ¹ñëDCBC•×²è *****
0165 C. (¾å°î¥Ó¥Ã¥Ê¥Ð¥Ê¥Ã¥¼¥ç¥ëñÊ¼ñ¼ñ¼»Ûñ¹ñë)
0166 . S. DC-BC dcbc-402:DCBC
0167 (MDP_known_event)
0168 C.
0169 C.
0170 . C. ***** ¥Ð¥¹•İ Daily±¿ÍÑñÊ'Øñ¹ñëDCBC•×²è *****
0171 . S. DC-BC dcbc-153:DCBC
0172 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173 C.
0174 C.
0175 . C. ;ãLOS¥Á¥$¥Ã¥¹¼Ã»Û;ä
0176 C.
0177 . C. ***** LOS *****
0178 C.

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main-230 2025-04-22 12:52:12 184 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŲÇŲÃŲ×Ųí;¼ŲÉ;ËËè²µ•íîÊ;ËÈ¼°ÇÔñ•ñç¼¹¹Çñİ;ÇÀ®,ùñ¹ñèñÐñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EA, Í×ÈÝñäLOSñÐñÇñÎ»p´Òòò¹íî,ñ•;ÇÉÔÍ×ñÈXÄÓONñİ¹ÒñÈñíñÈñññ³ñÈ;£
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/LO] EQ HI
0026 C. ÇÇ [HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ [HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲÐŲóŲÉŲíŲÃŲ~¾ÔÄÖñ¬°ÄÄêñ•ñççé;Ç°Ê²¼ñî°EA,¼ê½Çñò¼Ä¹Òñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EA,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Òññ°;ÇDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EA,³«»î;ä
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 (¼Ä¹Ò,;¼Ü)
0043 C. ÇÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ü)
0044 C. ÇÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ü)
0045 C.
0046 . C. ;ãŲÇŲóŲÉŲËËÄÚÂØ;ÊÄ•Ä°²óÈò;Ë,ãñî°EA,°E³«;ä
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 (¼Ä¹Ò,;¼Ü)
0050 C. ÇÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ü)
0051 C. ÇÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ü)
0052 C.
0053 C.
0054 . C. PT1°EA,ñ¬¼«E°Ää»ßñ•ñçç,ä;Ç°Ê²¼ñò¼Ä¹Òñ¹ñè;£
0055 C. ŲÇŲóŲËËËÄÚÂØñäÄ•Ä°²óÈòñ¬¼áñç¼¹¹Çñİ´°î»ñ¹ñèñÐñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EA,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Òññ°;ÇDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EA,³«»î;ä
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 (¼Ä¹Ò,;¼Ü)
0069 C. ÇÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ü)
0070 C. ÇÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ü)
0071 C.
0072 . C. ;ãŲÇŲóŲËËËÄÚÂØ;ÊÄ•Ä°²óÈò;Ë,ãñî°EA,°E³«;ä
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 (¼Ä¹Ò,;¼Ü)
0076 C. ÇÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ü)
0077 C. ÇÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ü)
0078 C.
0079 . C. *****
0080 C. DR°EA,Ää»ß;ÇXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EA,Ää»ß;ä
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. ;ãXÄ÷ç®µ;OFF;ä
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] EO OFF
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0096 C.
0097 C.
0098 C.
0099 C. ***** XRT START *****
0100 C.
0101 +. DC 07-F0 MDP_XRT_CTRL_MANU
0102 BC (c1)
0103 +. DC 07-F0 MDP_XRT_CTRL_MANU
0104 BC (c1)
0105 + DC 07-F0 MDP_XRT_MODE_STBY
0106 BC (c3)
0107 . C. ----- Success Verify ? OK / NG____
0108 C.
0109 C. XRT Obs. Table Upload
0110 . S. RAM ram-291:MDP_OBS_X
0111 ()
0112 C.
0113 +. DC 07-F0 MDP_DUMP_XRTTBL
0114 BC (84 07 00 00 00 3a d4)
0115 . C. ----- Comparison Check ? OK / ERR ____
0116 C.
0117 C.
0118 +. DC 07-F0 MDP_XRT_ROI_SET
0119 BC (cd 01 b1 b1 04 04)
0120 + DC 07-F0 MDP_XRT_ROI_SET
0121 BC (cd 02 b1 b1 08 08)
0122 + DC 07-F0 MDP_XRT_ROI_SET
0123 BC (cd 03 b1 b1 08 08)
0124 + DC 07-F0 MDP_XRT_ROI_SET
0125 BC (cd 04 b1 b1 06 06)
0126 + DC 07-F0 MDP_XRT_ROI_SET
0127 BC (cd 05 85 83 06 06)
0128 + DC 07-F0 MDP_XRT_ROI_SET
0129 BC (cd 06 85 83 06 06)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 07 80 80 20 20)
0132 + DC 07-F0 MDP_XRT_ROI_SET
0133 BC (cd 08 80 80 20 08)
0134 + DC 07-F0 MDP_XRT_ROI_SET
0135 BC (cd 09 80 80 08 20)
0136 + DC 07-F0 MDP_XRT_ROI_SET
0137 BC (cd 0a 80 80 08 08)
0138 + DC 07-F0 MDP_XRT_ROI_SET
0139 BC (cd 0f 80 80 06 06)
0140 + DC 07-F0 MDP_XRT_ROI_SET
0141 BC (cd 10 80 80 08 08)
0142 + DC 07-F0 MDP_XRT_FLD_ENA
0143 BC (d8)
0144 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0145 BC (c8)
0146 + DC 07-F0 MDP_XRT_ARS_DIS
0147 BC (d5)
0148 + DC 07-F0 MDP_XRT_AEC_RESET
0149 BC (d0)
0150 + DC 07-F0 MDP_XRT_FLD_RESET
0151 BC (da)
0152 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0153 BC (c4 0b)
0154 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0155 BC (c5 0e)
0156 . C. ----- Success Verify ? OK / NG ____
0157 C.
0158 C.
0159 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0160 C.
0161 +. DC 07-F0 MDP_XRT_MODE_OBSV
0162 BC (c2)
0163 +. TI 2025-04-22 10:56:02.0
0164 DC 07-F0 MDP_XRT_MODE_OBSV
0165 BC (c2)
0166 . C. ----- Success Verify ? OK / NG ____
0167 C.
0168 C. ***** XRT END *****
0169 C.
0170 . C. ***** MDP 'ûÃîîÎ»ö¼ÝñÊÃÐñ¹ëDCBC•x²è *****
0171 C. (%ã°îÿÓŸÄŸÊŸÐŸÊŸÄŸÇŸÊñÊ¼ñ¼Ä»Ûñ¹ñé)
0172 . S. DC-BC dcbc-402:DCBC
0173 (MDP_known_event)
0174 C.
0175 C.
0176 . C. ***** ŸÐŸ¹•Ï Daily±çÍÑñÊ'Øñ¹ëDCBC•x²è *****
0177 . S. DC-BC dcbc-153:DCBC
0178 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0179 C.
0180 C.
0181 . C. ;ãLOSŸÁŸSŸÄŸ¹¼Ä»Ü;ä
0182 C.
0183 . C. ***** LOS *****
0184 C.
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Apr 22, 25 12:52

XRT\_OGLIST\_0542.chk

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

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/04/22 | 11:06:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:06:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:06:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/04/22 | 11:07:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 8d 01 db |
| 2025/04/22 | 11:07:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/04/22 | 11:07:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/04/22 | 11:07:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/04/22 | 11:07:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/22 | 11:07:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 11:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:07:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:07:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 11:07:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 11:09:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |
| 2025/04/22 | 11:09:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/04/22 | 11:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 11:20:00.5 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 11:21:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 11:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 11:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 11:25:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 11:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 11:46:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 11:47:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 13:04:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 13:04:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 13:04:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 13:04:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 13:07:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 13:25:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 13:26:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 14:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 14:42:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 14:42:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 14:42:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 14:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 15:03:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 15:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 16:20:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 16:20:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 16:20:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 16:20:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 16:23:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 16:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 16:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 16:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 16:44:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/04/22 | 16:47:44.0 | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
|            |            | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 16:52:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 16:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 17:41:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:41:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:41:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/04/22 | 17:41:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/04/22 | 17:41:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/04/22 | 17:41:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/04/22 | 17:41:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/22 | 17:44:28.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2025/04/22 | 17:44:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 17:51:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:51:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:51:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/04/22 | 17:51:30.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 8d 01 db |
| 2025/04/22 | 17:51:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/04/22 | 17:51:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/04/22 | 17:51:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/04/22 | 17:51:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/22 | 17:51:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 17:54:26.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |
| 2025/04/22 | 17:54:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/04/22 | 17:54:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 17:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:58:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 17:58:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 17:58:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 18:01:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 18:29:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 18:30:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 19:36:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 19:36:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 19:36:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 19:36:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 19:39:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 20:05:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 20:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 21:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 21:14:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 21:14:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/22 | 21:14:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/22 | 21:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/22 | 21:42:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/22 | 21:43:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/22 | 22:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 22:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/22 | 22:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2025/04/22 | 22:52:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/04/22 | 22:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/04/22 | 23:18:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2025/04/22 | 23:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/04/23 | 00:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 00:31:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 00:31:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2025/04/23 | 00:31:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/04/23 | 00:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/04/23 | 00:52:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2025/04/23 | 00:53:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/04/23 | 02:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 02:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 02:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2025/04/23 | 02:01:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/04/23 | 02:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/04/23 | 02:30:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2025/04/23 | 02:31:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/04/23 | 03:32:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 03:32:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 03:32:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2025/04/23 | 03:32:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/04/23 | 03:35:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/04/23 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2025/04/23 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2025/04/23 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2025/04/23 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2025/04/23 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2025/04/23 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2025/04/23 | 04:00:24.0 | XRT_FLD_RESET_446_OG [0x1be]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2025/04/23 | 04:02:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |  |  |  |  |
| 2025/04/23 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2025/04/23 | 04:08:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2025/04/23 | 04:09:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/04/23 | 05:00:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 05:00:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 05:00:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2025/04/23 | 05:00:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/04/23 | 05:03:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/04/23 | 05:46:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2025/04/23 | 05:47:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/04/23 | 05:57:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 05:57:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/04/23 | 05:57:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2025/04/23 | 05:57:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2025/04/23 | 05:57:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2025/04/23 | 05:57:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2025/04/23 | 06:00:28.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |  |  |  |  |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/04/23 | 11:58:06.0 | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
|            |            | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 12:01:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 12:19:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 12:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 13:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 13:36:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 13:36:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 13:36:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 13:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 13:57:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 13:58:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 15:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 15:14:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 15:14:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 15:14:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 15:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 15:36:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 15:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 16:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 16:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 16:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 16:52:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 16:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 17:24:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 17:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/04/23 | 18:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/04/23 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/04/23 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/04/23 | 18:00:22.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/23 | 18:02:58.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2025/04/23 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/04/23 | 18:10:00.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 8d 01 db |
| 2025/04/23 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/04/23 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/04/23 | 18:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/04/23 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/23 | 18:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 18:12:56.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |
| 2025/04/23 | 18:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/04/23 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 18:30:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 18:30:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/04/23 | 18:30:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 18:30:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 18:33:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 19:01:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 19:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 20:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 20:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 20:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 20:08:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 20:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 20:37:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 20:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 21:46:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 21:46:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 21:46:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 21:46:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 21:49:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 22:14:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 22:15:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/23 | 23:25:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 23:25:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/23 | 23:25:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/23 | 23:25:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/23 | 23:28:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/23 | 23:49:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/23 | 23:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/24 | 01:03:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/24 | 01:03:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/24 | 01:03:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/24 | 01:03:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/24 | 01:06:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/24 | 01:24:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/24 | 01:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/24 | 02:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/24 | 02:30:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/24 | 02:30:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/24 | 02:30:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/24 | 02:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/24 | 03:03:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/24 | 03:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/24 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/24 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/04/24 | 04:00:00.0 | AOCs_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/04/24 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/04/24 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/04/24 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/04/24 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/24 | 04:00:24.0 | XRT_FLD_RESET_446_OG [0x1be]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/24 | 04:02:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |
| 2025/04/24 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |

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|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2025/04/24 | 04:04:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0e          |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 04:04:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 04:04:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2025/04/24 | 04:04:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2025/04/24 | 04:07:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2025/04/24 | 04:41:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2025/04/24 | 04:42:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2025/04/24 | 05:23:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 05:23:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 05:23:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2025/04/24 | 05:23:48.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |             |
| 2025/04/24 | 05:23:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |             |
| 2025/04/24 | 05:23:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2025/04/24 | 05:26:28.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02          |
| 2025/04/24 | 05:26:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2025/04/24 | 05:33:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 05:33:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 05:33:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2025/04/24 | 05:33:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2025/04/24 | 05:36:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2025/04/24 | 06:19:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2025/04/24 | 06:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2025/04/24 | 06:29:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 06:29:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 06:29:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2025/04/24 | 06:29:30.0 | AOCs_ORe-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 02 | 03 8d 01 db |
| 2025/04/24 | 06:29:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2025/04/24 | 06:29:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2025/04/24 | 06:29:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2025/04/24 | 06:29:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2025/04/24 | 06:29:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2025/04/24 | 06:32:26.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b          |
| 2025/04/24 | 06:32:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0e          |
| 2025/04/24 | 06:32:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2025/04/24 | 07:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 07:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 07:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2025/04/24 | 07:13:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2025/04/24 | 07:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2025/04/24 | 07:57:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2025/04/24 | 07:58:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2025/04/24 | 08:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 08:53:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2025/04/24 | 08:53:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2025/04/24 | 08:53:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2025/04/24 | 08:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2025/04/24 | 09:35:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2025/04/24 | 09:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |

