

## Period: 2025/11/22 10:25:00 - 2025/12/02 10:52:00

Period: 2025/11/22 10:25:00 - 2025/12/02 10:52:00

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| XOB #1D07: Synoptic 8 Filter w/ AI-mesh(5/128/723), AI-poly(8/181/1443), Thin-Be(33/512/4096), Thick-Be(32768), Med-AI(256/8192/32768), Med-Be(128/5795) |  |                   |     |       |       |      |                            |         |                        |  |       |            |          |        |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|-----|-------|-------|------|----------------------------|---------|------------------------|--|-------|------------|----------|--------|--|--|
| Term                                                                                                                                                     |  | Pointing (x, y)   |     |       |       |      | Comment                    |         |                        |  |       |            |          |        |  |  |
| 11/22 18:03:00 - 11/22 18:09:54                                                                                                                          |  | Fixed ( 0.0, 0.0) |     |       |       |      | synoptic                   |         |                        |  |       |            |          |        |  |  |
| 11/23 06:13:00 - 11/23 06:30:00                                                                                                                          |  | Fixed ( 0.0, 0.0) |     |       |       |      | synoptic, shifted 10.0 min |         |                        |  |       |            |          |        |  |  |
| PROG= 06                                                                                                                                                 |  |                   |     |       |       |      |                            |         |                        |  |       |            |          |        |  |  |
| 1-time(s)                                                                                                                                                |  |                   |     |       |       |      |                            |         |                        |  |       |            |          |        |  |  |
| Subr= 1                                                                                                                                                  |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| Seqn= 5                                                                                                                                                  |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| Open/Ti-poly                                                                                                                                             |  | Open/thick-AI     |     | close | Safe  | Dark | 500ms                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 0        | 2.0sec |  |  |
| Open/Ti-poly                                                                                                                                             |  | Open/thick-AI     |     | close | Safe  | Dark | 500ms                      | Obs 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 0        | 2.0sec |  |  |
| Open/Ti-poly                                                                                                                                             |  | Open/thick-AI     |     | close | Safe  | Dark | 500ms                      | Obs 8x8 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 0        | 2.0sec |  |  |
| Open/Ti-poly                                                                                                                                             |  | Open/thick-AI     |     | close | Safe  | Dark | 500ms                      | Obs 1x1 | 2048x512 (1024, 1024)  |  | DPCM  | 0          | 0        | 2.0sec |  |  |
| Open/Ti-poly                                                                                                                                             |  | Open/thick-AI     |     | close | Safe  | Dark | 500ms                      | Obs 1x1 | 512x2048 (1024, 1024)  |  | DPCM  | 0          | 0        | 2.0sec |  |  |
| Seqn= 26                                                                                                                                                 |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| Open/AI-mesh                                                                                                                                             |  | Open/AI-mesh      |     | close | Safe  | Norm | 5ms                        | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| Open/AI-mesh                                                                                                                                             |  | Open/AI-mesh      |     | close | Safe  | Norm | 125ms                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| Open/AI-mesh                                                                                                                                             |  | Open/AI-mesh      |     | close | Safe  | Norm | 707ms                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| Seqn= 99                                                                                                                                                 |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| AI-poly/Open                                                                                                                                             |  | AI-poly/Open      |     | close | Safe  | Norm | 8ms                        | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| AI-poly/Open                                                                                                                                             |  | AI-poly/Open      |     | close | Safe  | Norm | 177ms                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| AI-poly/Open                                                                                                                                             |  | AI-poly/thick-AI  |     | 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= 41                                                                                                                                                 |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| Open/thick-Be                                                                                                                                            |  | Open/thick-Be     |     | close | Safe  | Norm | 32.0s                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 0        | 2.0sec |  |  |
| Seqn= 17                                                                                                                                                 |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| med-AI/Open                                                                                                                                              |  | med-AI/thick-AI   |     | close | Safe  | Norm | 250ms                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| med-AI/Open                                                                                                                                              |  | med-AI/thick-AI   |     | close | Safe  | Norm | 8.00s                      | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |  |  |
| med-AI/Open                                                                                                                                              |  | med-AI/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-AI     |     | 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= 75                                                                                                                                                 |  | 1-time(s)         |     |       |       |      | 2.0sec                     |         |                        |  |       |            |          |        |  |  |
| AI-poly/Ti-poly                                                                                                                                          |  | AI-poly/thick-AI  |     | close | Safe  | Norm | 44ms                       | Obs 2x2 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 0        | 2.0sec |  |  |
| AI-poly/Ti-poly                                                                                                                                          |  | AI-poly/thick-AI  |     | 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 #1B89: AR - Standard Core - (Filter-Ratio with All/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and All/poly context, with |                                        |                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------|--|
| Term                                                                                                                                                          | Pointing (x, y)                        | Comment             |  |
| 11/22 18:13:00 - 11/23 03:59:54                                                                                                                               | Track (-802.9, 240.0) @ 11/22 18:10:00 | # AR 14288 tracking |  |
| PROG= 20                                                                                                                                                      | Inf.-time(s)                           |                     |  |
| └ Subr= 1                                                                                                                                                     | 1-time(s)                              | 2.0sec              |  |

|                            |                |       |      |       |       |     |     |                      |       |            |          |        |
|----------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Seqn= 92 1-time(s) 2.0sec  |                |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                | Open/G-band    | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Open/G-band                | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly               | Open/thick-Al  | close | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| Subr= 2 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) 60.0sec |                |       |      |       |       |     |     |                      |       |            |          |        |
| 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 #1D1A: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[5/181/1443], thin-Be[16/512/3897] with 512x512 G-band+Leak - 120min cad) + CME wa

| Term                            |  |                  | Pointing (x, y)   |           |       |       | Comment |     |                        |  |       |            |          |        |
|---------------------------------|--|------------------|-------------------|-----------|-------|-------|---------|-----|------------------------|--|-------|------------|----------|--------|
| 11/23 04:25:00 - 11/23 06:09:54 |  |                  | Fixed ( 0.0, 0.0) |           |       |       | HOP 349 |     |                        |  |       |            |          |        |
| PROG= 04 Inf.-time(s)           |  |                  |                   |           |       |       |         |     |                        |  |       |            |          |        |
| Subr= 1                         |  | 1-time(s)        |                   | 600.0sec  |       |       |         |     |                        |  |       |            |          |        |
| Seqn= 55                        |  | 1-time(s)        |                   | 2.0sec    |       |       |         |     |                        |  |       |            |          |        |
| └ Open/Al-mesh                  |  | Open/Al-mesh     | close             | Safe      | Norm  | 2ms   | 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= 98                        |  | 1-time(s)        |                   | 2.0sec    |       |       |         |     |                        |  |       |            |          |        |
| └ Al-poly/Open                  |  | Al-poly/Open     | close             | Safe      | Norm  | 5ms   | 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= 79                        |  | 1-time(s)        |                   | 2.0sec    |       |       |         |     |                        |  |       |            |          |        |
| └ thin-Be/Open                  |  | thin-Be/Open     | close             | Safe      | Norm  | 16ms  | 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  | 2.83s | 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                         |  | 6-time(s)        |                   | 1200.0sec |       |       |         |     |                        |  |       |            |          |        |
| 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 |        |

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## Flare mode

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# XOB #1D35: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + GB

| Term                            | Pointing (x, y)                         |       | Comment                                |      |       |     |     |                      |      |   |   |        |  |
|---------------------------------|-----------------------------------------|-------|----------------------------------------|------|-------|-----|-----|----------------------|------|---|---|--------|--|
| 11/22 10:38:00 - 11/22 17:59:54 | Track ( -836.6, 241.6) @ 11/22 10:35:00 |       | # OP start + 10min : AR 14288 tracking |      |       |     |     |                      |      |   |   |        |  |
| 11/22 18:13:00 - 11/23 03:59:54 | Track ( -802.9, 240.0) @ 11/22 18:10:00 |       | # AR 14288 tracking                    |      |       |     |     |                      |      |   |   |        |  |
| 11/23 04:25:00 - 11/23 06:09:54 | Fixed ( 0.0, 0.0)                       |       | HOP 349                                |      |       |     |     |                      |      |   |   |        |  |
| PROG= 14 30-time(s)             |                                         |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Subr= 1                         | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Seqn= 68                        | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Open/G-band                     | Open/G-band                             | open  | Safe                                   | Norm | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |  |
| Subr= 2                         | 20-time(s) 2.0sec                       |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Seqn= 11                        | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Al-poly/Open                    | Al-poly/thick-Al                        | close | Safe                                   | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |  |
| Seqn= 73                        | 1-time(s) 10.0sec                       |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| 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= 3                         | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Seqn= 10                        | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| med-Al/Open                     | med-Al/thick-Al                         | close | Safe                                   | Norm | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |  |
| Open/thick-Be                   | Open/thick-Be                           | close | Safe                                   | Norm | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |  |
| Seqn= 11                        | 1-time(s) 2.0sec                        |       |                                        |      |       |     |     |                      |      |   |   |        |  |
| Al-poly/Open                    | Al-poly/thick-Al                        | close | Safe                                   | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |  |

|                |               |                |       |        |       |       |     |     |                      |  |  |       |            |          |        |
|----------------|---------------|----------------|-------|--------|-------|-------|-----|-----|----------------------|--|--|-------|------------|----------|--------|
| └              | Seqn= 87      | 1-time(s)      |       | 2.0sec |       |       |     |     |                      |  |  |       |            |          |        |
|                | Open/G-band   | Open/G-band    | open  | Safe   | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) |  |  | Q=98  | 0          | 0        | 2.0sec |
|                | Open/G-band   | Open/G-band    | close | Safe   | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) |  |  | Q=98  | 0          | 0        | 2.0sec |
|                | Open/thick-AI | Open/thick-AI  | close | Safe   | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) |  |  | Q=98  | 0          | 0        | 2.0sec |
|                | Open/thick-AI | Open/thick-AI  | close | Safe   | Dark  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) |  |  | Q=98  | 0          | 0        | 2.0sec |
| Default Filter |               | Thicker Filter | VLS   | mode   | image | Exp.  | CCD | Bin | ROI: size (center)   |  |  | Comp. | AEC Buffer | Interval |        |

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Active Region Search

\* \* \* \* \*

NOT USED

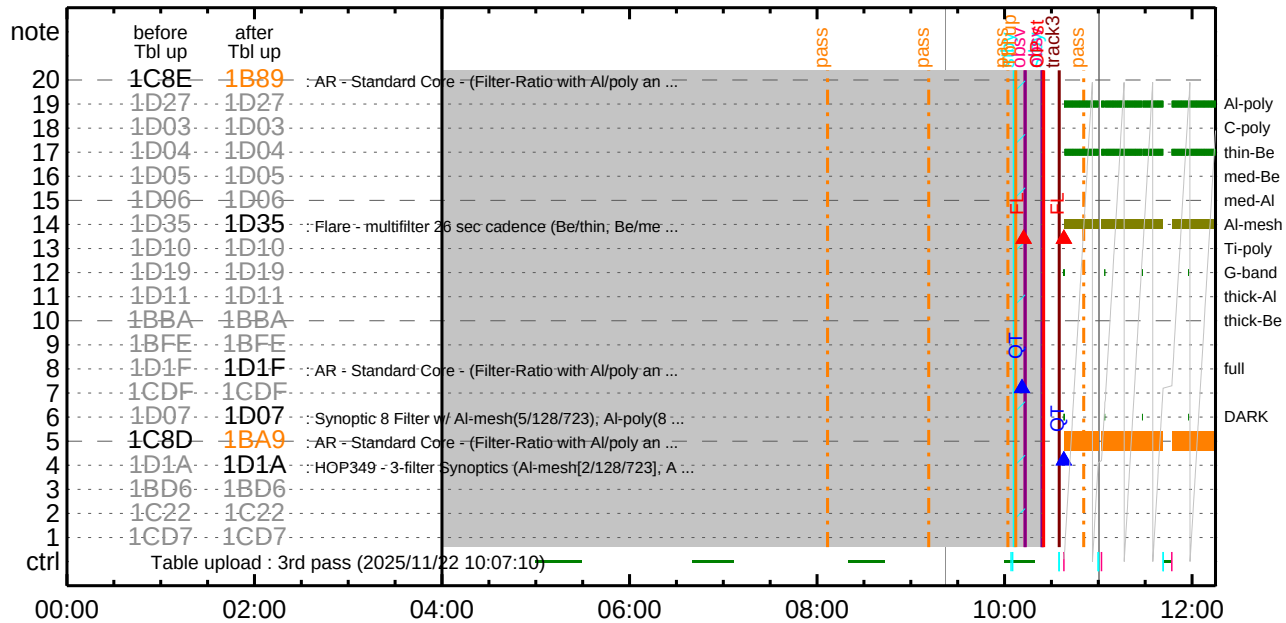
\* \* \* \* \*

Flare Detection

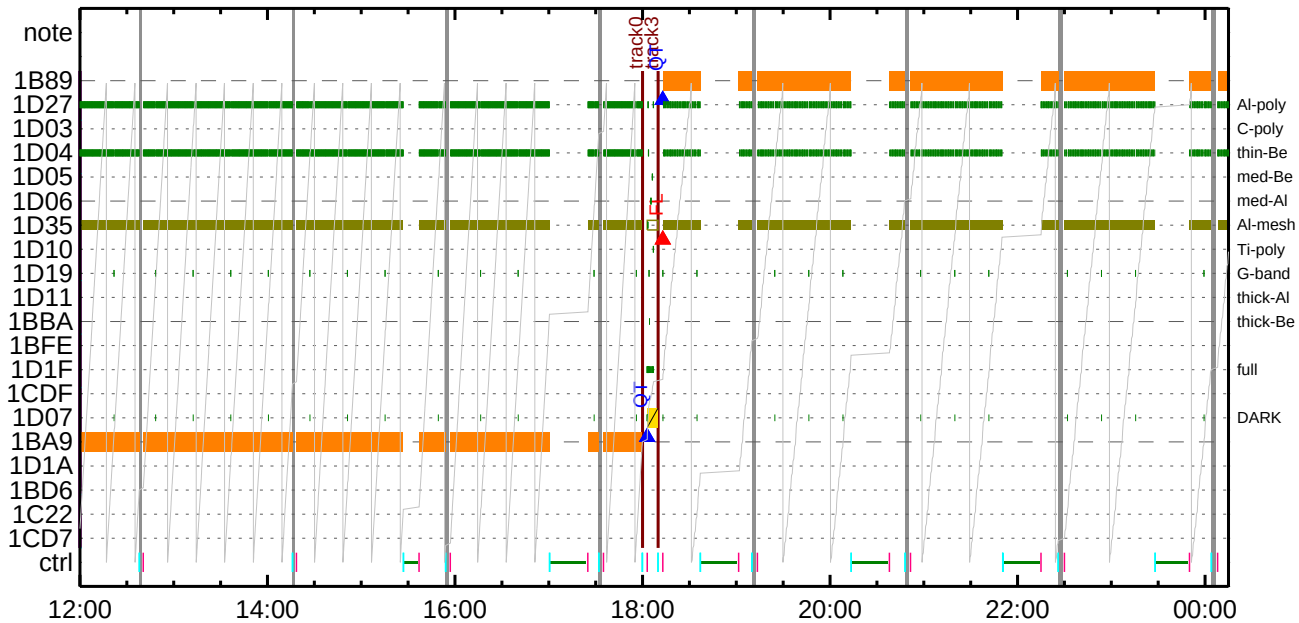
\* \* \* \* \*

| FLD Patrol                      |  |                |                                                             |      |       |      |     |     |                    |  |       |                     |
|---------------------------------|--|----------------|-------------------------------------------------------------|------|-------|------|-----|-----|--------------------|--|-------|---------------------|
| Term                            |  |                | Pointing (x, y)                                             |      |       |      |     |     | Comment            |  |       |                     |
| 11/22 10:08:10 - 11/22 18:00:18 |  |                | cannot be identified                                        |      |       |      |     |     |                    |  |       |                     |
| 11/22 18:10:18 - 11/23 06:10:18 |  |                | Track ( -802.9, 240.0) @ 11/22 18:10:00 # AR 14288 tracking |      |       |      |     |     |                    |  |       |                     |
| AI-poly/Open                    |  | AI-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 |

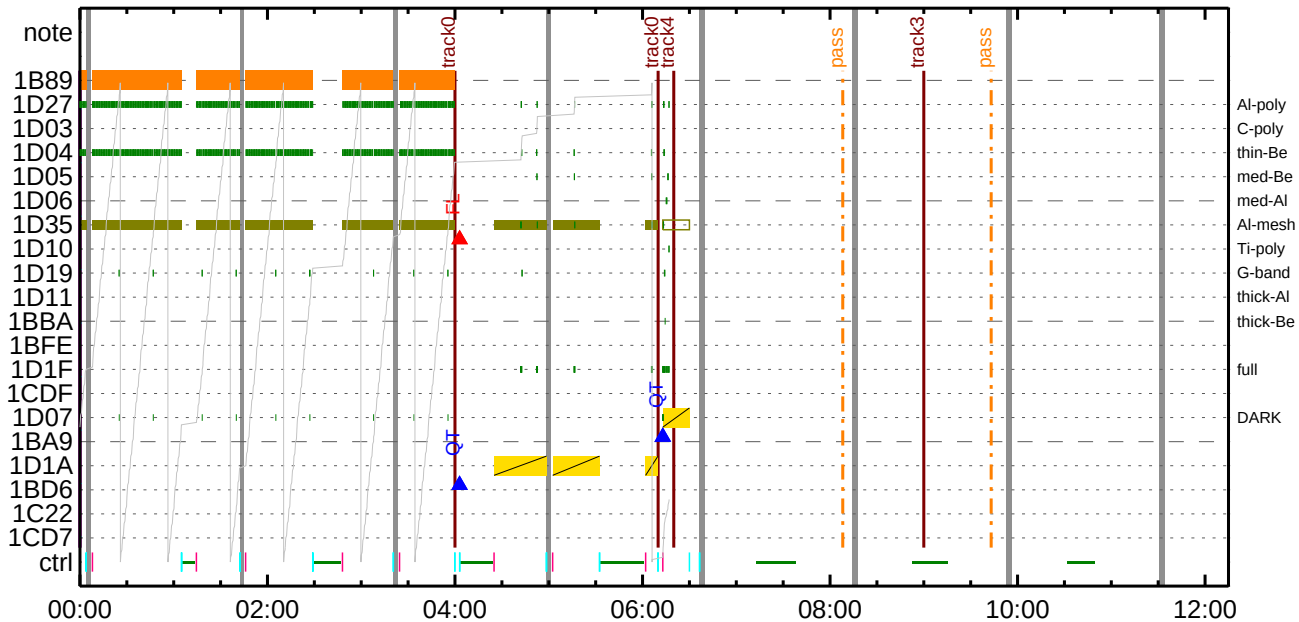
# CMDI #0980 2025/11/22



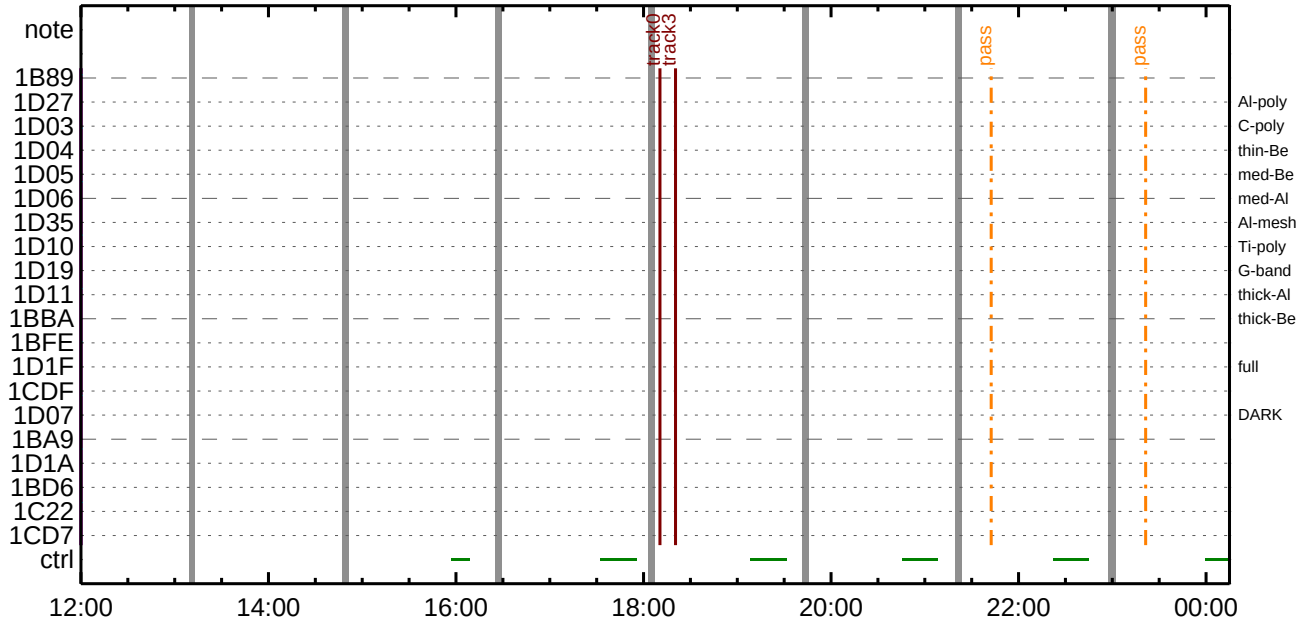
# CMDI #0980 2025/11/22



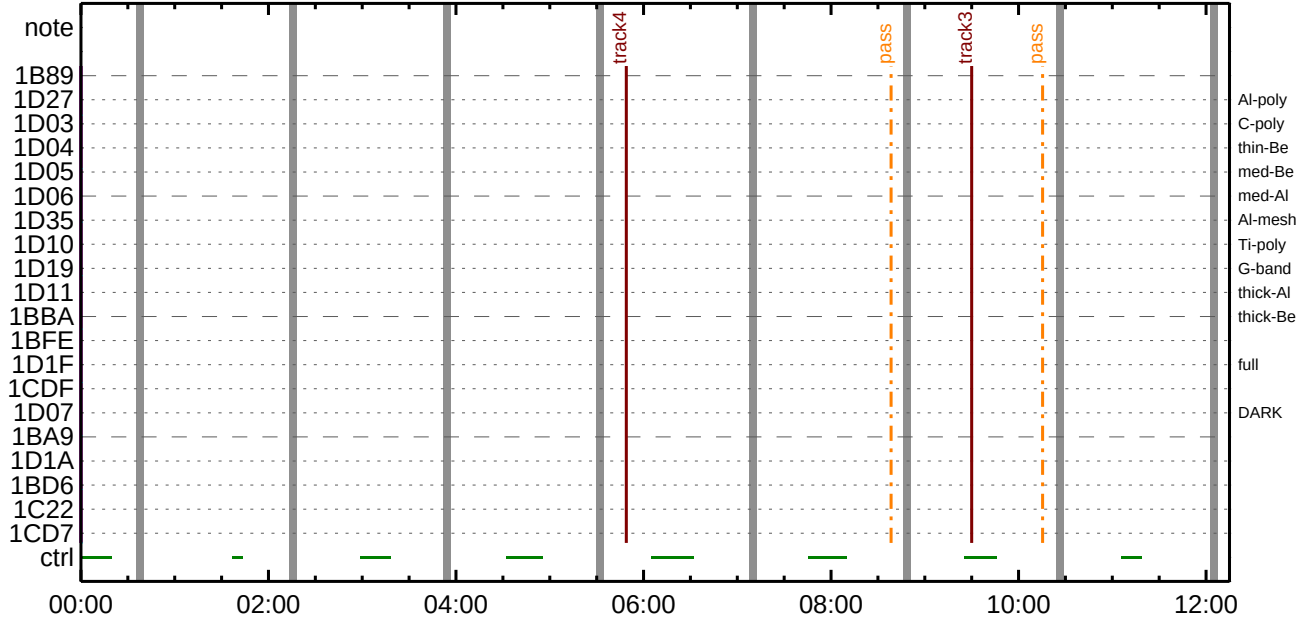
# CMDI #0980 2025/11/23



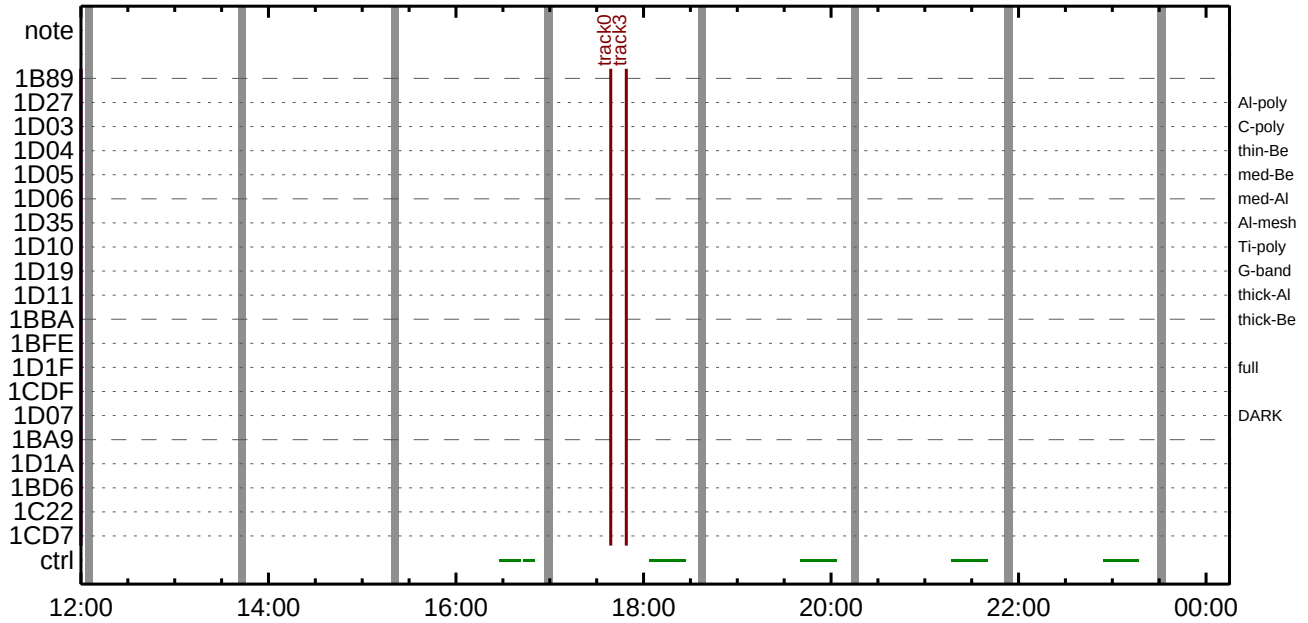
# CMDI #0980 2025/11/23



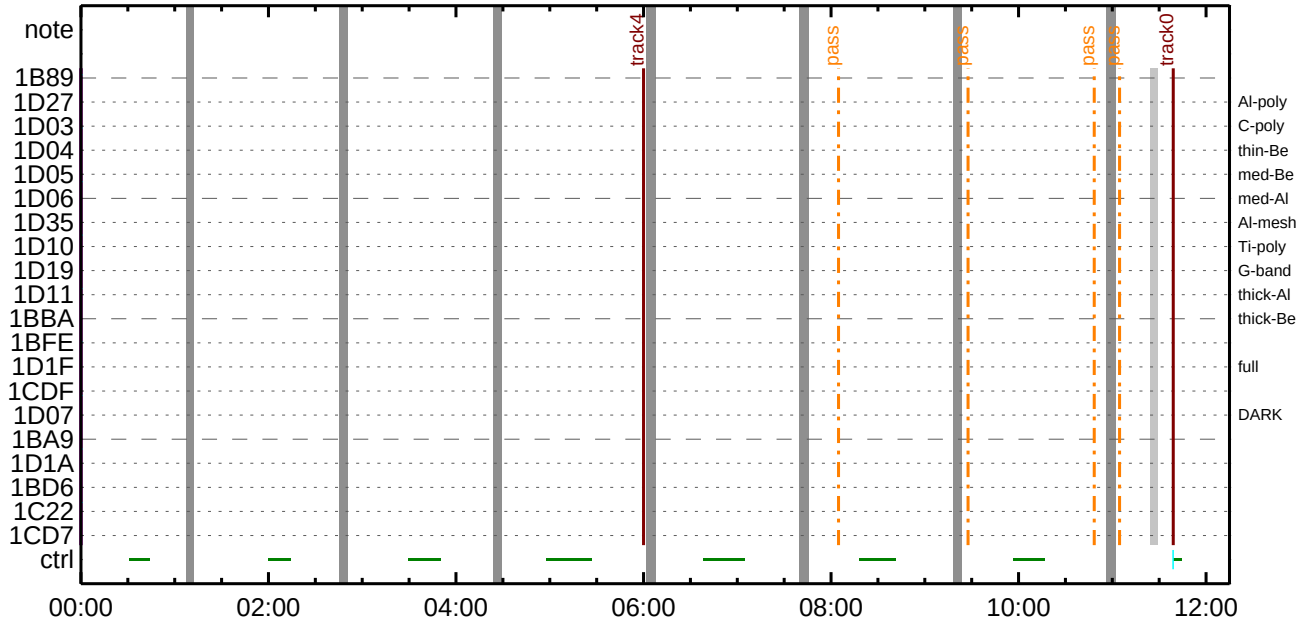
# CMDI #0980 2025/11/24



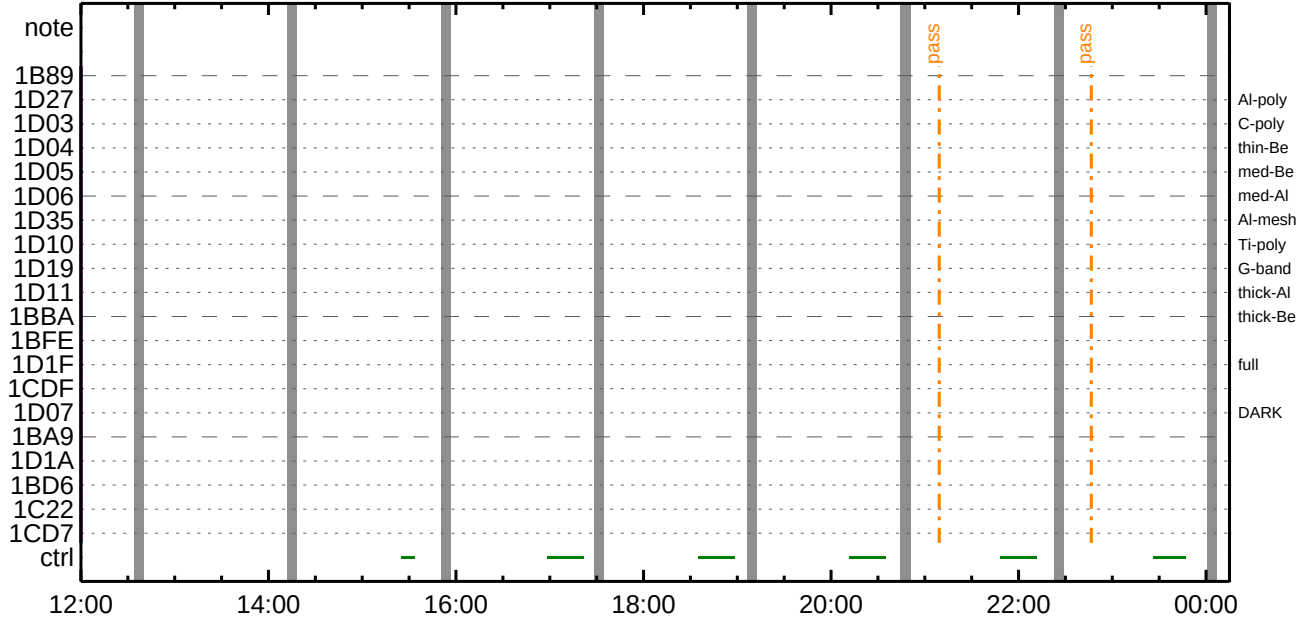
# CMDI #0980 2025/11/24



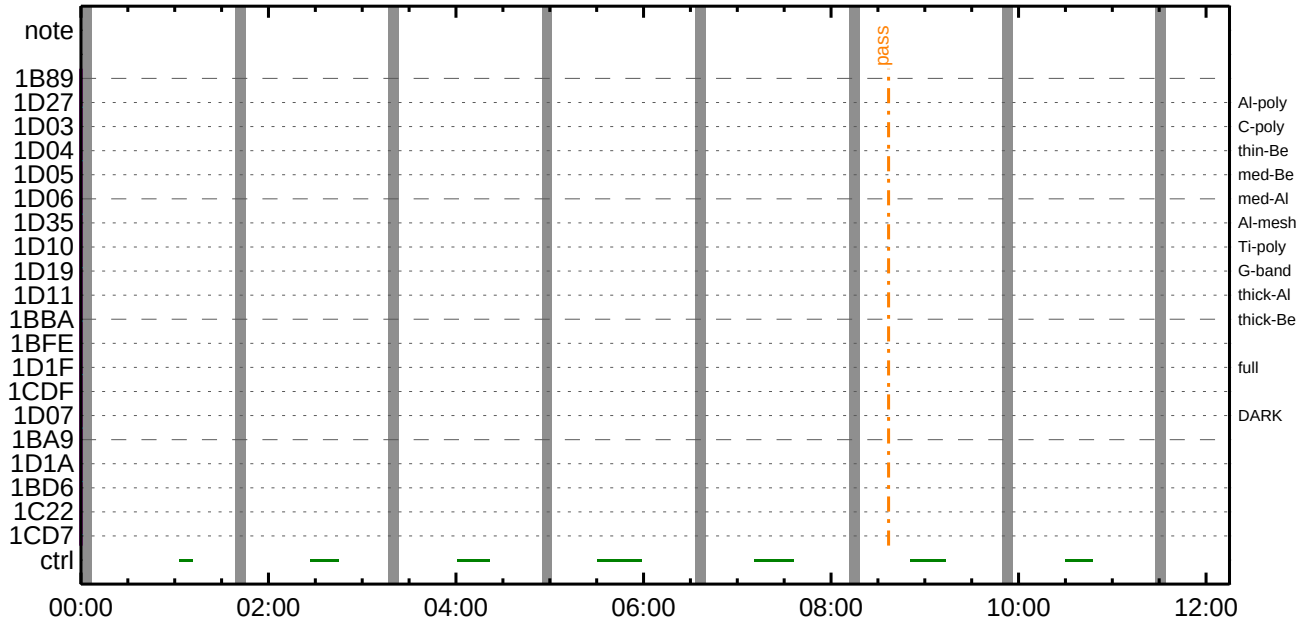
# CMDI #0980 2025/11/25



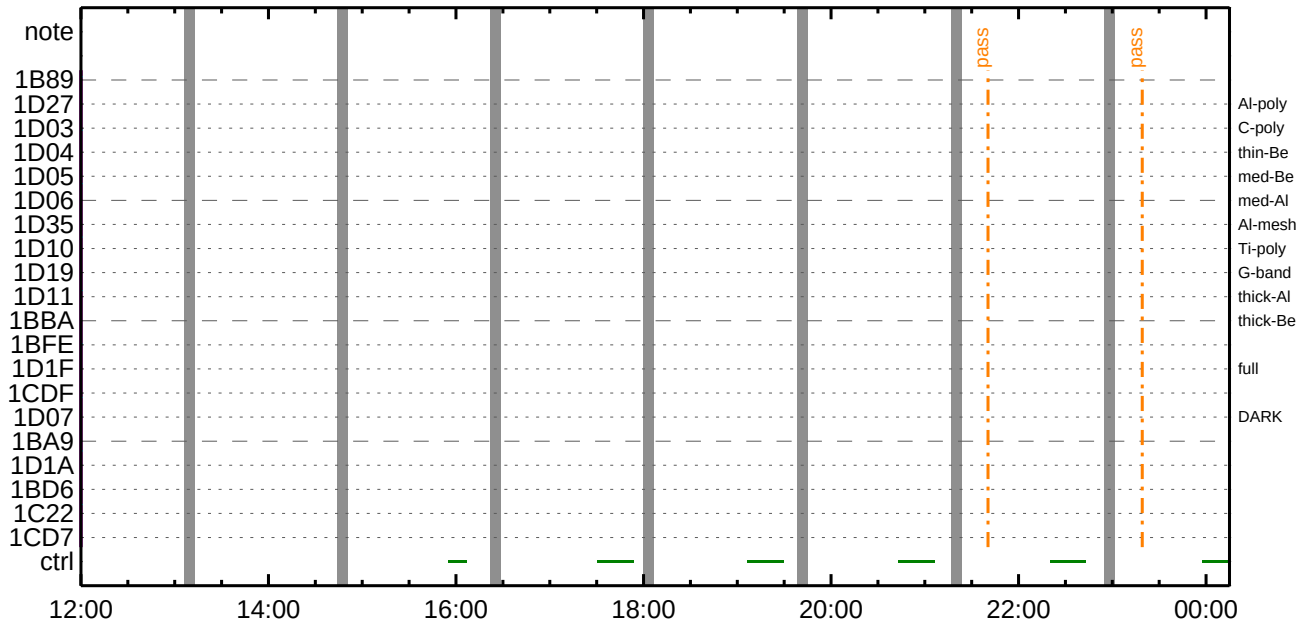
# CMDI #0980 2025/11/25



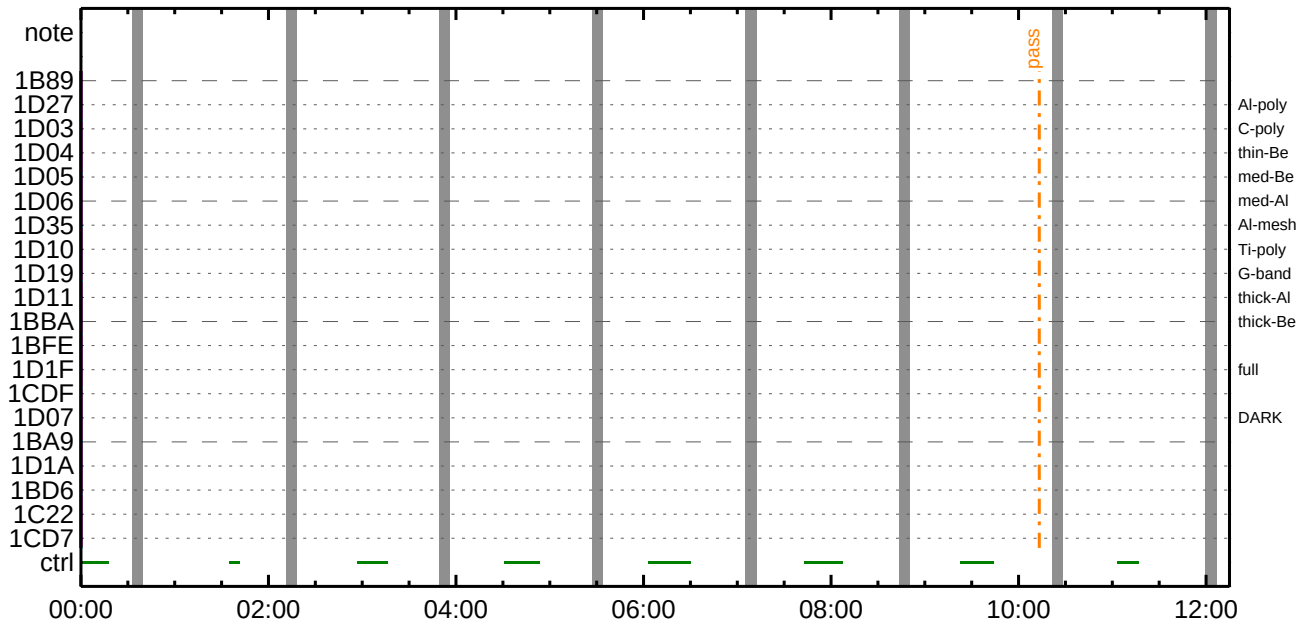
# CMDI #0980 2025/11/26



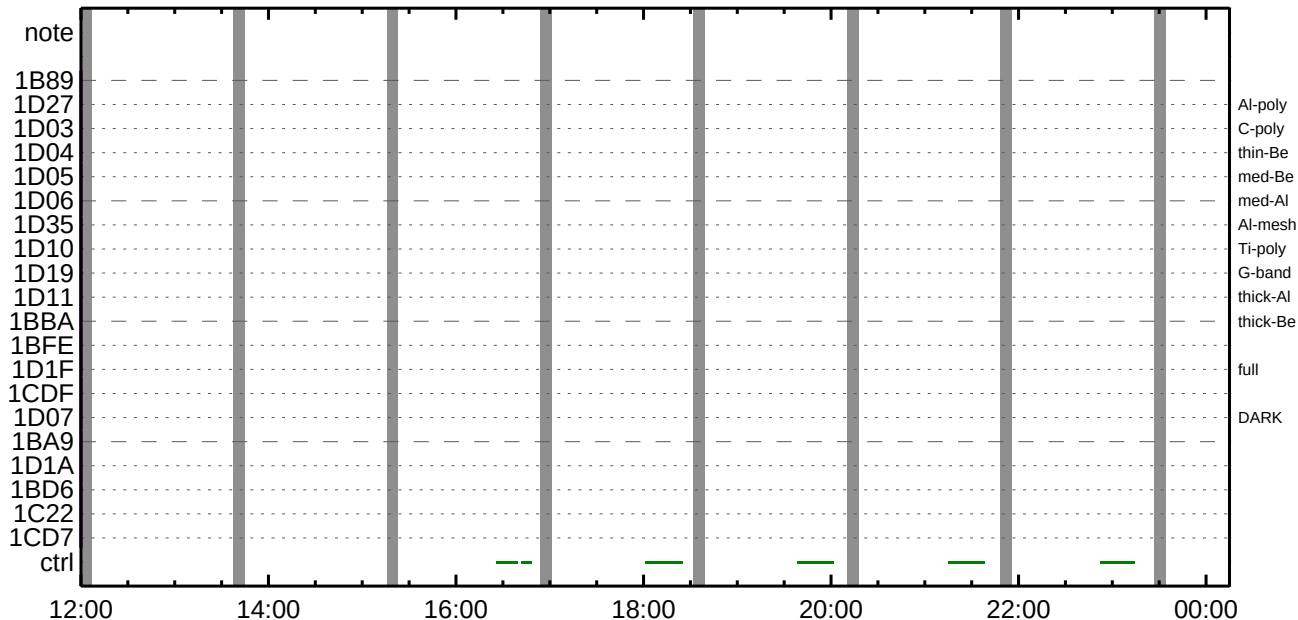
# CMDI #0980 2025/11/26



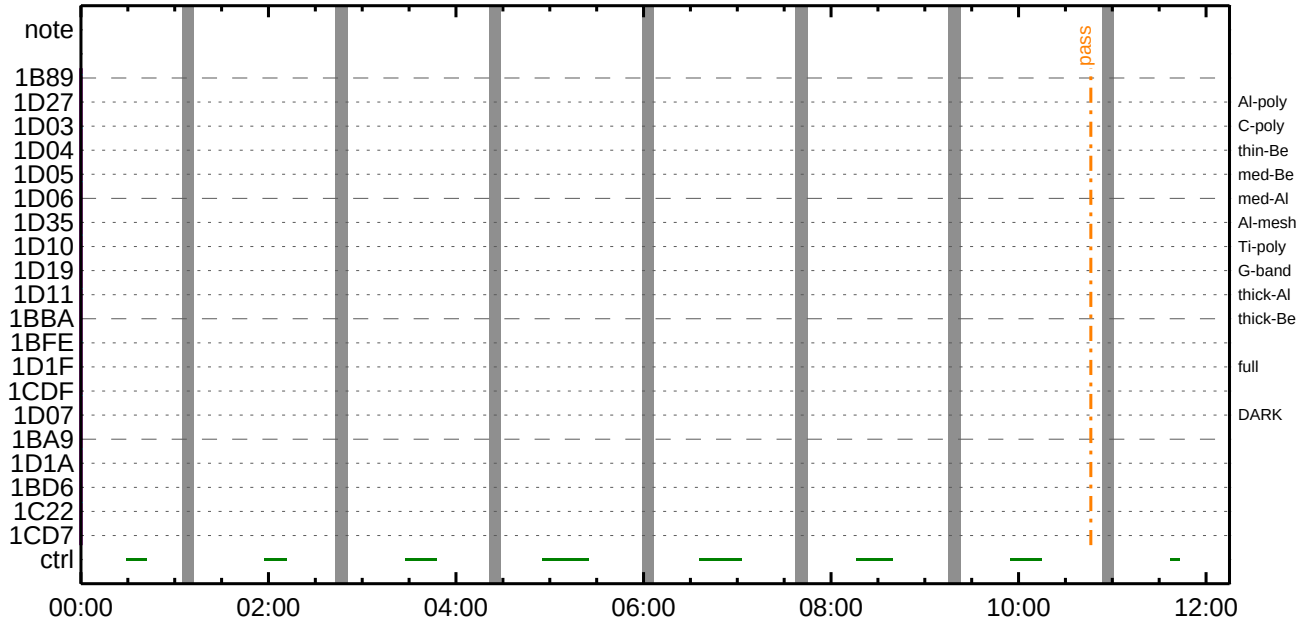
# CMDI #0980 2025/11/27



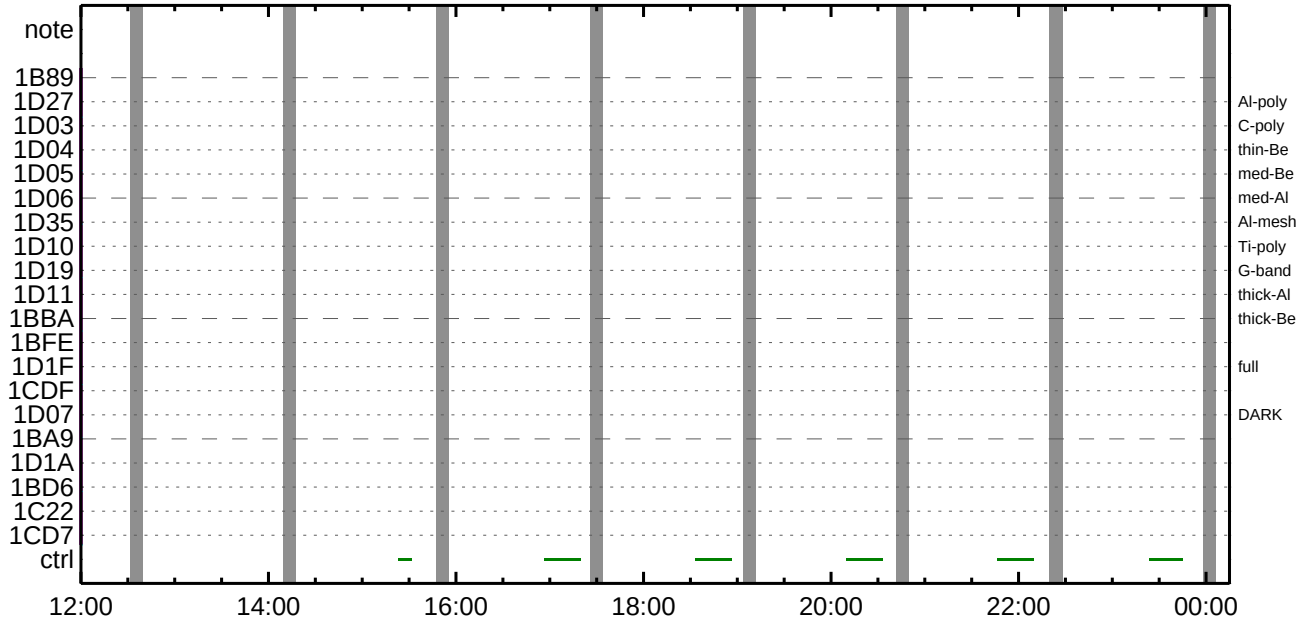
# CMDI #0980 2025/11/27



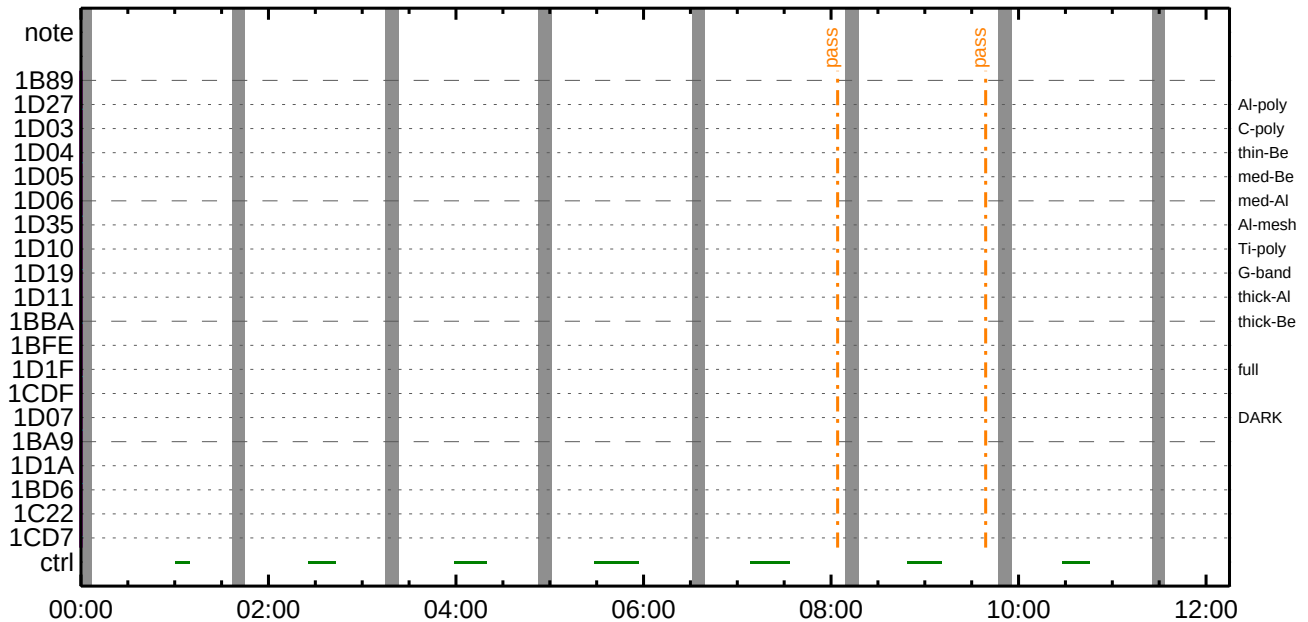
# CMDI #0980 2025/11/28



# CMDI #0980 2025/11/28

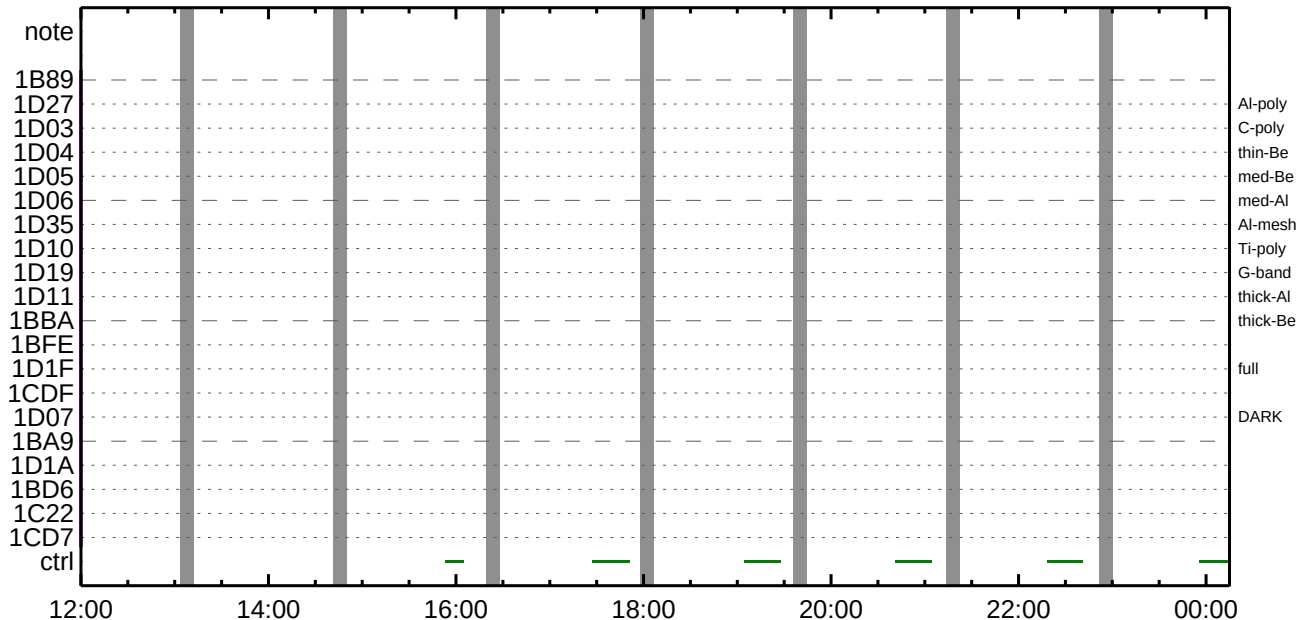


# CMDI #0980 2025/11/29

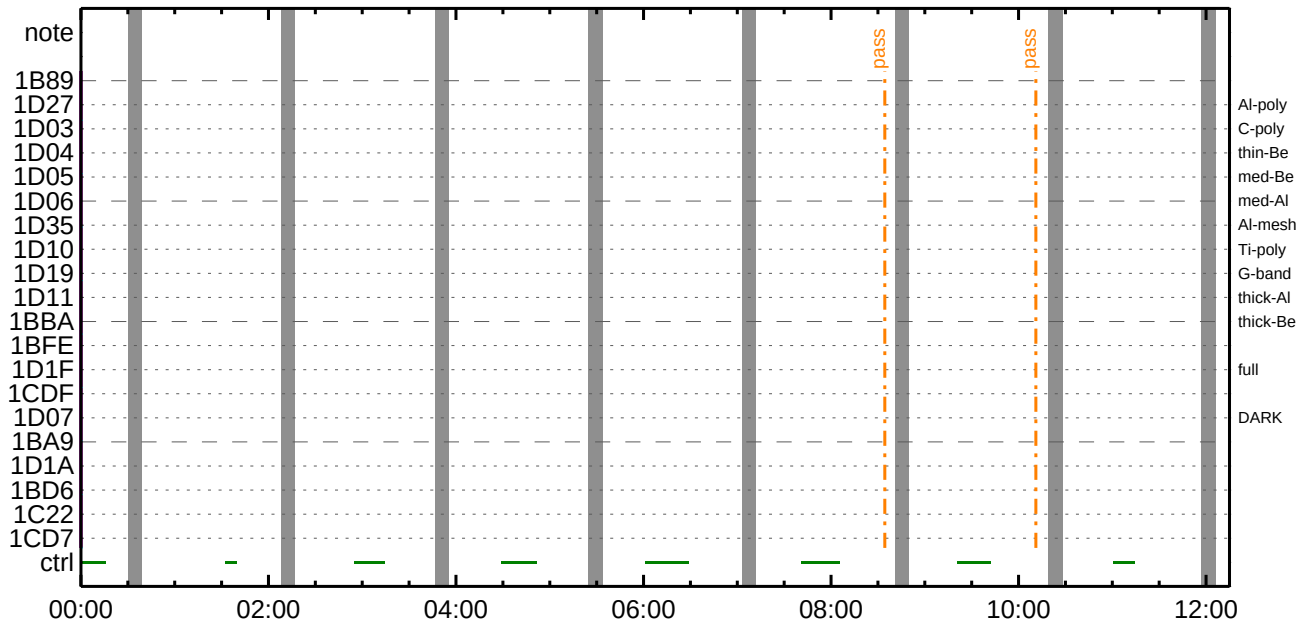




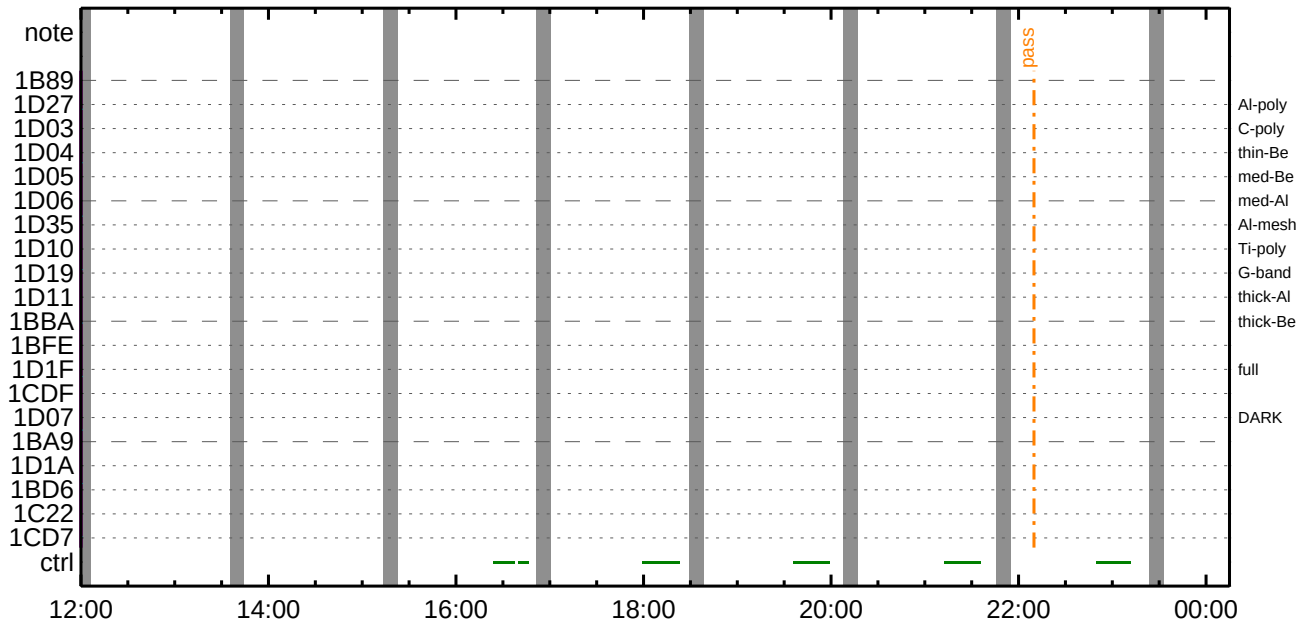
CMDI #0980 2025/11/29



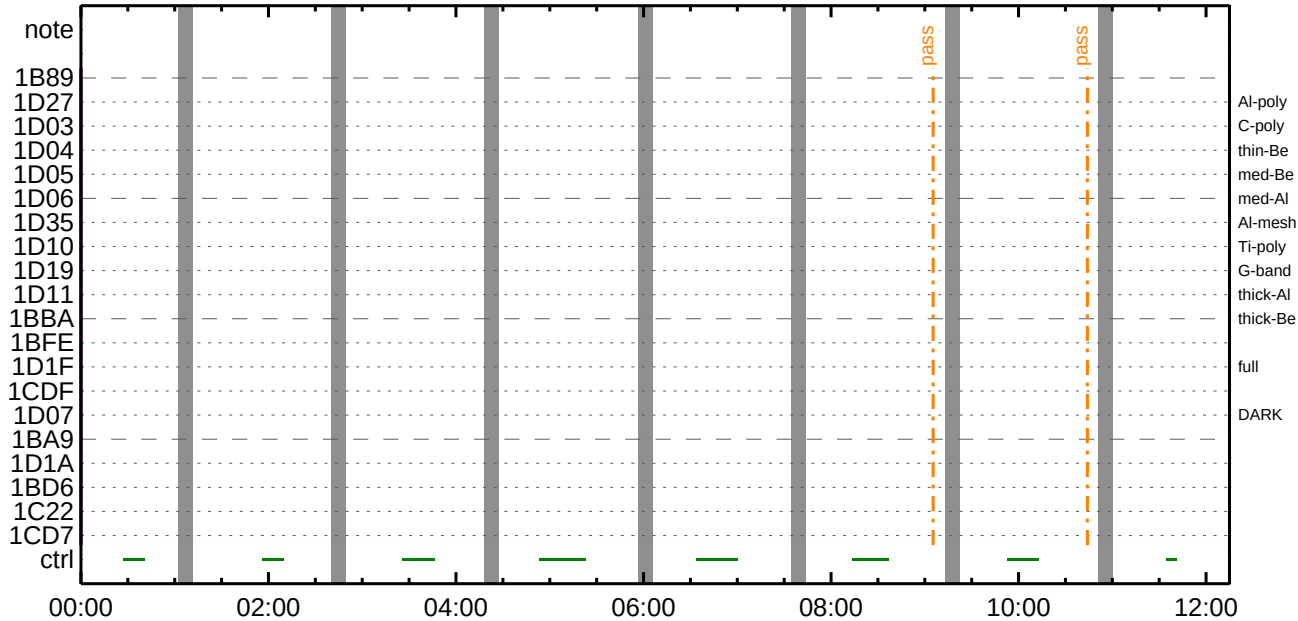
CMDI #0980 2025/11/30



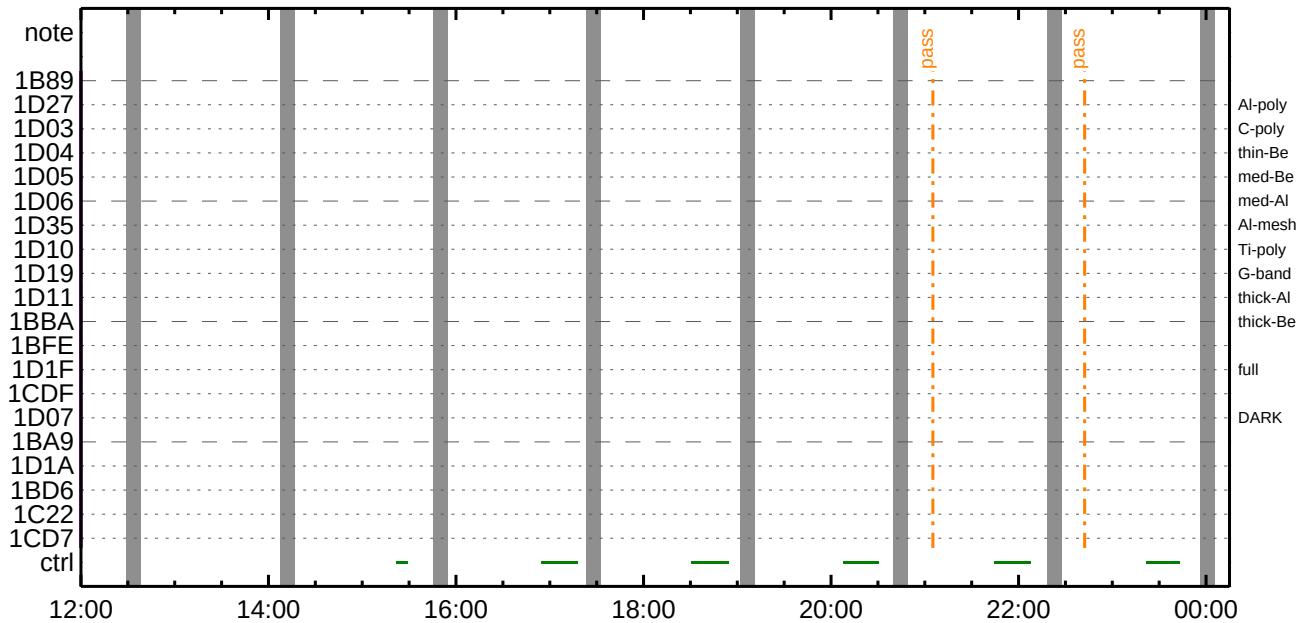
CMDI #0980 2025/11/30



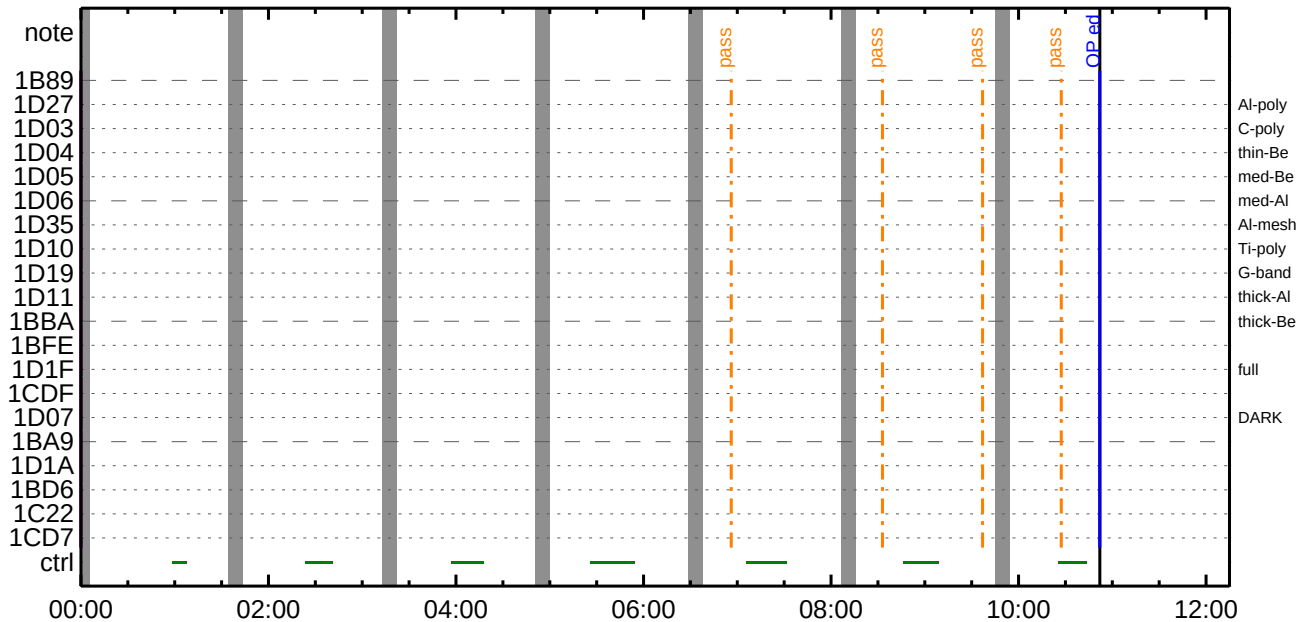
# CMDI #0980 2025/12/01

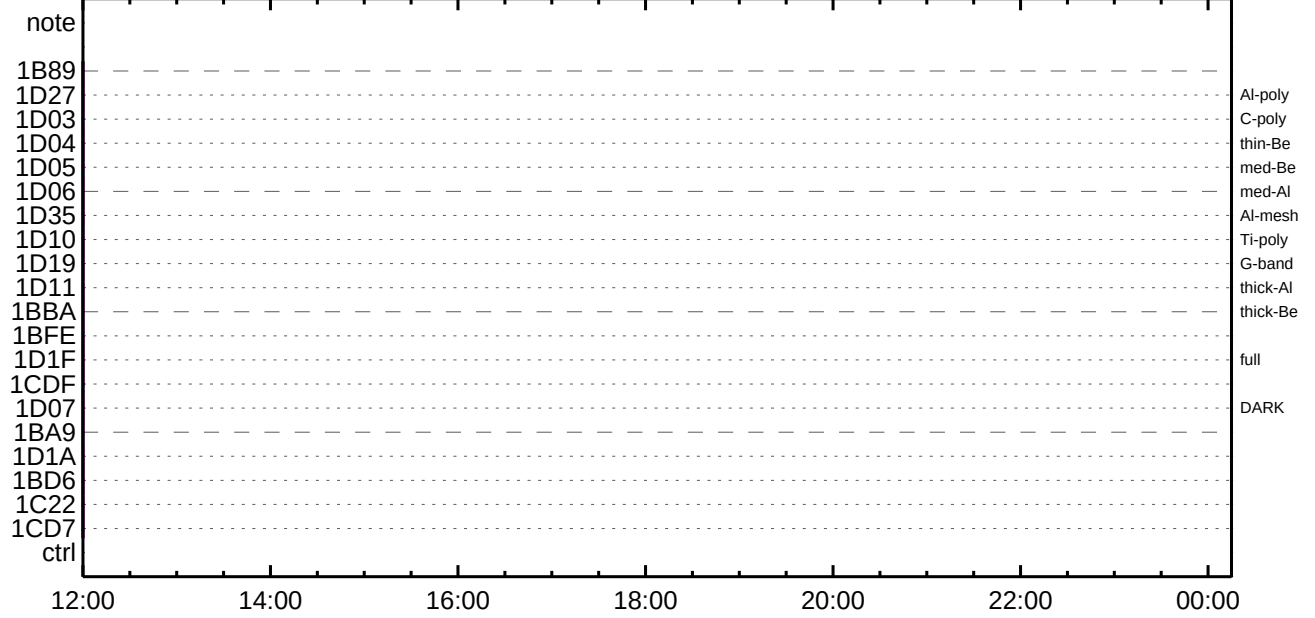


# CMDI #0980 2025/12/01



# CMDI #0980 2025/12/02





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main-649 2025-11-22 11:29:11 194 33 SOLAR-B MAIN //
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main-649 2025-11-22 11:29:11 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸPŸóŸÉÁ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçñÄñ•µ°E»Í×ÄÇñÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËèµ•íÍË;ËñÉ¼°ÇÓñ•ñç¼í¹çñÍ;çÄ®,ùñ¹ñËñPñÇÁ÷ç®ñ•ñËñññ³ñË;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGŸí;¼ŸÉ;|ŸÄŸóŸ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGŸí;¼ŸÉ;ä
0019 . S. OP op-649:OP
0020 ()
0021 . S. OG og-649:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPÎî°èŸÄŸóŸ×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
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. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
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. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPñî¼Ë¹ç•ë²îOKñò³îÇ$
0081 C.
0082 . C. ***** °Ë²¼ñî¼Ä'¶°ñËË¬ñ°Ä÷ç® (¾âµ-ŸÄŸóŸ×½è½çñòÄÓæñÇ½ªñ''ñë¼í¹çñÇñâ) *****
0083 C. DHUŸä;¼ŸÉ;Ë¼ý½,Ÿí;¼ŸÉ;ËñòÍäñ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[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 UPLOADñ¬Á÷ç®NGñî¼í¹ç;ç°Ë²¼ñîTI-CMDÁ÷ç®ñî¼Ä¹Ôñ•ñËñññ³ñË;£

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|      |       |                                                                        |    |           |
|------|-------|------------------------------------------------------------------------|----|-----------|
| 0096 | C.    | SET EDUMP I E+ i Y N Y 1 C 1 O m ; m 3 m E ; f                         |    |           |
| 0097 | C.    |                                                                        |    |           |
| 0098 | C.    | TI Y 3 Y P Y 6 Y E m o A D I ; (UT)                                    |    |           |
| 0099 | +. TI | 2025-11-22 10:20:00.0                                                  |    |           |
| 0100 | DC    | 01-B3 DHU_OP_STOP                                                      |    |           |
| 0101 | C.    | HK1_TI_CMD_NUM                                                         | EQ | 1COUNTUP  |
| 0102 | C.    |                                                                        |    |           |
| 0103 | +. TI | 2025-11-22 10:20:01.0                                                  |    |           |
| 0104 | DC    | 01-B4 DHU_OP_COPY                                                      |    |           |
| 0105 | C.    | HK1_TI_CMD_NUM                                                         | EQ | 1COUNTUP  |
| 0106 | C.    |                                                                        |    |           |
| 0107 | +. TI | 2025-11-22 10:20:01.0                                                  |    |           |
| 0108 | DC    | 01-B5 DHU_OPOG_COPY                                                    |    |           |
| 0109 | C.    | HK1_TI_CMD_NUM                                                         | EQ | 1COUNTUP  |
| 0110 | C.    |                                                                        |    |           |
| 0111 | +. TI | 2025-11-22 10:24:59.5                                                  |    |           |
| 0112 | DC    | 01-B2 DHU_OP_START                                                     |    |           |
| 0113 | C.    | HK1_TI_CMD_NUM                                                         | EQ | 1COUNTUP  |
| 0114 | C.    |                                                                        |    |           |
| 0115 | C.    | E 2 4 m I A e 3 i I N m I Y A Y S Y A Y - 1 a i U                      |    |           |
| 0116 | C.    | HK1_TI_CMD_ENA/DIS                                                     | EQ | ENA       |
| 0117 | C.    | HK1_TI_CMD_NUM                                                         | EQ | 4         |
| 0118 | C.    | HK1_NEXT_EXEC_PIM                                                      | EQ | DHU       |
| 0119 | C.    | HK1_NEXT_EXEC_DC                                                       | EQ | 0xB3      |
| 0120 | C.    |                                                                        |    |           |
| 0121 | C.    | *****                                                                  |    |           |
| 0122 | C.    | TI I I e Y A Y 6 Y x                                                   |    |           |
| 0123 | C.    | *****                                                                  |    |           |
| 0124 | C.    |                                                                        |    |           |
| 0125 | C.    | TI_TBL(0x03AB00-0x03AEFF;S 1024byte)                                   |    |           |
| 0126 | +. DC | 01-23 DHU_DMA_DMP_PRM_SET                                              |    |           |
| 0127 | BC    | (03 ab 03 01 02)                                                       |    |           |
| 0128 | C.    | HK1_DMP_TOP_ADRS_1                                                     | EQ | 07        |
| 0129 | C.    | HK1_DMP_TOP_ADRS_0                                                     | EQ | 2B        |
| 0130 | C.    | HK1_DMP_BLOCK_NUM                                                      | EQ | 3         |
| 0131 | C.    | HK1_DMP_REPEAT_NUM                                                     | EQ | 0         |
| 0132 | C.    | HK1_DMA_DMP_PIM                                                        | EQ | DHU       |
| 0133 | +. DC | 01-22 DHU_MODE_CHNG                                                    |    |           |
| 0134 | BC    | (07 0b f8)                                                             |    |           |
| 0135 | C.    | HK1_PKT_FORM_NO                                                        | EQ | 7         |
| 0136 | C.    | HK1_PKT_GEN_TIME                                                       | EQ | 0.25 s    |
| 0137 | C.    | HK1_S_TLM_BIT_RATE                                                     | EQ | 32k       |
| 0138 | C.    | HK1_X_TLM_BIT_RATE                                                     | EQ | 4M        |
| 0139 | C.    | HK1_DMP_CHK_FLG                                                        | EQ | EXEC      |
| 0140 | C.    |                                                                        |    |           |
| 0141 | C.    | Y A Y 6 Y x 1 2 a I » m o 3 I C S                                      |    |           |
| 0142 | C.    | HK1_DMP_CHK_FLG                                                        | EQ | NON       |
| 0143 | C.    |                                                                        |    |           |
| 0144 | C.    | RAM ID=TI_TBL m I 3 E 1 C • e 2 I O K m o 3 I C S                      |    |           |
| 0145 | C.    |                                                                        |    |           |
| 0146 | C.    | DHU Y a ; 4 Y E ; E 4 Y 1 2 ; Y i ; 4 Y E ; E m o I a m 1              |    |           |
| 0147 | +. DC | 01-22 DHU_MODE_CHNG                                                    |    |           |
| 0148 | BC    | (02 0a f8)                                                             |    |           |
| 0149 | C.    | HK1_PKT_FORM_NO                                                        | EQ | 2         |
| 0150 | C.    | HK1_PKT_GEN_TIME                                                       | EQ | 0.5S      |
| 0151 | C.    | HK1_S_TLM_BIT_RATE                                                     | EQ | 32K       |
| 0152 | C.    | 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 | 2025-11-22 10:24:30.0                                                  |    |           |
| 0161 | DC    | 07-FC EIS_MODE_MANU                                                    |    |           |
| 0162 | BC    | (21 02)                                                                |    |           |
| 0163 | +. TI | 2025-11-22 10:24:40.0                                                  |    |           |
| 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 | 2025-11-22 10:24:00.0                                                  |    |           |
| 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 'G A I m I » o 3 Y m E A D m 1 m e D C B C • x 2 e *****     |    |           |
| 0181 | C.    | (% a ° I Y O Y A Y E Y P Y E Y A Y C Y e m E 1 2 m m 4 A » U m 1 m e ) |    |           |
| 0182 | S.    | DC-BC dcbc-402:DCBC                                                    |    |           |
| 0183 |       | (MDP_known_event)                                                      |    |           |
| 0184 | C.    |                                                                        |    |           |
| 0185 | C.    |                                                                        |    |           |
| 0186 | C.    | ***** Y D Y 1 • I Daily + I N m E ' O m 1 m e D C B C • x 2 e *****    |    |           |
| 0187 | S.    | DC-BC dcbc-153:DCBC                                                    |    |           |
| 0188 |       | (SPECIAL-CMD_DAILY_OPERATIN_DCB)                                       |    |           |
| 0189 | C.    |                                                                        |    |           |
| 0190 | C.    |                                                                        |    |           |
| 0191 | C.    | ; a L O S Y A Y S Y A Y - 1 4 A » U ; a                                |    |           |
| 0192 | C.    |                                                                        | </ |           |



```
main-650 2025-11-22 11:22:11 169 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;ËççÄâ•µ°E»Í×ÅÇñÍŲçŲÃŲ×Ųí;¼ŲÉ;ËÈè²µ•íîÊ;ËÈÈ¼°ÇÖñ•çç¼¹¹Ççİ;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×ÈÝñäLOSñÞñÇçñİ»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. XŲÐŲóŲÉŲíŲÃŲ~¾ÔÄÖñ¬°ÄÄêñ•çççé;ç°Ê²¼ñî°EÄ,¼ê½Ççòò¼Ä¹Ôñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EÄ,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ççç¼¹¹Ççİ;ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;çDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EÄ,³«»İ;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,;¼Ü)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0045 C.
0046 . C. ;ãŲçŲóŲEŲEŲÄÚÂØ;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,;¼Ü)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0052 C.
0053 C.
0054 . C. PT1°EÄ,ñ¬¼«E°Ää»ßñ•ççç,ä;ç°Ê²¼ñòò¼Ä¹Ôñ¹ñè;£
0055 C. ŲçŲóŲEŲEŲÄÚÂØñäÄ•Ä°²öÈòñ¬¼áñç¼¹¹Ççİ'°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EÄ,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ççç¼¹¹Ççİ;ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;çDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EÄ,³«»İ;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,;¼Ü)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0071 C.
0072 . C. ;ãŲçŲóŲEŲEŲÄÚÂØ;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,;¼Ü)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
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 STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCS DUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_CHG_ENA
0131 BC (20)
0132 . C. Verify EIS_MODE_CHG_FLG is ENA
0133 +. DC 07-FC EIS_MODE_MANU
0134 BC (21 02)
0135 . C. Verify EIS in MANUAL mode
0136 . C. Estimated OBSTBL upload time is 7s
0137 C. *****
0138 C. EIS START OBSTBL LOAD
0139 C. *****
0140 . S. RAM ram-820:EIS_OBSTBL
0141 ()
0142 +. DC 07-FC EIS_DUMP_OBSTBL
0143 BC (07 07 07 00 00 70 00)
0144 C.
0145 C. Execute, after the success of OBSTBL upload.
0146 C. Set EIS TI-commands
0147 +. TI 2025-11-22 10:24:50.0
0148 DC 07-FC EIS_MODE_CHG_ENA
0149 BC (20)
0150 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0151 C. *****
0152 C. EIS END OBSTBL LOAD
0153 C. *****
0154 C.
0155 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÄñ¹ñëDCBC•x²è *****
0156 C. (%ã°îÿÓÿÄÿËÿÐÿËÿâÿçÿëñÊ¼ññ¼Ä»Û¹ñë)
0157 . S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 . C. ***** ¥Ð¥¹•Ï Daily±¿íññÊ'Øñ¹ñëDCBC•x²è *****
0162 . S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 . C. ;ãLOS¥Á¥$¥Ä¥~¼Ä»Û;ä
0167 C.
0168 . C. ***** LOS *****
0169 C.

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(a) Spacecraft Operation Procedure (real-commands)

```
main-651 2025-11-22 11:29:11 100 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;āAOSŸÁŸ$ŸĀŸ~¼Ā»Ü;ä
0005 C.
0006 C. ŸĀŸß;¼Ÿ³ŸDŸóŸĒĀ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Āí;Ēñ¿ñĀñ•µ°Ēñİ×ĀÇñİŸçŸĀŸ×Ÿí;¼ŸĒ;ĒĒē½µ•īīĒ;ĒñĒ¼°ÇŌñ•ñ¿¼ī¹Çñİ;çĀ®,ùñ¹ñēñDñÇĀ÷¿®ñ•ñĒñññ³ñĒ;ñ
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 +. DC 07-F0 MDP_XRT_CTRL_MANU
0020 BC (c1)
0021 +. DC 07-F0 MDP_XRT_MODE_STBY
0022 BC (c3)
0023 . C. ----- Success Verify ? OK / NG____
0024 C.
0025 C. XRT Obs. Table Upload
0026 . S. RAM ram-291:MDP_OBS_X
0027 ()
0028 C.
0029 +. DC 07-F0 MDP_DUMP_XRTTBL
0030 BC (84 07 00 00 00 3a d4)
0031 . C. ----- Comparison Check ? OK / ERR ____
0032 C.
0033 C.
0034 +. DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 01 b1 b1 04 04)
0036 +. DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 02 b1 b1 08 08)
0038 +. DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 03 b1 b1 08 08)
0040 +. DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 04 b1 b1 06 06)
0042 +. DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 05 85 83 06 06)
0044 +. DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 06 85 83 06 06)
0046 +. DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 07 80 80 20 20)
0048 +. DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 08 80 80 20 08)
0050 +. DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 80 80 08 20)
0052 +. DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 08 08)
0054 +. DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0f 80 80 06 06)
0056 +. DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 10 80 80 08 08)
0058 +. DC 07-F0 MDP_XRT_FLD_ENA
0059 BC (d8)
0060 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0061 BC (c8)
0062 +. DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 +. DC 07-F0 MDP_XRT_AEC_RESET
0065 BC (d0)
0066 +. DC 07-F0 MDP_XRT_FLD_RESET
0067 BC (da)
0068 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0069 BC (c4 08)
0070 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0071 BC (c5 0e)
0072 . C. ----- Success Verify ? OK / NG ____
0073 C.
0074 C.
0075 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0076 C.
0077 +. DC 07-F0 MDP_XRT_MODE_OBSV
0078 BC (c2)
0079 +. TI 2025-11-22 10:24:02.0
0080 DC 07-F0 MDP_XRT_MODE_OBSV
0081 BC (c2)
0082 . C. ----- Success Verify ? OK / NG ____
0083 C.
0084 C. ***** XRT END *****
0085 C.
0086 . C. ***** MDP `ġĀİñİ»ō¼ŸñĒĀDñ¹ñēDCBC•×²ē *****
0087 C. (¼ā°īŸóŸĀŸĒŸDŸĒŸĒŸāŸçŸĒñĒĒ¼ññ¼Ā»Üñ¹ñē)
0088 . S. DC-BC dcbbc-402:DCBC
0089 (MDP_known_event)
0090 C.
0091 C.
0092 . C. ***** ŸDŸ¹•İ Daily÷¿İññĒ`Ōñ¹ñēDCBC•×²ē *****
0093 . S. DC-BC dcbbc-153:DCBC
0094 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0095 C.
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0096 C.  
0097 . C. ;ãLOS¥Á¥\$¥Ã¥~¼Ã»Ü;ä  
0098 C.  
0099 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0100 C.

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

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/11/22 | 10:34:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 10:34:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 10:34:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/11/22 | 10:35:00.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 74 01 db |
| 2025/11/22 | 10:35:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/11/22 | 10:35:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/11/22 | 10:35:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/11/22 | 10:35:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/11/22 | 10:35:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 10:37:56.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 05          |
| 2025/11/22 | 10:37:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/11/22 | 10:38:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 11:00:01.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 11:00:03.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 11:00:05.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 11:00:07.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 11:01:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 11:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 11:03:15.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 11:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 11:41:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 11:41:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 11:41:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 11:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 11:46:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 11:47:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 12:38:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 12:38:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 12:38:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 12:38:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 12:39:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 12:40:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 12:41:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 14:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 14:16:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 14:16:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 14:16:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 14:17:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 14:18:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 14:19:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 15:27:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 15:27:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 15:27:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 15:27:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 15:30:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 15:36:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 15:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 15:54:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/11/22 | 15:54:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 15:54:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 15:54:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 15:56:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 15:57:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 15:57:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 17:00:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:00:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:00:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 17:00:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 17:03:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 17:24:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 17:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 17:32:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:32:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:32:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 17:32:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 17:34:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 17:35:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 17:35:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/11/22 | 18:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/11/22 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2025/11/22 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2025/11/22 | 18:00:22.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/11/22 | 18:02:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 06          |
| 2025/11/22 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 18:09:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/11/22 | 18:10:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 74 01 db |
| 2025/11/22 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/11/22 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/11/22 | 18:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/11/22 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/11/22 | 18:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 18:12:56.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 14          |
| 2025/11/22 | 18:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/11/22 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 18:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 18:37:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/22 | 18:37:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/22 | 18:37:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/22 | 18:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/22 | 19:00:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/22 | 19:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/22 | 19:10:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |

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|            |            |                                |                     |   |       |    |
|------------|------------|--------------------------------|---------------------|---|-------|----|
| 2025/11/22 | 19:10:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 19:10:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 19:10:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 19:12:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 19:13:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 19:13:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 20:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 20:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 20:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 20:13:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 20:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 20:37:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 20:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 20:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 20:48:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 20:48:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 20:48:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 20:50:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 20:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 20:51:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 21:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 21:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 21:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 21:50:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 21:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 22:14:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 22:15:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 22:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 22:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 22:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 22:26:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 22:29:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 22:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 22:30:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 23:28:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 23:28:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/22 | 23:28:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/22 | 23:28:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/22 | 23:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/22 | 23:49:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/22 | 23:50:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/23 | 00:04:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/23 | 00:04:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/23 | 00:04:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2025/11/23 | 00:04:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2025/11/23 | 00:07:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2025/11/23 | 00:07:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2025/11/23 | 00:08:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/23 | 01:05:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2025/11/23 | 01:05:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |                     |   |       |    |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/11/23 | 01:05:04.0 | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
|            |            | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 01:05:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 01:08:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/23 | 01:13:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/23 | 01:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/23 | 01:42:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 01:42:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 01:42:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 01:42:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 01:45:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/23 | 01:45:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/23 | 01:46:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/23 | 02:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 02:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 02:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 02:29:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 02:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/23 | 02:47:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/23 | 02:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/23 | 03:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 03:20:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 03:20:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 03:20:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 03:23:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/23 | 03:23:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/23 | 03:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/23 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2025/11/23 | 04:00:00.0 | AOCs_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2025/11/23 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/11/23 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/11/23 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/11/23 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/11/23 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 04:02:56.0 | XRT_QT_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |
| 2025/11/23 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2025/11/23 | 04:03:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 04:03:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 04:03:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 04:03:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 04:06:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/11/23 | 04:24:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/11/23 | 04:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/11/23 | 04:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 04:58:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/11/23 | 04:58:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/11/23 | 04:58:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/11/23 | 05:01:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |

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|            |            |                                         |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------------|---|-------|----------------|--|--|--|--|
| 2025/11/23 | 05:01:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/11/23 | 05:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/11/23 | 05:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 05:32:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 05:32:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |  |  |  |  |
| 2025/11/23 | 05:32:36.0 | XRT_PREFLR_STRT_404_OG [0x194]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/11/23 | 05:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/11/23 | 06:01:00.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |  |  |  |  |
| 2025/11/23 | 06:02:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/11/23 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 06:09:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]       |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2025/11/23 | 06:10:00.0 | AOCs_ORe-point_Start_2_OG [0x098]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2025/11/23 | 06:10:18.0 | XRT_FLD_DIS_409_OG [0x199]              |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |  |  |  |  |
| 2025/11/23 | 06:10:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |  |  |  |  |
| 2025/11/23 | 06:10:22.0 | XRT_ARS_DIS_435_OG [0x1b3]              |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |  |  |  |  |
| 2025/11/23 | 06:12:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 06          |  |  |  |  |
| 2025/11/23 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |  |  |  |  |
| 2025/11/23 | 06:20:00.0 | AOCs_ORe-point_Start_3_OG [0x099]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 04 03 74 01 db |  |  |  |  |
| 2025/11/23 | 06:30:00.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 06:30:30.0 | XRT_TCIB_XRT_S_HTR_A_ENA_426_OG [0x1aa] |   |       |                |  |  |  |  |
|            |            | TCIB_XRT_S_HTR_A_ENA                    | 0 | 04-BC |                |  |  |  |  |
| 2025/11/23 | 06:36:30.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 06:36:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/23 | 06:36:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |  |  |  |  |
| 2025/11/23 | 06:36:36.0 | XRT_PREFLR_STRT_404_OG [0x194]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |  |  |  |  |
| 2025/11/23 | 06:39:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |  |  |  |  |
| 2025/11/23 | 09:00:00.5 | AOCs_ORe-point_Start_1_OG [0x097]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 03 03 74 01 db |  |  |  |  |
| 2025/11/23 | 18:10:30.0 | AOCs_ORe-point_Start_2_OG [0x098]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2025/11/23 | 18:20:30.0 | AOCs_ORe-point_Start_1_OG [0x097]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 03 03 74 01 db |  |  |  |  |
| 2025/11/24 | 05:49:00.0 | AOCs_ORe-point_Start_3_OG [0x099]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 04 03 74 01 db |  |  |  |  |
| 2025/11/24 | 09:30:00.0 | AOCs_ORe-point_Start_1_OG [0x097]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 03 03 74 01 db |  |  |  |  |
| 2025/11/24 | 17:39:00.0 | AOCs_ORe-point_Start_2_OG [0x098]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2025/11/24 | 17:49:00.0 | AOCs_ORe-point_Start_1_OG [0x097]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 03 03 74 01 db |  |  |  |  |
| 2025/11/25 | 06:00:00.0 | AOCs_ORe-point_Start_3_OG [0x099]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 04 03 74 01 db |  |  |  |  |
| 2025/11/25 | 11:38:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |  |  |  |  |
| 2025/11/25 | 11:39:00.0 | AOCs_ORe-point_Start_2_OG [0x098]       |   |       |                |  |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |