

## Period: 2026/07/07 11:21:00 - 2026/07/11 12:20:00

✱ ✱ ✱ ✱ ✱

| PROG= 02 | Inf.-time(s) |
|----------|--------------|
| 01       | 0.00         |
| 02       | 0.00         |
| 03       | 0.00         |
| 04       | 0.00         |
| 05       | 0.00         |
| 06       | 0.00         |
| 07       | 0.00         |
| 08       | 0.00         |
| 09       | 0.00         |
| 10       | 0.00         |
| 11       | 0.00         |
| 12       | 0.00         |
| 13       | 0.00         |
| 14       | 0.00         |
| 15       | 0.00         |
| 16       | 0.00         |
| 17       | 0.00         |
| 18       | 0.00         |
| 19       | 0.00         |
| 20       | 0.00         |
| 21       | 0.00         |
| 22       | 0.00         |
| 23       | 0.00         |
| 24       | 0.00         |
| 25       | 0.00         |
| 26       | 0.00         |
| 27       | 0.00         |
| 28       | 0.00         |
| 29       | 0.00         |
| 30       | 0.00         |
| 31       | 0.00         |
| 32       | 0.00         |
| 33       | 0.00         |
| 34       | 0.00         |
| 35       | 0.00         |
| 36       | 0.00         |
| 37       | 0.00         |
| 38       | 0.00         |
| 39       | 0.00         |
| 40       | 0.00         |
| 41       | 0.00         |
| 42       | 0.00         |
| 43       | 0.00         |
| 44       | 0.00         |
| 45       | 0.00         |
| 46       | 0.00         |
| 47       | 0.00         |
| 48       | 0.00         |
| 49       | 0.00         |
| 50       | 0.00         |
| 51       | 0.00         |
| 52       | 0.00         |
| 53       | 0.00         |
| 54       | 0.00         |
| 55       | 0.00         |
| 56       | 0.00         |
| 57       | 0.00         |
| 58       | 0.00         |
| 59       | 0.00         |
| 60       | 0.00         |
| 61       | 0.00         |
| 62       | 0.00         |
| 63       | 0.00         |
| 64       | 0.00         |
| 65       | 0.00         |
| 66       | 0.00         |
| 67       | 0.00         |
| 68       | 0.00         |
| 69       | 0.00         |
| 70       | 0.00         |
| 71       | 0.00         |
| 72       | 0.00         |
| 73       | 0.00         |
| 74       | 0.00         |
| 75       | 0.00         |
| 76       | 0.00         |
| 77       | 0.00         |
| 78       | 0.00         |
| 79       | 0.00         |
| 80       | 0.00         |
| 81       | 0.00         |
| 82       | 0.00         |
| 83       | 0.00         |
| 84       | 0.00         |
| 85       | 0.00         |
| 86       | 0.00         |
| 87       | 0.00         |
| 88       | 0.00         |
| 89       | 0.00         |
| 90       | 0.00         |
| 91       | 0.00         |
| 92       | 0.00         |
| 93       | 0.00         |
| 94       | 0.00         |
| 95       | 0.00         |
| 96       | 0.00         |
| 97       | 0.00         |
| 98       | 0.00         |
| 99       | 0.00         |
| 100      | 0.00         |

|                             |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|-----------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| 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) 120.0sec |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                             | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                             | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                             | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                             | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                             | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                             | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                             | Default Filter | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1CF0: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(12/181/1443), Thin-Be(33/512/4096), Thick-Be(65536), Med-Al(512/8192/32768), Med-Be(128/576)**

| Term                            | Pointing (x, y)   | Comment                              |
|---------------------------------|-------------------|--------------------------------------|
| 07/07 18:22:00 - 07/07 18:28:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 19.0 min           |
| 07/08 06:04:00 - 07/08 06:10:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 1.0 min + HOP349   |
| 07/08 18:00:30 - 07/08 18:07:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -2.5 min           |
| 07/09 06:17:30 - 07/09 06:24:24 | Fixed ( 0.0, 0.0) | synoptic, shifted 14.5 min + HOP 349 |

|                           |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|---------------------------|-----------------|------------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| PROG= 15 1-time(s)        |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Subr= 1 1-time(s) 2.0sec  |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 5 1-time(s) 2.0sec  |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Open/Ti-poly    | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                           | Open/Ti-poly    | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                           | Open/Ti-poly    | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                           | Open/Ti-poly    | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
|                           | Open/Ti-poly    | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| Seqn= 26 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Open/Al-mesh    | Open/Al-mesh     | close | Safe | Norm  | 5ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | Open/Al-mesh    | Open/Al-mesh     | close | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | Open/Al-mesh    | Open/Al-mesh     | close | Safe | Norm  | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 15 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Al-poly/Open    | Al-poly/Open     | close | Safe | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | Al-poly/Open    | Al-poly/Open     | close | Safe | Norm  | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | Al-poly/Open    | Al-poly/thick-Al | close | Safe | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 83 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | thin-Be/Open    | thin-Be/Open     | close | Safe | Norm  | 32ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | thin-Be/Open    | thin-Be/Open     | close | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | thin-Be/Open    | thin-Be/Open     | close | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 23 1-time(s) 4.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Open/G-band     | Open/G-band      | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
|                           | Open/G-band     | Open/G-band      | close | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2 1-time(s) 2.0sec  |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 65 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Open/thick-Be   | Open/thick-Be    | close | Safe | Norm  | 64.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Seqn= 17 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | med-Al/Open     | med-Al/thick-Al  | close | Safe | Norm  | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | med-Al/Open     | med-Al/thick-Al  | close | Safe | Norm  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | med-Al/Open     | med-Al/Open      | close | Safe | Norm  | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 33 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | med-Be/Open     | Open/thick-Al    | close | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | med-Be/Open     | med-Be/Open      | close | Safe | Norm  | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                           | med-Be/Open     | med-Be/Open      | close | Safe | Norm  | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 50 1-time(s) 2.0sec |                 |                  |       |      |       |       |     |     |                        |       |            |          |        |
|                           | Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm  | 63ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                           | Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm  | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                           | Default Filter  | Thicker Filter   | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #1C8D: Alignment with North Pole Al/poly 1443ms Q95 2x2 (G-band and VLS=CLS) - 5min cad**

| Term                            | Pointing (x, y)     | Comment              |
|---------------------------------|---------------------|----------------------|
| 07/07 18:44:00 - 07/07 20:28:54 | Fixed ( 0.0, 930.0) | #Co-alignment N-limb |

|                             |                |                |       |      |       |       |     |     |                        |       |            |          |        |
|-----------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| PROG= 20 1-time(s)          |                |                |       |      |       |       |     |     |                        |       |            |          |        |
| Subr= 1 1-time(s) 2.0sec    |                |                |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 23 1-time(s) 2.0sec   |                |                |       |      |       |       |     |     |                        |       |            |          |        |
|                             | Open/G-band    | Open/G-band    | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
|                             | Open/G-band    | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2 24-time(s) 300.0sec |                |                |       |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 69 1-time(s) 2.0sec   |                |                |       |      |       |       |     |     |                        |       |            |          |        |
|                             | Al-poly/Open   | med-Be/Open    | close | Safe | Norm  | 1.41s | Obs | 2x2 | 2048x1536 (1024, 768)  | Q=95  | 0          | 0        | 2.0sec |
|                             | Default Filter | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

| XOB #1C8E: Alignment with East limb Al/poly 1443ms Q95 2x2 (G-band and VLS=CLS) - 8 min cad |  |  |                      |       |      |          |                     |     |     |                        |  |       |            |          |        |
|---------------------------------------------------------------------------------------------|--|--|----------------------|-------|------|----------|---------------------|-----|-----|------------------------|--|-------|------------|----------|--------|
| Term                                                                                        |  |  | Pointing (x, y)      |       |      |          | Comment             |     |     |                        |  |       |            |          |        |
| 07/07 20:44:00 - 07/07 22:28:54                                                             |  |  | Fixed ( -970.0, 0.0) |       |      |          | Co-alignment E limb |     |     |                        |  |       |            |          |        |
| PROG= 05                                                                                    |  |  | 1-time(s)            |       |      |          |                     |     |     |                        |  |       |            |          |        |
| Subr= 1                                                                                     |  |  | 1-time(s)            |       |      | 2.0sec   |                     |     |     |                        |  |       |            |          |        |
| Seqn= 23                                                                                    |  |  | 1-time(s)            |       |      | 2.0sec   |                     |     |     |                        |  |       |            |          |        |
| Open/G-band                                                                                 |  |  | Open/G-band          | open  | Safe | Norm     | 1ms                 | Obs | 1x1 | 2048x2048 (1024, 1024) |  | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band                                                                                 |  |  | Open/G-band          | close | Safe | Norm     | 1ms                 | Obs | 1x1 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2                                                                                     |  |  | 15-time(s)           |       |      | 480.0sec |                     |     |     |                        |  |       |            |          |        |
| Seqn= 70                                                                                    |  |  | 1-time(s)            |       |      | 2.0sec   |                     |     |     |                        |  |       |            |          |        |
| Al-poly/Open                                                                                |  |  | med-Be/Open          | close | Safe | Norm     | 1.41s               | Obs | 2x2 | 1536x2048 (1280, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Default Filter                                                                              |  |  | Thicker Filter       | VLS   | mode | image    | Exp.                | CCD | Bin | ROI: size (center)     |  | Comp. | AEC Buffer | Interval |        |

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## Flare mode

\* \* \* \* \*

### 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) + GL

| Term                            |  | Pointing (x, y)                          |       | Comment                              |       |       |     |     |                      |       |            |          |        |
|---------------------------------|--|------------------------------------------|-------|--------------------------------------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| 07/07 11:41:30 - 07/07 11:54:24 |  | Fixed ( 936.0, 0.0)                      |       | HOP130 01/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 11:57:30 - 07/07 12:10:24 |  | Fixed ( 468.0, 0.0)                      |       | HOP130 02/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 12:13:30 - 07/07 12:26:24 |  | Fixed ( 0.0, 0.0)                        |       | HOP130 03/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 12:29:30 - 07/07 12:46:00 |  | Fixed ( -468.0, 0.0)                     |       | HOP130 04/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 13:19:30 - 07/07 13:32:24 |  | Fixed ( -936.0, 0.0)                     |       | HOP130 05/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 13:35:30 - 07/07 13:42:24 |  | Fixed ( 815.0, 470.0)                    |       | HOP130 06/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 13:45:30 - 07/07 13:58:24 |  | Fixed ( 411.0, 847.0)                    |       | HOP130 07/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 14:01:30 - 07/07 14:24:00 |  | Fixed ( 0.0, 941.0)                      |       | HOP130 08/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 14:57:30 - 07/07 15:10:24 |  | Fixed ( -411.0, 847.0)                   |       | HOP130 09/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 15:13:30 - 07/07 15:20:24 |  | Fixed ( -815.0, 470.0)                   |       | HOP130 10/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 15:23:30 - 07/07 15:30:24 |  | Fixed ( 815.0, -470.0)                   |       | HOP130 11/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 15:33:30 - 07/07 15:46:24 |  | Fixed ( 411.0, -847.0)                   |       | HOP130 12/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 15:49:30 - 07/07 16:48:24 |  | Fixed ( 0.0, -941.0)                     |       | HOP130 13/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 16:51:30 - 07/07 17:04:24 |  | Fixed ( -411.0, -847.0)                  |       | HOP130 14/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 17:07:30 - 07/07 17:13:24 |  | Fixed ( -815.0, -471.0)                  |       | HOP130 15/15                         |       |       |     |     |                      |       |            |          |        |
| 07/07 17:16:30 - 07/07 17:40:30 |  | Track ( -669.5, -260.1) @ 07/07 17:13:30 |       | End of HOP130, AR 14482              |       |       |     |     |                      |       |            |          |        |
| 07/07 22:32:00 - 07/08 03:21:30 |  | Track ( -634.7, -262.4) @ 07/07 22:29:00 |       | AR 14482                             |       |       |     |     |                      |       |            |          |        |
| 07/08 04:03:00 - 07/08 06:00:54 |  | Fixed ( 0.0, 0.0)                        |       | synoptic, shifted 1.0 min + HOP349   |       |       |     |     |                      |       |            |          |        |
| 07/08 06:14:00 - 07/08 17:57:24 |  | Track ( -580.9, -265.6) @ 07/08 06:11:00 |       | #AR 14482                            |       |       |     |     |                      |       |            |          |        |
| 07/08 18:10:30 - 07/09 03:52:30 |  | Track ( -491.3, -270.2) @ 07/08 18:07:30 |       | #AR 14482                            |       |       |     |     |                      |       |            |          |        |
| 07/09 04:32:01 - 07/09 06:14:24 |  | Fixed ( 0.0, 0.0)                        |       | synoptic, shifted 14.5 min + HOP 349 |       |       |     |     |                      |       |            |          |        |
| 07/09 06:27:30 - 07/09 08:25:00 |  | Track ( -392.6, -274.2) @ 07/09 06:24:30 |       | #AR 14482                            |       |       |     |     |                      |       |            |          |        |
| 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-Al                   |  | Open/thick-Al                            | close | Safe                                 | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al                   |  | Open/thick-Al                            | close | Safe                                 | Dark  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Default Filter                  |  | Thicker Filter                           | VLS   | mode                                 | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

\* \* \* \* \*

## Flare Detection

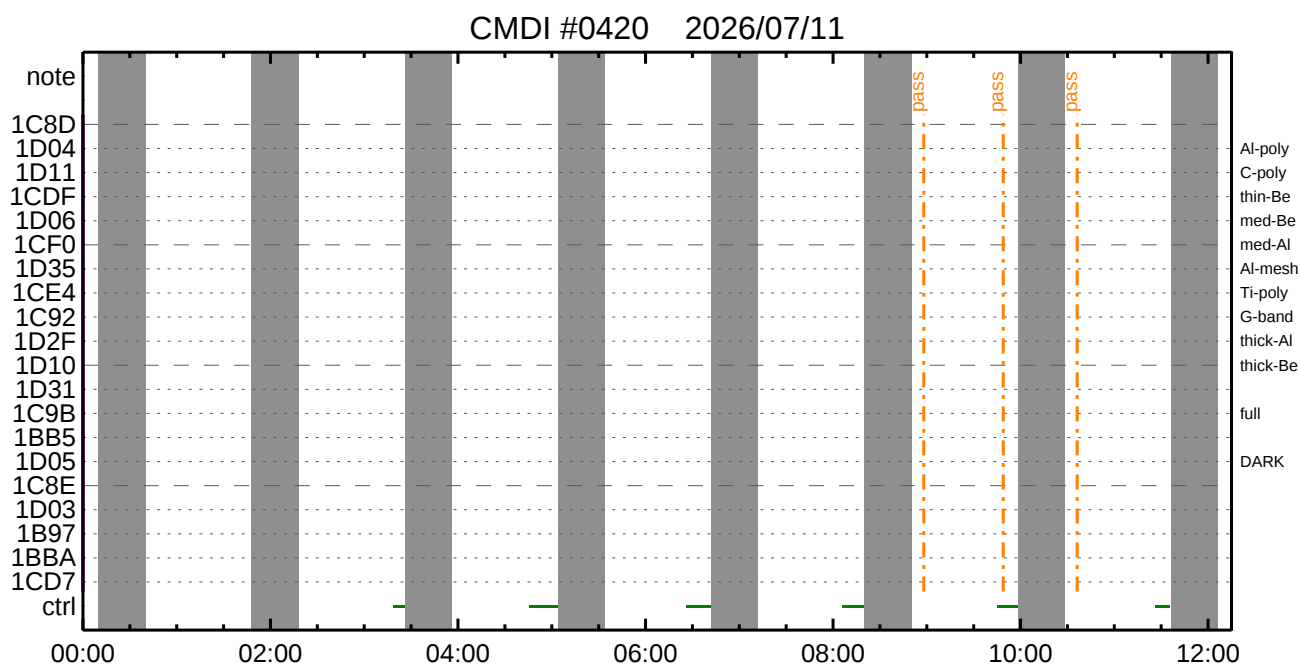
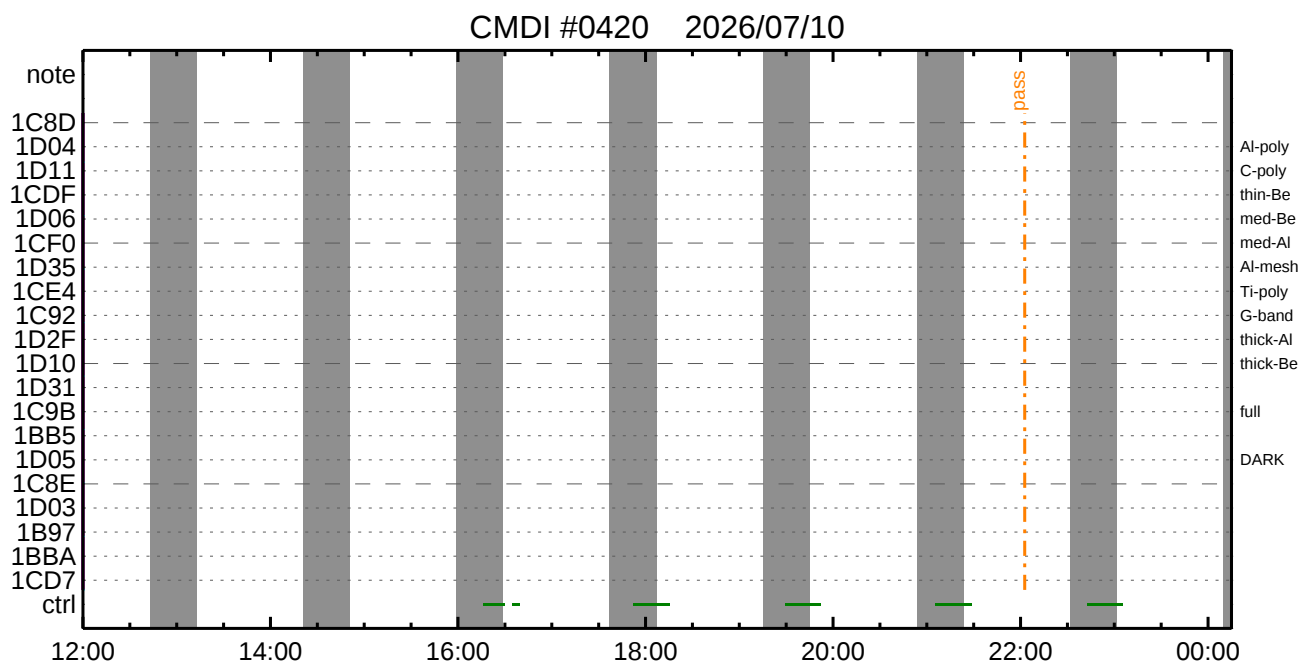
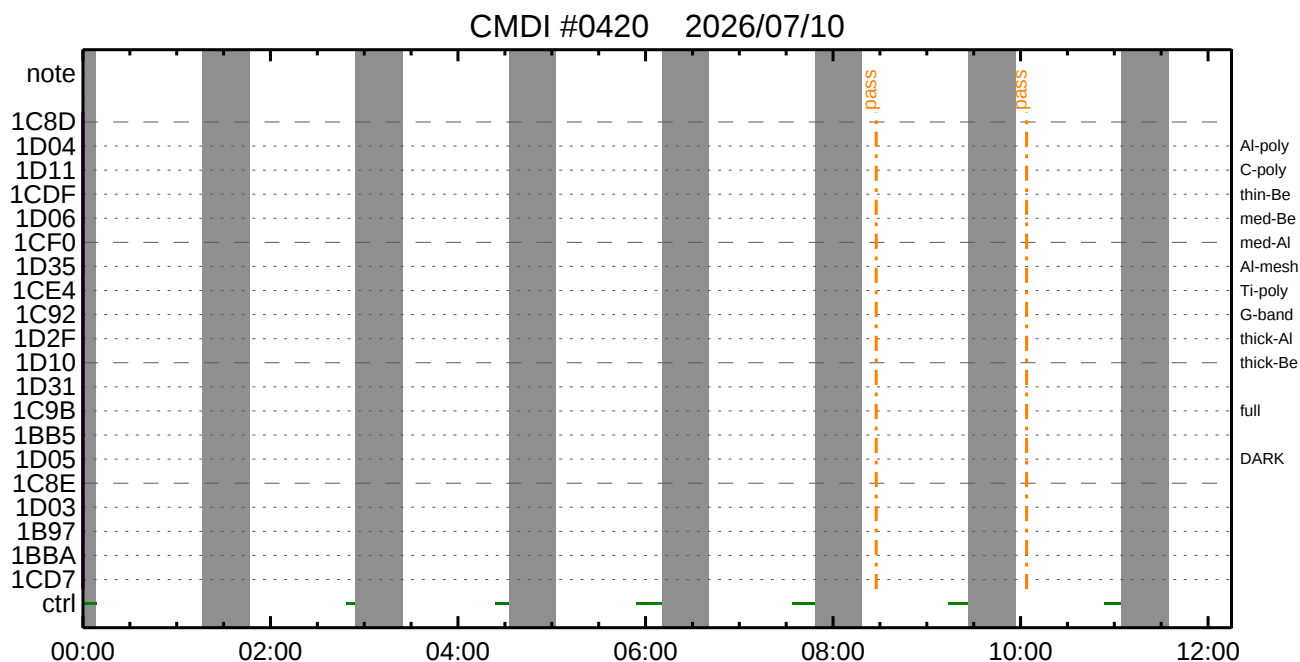
\* \* \* \* \*

| FLD Patrol                      |  |                         |       |           |      |     |     |     |  |      |  |       |  |
|---------------------------------|--|-------------------------|-------|-----------|------|-----|-----|-----|--|------|--|-------|--|
| Term                            |  | Pointing (x, y)         |       | Comment   |      |     |     |     |  |      |  |       |  |
| 07/07 11:01:25 - 07/07 18:19:18 |  | cannot be identified    |       |           |      |     |     |     |  |      |  |       |  |
| 07/07 22:29:18 - 07/08 06:01:18 |  | Track ( -634.7, -262.4) |       | AR 14482  |      |     |     |     |  |      |  |       |  |
| 07/08 06:11:18 - 07/08 17:57:48 |  | Track ( -580.9, -265.6) |       | #AR 14482 |      |     |     |     |  |      |  |       |  |
| 07/08 18:07:48 - 07/09 06:14:48 |  | Track ( -491.3, -270.2) |       | #AR 14482 |      |     |     |     |  |      |  |       |  |
| 07/09 06:24:48 - 07/11 12:20:00 |  | Track ( -392.6, -274.2) |       | #AR 14482 |      |     |     |     |  |      |  |       |  |
| Al-poly/Open                    |  | Al-poly/Open            | close | Safe      | Norm | 4ms | Obs | 8x8 |  | Q=50 |  | 30sec |  |

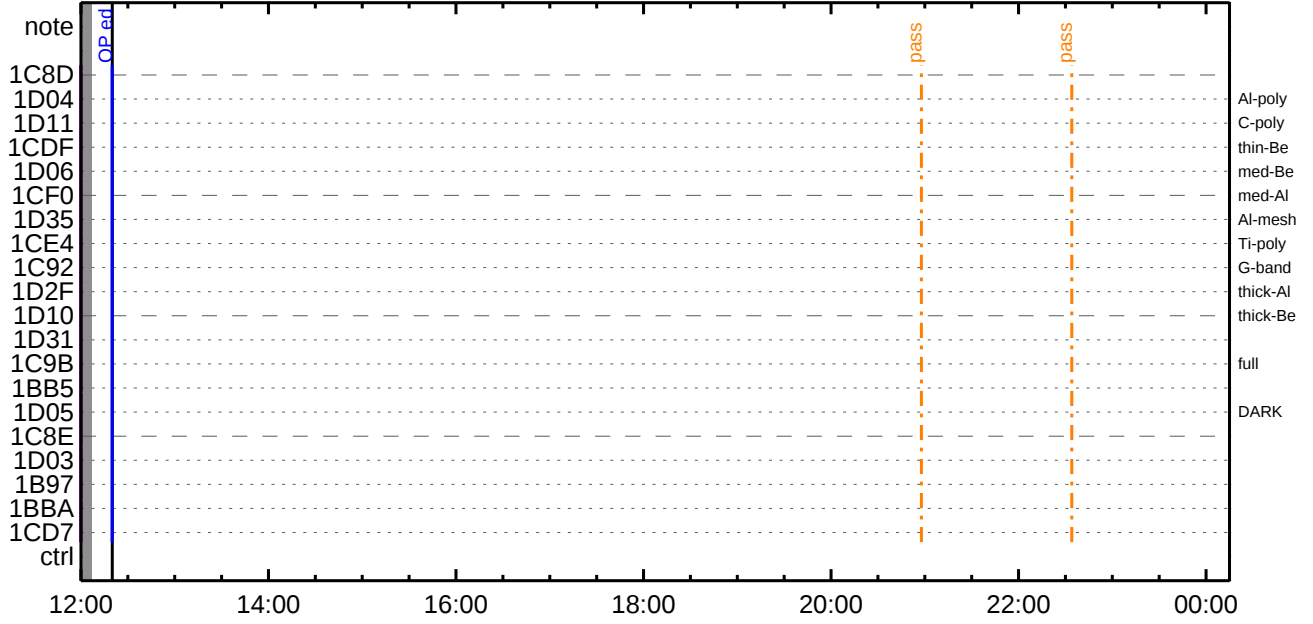
|                |                |     |      |       |      |     |     |                    |       |            |          |
|----------------|----------------|-----|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |
|----------------|----------------|-----|------|-------|------|-----|-----|--------------------|-------|------------|----------|







CMDI #0420 2026/07/11



```
main-089 2026-07-07 12:32:57 278 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŴÁŷŞŴÃŶ~¼Ä»Ü;ä
0005 C.
0006 C. ŴÄŴß;¼Ŵ³ŴÐŴóŴÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŴÇŴŴ×Ŵí;¼ŴÉ;ÊÈè²µ•íîÊ;ÊÈÈ¼°ÇÔñ•ñç¼¹¹Çñİ; ÇÀ®, ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷ç®µ;ON
0016 C. *****
0017 C. °EA, í×ÈÝñäLOSñÞñÇñî»Þ'Òòò¹íî, ñ•; ÇÉÔÍ×ñÈXÂÓONñî¹ÔñÈñîñÈñññ³ñÈ;£
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. XŴÐŴóŴÉŴíŴÄŴŶ~¾ÔÃÖñ¬°ÄÄêñ•ñç, é; ç°Ê²¼ñî¹EA, ¼ê½Çñò¼Ä¹Ôñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EA,
0033 C. *****
0034 C. ° RESTART; ÊPT1; Èñ•ñçñ¼¹¹Çñİ; ç°Ê²¼ñî¹Ä¹Ôñ»ñ°; ÇDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EA, ³«»î;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 +. DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 +. DC 06-B3 DR_REP_START
0041 +. DC 01-32 DHU_X_VC4_ON
0042 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, ;¼Ú)
0043 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0044 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0045 C.
0046 . C. ;ãŴÇŴóŴEŴÊÄÙÂØ; ÊÄ•Ä°²òÈò; È, äñî¹EA, °E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 +. DC 01-32 DHU_X_VC4_ON
0049 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, ;¼Ú)
0050 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0051 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EA, ñ¬¼«E°Ää»ßñ•ñç, ä; ç°Ê²¼ñò¼Ä¹Ôñ¹ñè;£
0055 C. ŴÇŴóŴEŴÊÄÙÂØñäÄ•Ä°²òÈòñ¬¼áñ¼¹¹Çñİ'°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EA,
0059 C. *****
0060 C. ° RESTART; ÊPT2; Èñ•ñçñ¼¹¹Çñİ; ç°Ê²¼ñî¹Ä¹Ôñ»ñ°; ÇDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EA, ³«»î;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 +. DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 +. DC 06-B3 DR_REP_START
0067 +. DC 01-32 DHU_X_VC4_ON
0068 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, ;¼Ú)
0069 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0070 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0071 C.
0072 . C. ;ãŴÇŴóŴEŴÊÄÙÂØ; ÊÄ•Ä°²òÈò; È, äñî¹EA, °E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 +. DC 01-32 DHU_X_VC4_ON
0075 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, ;¼Ú)
0076 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô, ;¼Ú)
0077 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EA, Ää»ß; ÇXÁ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EA, Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 +. DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç [HK1_REP_STA/STP] EQ STOP
0087 C. çç [HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç [HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ÷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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0194 C.
0195 +. TI 2026-07-07 11:20:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          [ ] [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0198 C.
0199 C. °Ê²¼¤İÄê¼İİÑ¤İŲÄŲ$ŲÄŲ~¹äİÜ
0200 C.          [ ] [HK1_TI_CMD_ENA/DIS]          EQ          ENA
0201 C.          [ ] [HK1_TI_CMD_NUM]          EQ          4
0202 C.          [ ] [HK1_NEXT_EXEC_PIM]          EQ          DHU
0203 C.          [ ] [HK1_NEXT_EXEC_DC]          EQ          0xB3
0204 C.
0205 C. *****
0206 C. TIİİ°èŲÄŲóŲ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;S 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC          (03 ab 03 01 02)
0212 C.          [ ] [HK1_DMP_TOP_ADRS_1]          EQ          07
0213 C.          [ ] [HK1_DMP_TOP_ADRS_0]          EQ          2B
0214 C.          [ ] [HK1_DMP_BLOCK_NUM]          EQ          3
0215 C.          [ ] [HK1_DMP_REPEAT_NUM]          EQ          0
0216 C.          [ ] [HK1_DMA_DMP_PIM]          EQ          DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC          (07 0b f8)
0219 C.          [ ] [HK1_PKT_FORM_NO]          EQ          7
0220 C.          [ ] [HK1_PKT_GEN_TIME]          EQ          0.25 s
0221 C.          [ ] [HK1_S_TLM_BIT_RATE]          EQ          32k
0222 C.          [ ] [HK1_X_TLM_BIT_RATE]          EQ          4M
0223 C.          [ ] [HK1_DMP_CHK_FLG]          EQ          EXEC
0224 C.
0225 C. ŲÄŲóŲ×½ªİ»¤ò³İŲ$
0226 C.          [ ] [HK1_DMP_CHK_FLG]          EQ          NON
0227 C.
0228 C. RAM ID=TI_TBL¤İ¼È¹Ų•è²İOK¤ò³İŲ$
0229 C.
0230 C. DHUŲä;¼ŲÈ;È¼Ų½,Ųİ;¼ŲÈ;È¤òİä¤¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC          (02 0a f8)
0233 C.          [ ] [HK1_PKT_FORM_NO]          EQ          2
0234 C.          [ ] [HK1_PKT_GEN_TIME]          EQ          0.5S
0235 C.          [ ] [HK1_S_TLM_BIT_RATE]          EQ          32K
0236 C.          [ ] [HK1_X_TLM_BIT_RATE]          EQ          4M
0237 C.
0238 C.
0239 C. ***** XRT START *****
0240 C. Execute, after the success of OP upload.
0241 +. TI 2026-07-07 11:20:00.0
0242 DC 07-F0 MDP_XRT_MODE_STBY
0243 BC          (c3)
0244 C.          [ ] [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0245 C.
0246 C. ***** XRT END *****
0247 C. Stop EIS observation and temporarily disable EIS mode changes
0248 C.
0249 C.
0250 C. ***** Start EIS operation (TI set) *****
0251 C. Execute, after the success of OP upload.
0252 C. Set EIS TI-commands
0253 +. TI 2026-07-07 11:20:30.0
0254 DC 07-FC EIS_MODE_MANU
0255 BC          (21 02)
0256 +. TI 2026-07-07 11:20:40.0
0257 DC 07-FC EIS_MODE_CHG_DIS
0258 BC          (22)
0259 C.          [ ] [HK1_TI_CMD_NUM]          EQ          2 COUNTUP
0260 C. ***** End EIS operation (TI set) *****
0261 C.
0262 C.
0263 C.
0264 C. ***** MDP ´ûÄİ¤İ»ö¼Ų¤ÈÄ¤¤¹¤èDCBC•×²è *****
0265 C. (¼Ä°İŲÓŲÄŲÈŲŲŲÈŲäŲŲŲè¤È¼¤¤¤¼Ä»Ü¤¹¤è)
0266 S. DC-BC dcbc-402:DCBC
0267 (MDP_known_event)
0268 C.
0269 C.
0270 C. ***** ŲĐŲ¹•İ Daily±çİÑ¤È´Ø¤¹¤èDCBC•×²è *****
0271 S. DC-BC dcbc-153:DCBC
0272 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0273 C.
0274 C.
0275 C. ;äLOSŲÄŲ$ŲÄŲ~¼Ä»Ü;ä
0276 C.
0277 C. ***** LOS *****
0278 C.

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main-090 2026-07-07 12:32:57 178 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŲçŲÃŲ×Ųí;¼ŲÉ;ËËè²µ•íîÊ;ËËÈ¼°ÇÔñ•ñç¼¹¹Çñİ;çÀ®,ùñ¹ñèñÐñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EA, Í×ÈÝñäLOSñÐñÇñİ»p´Òòò¹íî,ñ•;çÉÔÍ×ñÈXÄÓONñİ¹ÒñÈñíñÈñññ³ñÈ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲÐŲóŲÉŲíŲÃŲ~¾ÔÄÖñ¬°ÄÄêñ•ñç,ç°Ê²¼ñî°EA,¼ê½Çñò¼Ä¹Òñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EA,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ñç¼ñ¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Òññ°;çDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EA,³«»î;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ò,;¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0045 C.
0046 . C. ;ãŲçŲóŲEŲËÊÄÚÂØ;ÊÄ•Ä°²òÈò;Ë,ãñî°EA,°E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ò,;¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EA,ñ¬¼«E°Ää»ßñ•ñç,ä;ç°Ê²¼ñò¼Ä¹Òñ¹ñè;£
0055 C. ŲçŲóŲEŲËÊÄÚÂØñÄ°Ä°²òÈòñ¬¼áñ¼¹¹Çñİ´°î»ñ¹ñèñÐñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EA,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ñç¼ñ¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Òññ°;çDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EA,³«»î;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ò,;¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0071 C.
0072 . C. ;ãŲçŲóŲEŲËÊÄÚÂØ;ÊÄ•Ä°²òÈò;Ë,ãñî°EA,°E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ò,;¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EA,Ää»ß;çXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EA,Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1 XPA ON/OFF] EO OFF
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0096 C.
0097 C.
0098 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ()
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 C.
0129 . C. ***** AOCS Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 +. DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 2732244.2 +- 1.0 (s) [ ]
0136 C.
0137 C.
0138 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139 +. DC 07-FC EIS_MODE_CHG_ENA
0140 BC (20)
0141 . C. Verify EIS_MODE_CHG_FLG is ENA
0142 +. DC 07-FC EIS_MODE_MANU
0143 BC (21 02)
0144 . C. Verify EIS in MANUAL mode
0145 . C. Estimated OBSTBL upload time is 33s
0146 C. *****
0147 C. EIS START OBSTBL LOAD
0148 C. *****
0149 . S. RAM ram-820:EIS_OBSTBL
0150 ()
0151 +. DC 07-FC EIS_DUMP_OBSTBL
0152 BC (07 07 07 00 00 70 00)
0153 C.
0154 C. Execute, after the success of OBSTBL upload.
0155 C. Set EIS TI-commands
0156 +. TI 2026-07-07 11:20:50.0
0157 DC 07-FC EIS_MODE_CHG_ENA
0158 BC (20)
0159 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0160 C. *****
0161 C. EIS END OBSTBL LOAD
0162 C. *****
0163 C.
0164 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÄñ¹ñëDCBC•×²è *****
0165 C. (¾å°î¥Ö¥Å¥Ê¥Ð¥Ê¥Å¥Ç¥ÊñÊ¼ñ¼Å»Û¹ñë)
0166 . S. DC-BC dcbc-402:DCBC
0167 (MDP_known_event)
0168 C.
0169 C.
0170 . C. ***** ¥Ð¥¹•İ Daily±¿ÍÑñÊ'Øñ¹ñëDCBC•×²è *****
0171 . S. DC-BC dcbc-153:DCBC
0172 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173 C.
0174 C.
0175 . C. ;ãLOS¥Á¥S¥Ã¥¹¼Å»Û;ä
0176 C.
0177 . C. ***** LOS *****
0178 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-091 2026-07-07 12:32:57 106 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÀŸß;¼Ÿ³ŸÐŸóŸÉÄ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;Ë»¿»Ä»•µ°»×ÁÇ»ÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËè½µ•ííË;Ë»Ë¼°ÇÖ»•»¿¼¹Ç»Í;çÄ®,ù»¹»è»Ð»ÇÄ÷¿®»•»Ë»»»³»Ë;f
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 80 80 20 20)
0046 +. DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 07 80 80 08 08)
0048 +. DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 08 85 83 08 08)
0050 +. DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 85 83 06 06)
0052 +. DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 20 08)
0054 +. DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0b 80 80 08 20)
0056 +. DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0c 80 60 20 18)
0058 +. DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 0d a0 80 18 20)
0060 +. DC 07-F0 MDP_XRT_ROI_SET
0061 BC (cd 0f 80 80 06 06)
0062 +. DC 07-F0 MDP_XRT_ROI_SET
0063 BC (cd 10 80 80 08 08)
0064 +. DC 07-F0 MDP_XRT_FLD_ENA
0065 BC (d8)
0066 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0067 BC (c8)
0068 +. DC 07-F0 MDP_XRT_ARS_DIS
0069 BC (d5)
0070 +. DC 07-F0 MDP_XRT_AEC_RESET
0071 BC (d0)
0072 +. DC 07-F0 MDP_XRT_FLD_RESET
0073 BC (da)
0074 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0075 BC (c4 03)
0076 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0077 BC (c5 0e)
0078 . C. ----- Success Verify ? OK / NG ____
0079 C.
0080 C.
0081 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0082 C.
0083 +. DC 07-F0 MDP_XRT_MODE_OBSV
0084 BC (c2)
0085 +. TI 2026-07-07 11:20:02.0
0086 DC 07-F0 MDP_XRT_MODE_OBSV
0087 BC (c2)
0088 . C. ----- Success Verify ? OK / NG ____
0089 C.
0090 C. ***** XRT END *****
0091 C.
0092 . C. ***** MDP ´ûÄí»Í»ö¼Ÿ»ËÄÐ»¹»èDCBC•×²è *****
0093 C. (¾å°íŸóŸÄŸËŸÐŸËŸäŸçŸË»Ë¼½¼¼Ä»Ü»¹»è)
0094 . S. DC-BC dcbc-402:DCBC
0095 (MDP_known_event)
```

0096 C.  
0097 C.  
0098 . C. \*\*\*\*\* ¥Ð¥¹•ï Daily±¿íÑ¤Ë´Ø¤¹¤ëDCBC•×²è \*\*\*\*\*  
0099 . S. DC-BC dcbc-153;DCBC  
0100 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0101 C.  
0102 C.  
0103 . C. ;ãLOS¥Á¥\$¥Ã¥¬¼Ã»Ü;ä  
0104 C.  
0105 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0106 C.

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

|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2026/07/07 | 11:31:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2026/07/07 | 11:38:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 11:38:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 11:38:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2026/07/07 | 11:38:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | ac | cd |
| 2026/07/07 | 11:38:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/07/07 | 11:38:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/07/07 | 11:38:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/07/07 | 11:38:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/07/07 | 11:38:56.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/07/07 | 11:41:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 03 |    |    |    |
| 2026/07/07 | 11:41:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/07/07 | 11:41:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/07/07 | 11:54:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 11:54:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 11:54:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2026/07/07 | 11:54:30.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | d6 | 67 |
| 2026/07/07 | 11:54:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/07/07 | 11:54:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/07/07 | 11:54:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/07/07 | 11:54:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/07/07 | 11:54:56.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/07/07 | 11:57:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 03 |    |    |    |
| 2026/07/07 | 11:57:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/07/07 | 11:57:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/07/07 | 12:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 12:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 12:10:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2026/07/07 | 12:10:30.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2026/07/07 | 12:10:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/07/07 | 12:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/07/07 | 12:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/07/07 | 12:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/07/07 | 12:10:56.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2026/07/07 | 12:13:26.0 | XRT_QT_PROG_SET_405_OG [0x195]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 08 |    |    |    |
| 2026/07/07 | 12:13:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0e |    |    |    |
| 2026/07/07 | 12:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2026/07/07 | 12:26:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 12:26:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2026/07/07 | 12:26:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2026/07/07 | 12:26:30.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 29 | 99 |
| 2026/07/07 | 12:26:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2026/07/07 | 12:26:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2026/07/07 | 12:26:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2026/07/07 | 12:26:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2026/07/07 | 12:26:56.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |    |    |    |    |    |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2026/07/07 | 12:29:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/07 | 12:29:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 12:29:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 12:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/07 | 12:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 12:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 12:46:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/07 | 12:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/07/07 | 13:16:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/07/07 | 13:16:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:16:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:16:30.0 | AOCs_Ore-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 13:16:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 00 00 53 33 |
| 2026/07/07 | 13:16:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/07/07 | 13:16:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/07/07 | 13:16:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/07/07 | 13:16:56.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/07/07 | 13:19:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/07 | 13:19:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 13:19:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 13:32:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/07 | 13:32:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:32:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:32:30.0 | AOCs_Ore-point_Start_6_OG [0x09c] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 13:32:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 d6 36 b7 8e |
| 2026/07/07 | 13:32:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/07/07 | 13:32:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/07/07 | 13:32:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/07/07 | 13:32:56.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/07/07 | 13:35:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/07 | 13:35:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 13:35:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 13:42:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/07 | 13:42:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:42:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 | 13:42:30.0 | AOCs_Ore-point_Start_7_OG [0x09d] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 13:42:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 b4 b5 db 75 |
| 2026/07/07 | 13:42:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/07/07 | 13:42:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/07/07 | 13:42:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/07/07 | 13:42:56.0 | XRT_FLD_RESET_401_OG [0x191]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/07/07 | 13:45:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/07 | 13:45:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 13:45:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 13:58:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/07 | 13:58:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/07 |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |

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| 2026/07/07 | 13:58:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/07/07 | 13:58:30.0 | AOCs_ORe-point_Start_8_OG [0x09e]  |   |       |                |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 ac 5b 00 00 |  |
| 2026/07/07 | 13:58:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |
| 2026/07/07 | 13:58:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |
| 2026/07/07 | 13:58:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |
| 2026/07/07 | 13:58:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |
| 2026/07/07 | 13:58:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |
| 2026/07/07 | 14:01:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 03          |  |
| 2026/07/07 | 14:01:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |
| 2026/07/07 | 14:01:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |
| 2026/07/07 | 14:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 14:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 14:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |
| 2026/07/07 | 14:24:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     |   |       |                |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |
| 2026/07/07 | 14:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |
| 2026/07/07 | 14:54:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 14:54:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 14:54:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/07/07 | 14:54:30.0 | AOCs_ORe-point_Start_9_OG [0x09f]  |   |       |                |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 b4 b5 24 8b |  |
| 2026/07/07 | 14:54:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |
| 2026/07/07 | 14:54:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |
| 2026/07/07 | 14:54:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |
| 2026/07/07 | 14:54:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |
| 2026/07/07 | 14:54:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |
| 2026/07/07 | 14:57:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 03          |  |
| 2026/07/07 | 14:57:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |
| 2026/07/07 | 14:57:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |
| 2026/07/07 | 15:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 15:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 15:10:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/07/07 | 15:10:30.0 | AOCs_ORe-point_Start_10_OG [0x0a0] |   |       |                |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 d6 36 48 72 |  |
| 2026/07/07 | 15:10:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |
| 2026/07/07 | 15:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |
| 2026/07/07 | 15:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |
| 2026/07/07 | 15:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |
| 2026/07/07 | 15:10:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |
| 2026/07/07 | 15:13:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 03          |  |
| 2026/07/07 | 15:13:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |
| 2026/07/07 | 15:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |
| 2026/07/07 | 15:20:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 15:20:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |
| 2026/07/07 | 15:20:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |
| 2026/07/07 | 15:20:30.0 | AOCs_ORe-point_Start_11_OG [0x0a1] |   |       |                |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 29 ca b7 8e |  |
| 2026/07/07 | 15:20:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |
| 2026/07/07 | 15:20:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |
| 2026/07/07 | 15:20:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |
| 2026/07/07 | 15:20:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |

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| 2026/07/07 | 15:20:56.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 15:23:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 15:23:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 15:23:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 15:30:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 15:30:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 15:30:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 15:30:30.0 | AOCS_ORe-point_Start_12_OG [0x0a2] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 15:30:48.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 00 4b 4b db 75 |
| 2026/07/07 | 15:30:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2026/07/07 | 15:30:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2026/07/07 | 15:30:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2026/07/07 | 15:30:56.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 15:33:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 15:33:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 15:33:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 15:46:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 15:46:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 15:46:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 15:46:30.0 | AOCS_ORe-point_Start_13_OG [0x0a3] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 15:46:48.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 00 53 a5 00 00 |
| 2026/07/07 | 15:46:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2026/07/07 | 15:46:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2026/07/07 | 15:46:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2026/07/07 | 15:46:56.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 15:49:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 15:49:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 03          |
| 2026/07/07 | 15:49:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 16:02:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 16:02:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:02:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:02:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 16:05:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/07/07 | 16:33:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/07/07 | 16:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/07/07 | 16:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 16:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:37:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 16:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/07/07 | 16:42:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/07/07 | 16:43:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/07/07 | 16:48:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 16:48:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:48:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 16:48:30.0 | AOCS_ORe-point_Start_14_OG [0x0a4] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/07 | 16:48:48.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 00 4b 4b 24 8b |
|            |            |                                    | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |

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|            |            |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2026/07/07 | 16:48:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/07/07 | 16:48:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/07/07 | 16:48:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/07/07 | 16:48:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2026/07/07 | 16:51:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2026/07/07 | 16:51:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/07/07 | 16:51:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/07/07 | 17:04:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:04:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:04:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/07/07 | 17:04:30.0 | AOCs_Ore-point_Start_15_OG [0x0a5] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 29 db 48 72 |  |  |  |  |
| 2026/07/07 | 17:04:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/07/07 | 17:04:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/07/07 | 17:04:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/07/07 | 17:04:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/07/07 | 17:04:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2026/07/07 | 17:07:26.0 | XRT_QT_PROG_SET_427_OG [0x1ab]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2026/07/07 | 17:07:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/07/07 | 17:07:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/07/07 | 17:13:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:13:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:13:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2026/07/07 | 17:13:30.0 | AOCs_Ore-point_Start_16_OG [0x0a6] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 03 06 97 01 81 |  |  |  |  |
| 2026/07/07 | 17:13:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/07/07 | 17:13:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/07/07 | 17:13:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/07/07 | 17:13:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/07/07 | 17:13:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2026/07/07 | 17:16:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2026/07/07 | 17:16:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/07/07 | 17:16:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/07/07 | 17:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 17:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2026/07/07 | 17:40:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/07/07 | 17:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/07/07 | 18:18:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 18:18:56.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 18:18:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/07/07 | 18:19:00.0 | AOCs_Ore-point_Start_1_OG [0x097]  |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2026/07/07 | 18:19:18.0 | XRT_FLD_DIS_409_OG [0x199]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |  |  |  |  |
| 2026/07/07 | 18:19:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
| 2026/07/07 | 18:19:22.0 | XRT_ARS_DIS_420_OG [0x1a4]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/07/07 | 18:21:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 0f          |  |  |  |  |
| 2026/07/07 | 18:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/07/07 | 18:28:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/07/07 | 18:28:56.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |

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|            |            |                                    |                           |   |       |                |
|------------|------------|------------------------------------|---------------------------|---|-------|----------------|
| 2026/07/07 | 18:28:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 18:29:00.0 | AOCs_ORe-point_Start_17_OG [0x0a7] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/07 | 18:29:18.0 | XRT_FLD_DIS_404_OG [0x194]         | AOCU_NM                   | 5 | 02-76 | 00 ad 59 00 00 |
| 2026/07/07 | 18:43:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2026/07/07 | 18:43:56.0 | XRT_ARS_DIS_432_OG [0x1b0]         | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |
| 2026/07/07 | 18:43:58.0 | XRT_QT_PROG_SET_416_OG [0x1a0]     | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 18:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 14          |
| 2026/07/07 | 19:18:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 19:18:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 19:18:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 19:18:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 19:21:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/07/07 | 19:55:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/07/07 | 19:56:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/07/07 | 20:28:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 20:28:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 20:28:58.0 | XRT_FOCUS_POSITION_436_OG [0x1b4]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 20:29:00.0 | AOCs_ORe-point_Start_18_OG [0x0a8] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/07 | 20:29:18.0 | XRT_FLD_DIS_404_OG [0x194]         | AOCU_NM                   | 5 | 02-76 | 00 00 00 56 35 |
| 2026/07/07 | 20:43:54.0 | XRT_ARS_DIS_432_OG [0x1b0]         | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2026/07/07 | 20:43:56.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]     | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 20:43:58.0 | XRT_QT_PROG_SET_437_OG [0x1b5]     | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |
| 2026/07/07 | 20:44:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 05          |
| 2026/07/07 | 20:56:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 20:56:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 20:56:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 20:56:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 20:59:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2026/07/07 | 21:32:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2026/07/07 | 21:33:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] | 1 | 07-F0 | c0             |
| 2026/07/07 | 22:28:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 22:28:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 22:28:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 22:29:00.0 | AOCs_ORe-point_Start_16_OG [0x0a6] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/07 | 22:29:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 03 06 97 01 81 |
| 2026/07/07 | 22:29:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2026/07/07 | 22:29:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2026/07/07 | 22:29:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2026/07/07 | 22:29:26.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2026/07/07 | 22:31:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 22:31:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 02          |
| 2026/07/07 | 22:32:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0e          |
| 2026/07/07 | 22:34:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2026/07/07 | 22:34:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 22:34:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2026/07/07 | 22:34:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2026/07/07 | 22:37:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
|            |            |                                    | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |

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|            |            |                                   |   |                      |
|------------|------------|-----------------------------------|---|----------------------|
| 2026/07/07 | 23:08:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2026/07/07 | 23:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 00:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 00:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 00:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2026/07/08 | 00:12:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2026/07/08 | 00:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2026/07/08 | 00:43:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2026/07/08 | 00:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 01:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 01:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 01:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2026/07/08 | 01:51:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2026/07/08 | 01:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2026/07/08 | 02:21:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2026/07/08 | 02:22:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 03:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 03:21:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 03:21:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2026/07/08 | 03:21:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2026/07/08 | 03:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2026/07/08 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2026/07/08 | 04:00:00.0 | AOCs_ORe-point_Start_1_OG [0x097] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |
| 2026/07/08 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |
| 2026/07/08 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |
| 2026/07/08 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |
| 2026/07/08 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2026/07/08 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2026/07/08 | 04:02:56.0 | XRT_QT_PROG_SET_405_OG [0x195]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 08          |
| 2026/07/08 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |
| 2026/07/08 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 04:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 04:49:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 04:49:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2026/07/08 | 04:49:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2026/07/08 | 04:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2026/07/08 | 05:37:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2026/07/08 | 05:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 06:00:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 06:00:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2026/07/08 | 06:00:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |
| 2026/07/08 | 06:01:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |                      |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 d9             |
| 2026/07/08 | 06:01:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |                      |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 c9             |
| 2026/07/08 | 06:01:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |                      |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |
| 2026/07/08 | 06:03:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |                      |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 0f          |
| 2026/07/08 | 06:04:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2026/07/08 | 06:10:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |

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|            |            |                                    |                       |   |       |                |
|------------|------------|------------------------------------|-----------------------|---|-------|----------------|
| 2026/07/08 | 06:10:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 06:10:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 06:11:00.0 | AOCs_Ore-point_Start_16_OG [0x0a6] | XRT_FOCUS_POSITION    | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/08 | 06:11:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM               | 5 | 02-76 | 03 06 97 01 81 |
| 2026/07/08 | 06:11:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA       | 1 | 07-F0 | d8             |
| 2026/07/08 | 06:11:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2026/07/08 | 06:11:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET     | 1 | 07-F0 | d0             |
| 2026/07/08 | 06:11:26.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_ARS_DIS       | 1 | 07-F0 | d5             |
| 2026/07/08 | 06:13:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 06:13:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 02          |
| 2026/07/08 | 06:14:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 0e          |
| 2026/07/08 | 06:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 06:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 06:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 06:29:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 06:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2026/07/08 | 07:15:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2026/07/08 | 07:16:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CUSTOM_430_OG | 1 | 07-F0 | c0             |
| 2026/07/08 | 08:09:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 08:09:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 08:09:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 08:09:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 08:12:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2026/07/08 | 08:53:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2026/07/08 | 08:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CUSTOM_430_OG | 1 | 07-F0 | c0             |
| 2026/07/08 | 09:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 09:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 09:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 09:48:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 09:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2026/07/08 | 10:32:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2026/07/08 | 10:33:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CUSTOM_430_OG | 1 | 07-F0 | c0             |
| 2026/07/08 | 11:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 11:30:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 11:30:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 11:30:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 11:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2026/07/08 | 11:38:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2026/07/08 | 11:39:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CUSTOM_430_OG | 1 | 07-F0 | c0             |
| 2026/07/08 | 11:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 11:39:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 11:39:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 11:39:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET     | 1 | 07-F0 | da             |
| 2026/07/08 | 11:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2026/07/08 | 12:10:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2026/07/08 | 12:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CUSTOM_430_OG | 1 | 07-F0 | c0             |
| 2026/07/08 | 13:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO     | 1 | 07-F0 | c0             |
| 2026/07/08 | 13:17:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |
| 2026/07/08 | 13:17:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU     | 1 | 07-F0 | c1             |

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|            |            |                                    |                     |   |       |                |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2026/07/08 | 13:17:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/08 | 13:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/07/08 | 13:48:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/07/08 | 13:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 14:55:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 14:55:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 14:55:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/08 | 14:55:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/07/08 | 14:58:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/07/08 | 15:26:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 15:27:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 16:34:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 16:34:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 16:34:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/08 | 16:34:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/07/08 | 16:37:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/07/08 | 17:13:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 17:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 17:57:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 17:57:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 17:57:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/08 | 17:57:30.0 | AOCs_ORe-point_Start_1_OG [0x097]  | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2026/07/08 | 17:57:48.0 | XRT_FLD_DIS_409_OG [0x199]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2026/07/08 | 17:57:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2026/07/08 | 17:57:52.0 | XRT_ARS_DIS_420_OG [0x1a4]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/07/08 | 18:00:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f          |
| 2026/07/08 | 18:00:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 18:07:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 18:07:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 18:07:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/08 | 18:07:30.0 | AOCs_ORe-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 03 06 97 01 81 |
| 2026/07/08 | 18:07:48.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/07/08 | 18:07:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/07/08 | 18:07:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/07/08 | 18:07:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/07/08 | 18:07:56.0 | XRT_FLD_RESET_401_OG [0x191]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/08 | 18:10:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 02          |
| 2026/07/08 | 18:10:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/07/08 | 18:10:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 18:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 18:12:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 18:12:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/07/08 | 18:12:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/07/08 | 18:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/07/08 | 18:50:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/07/08 | 18:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 19:50:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/07/08 | 19:50:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/07/08 | 19:50:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/08 | 19:50:06.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/08 | 19:53:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/08 | 20:26:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/07/08 | 20:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/07/08 | 21:28:00.5 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/08 | 21:28:02.5 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/08 | 21:28:04.5 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/08 | 21:28:06.5 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/08 | 21:31:14.5 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/08 | 22:03:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/07/08 | 22:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/07/08 | 23:06:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/08 | 23:06:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/08 | 23:06:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/08 | 23:06:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/08 | 23:09:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/08 | 23:38:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/07/08 | 23:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/07/09 | 00:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 00:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 00:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/09 | 00:44:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/09 | 00:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/09 | 01:14:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/07/09 | 01:15:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/07/09 | 02:19:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 02:19:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 02:19:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/09 | 02:19:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/09 | 02:22:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/09 | 02:53:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/07/09 | 02:54:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/07/09 | 03:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 03:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 03:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/09 | 03:52:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/07/09 | 03:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/07/09 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/07/09 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/09 | 04:00:00.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/07/09 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/07/09 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/07/09 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/07/09 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/07/09 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/07/09 | 04:02:56.0 | XRT_QT_PROG_SET_405_OG [0x195]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 08          |
| 2026/07/09 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |

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|            |            |                                    |   |       |                |
|------------|------------|------------------------------------|---|-------|----------------|
| 2026/07/09 | 04:31:01.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2026/07/09 | 04:32:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2026/07/09 | 05:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 05:21:32.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 05:21:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2026/07/09 | 05:21:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2026/07/09 | 05:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2026/07/09 | 06:09:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2026/07/09 | 06:10:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2026/07/09 | 06:14:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 06:14:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 06:14:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |
| 2026/07/09 | 06:14:48.0 | XRT_FLD_DIS_409_OG [0x199]         |   |       |                |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |
| 2026/07/09 | 06:14:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |
| 2026/07/09 | 06:14:52.0 | XRT_ARS_DIS_420_OG [0x1a4]         |   |       |                |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |
| 2026/07/09 | 06:17:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]     |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 0f          |
| 2026/07/09 | 06:17:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2026/07/09 | 06:24:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 06:24:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 06:24:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e]  |   |       |                |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |
| 2026/07/09 | 06:24:30.0 | AOCS_Ore-point_Start_16_OG [0x0a6] |   |       |                |
|            |            | AOCU_NM                            | 5 | 02-76 | 03 06 97 01 81 |
| 2026/07/09 | 06:24:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |
| 2026/07/09 | 06:24:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |
| 2026/07/09 | 06:24:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |
| 2026/07/09 | 06:24:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |
| 2026/07/09 | 06:24:56.0 | XRT_FLD_RESET_401_OG [0x191]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2026/07/09 | 06:27:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 02          |
| 2026/07/09 | 06:27:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0e          |
| 2026/07/09 | 06:27:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2026/07/09 | 07:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 07:01:32.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 07:01:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2026/07/09 | 07:01:36.0 | XRT_PREFLR_STRT_438_OG [0x1b6]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2026/07/09 | 07:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2026/07/09 | 07:47:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2026/07/09 | 07:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2026/07/09 | 08:25:00.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2026/07/09 | 10:56:00.0 | AOCS_Ore-point_Start_1_OG [0x097]  |   |       |                |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |