XRT Timeline to be uploaded on 2025/07/03

Period: 2025/07/03 11:07:00 - 2025/07/08 11:04:00

✲ ✲ ✲ ✲ ✲ **Normal mode** ✲ ✲ ✲ ✲ ✲

XOB #1B96: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment
07/03 11:25:30 - 07/03 15:34:54	Track (649.5, 88.1) @ 07/03 11:17:00	# OP start + 10min / AR obs (AR 14122)
07/03 15:48:00 - 07/03 21:42:54	Track (186.1, -436.3) @ 07/03 15:45:00	AR obs (AR 14127) + HOP 508
07/04 16:13:00 - 07/04 17:43:54	Track (-327.8, -403.8) @ 07/04 16:10:00	AR obs (AR 14132)
07/04 17:57:00 - 07/04 23:59:54	Track (-313.7, -404.2) @ 07/04 17:54:00	HOP 508
07/05 06:15:00 - 07/05 10:08:00	Track (-211.5, -406.8) @ 07/05 06:12:00	AR obs (AR 14132)

PROG= 07 Inf.-time(s)

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 30 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

- **Subr= 2 10-time(s) 360.0sec**
  - **Seqn= 8 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

  - **Seqn= 6 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

XOB #1D07: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(8/181/1443), Thin-Be(33/512/4096), Thick-Be(32768), Med-Al(256/8192/32768), Med-Be(128/5795

Term	Pointing (x, y)	Comment
07/03 15:38:00 - 07/03 15:44:54	Fixed (0.0, 0.0)	synoptic, shifted -145.0 min
07/04 06:08:30 - 07/04 07:03:54	Fixed (-17.0, -29.0)	HOP412 11/20 / synoptic
07/04 16:03:00 - 07/04 16:09:54	Fixed (0.0, 0.0)	End of HOP412 / HOP 349 + 448
07/04 17:47:00 - 07/04 17:53:54	Fixed (0.0, 0.0)	synoptic, shifted -16.0 min
07/05 06:05:00 - 07/05 06:11:54	Fixed (0.0, 0.0)	HOP 349 + 448 / synoptic, shifted 2.0 min

PROG= 10 1-time(s)

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 5 1-time(s) 2.0sec**

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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 99 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	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**

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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 41 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/thick-Be	Open/thick-Be	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

  - **Seqn= 17 1-time(s) 2.0sec**

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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 75 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	44ms	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

XOB #1B97: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak last)

Term	Pointing (x, y)	Comment
07/03 21:46:00 - 07/03 22:21:00	Fixed (-17.0, -1019.0)	HOP412 01/20
07/03 22:59:00 - 07/03 23:18:54	Fixed (-17.0, -919.0)	HOP412 02/20
07/03 23:22:00 - 07/03 23:59:00	Fixed (-17.0, -819.0)	HOP412 03/20

07/04 00:34:00 - 07/04 00:53:54	Fixed (-17.0, -719.0)	HOP412	04/20
07/04 00:57:00 - 07/04 01:37:30	Fixed (-17.0, -619.0)	HOP412	05/20
07/04 02:12:00 - 07/04 02:31:54	Fixed (-17.0, -519.0)	HOP412	06/20
07/04 02:35:00 - 07/04 03:08:30	Fixed (-17.0, -419.0)	HOP412	07/20
07/04 03:50:00 - 07/04 04:09:54	Fixed (-17.0, -319.0)	HOP412	08/20
07/04 04:13:00 - 07/04 05:25:54	Fixed (-17.0, -219.0)	HOP412	09/20
07/04 05:29:00 - 07/04 05:48:54	Fixed (-17.0, -119.0)	HOP412	10/20
07/04 07:07:00 - 07/04 07:26:54	Fixed (-17.0, 71.0)	HOP412	12/20
07/04 07:30:00 - 07/04 08:41:54	Fixed (-17.0, 171.0)	HOP412	13/20
07/04 08:45:00 - 07/04 09:04:54	Fixed (-17.0, 271.0)	HOP412	14/20
07/04 09:08:00 - 07/04 10:19:54	Fixed (-17.0, 371.0)	HOP412	15/20
07/04 10:23:00 - 07/04 10:42:54	Fixed (-17.0, 471.0)	HOP412	16/20
07/04 10:46:00 - 07/04 11:16:00	Fixed (-17.0, 571.0)	HOP412	17/20
07/04 12:01:00 - 07/04 12:20:54	Fixed (-17.0, 671.0)	HOP412	18/20
07/04 12:24:00 - 07/04 13:04:30	Fixed (-17.0, 771.0)	HOP412	19/20
07/04 13:39:00 - 07/04 13:58:54	Fixed (-17.0, 871.0)	HOP412	20/20

PROG= 09 Inf.-time(s)

Subr= 1 10-time(s) 360.0sec

Seqn= 8 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 6 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 30 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1D29: HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], Al-poly[16/181/4096], thin-Be[64/1024/11571] with 512x512 G-band+Leak(1064,1048) - 45 min

Term	Pointing (x, y)	Comment
07/04 05:52:00 - 07/04 06:05:24	Fixed (-17.0, -29.0)	HOP412 11/20 / synoptic
07/04 14:02:00 - 07/04 15:59:54	Fixed (0.0, 0.0)	End of HOP412 / HOP 349 + 448
07/05 04:19:30 - 07/05 06:01:54	Fixed (0.0, 0.0)	HOP 349 + 448 / synoptic, shifted 2.0 min

PROG= 13 Inf.-time(s)

Subr= 1 1-time(s) 300.0sec

Seqn=100 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 84 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	16ms	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	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 57 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 81 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=95	0	0	2.0sec

Subr= 2 6-time(s) 1200.0sec

Seqn= 8 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 6 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

Seqn= 29 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	2	0	2.0sec

XOB #1CDE: HOP393/336 - 4x4 - Full Sun double long/short pair AEC 2/3 - Al-poly - Dark (512ms) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 7

Term	Pointing (x, y)	Comment
07/05 00:03:00 - 07/05 03:40:00	Track (-17.0, -128.5) @ 07/05 00:00:00	HOP 393

PROG= 05 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 30 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 52 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec

Subr= 2 30-time(s) 720.0sec

Seqn= 97 2-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	med-Be/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec

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

✲ ✲ ✲ ✲ ✲ **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) + Gb

Term	Pointing (x, y)	Comment
07/03 11:25:30 - 07/03 15:34:54	Track (649.5, 88.1) @ 07/03 11:17:00	# OP start + 10min / AR obs (AR 14122)
07/03 15:48:00 - 07/03 21:42:54	Track (186.1, -436.3) @ 07/03 15:45:00	AR obs (AR 14127) + HOP 508
07/04 16:13:00 - 07/04 17:43:54	Track (-327.8, -403.8) @ 07/04 16:10:00	AR obs (AR 14132)
07/04 17:57:00 - 07/04 23:59:54	Track (-313.7, -404.2) @ 07/04 17:54:00	HOP 508
07/05 00:03:00 - 07/05 03:40:00	Track (-17.0, -128.5) @ 07/05 00:00:00	HOP 393
07/05 06:15:00 - 07/05 10:08:00	Track (-211.5, -406.8) @ 07/05 06:12:00	AR obs (AR 14132)

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

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

Term	Pointing (x, y)	Comment
07/03 21:46:00 - 07/03 22:21:00	Fixed (-17.0, -1019.0)	HOP412 01/20
07/03 22:59:00 - 07/03 23:18:54	Fixed (-17.0, -919.0)	HOP412 02/20
07/03 23:22:00 - 07/03 23:59:00	Fixed (-17.0, -819.0)	HOP412 03/20
07/04 00:34:00 - 07/04 00:53:54	Fixed (-17.0, -719.0)	HOP412 04/20
07/04 00:57:00 - 07/04 01:37:30	Fixed (-17.0, -619.0)	HOP412 05/20
07/04 02:12:00 - 07/04 02:31:54	Fixed (-17.0, -519.0)	HOP412 06/20
07/04 02:35:00 - 07/04 03:08:30	Fixed (-17.0, -419.0)	HOP412 07/20
07/04 03:50:00 - 07/04 04:09:54	Fixed (-17.0, -319.0)	HOP412 08/20
07/04 04:13:00 - 07/04 05:25:54	Fixed (-17.0, -219.0)	HOP412 09/20
07/04 05:29:00 - 07/04 05:48:54	Fixed (-17.0, -119.0)	HOP412 10/20
07/04 05:52:00 - 07/04 06:05:24	Fixed (-17.0, -29.0)	HOP412 11/20 / synoptic
07/04 07:07:00 - 07/04 07:26:54	Fixed (-17.0, 71.0)	HOP412 12/20
07/04 07:30:00 - 07/04 08:41:54	Fixed (-17.0, 171.0)	HOP412 13/20
07/04 08:45:00 - 07/04 09:04:54	Fixed (-17.0, 271.0)	HOP412 14/20
07/04 09:08:00 - 07/04 10:19:54	Fixed (-17.0, 371.0)	HOP412 15/20
07/04 10:23:00 - 07/04 10:42:54	Fixed (-17.0, 471.0)	HOP412 16/20
07/04 10:46:00 - 07/04 11:16:00	Fixed (-17.0, 571.0)	HOP412 17/20
07/04 12:01:00 - 07/04 12:20:54	Fixed (-17.0, 671.0)	HOP412 18/20
07/04 12:24:00 - 07/04 13:04:30	Fixed (-17.0, 771.0)	HOP412 19/20
07/04 13:39:00 - 07/04 13:58:54	Fixed (-17.0, 871.0)	HOP412 20/20
07/04 14:02:00 - 07/04 15:59:54	Fixed (0.0, 0.0)	End of HOP412 / HOP 349 + 448
07/05 04:19:30 - 07/05 06:01:54	Fixed (0.0, 0.0)	HOP 349 + 448 / synoptic, shifted 2.0 min

PROG= 18 30-time(s)												
Subr= 1 20-time(s) 2.0sec												
Seqn= 11 1-time(s) 2.0sec												
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Seqn= 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= 2 1-time(s) 2.0sec												
Seqn= 10 1-time(s) 2.0sec												
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 11 1-time(s) 2.0sec												
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Seqn= 87 1-time(s) 2.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec

└	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

✲ ✲ ✲ ✲ ✲ **Active Region Search** ✲ ✲ ✲ ✲ ✲

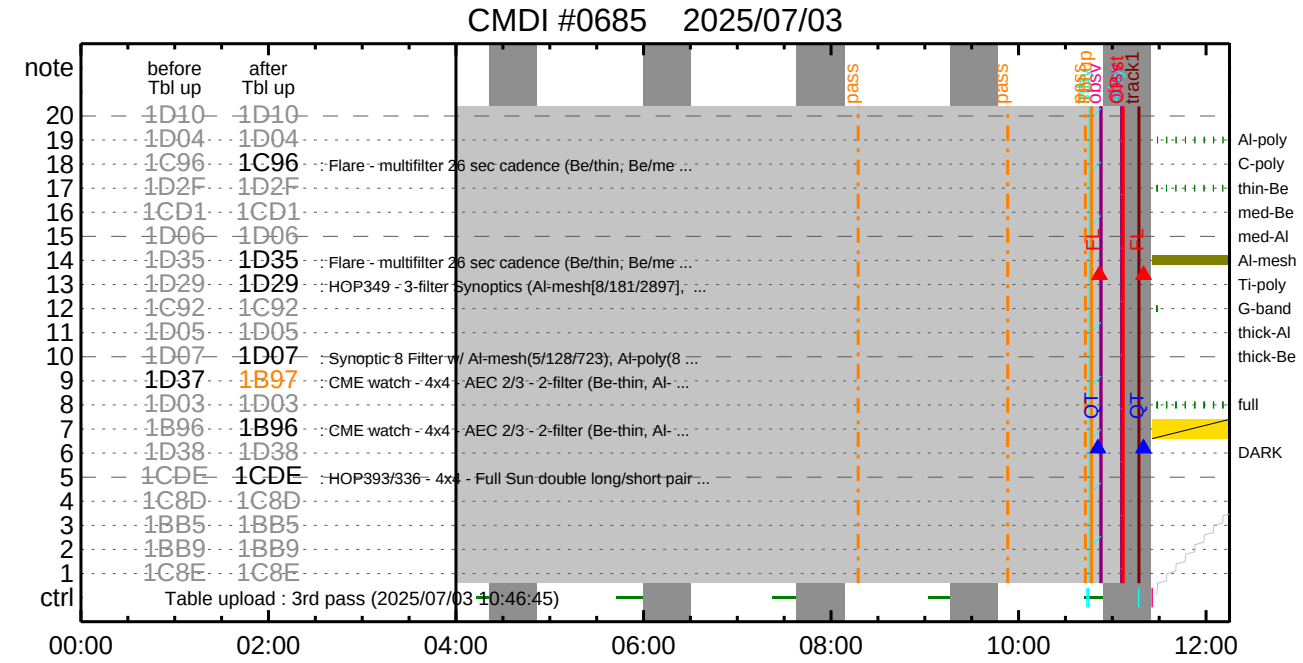
NOT USED

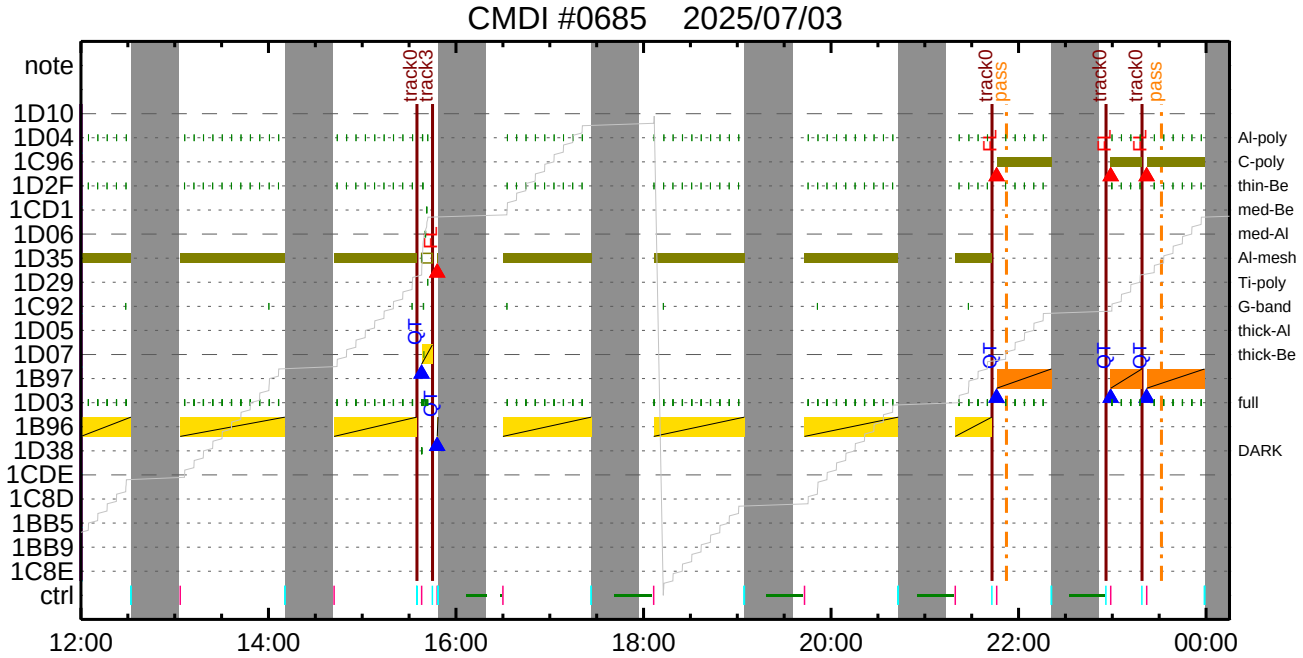
✲ ✲ ✲ ✲ ✲ **Flare Detection** ✲ ✲ ✲ ✲ ✲

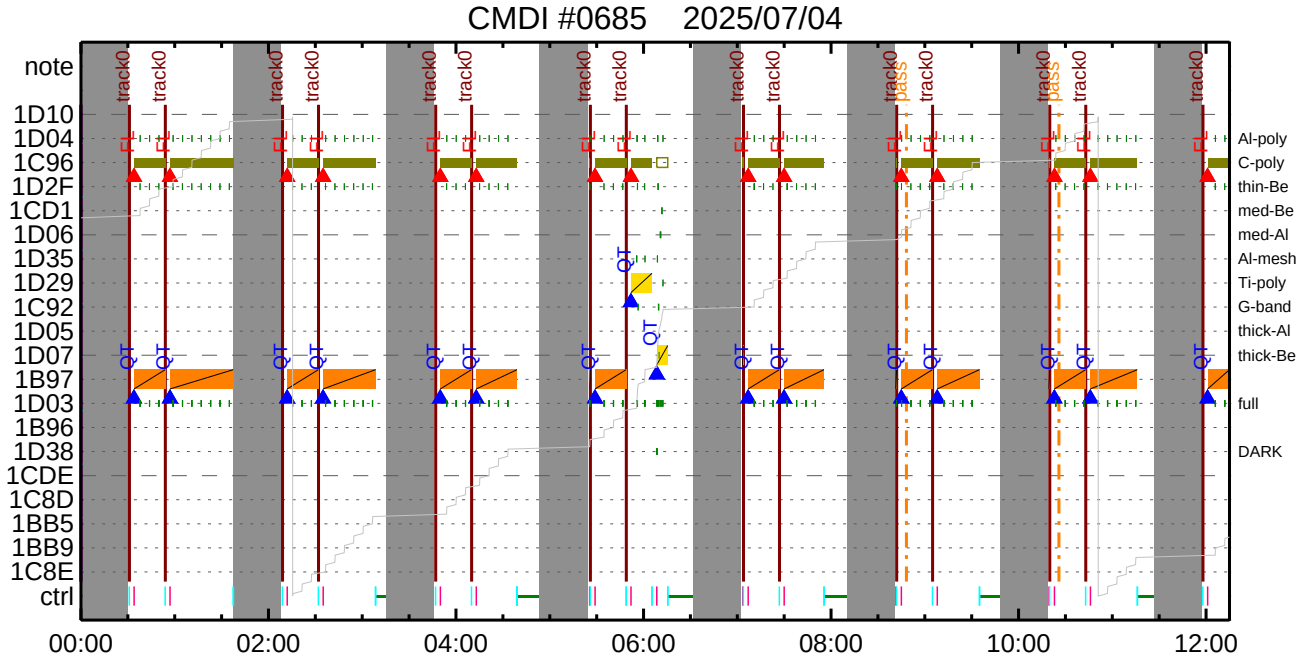
FLD Patrol

Term	Pointing (x, y)	Comment
07/03 10:47:45 - 07/03 15:35:18	cannot be identified	
07/03 15:45:16 - 07/04 06:05:48	Track (186.1, -436.3) @ 07/03 15:45:00	AR obs (AR 14127) + HOP 508
07/04 07:04:16 - 07/04 16:00:18	Fixed (-17.0, 71.0)	HOP412 12/20
07/04 16:10:16 - 07/04 17:44:18	Track (-327.8, -403.8) @ 07/04 16:10:00	AR obs (AR 14132)
07/04 17:54:16 - 07/05 06:02:18	Track (-313.7, -404.2) @ 07/04 17:54:00	HOP 508
07/05 06:12:16 - 07/08 11:04:00	Track (-211.5, -406.8) @ 07/05 06:12:00	AR obs (AR 14132)

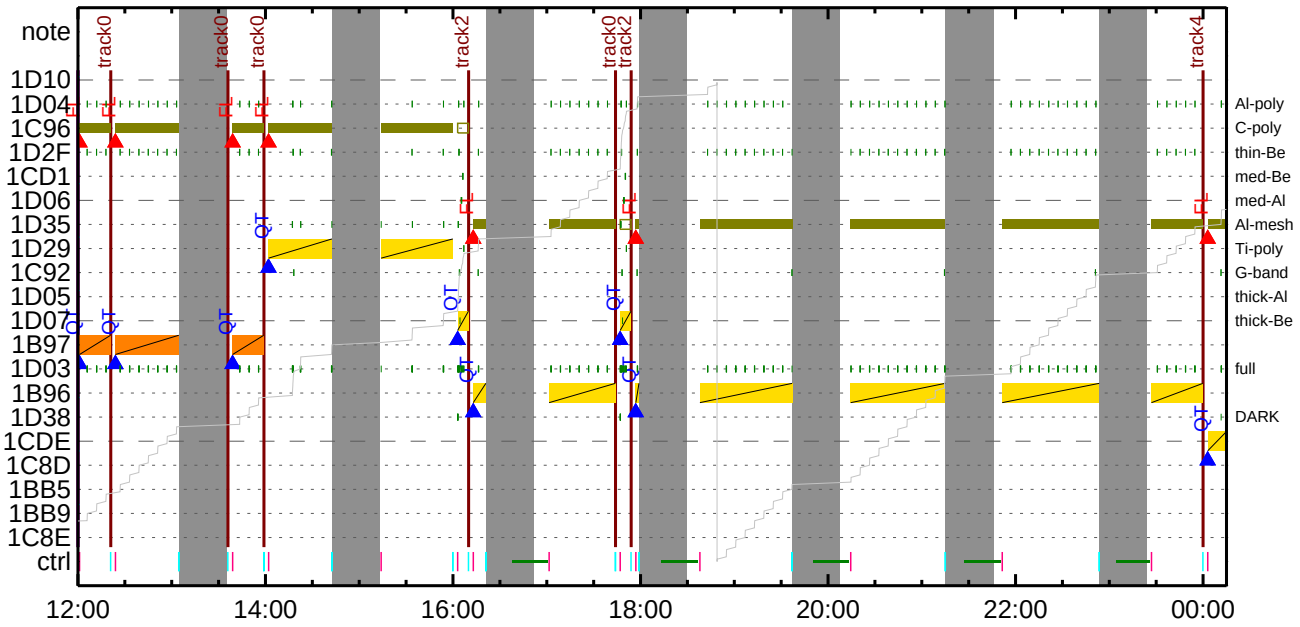
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4ms	Obs	8x8		Q=50		30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval


CMDI #0685 2025/07/03
note
before Tbl up
after Tbl up
1D10 1D10
1D04 1D04
1C96 1C96 : Flare - multifilter 26 sec cadence (Be/thin; Be/me ...
1D2F 1D2F
1CD1 1CD1
1D06 1D06
1D35 1D35 : Flare - multifilter 26 sec cadence (Be/thin; Be/me ...
1D29 1D29 : HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], ...
1C92 1C92
1D05 1D05
1D07 1D07 : Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(8 ...
1D37 1B97 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
1D03 1D03
1B96 1B96 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
1D38 1D38
1CDE 1CDE : HOP393/336 - 4x4 - Full Sun double long/short pair ...
1C8D 1C8D
1BB5 1BB5
1BB9 1BB9
1C8E 1C8E
ctrl
Table upload : 3rd pass (2025/07/03 10:46:45)
pass
pass
busy
track1
FL
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

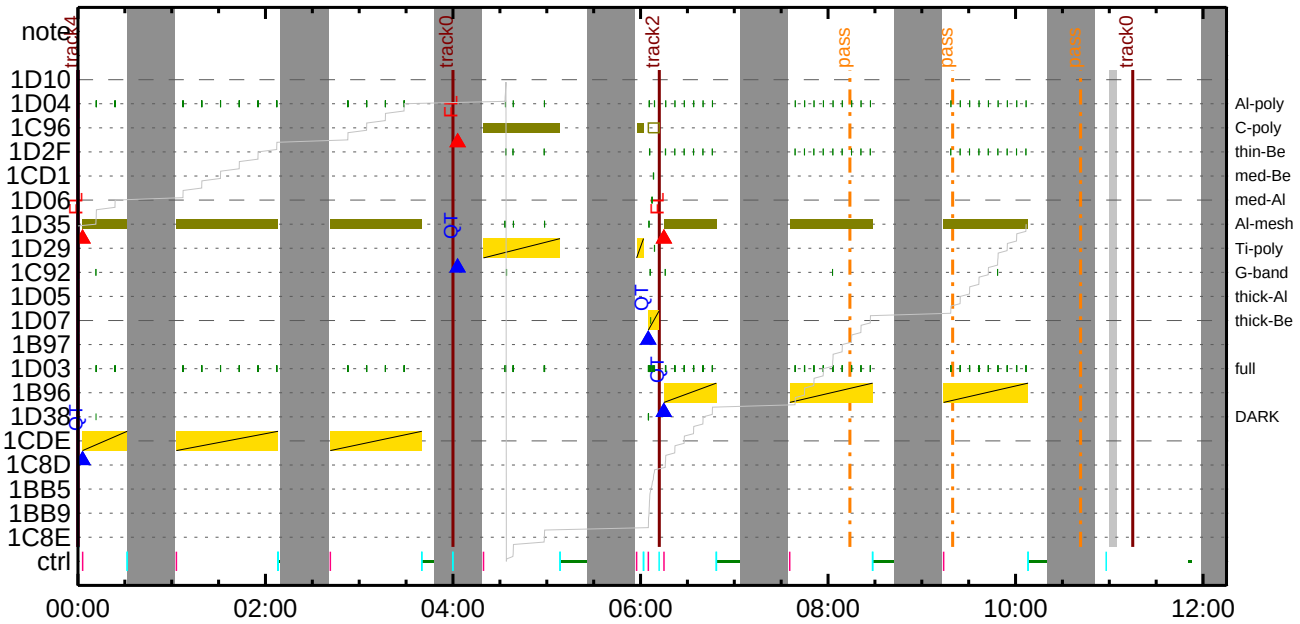

CMDI #0685 2025/07/03
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
track0
track3
pass
FL
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0685 2025/07/04
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
track0
pass
FL
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

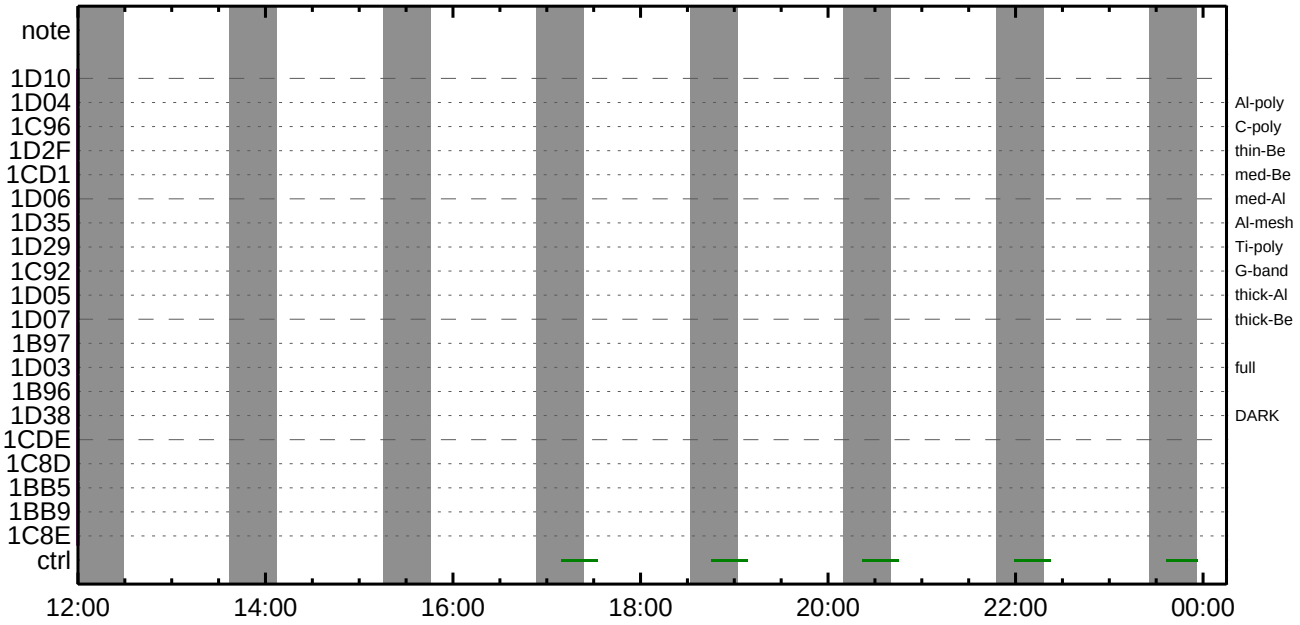
CMDI #0685 2025/07/04

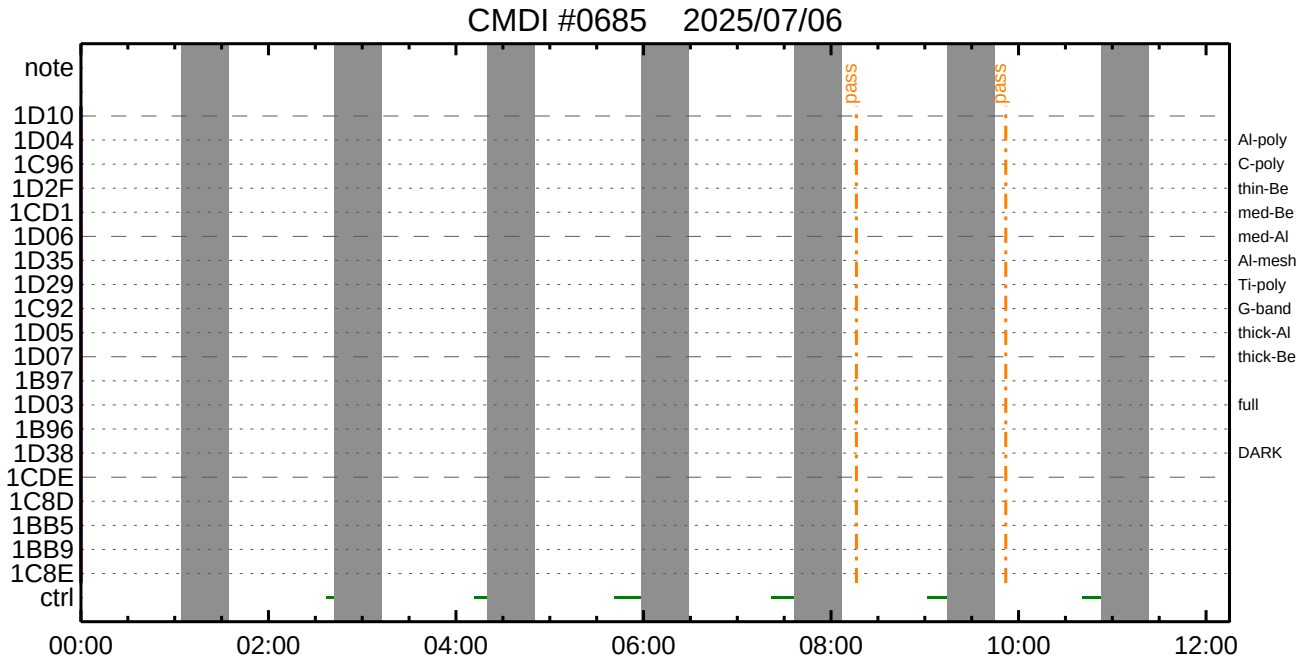


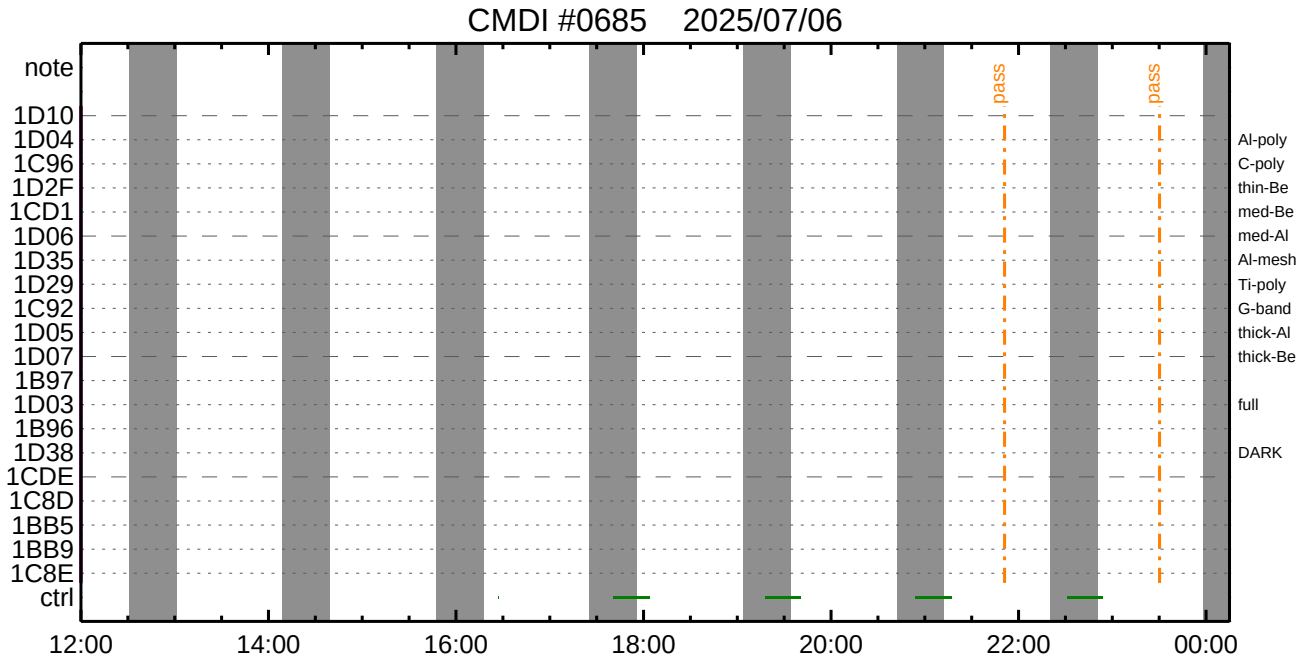
CMDI #0685 2025/07/05

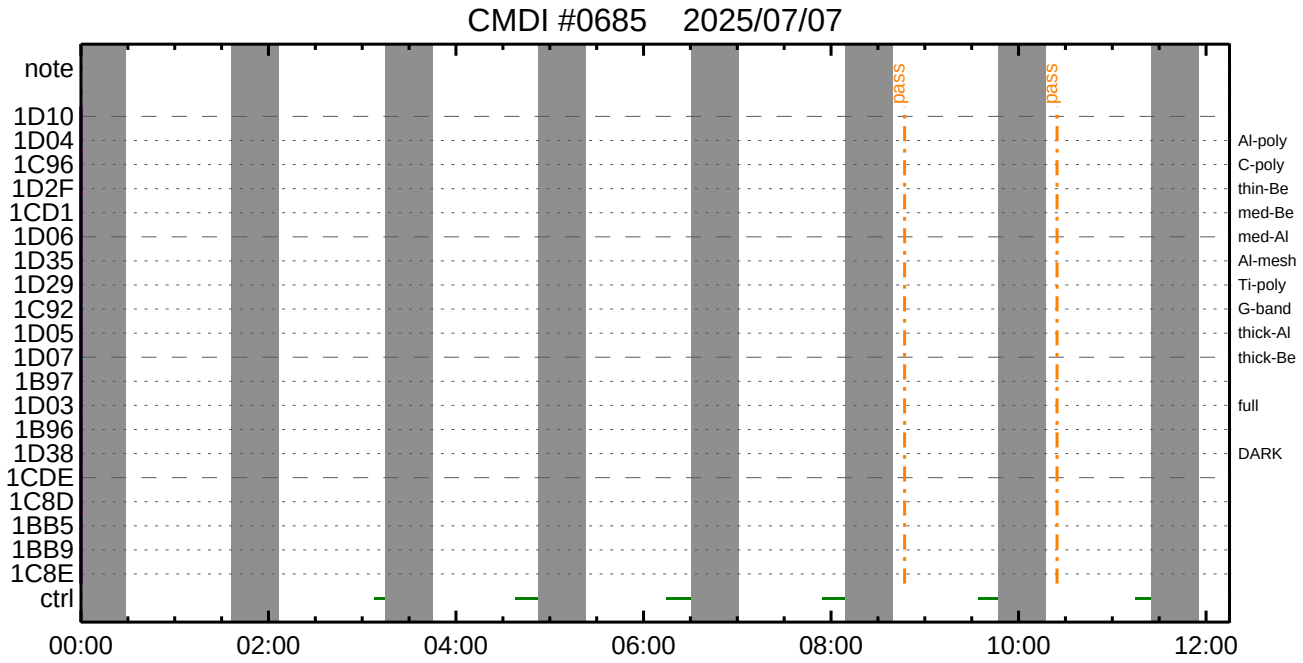


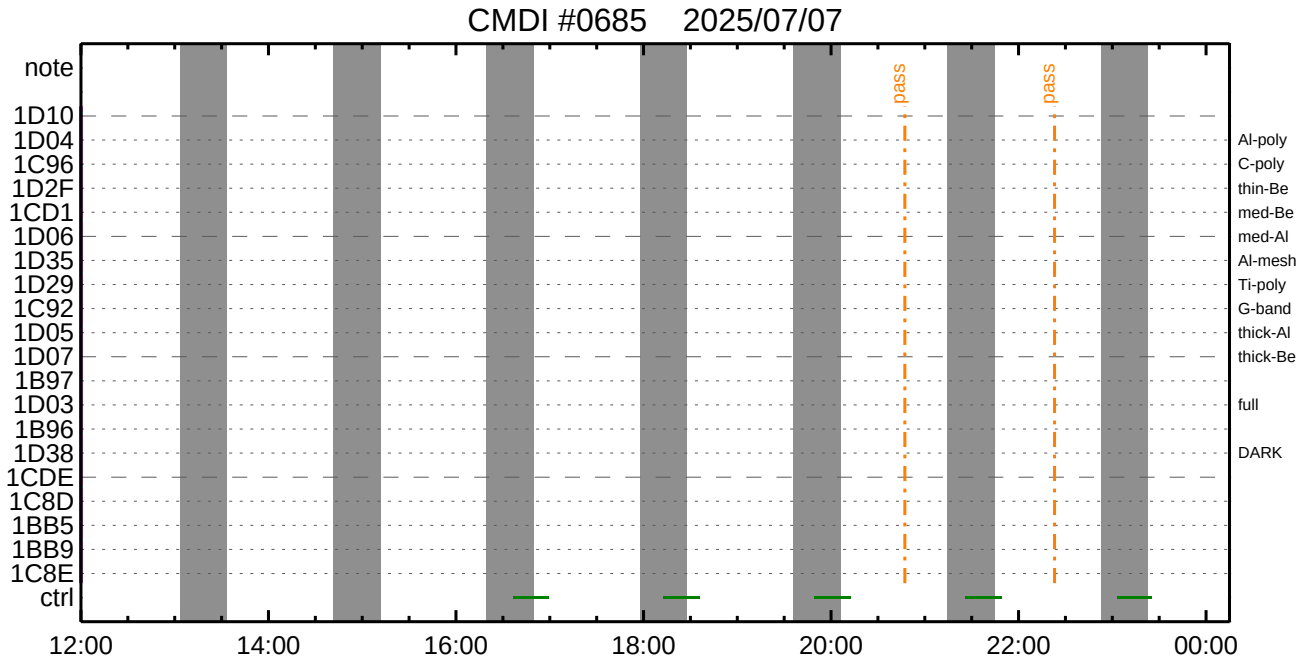
CMDI #0685 2025/07/05

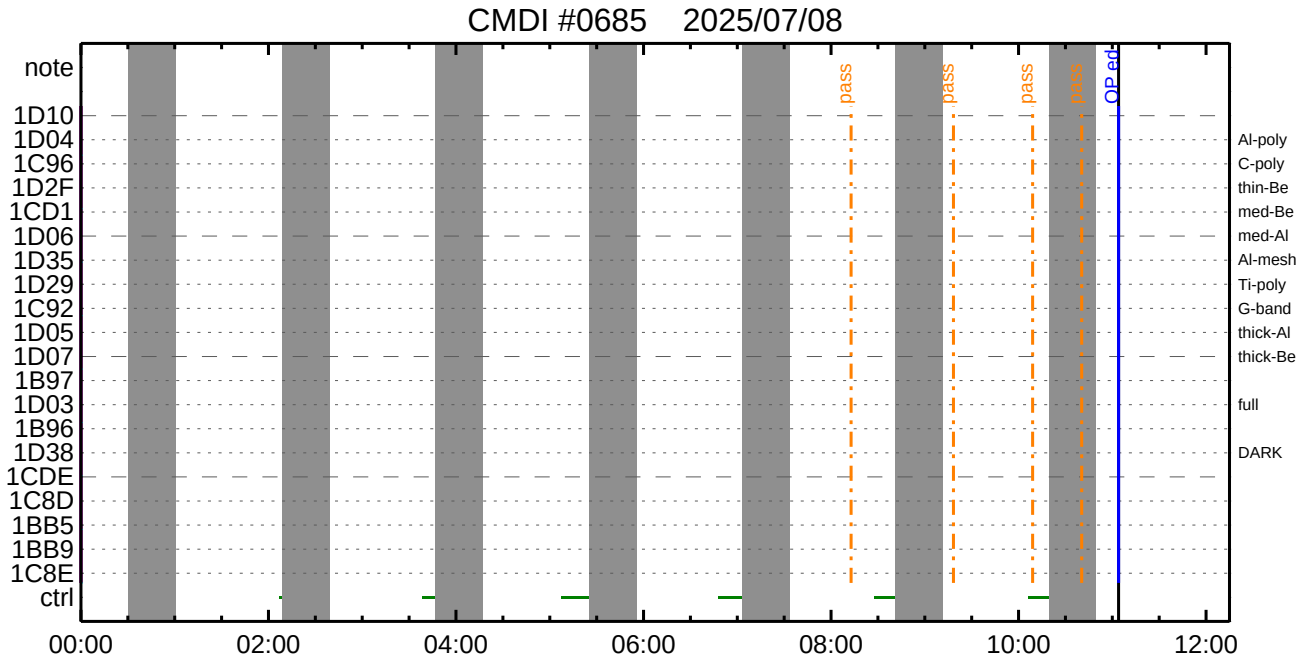


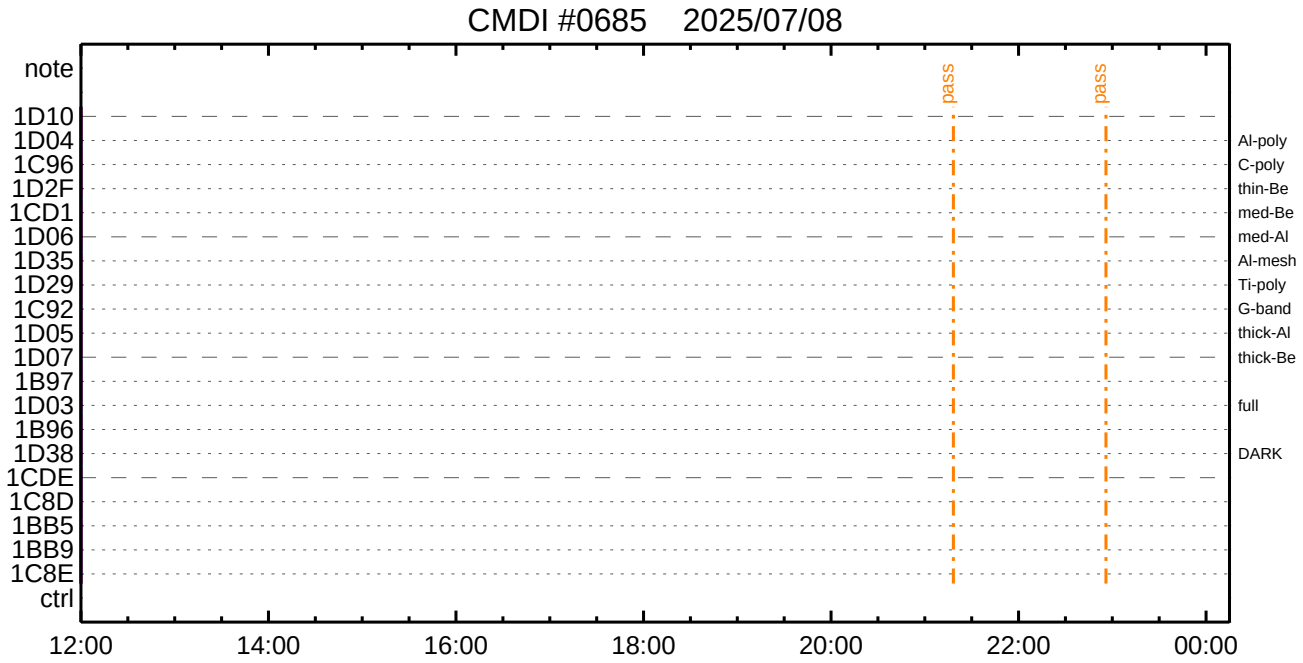

CMDI #0685 2025/07/06
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0685 2025/07/06
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0685 2025/07/07
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0685 2025/07/07
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0685 2025/07/08
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0685 2025/07/08
note
1D10
1D04
1C96
1D2F
1CD1
1D06
1D35
1D29
1C92
1D05
1D07
1B97
1D03
1B96
1D38
1CDE
1C8D
1BB5
1BB9
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

(a) Spacecraft Operation Procedure (real-commands)

```
main-372 2025-07-03 14:32:24 289 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥$¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼°ÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ °ÆÀ¸Í×È¥¤äLOS¤Þ¤Ç¤Î»þ´Ö¤ò¹ÍÎ¸¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
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.                    ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                    ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                    ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤Î°ÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ï°ÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1°ÆÀ¸³«»Ï¡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.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾¾Ú)
0043     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0044     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡ä
0047  +. DC 06-B3 DR_REP_START
0048  +  DC 01-32 DHU_X_VC4_ON
0049     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾¾Ú)
0050     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0051     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0052     C.
0053     C.
0054   . C. PT1°ÆÀ¸¤¬¼«°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ï°ÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2°ÆÀ¸³«»Ï¡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.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾¾Ú)
0069     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0070     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡ä
0073  +. DC 06-B3 DR_REP_START
0074  +  DC 01-32 DHU_X_VC4_ON
0075     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾¾Ú)
0076     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0077     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DR°ÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDR°ÆÀ¸Ää»ß¡ä
0084  +. DC 06-B4 DR_REP_STOP
0085  +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                    ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                    ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091  +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093  +  DC 03-B5 TCIA_XPA_OFF
0094     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ****************************
0099     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0100     C. ****************************
0101     C.
0102   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0103   . S. OP    op-372:OP
0104     ()
0105   . S. OG    og-372:OG
0106     ()
0107     C.
0108   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0109     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0110  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111     BC       (20 00 7f 01 02)
0112     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0113     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0114     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0115     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0116     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0117  +. DC 01-22 DHU_MODE_CHNG
0118     BC       (07 0b f8)
0119     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0120     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0121     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0122     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0123     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0124   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0125     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0126   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0127     C.
0128     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0129  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130     BC       (20 80 7f 01 02)
0131     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0132     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0133     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0134     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0135     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0136  +. DC 01-22 DHU_MODE_CHNG
0137     BC       (07 0b f8)
0138     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0139     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0140     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0141     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0142     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0143   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0144     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0145   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0146     C.
0147     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149     BC       (21 00 41 01 02)
0150     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0151     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0152     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0153     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0154     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0155  +. DC 01-22 DHU_MODE_CHNG
0156     BC       (07 0b f8)
0157     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0158     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0159     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0160     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0161     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0162   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0163     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0164   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0165     C.
0166   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤°Á÷¿® (¾åµ-¥À¥ó¥×¼êº½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0167     C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0168  +. DC 01-22 DHU_MODE_CHNG
0169     BC       (02 0a f8)
0170     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     2
0171     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0172     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0173     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0174     C.
0175   . C. ********************************
0176     C. TI-CMD SET (OPOG STOP/COPY/START)
0177     C. ********************************
0178     C.
0179   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
0180     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0181     C.
0182   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0183  +. TI 2025-07-03 11:02:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                    ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187  +. TI 2025-07-03 11:02:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                    ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191  +. TI 2025-07-03 11:02:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                    ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195  +. TI 2025-07-03 11:06:59.5
0196     DC 01-B2 DHU_OP_START
0197     C.                    ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0198     C.
0199     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
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. TIÎÎ°è¥À¥ó¥×
0207     C. ****************************
0208     C.
0209     C. TI_TBL(0x03AB00-0x03AEFF¡§ 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. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0226     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0227     C.
0228   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0229     C.
0230   . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤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.  SOT TI command set
0240     C. *********************************
0241     C. Execute, after the success of OP upload.
0242  +. TI 2025-07-03 11:06:16.0
0243     DC 07-F0 MDP_SOT_MODE_STBY
0244     BC       (41)
0245   . C. -------------------------------------
0246     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0247     C. -------------------------------------
0248     C. ************ SOT END ***********
0249   . C. Stop EIS observation and temporarily disable EIS mode changes
0250     C.
0251     C.
0252     C. ********** Start EIS operation (TI set) **********
0253     C. Execute, after the success of OP upload.
0254     C. Set EIS TI-commands
0255  +. TI 2025-07-03 11:06:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258  +. TI 2025-07-03 11:06:40.0
0259     DC 07-FC EIS_MODE_CHG_DIS
0260     BC       (22)
0261   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0262     C. *********** End EIS operation (TI set) ***********
0263     C.
0264     C.
0265     C.
0266     C. ************ XRT START ***********
0267     C. Execute, after the success of OP upload.
0268  +. TI 2025-07-03 11:06:00.0
0269     DC 07-F0 MDP_XRT_MODE_STBY
0270     BC       (c3)
0271   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0272     C.
0273     C. ************ XRT END ***********
0274     C.
0275   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0276     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0277   . S. DC-BC dcbc-402:DCBC
0278     (MDP_known_event)
0279     C.
0280     C.
0281   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0282   . S. DC-BC dcbc-153:DCBC
0283     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284     C.
0285     C.
0286   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0287     C.
0288   . C. *********** LOS ***********
0289     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-373 2025-07-03 14:32:24 169 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥$¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼°ÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ °ÆÀ¸Í×ÈÝ¤äLOS¤Þ¤Ç¤Î»þ´Ö¤ò¹ÍÎ¸¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
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.                    ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                    ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                    ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤Î°ÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ï°ÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1°ÆÀ¸³«»Ï¡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.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾¾Ú)
0043     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0044     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡ä
0047  +. DC 06-B3 DR_REP_START
0048  +  DC 01-32 DHU_X_VC4_ON
0049     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾¾Ú)
0050     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0051     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0052     C.
0053     C.
0054   . C. PT1°ÆÀ¸¤¬¼«°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ï°ÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2°ÆÀ¸³«»Ï¡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.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾¾Ú)
0069     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0070     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡ä
0073  +. DC 06-B3 DR_REP_START
0074  +  DC 01-32 DHU_X_VC4_ON
0075     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾¾Ú)
0076     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾¾Ú)
0077     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DR°ÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDR°ÆÀ¸Ää»ß¡ä
0084  +. DC 06-B4 DR_REP_STOP
0085  +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                    ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                    ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091  +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093  +  DC 03-B5 TCIA_XPA_OFF
0094     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0099     C. Upload the Orbit Element and the Target Attitude
0100     C. RAM-ID:TARGET_ATT
0101   . S. RAM   ram-150:TARGET_ATT
0102     ()
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. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130  +. DC 07-FC EIS_MODE_CHG_ENA
0131     BC       (20)
0132   . C. Verify EIS_MODE_CHG_FLG is ENA
0133  +. DC 07-FC EIS_MODE_MANU
0134     BC       (21 02)
0135   . C. Verify EIS in MANUAL mode
0136   . C. Estimated OBSTBL upload time is 55s
0137     C. *********************************
0138     C. EIS START OBSTBL LOAD
0139     C. *********************************
0140   . S. RAM   ram-820:EIS_OBSTBL
0141     ()
0142  +. DC 07-FC EIS_DUMP_OBSTBL
0143     BC       (07 07 07 00 00 70 00)
0144     C.
0145     C. Execute, after the success of OBSTBL upload.
0146     C. Set EIS TI-commands
0147  +. TI 2025-07-03 11:06:50.0
0148     DC 07-FC EIS_MODE_CHG_ENA
0149     BC       (20)
0150   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0151     C. *********************************
0152     C. EIS END OBSTBL LOAD
0153     C. *********************************
0154     C.
0155   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0156     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0157   . S. DC-BC dcbc-402:DCBC
0158     (MDP_known_event)
0159     C.
0160     C.
0161   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0162   . S. DC-BC dcbc-153:DCBC
0163     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164     C.
0165     C.
0166   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0167     C.
0168   . C. *********** LOS ***********
0169     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-374 2025-07-03 14:32:24 130 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼°ÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ********************************
0015     C.  SOT table upload
0016     C. ********************************
0017   . C. < Stop SP table >
0018  +. DC 07-F0 MDP_SP_CTRL_MANU
0019     BC       (61)
0020     C. -------------------------------------
0021     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0022     C. -------------------------------------
0023     C.
0024   . C. <Upload SP Observation Table>
0025   . S. RAM   ram-286:MDP_OBS_S
0026     ()
0027     C.
0028   . C. < Dump RAMID=MDP_OBS_S >
0029  +. DC 07-F0 MDP_DUMP_SPTBL
0030     BC       (83 07 00 00 00 38 b8)
0031     C. -------------------------------------
0032     C.  MDP_OBS_S verify = OK/NG        [ ]
0033     C. -------------------------------------
0034     C.
0035     C. ********************************
0036     C.  SOT TI command set
0037     C. ********************************
0038     C. Execute, after the success of TBL upload.
0039  +. TI 2025-07-03 11:06:18.0
0040     DC 07-F0 MDP_SOT_MODE_OBSV
0041     BC       (40)
0042   . C. -------------------------------------
0043     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0044     C. -------------------------------------
0045     C.
0046     C.
0047     C. ************ XRT START ************
0048     C.
0049  +. DC 07-F0 MDP_XRT_CTRL_MANU
0050     BC       (c1)
0051  +. DC 07-F0 MDP_XRT_CTRL_MANU
0052     BC       (c1)
0053  +  DC 07-F0 MDP_XRT_MODE_STBY
0054     BC       (c3)
0055   . C. ----------- Success Verify ?              OK / NG____
0056     C.
0057     C. XRT Obs. Table Upload
0058   . S. RAM   ram-291:MDP_OBS_X
0059     ()
0060     C.
0061  +. DC 07-F0 MDP_DUMP_XRTTBL
0062     BC       (84 07 00 00 00 3a d4)
0063   . C. ----------- Comparison Check ?                        OK / ERR ____
0064     C.
0065     C.
0066  +. DC 07-F0 MDP_XRT_ROI_SET
0067     BC       (cd 01 b1 b1 04 04)
0068  +  DC 07-F0 MDP_XRT_ROI_SET
0069     BC       (cd 02 b1 b1 08 08)
0070  +  DC 07-F0 MDP_XRT_ROI_SET
0071     BC       (cd 03 b1 b1 08 08)
0072  +  DC 07-F0 MDP_XRT_ROI_SET
0073     BC       (cd 04 b1 b1 06 06)
0074  +  DC 07-F0 MDP_XRT_ROI_SET
0075     BC       (cd 06 80 80 08 08)
0076  +  DC 07-F0 MDP_XRT_ROI_SET
0077     BC       (cd 07 80 80 20 20)
0078  +  DC 07-F0 MDP_XRT_ROI_SET
0079     BC       (cd 08 80 80 20 08)
0080  +  DC 07-F0 MDP_XRT_ROI_SET
0081     BC       (cd 09 80 80 08 20)
0082  +  DC 07-F0 MDP_XRT_ROI_SET
0083     BC       (cd 0a 85 83 08 08)
0084  +  DC 07-F0 MDP_XRT_ROI_SET
0085     BC       (cd 0f 80 80 06 06)
0086  +  DC 07-F0 MDP_XRT_ROI_SET
0087     BC       (cd 10 80 80 08 08)
0088  +  DC 07-F0 MDP_XRT_FLD_ENA
0089     BC       (d8)
0090  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0091     BC       (c8)
0092  +  DC 07-F0 MDP_XRT_ARS_DIS
0093     BC       (d5)
0094  +  DC 07-F0 MDP_XRT_AEC_RESET
0095     BC       (d0)
```

```
0096  +  DC 07-F0 MDP_XRT_FLD_RESET
0097     BC       (da)
0098  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0099     BC       (c4 07)
0100  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0101     BC       (c5 0e)
0102   . C. ---------- Success Verify ?            OK / NG ____
0103     C.
0104     C.
0105   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0106     C.
0107  +. DC 07-F0 MDP_XRT_MODE_OBSV
0108     BC       (c2)
0109  +. TI 2025-07-03 11:06:02.0
0110     DC 07-F0 MDP_XRT_MODE_OBSV
0111     BC       (c2)
0112   . C. ---------- Success Verify ?            OK / NG ____
0113     C.
0114     C. ************ XRT END ***********
0115     C.
0116   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0117     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0118   . S. DC-BC dcbc-402:DCBC
0119     (MDP_known_event)
0120     C.
0121     C.
0122   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0123   . S. DC-BC dcbc-153:DCBC
0124     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0125     C.
0126     C.
0127   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0128     C.
0129   . C. *********** LOS ***********
0130     C.
```

```
*** OP Sequence for XRT ***

2025/07/03  11:16:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  11:16:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  11:17:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 01 06 97 01 81
2025/07/03  11:17:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/03  11:17:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/03  11:17:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/03  11:17:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  11:17:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  11:19:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2025/07/03  11:19:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/03  11:24:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  11:25:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  12:32:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  12:32:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  12:32:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  12:32:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  12:35:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  13:02:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  13:03:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  14:10:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  14:10:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  14:10:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  14:10:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  14:13:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  14:41:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  14:42:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  15:34:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  15:34:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  15:34:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  15:35:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2025/07/03  15:35:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/07/03  15:35:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/07/03  15:35:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  15:37:58.0  XRT_QT_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2025/07/03  15:38:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  15:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  15:44:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  15:45:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 03 06 97 01 81
2025/07/03  15:45:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/03  15:45:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/03  15:45:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/03  15:45:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  15:45:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  15:47:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2025/07/03  15:47:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/03  15:48:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  15:48:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
```

```
2025/07/03  15:48:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  15:48:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  15:48:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  15:51:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  16:29:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  16:30:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  17:26:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  17:26:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  17:26:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  17:26:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  17:29:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  18:05:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  18:06:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  19:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  19:04:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  19:04:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  19:04:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  19:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  19:42:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  19:43:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  20:43:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  20:43:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  20:43:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  20:43:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  20:46:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  21:18:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/03  21:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  21:42:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  21:42:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  21:43:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                        AOCU_NM              5 02-76 00 5a 97 01 81
2025/07/03  21:43:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/03  21:43:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/03  21:43:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/03  21:43:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  21:43:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  21:45:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/03  21:45:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/03  21:46:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  22:21:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  22:21:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  22:21:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  22:21:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/03  22:24:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/03  22:55:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  22:55:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  22:56:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 00 51 b2 01 81
2025/07/03  22:56:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/03  22:56:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/03  22:56:20.0  XRT_AEC_RESET_448_OG [0x1c0]
```

```
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/03  22:56:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  22:56:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  22:58:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/03  22:58:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/03  22:59:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  23:18:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  23:18:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/03  23:19:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                        AOCU_NM              5 02-76 00 48 cc 01 81
2025/07/03  23:19:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/03  23:19:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/03  23:19:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/03  23:19:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/03  23:19:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  23:21:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/03  23:21:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/03  23:22:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/03  23:59:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  23:59:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/03  23:59:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/03  23:59:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  00:02:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  00:30:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  00:30:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  00:31:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                        AOCU_NM              5 02-76 00 3f e7 01 81
2025/07/04  00:31:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  00:31:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  00:31:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  00:31:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  00:31:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  00:33:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  00:33:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  00:34:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  00:53:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  00:53:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  00:54:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                        AOCU_NM              5 02-76 00 37 02 01 81
2025/07/04  00:54:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  00:54:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  00:54:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  00:54:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  00:54:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  00:56:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  00:56:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  00:57:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  01:37:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  01:37:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  01:37:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
```

```
2025/07/04  01:37:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  01:40:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  02:08:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  02:08:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  02:09:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                   AOCU_NM              5 02-76 00 2e 24 01 81
2025/07/04  02:09:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  02:09:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  02:09:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  02:09:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  02:09:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  02:11:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  02:11:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  02:12:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  02:31:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  02:31:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  02:32:00.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                   AOCU_NM              5 02-76 00 25 3f 01 81
2025/07/04  02:32:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  02:32:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  02:32:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  02:32:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  02:32:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  02:34:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  02:34:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  02:35:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  03:08:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  03:08:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  03:08:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  03:08:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  03:11:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  03:46:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  03:46:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  03:47:00.0  AOCS_ORe-point_Start_11_OG [0x0a1]
                                   AOCU_NM              5 02-76 00 1c 5a 01 81
2025/07/04  03:47:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  03:47:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  03:47:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  03:47:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  03:47:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  03:49:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  03:49:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  03:50:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  04:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  04:09:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  04:10:00.0  AOCS_ORe-point_Start_12_OG [0x0a2]
                                   AOCU_NM              5 02-76 00 13 74 01 81
2025/07/04  04:10:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  04:10:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  04:10:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  04:10:22.0  XRT_ARS_DIS_423_OG [0x1a7]
```

```
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  04:10:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  04:12:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  04:12:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  04:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  04:39:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  04:39:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  04:39:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  04:39:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  04:42:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  05:24:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  05:25:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  05:25:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  05:25:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  05:26:00.0  AOCS_ORe-point_Start_13_OG [0x0a3]
                                        AOCU_NM              5 02-76 00 0a 97 01 81
2025/07/04  05:26:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  05:26:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  05:26:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  05:26:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  05:26:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  05:28:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  05:28:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  05:29:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  05:48:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  05:48:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  05:48:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  05:49:00.0  AOCS_ORe-point_Start_14_OG [0x0a4]
                                        AOCU_NM              5 02-76 00 02 97 01 81
2025/07/04  05:49:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  05:49:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  05:49:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  05:49:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  05:49:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  05:51:56.0  XRT_QT_PROG_SET_443_OG [0x1bb]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2025/07/04  05:51:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  05:52:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  06:05:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  06:05:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  06:05:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  06:05:48.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/07/04  06:05:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/07/04  06:05:52.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  06:08:28.0  XRT_QT_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2025/07/04  06:08:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  06:15:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  06:15:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  06:15:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  06:15:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  06:18:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
```

```
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  07:02:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  07:03:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  07:03:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  07:03:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  07:04:00.0  AOCS_ORe-point_Start_15_OG [0x0a5]
                                        AOCU_NM              5 02-76 00 f9 b3 01 81
2025/07/04  07:04:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  07:04:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  07:04:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  07:04:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  07:04:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  07:06:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  07:06:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  07:07:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  07:26:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  07:26:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  07:27:00.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                        AOCU_NM              5 02-76 00 f0 cd 01 81
2025/07/04  07:27:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  07:27:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  07:27:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  07:27:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  07:27:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  07:29:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  07:29:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  07:30:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  07:55:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  07:55:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  07:55:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  07:55:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  07:58:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  08:40:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  08:41:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  08:41:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  08:41:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  08:42:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                        AOCU_NM              5 02-76 00 e7 e8 01 81
2025/07/04  08:42:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  08:42:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  08:42:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  08:42:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  08:42:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  08:44:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  08:44:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  08:45:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  09:04:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  09:04:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  09:05:00.0  AOCS_ORe-point_Start_18_OG [0x0a8]
                                        AOCU_NM              5 02-76 00 df 03 01 81
2025/07/04  09:05:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  09:05:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
```

```
2025/07/04  09:05:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  09:05:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  09:05:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  09:07:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  09:07:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  09:08:00.5  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  09:35:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  09:35:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  09:35:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  09:35:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  09:38:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  10:18:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  10:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  10:19:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  10:19:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  10:20:00.0  AOCS_ORe-point_Start_19_OG [0x0a9]
                                    AOCU_NM              5 02-76 00 d6 25 01 81
2025/07/04  10:20:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  10:20:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  10:20:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  10:20:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  10:20:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  10:22:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  10:22:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  10:23:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  10:42:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  10:42:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  10:43:00.0  AOCS_ORe-point_Start_20_OG [0x0aa]
                                    AOCU_NM              5 02-76 00 cd 40 01 81
2025/07/04  10:43:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  10:43:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  10:43:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  10:43:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  10:43:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  10:45:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  10:45:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  10:46:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  11:16:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  11:16:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  11:16:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  11:16:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  11:19:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  11:57:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  11:57:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  11:58:00.0  AOCS_ORe-point_Start_21_OG [0x0ab]
                                    AOCU_NM              5 02-76 00 c4 5b 01 81
2025/07/04  11:58:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  11:58:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  11:58:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  11:58:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
```

```
2025/07/04  11:58:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  12:00:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  12:00:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  12:01:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  12:20:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  12:20:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                  XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  12:21:00.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                  AOCU_NM              5 02-76 00 bb 75 01 81
2025/07/04  12:21:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  12:21:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                  MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  12:21:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                  MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  12:21:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  12:21:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  12:23:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  12:23:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  12:24:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  13:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  13:04:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  13:04:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  13:04:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  13:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  13:35:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  13:35:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                  XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  13:36:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                  AOCU_NM              5 02-76 00 b2 98 01 81
2025/07/04  13:36:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  13:36:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                  MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  13:36:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                  MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  13:36:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  13:36:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  13:38:56.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2025/07/04  13:38:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  13:39:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  13:58:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  13:58:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  13:58:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                  XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  13:59:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                  AOCU_NM              5 02-76 00 00 00 00 00
2025/07/04  13:59:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  13:59:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                  MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  13:59:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                  MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  13:59:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  13:59:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  14:01:56.0  XRT_QT_PROG_SET_443_OG [0x1bb]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2025/07/04  14:01:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/04  14:02:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  14:42:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  14:42:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  14:42:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  14:42:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
```

```
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  14:45:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  15:13:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  15:14:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  15:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  15:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  15:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  16:00:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/07/04  16:00:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/07/04  16:00:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  16:02:58.0  XRT_QT_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2025/07/04  16:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  16:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  16:09:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  16:10:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 02 06 97 01 81
2025/07/04  16:10:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  16:10:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  16:10:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  16:10:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  16:10:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  16:12:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2025/07/04  16:12:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/04  16:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  16:21:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  16:21:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  16:21:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  16:21:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  16:24:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  17:00:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  17:01:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  17:43:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  17:43:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  17:43:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  17:44:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2025/07/04  17:44:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/07/04  17:44:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/07/04  17:44:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  17:46:58.0  XRT_QT_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2025/07/04  17:47:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  17:53:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  17:53:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/04  17:54:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 02 06 97 01 81
2025/07/04  17:54:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/04  17:54:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/04  17:54:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/04  17:54:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/04  17:54:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  17:56:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
```

```
2025/07/04  17:56:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/04  17:57:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  17:59:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  17:59:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  17:59:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  17:59:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  18:02:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  18:37:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  18:38:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  19:37:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  19:37:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  19:37:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  19:37:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  19:40:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  20:13:31.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  20:14:31.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  21:15:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  21:15:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  21:15:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  21:15:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  21:18:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  21:50:30.5  XRT_Custom_430_OG [0x1ae]
2025/07/04  21:51:30.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  22:53:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  22:53:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  22:53:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/04  22:53:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/04  22:56:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/04  23:26:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/04  23:27:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/04  23:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/04  23:59:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/05  00:00:00.0  AOCS_ORe-point_Start_25_OG [0x0af]
                                        AOCU_NM              5 02-76 04 06 97 01 81
2025/07/05  00:00:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/05  00:00:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/05  00:00:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/05  00:00:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/05  00:00:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  00:02:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2025/07/05  00:02:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/05  00:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  00:31:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  00:31:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  00:31:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  00:31:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  00:34:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  01:02:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  01:03:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  02:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
```

```
2025/07/05  02:08:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  02:08:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  02:08:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  02:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  02:40:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  02:41:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  03:40:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  03:40:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  03:40:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  03:40:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  03:43:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/05  04:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2025/07/05  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/05  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/05  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/05  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/05  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  04:02:56.0  XRT_QT_PROG_SET_443_OG [0x1bb]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2025/07/05  04:02:58.0  XRT_FL_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 12
2025/07/05  04:18:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  04:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  05:08:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  05:08:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  05:08:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  05:08:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  05:11:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  05:56:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  05:57:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  06:01:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  06:01:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  06:01:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/05  06:02:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2025/07/05  06:02:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2025/07/05  06:02:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/05  06:04:58.0  XRT_QT_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2025/07/05  06:05:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  06:11:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  06:11:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2025/07/05  06:12:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 02 06 97 01 81
2025/07/05  06:12:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2025/07/05  06:12:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2025/07/05  06:12:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2025/07/05  06:12:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2025/07/05  06:12:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  06:14:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
```

```
2025/07/05  06:14:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2025/07/05  06:15:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  06:48:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  06:48:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  06:48:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  06:48:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  06:51:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  07:34:30.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  07:35:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  08:28:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  08:28:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  08:28:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  08:28:36.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  08:31:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  09:13:00.0  XRT_Custom_430_OG [0x1ae]
2025/07/05  09:14:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2025/07/05  10:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  10:08:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  10:08:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2025/07/05  10:08:06.0  XRT_PREFLR_STRT_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2025/07/05  10:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2025/07/05  10:58:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2025/07/05  11:15:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
```